#### J.R. Holzmacher P.E., LLC

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#### Site Characterization Report and Remedial Action Plan

For

Van Tassel Cleaners 130 Wildey Street Tarrytown, New York

#### **Prepared For:**

New York State Department of Environmental Conservation, Region III
21 South Putt Corners
New Paltz, New York 125613
Attn: Mr. Ram Pergadia

#### Prepared By:

J.R. Holzmacher P.E., LLC In joint venture with CNS Management Corporation 300 Wheeler Road, Suite 303 Hauppauge, New York 11788

On

January 12, 2005

#### Site Characterization

#### Introduction

The Robert Martin Company (RMC) and Acadia Realty Trust (Acadia) retained J. R. Holzmacher P.E., LLC (JRH) and CNS Management Corporation respectively, to prepare a summary site investigation report and remedial work plan. All current information regarding site description, background, hydrology, geology and current analytical results for the soil and groundwater can be found in that report.

#### Site Description

The subject property is an approximate 3.3-acre parcel located on the southeast corner of the intersection of Wildey and Cortlandt Streets in Tarrytown, New York. The site is improved with two commercial/retail buildings. Building one is an approximate 24,000 square foot, one-story, masonry structure with no basement. Building two is an approximate 9,000 square foot, one story masonry structure with no basement. Building one is currently vacant, but was most recently occupied by a supermarket. Building two is a strip-mall divided into six units each occupied by separate tenants (a dry cleaner, Fashion Optical, Tappan Zee Dental Group, a coin operated laundry, a video rental store and a discount store).

#### Historical Environmental Investigations

#### Property Solutions, Inc. - Phase I ESA

A Phase I Environmental Site Assessment (ESA) of the property conducted by Property Solutions, Inc. (PSI) in July 1998 identified three potential environmental concerns, which warranted additional investigation to determine if they presented a significant environmental risk to the property. The outstanding issues are summarized below:

- Underground waste oil storage tank The site inspection conducted as part of the Phase I ESA revealed the presence of a 550-gallon underground fuel oil tank located on the north side of Building Two (west end). The tank was installed in 1976 and is used by the dry cleaning shop to provide steam for cleaning equipment. PSI recommended that a tightness test be performed to determine the integrity of the tank. Because the tank is less than 1,100-gallons in capacity, it is not required to be registered with the New York State Department of Environmental conservation (NYSDEC).
- Suspect Asbestos Containing Materials (ACM) Due to the age of the strip-mall building PSI indicated that there was a potential that asbestos containing materials were present. Sixteen samples were collected from the building and analyzed for asbestos. Floor tile located in the dry cleaning shop were determined to contain asbestos above regulatory limits. Because the materials were in good condition PSI recommended removal was not warranted, but that the ACM be managed under an Operations and Management (O&M) Plan.

PCE (5 ug/l) was detected in the groundwater sample collected from boring B-2 (GW-1) and vinyl chloride (13 ug/l) was detected in the groundwater sample collected from boring B-3 (GW-2) at concentrations equal to or above their respective groundwater standards. No SVOCs were detected in the three-groundwater samples analyzed.

ATC concluded that the presence of SVOCs in soil at the site may be related to fill materials or possibly leaks from the fuel oil tank and that the presence of PCE and vinyl chloride are likely attributable to dry cleaning operations. ATC recommended tightness testing the UST and additional delineation of VOCs in groundwater.

#### CNS Management Corp, Inc. - Limited Subsurface Investigation

In October 2003, Acadia Realty Trust retained CNS Management Corporation (CNS) to conduct a limited subsurface investigation of the site. The CNS investigation consisted of drilling five soil borings (SB-01 through SB-05) in the vicinity of the fuel oil tank and dry cleaning shop using a Geoprobe<sup>TM</sup>. Soil samples from each boring (eleven total samples) and four groundwater samples from borings SB-02 through SB-05) were submitted for laboratory analysis of VOCs by Method 8260 and semivolatile organic compounds by Method 8270 (STARS List). Samples SB-2, SB-2A, SB-5A were not analyzed for SVOCs.

Analytical results indicated that one or more SVOCs were detected in five of the eight samples analyzed at concentrations exceeding their respective RSCOs. Several additional SVOCs were also present in these samples but at concentrations below their respective RSCOs. No SVOCs were detected in samples SB-1, SB-3B, and SB-4A. It is also important to note that at boring locations SB-3 and SB-4, where both shallow and deep soil samples, SVOC concentrations are significantly lower or non-detect in the deepest sample interval.

PCE was detected in six of the eleven samples (12 ug/kg to 420 ug/kg), but at concentrations significantly below the RSCO of 1,300 ug/kg. Vinyl chloride was detected in samples SB-2B (18 ug/kg) and SB-3A (24 ug/kg), but at concentrations below the RSCO of 200 ug/kg. Cis-1,2-dichloroethene (11 ug/kg) was detected in sample SB-3A and naphthalene (15 ug/kg) was detected in sample SB-2A, but at concentrations below their RSCOs of 200 ug/kg and 13,000 ug/kg respectively. Acetone was detected in samples SB-3B and SB-4A and methyl ethyl ketone was detected in sample SB-3B. As these compounds are common laboratory contaminants and have not been detected in previous investigations, they are likely attributable to laboratory cross contamination. No VOCs were detected in samples SB-5 and SB-5A.

Groundwater analytical results indicated that methyl tertial butyl ether (MTBE) was detected in the sample from boring SB-2 (GW-1) at a concentration (13 ug/l) slightly exceeding its groundwater standard of 10 ug/l. This compound is not a compound of concern at the site and has not been detected in previous investigations. CNS believed its groundwater results were inconclusive due to difficulties with collection, which may have caused the dissolved VOCs to volatilize. No VOCs were detected in samples SB-5 and SB-5A.

#### Underground Storage Tank Removal/Replacement

Tank removal/replacement operations began on March 8, 2004 and were completed on March 16, 2004. The tank removal was performed by EGS, Inc. of White Plains, New York in accordance with the procedures set forth in the American Petroleum Institute (API) Recommended Practice 1604, entitled "Removal and Disposal of Used Underground Storage Tanks" and overseen by JRH. Representatives of the Village of Tarrytown were on-site to inspect the installation of the new tank. Project photographs are included in Appendix A.

On March 8, 2004, EGS excavated overlying soils to expose the top of the tank to facilitate inspection and cleaning. Residual product in the tank was transferred into the temporary 275-gallon AST for use by the dry cleaning facility. Following the pump out the tank was cut open and EGS personnel entered the tank with protective equipment to remove residual liquid/sludge and perform a final cleaning. Residual un-pumpable liquids (50 gallons of a fuel oil/ sludge mixture) was transferred into one 55-gallon drum and transported off-site by EGS for disposal. A copy of the liquid waste manifest is included in Appendix A. Following cleaning, the tank was removed from the ground, staged on polyethylene sheeting, and later removed from the site by EGS for off-site disposal. A copy of the tank disposal receipt is included in Appendix A.

Upon removal the tank was visually inspected and documented to be intact with no evidence of leaks or holes. No evidence of impacted soils was noted in the excavation. The final dimensions of the tank excavation were 7 feet by 10 feet and extended to a depth of seven feet below grade. Prior to backfilling the excavation, JRH collected five endpoint samples, one from each side wall (NW-1, SW-1, EW-1, and WW-1) and one from the bottom of the excavation (B-1), to document soil conditions.

Endpoint soil samples were characterized by a JRH hydrogeologist and field screened for the presence of VOCs using a photoionization detector (PID). Non-disposable sampling equipment was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to the collection of each sample. The samples were placed in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to American Analytical Laboratories (NYSDOH Certification No. 11418) in Farmingdale, New York for analysis.

Soil samples were analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 (STARS List). Methods 8021 (VOCs) and 8270 (SVOCs) are specified by the New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 - Petroleum-Contaminated Soil Guidance Policy, August 1992 in the evaluation of fuel oil spills. However, due to the potential for chlorinated compounds (dry cleaning chemicals) to be present at the site, VOC analysis was performed by Method 8260. This method includes the Method 8021 list compounds and the chlorinated compounds (tetrachloroethene and degradation products) associated with dry cleaning operations. Analytical results were compared to the NYSDEC's Recommended Soil Cleanup Objectives (RSCOs) specified in the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) guidance document to determine if additional investigation and/or remediation are warranted. The RSCOs replaced the STARS Alternative Guidance Values in April of 2001.

Analytical results for the excavation endpoint samples indicated that four SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene and dibenzo(a,h)anthrancene) were detected in each of the five endpoint samples at concentrations exceeding their respective RSCOs. Chrysene was detected in samples NW-1, EW-1 and B-1 at concentrations (440 ug/l to 1,900 ug/l) exceeding the RSCO of 400 ug/l and benzo(k)fluoranthene (770 ug/l) was detected in sample EW-1 at a concentration exceeding the RSCO of 610 ug/l). Although the detected SVOC compounds can be associated with fuel oil, based on visual inspection of the tank, tank excavation, and soil boring data, they are most likely attributable to the fill materials (creosote treated wood, brick, concrete, metal fragments) beneath the site. The concentrations of these compounds, while above the NYSDEC RSCOs do not warrant significant environmental concern. Based on the potential toxicological effects of these compounds, guidance values are extremely low (typically below common laboratory detection limits). However, these compounds are poorly soluble, do not typically migrate far from their source areas, and naturally attenuate.

Five VOCs (1,2,4,5-tetramethylbenzene, 1,3,5-trimethylbenzene, naphthalene, p-diethylbenzene, and p-ethyltoluene) were detected in sample B-1 at concentrations significantly below their respective NYSDEC RSCOs. The VOC tetrachloroethene (PCE), a common dry cleaning solvent was detected in sample WW-1 (38 ug/l), but at a concentration significantly below its' RSCO of 1,300 ug/l. Analytical results for the endpoint samples are summarized in Appendix A.

#### Subsurface Soil Investigation

Previous investigations at the site revealed the presence of surficial fill material and low concentrations of dry cleaning solvents and semi-volatile organic compounds. In order to delineate the extent of impacted soils, as well determine if fill materials and/or prior uses of the property have impacted the subsurface, a soil boring investigation was conducted on March 16 and 17, 2004.

Four soil borings (MW-1 through MW-4) were drilled by Land, Air, Water Environmental Services, Inc. (LAWES) of Center Moriches, New York using a truck-mounted Mobile B-3500 drill rig equipped with 4.25-inch I.D. hollow stem augers. Boring locations were chosen based on the results of previous investigations, proximity to the fuel oil UST, the locations of site utilities, and discussions between JRH and CNS field personnel, to provide representative coverage with respect to groundwater flow direction across the site. Soil boring locations are shown on Figure 1.

At each boring location, soil samples were collected from at various depths from grade to the surface of the clay layer previously documented at the site (approximately twelve feet below grade) using a standard 2-inch by 24-inch split-spoon sampler. No soil samples were collected from the shallow soils (4'-5' below grade) as the borings were hand excavated to ensure clearance of underground utilities. Groundwater was encountered at approximately seven feet below grade at each of the four soil boring locations. Soil samples were characterized in the field by a JRH hydrogeologist and information was recorded in a bound field notebook. Boring logs are included in Appendix A. Non-disposable sampling equipment was decontaminated prior to the collection of each sample with a detergent solution (Alconox and potable water) and a potable water rinse.

One soil sample, below groundwater and above the clay layer, from each boring (MW-1 10'-12', MW-2 10'-12', MW-3 8'-10', and MW-4 10'-12') was selected for laboratory analysis based on visual observations and/or PID responses. In addition, one shallow soil sample within the fill material and above groundwater (4'-6') was submitted from the upgradient boring MW-4 for analysis. The deep samples were collected for analysis to determine if SVOCs were present below the fill layer and to determine if VOCs were represent is saturated soils that could represent a potential source for impacts to groundwater. The shallow sample from boring MW-4 was selected to represent upgradient, background conditions and was used to determine if the SVOCs detected in the tank excavation endpoint samples are indigenous to the fill and not related to a release from the former fuel oil UST.

The samples were placed in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to American Analytical Laboratories (NYSDOH Certification No. 11418) in Farmingdale, New York for analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 (STARS List). Analytical results were compared to the NYSDEC's RSCOs specified in the NYSDEC's TAGM guidance document to determine if additional investigation and/or remediation is warranted.

Analytical results that six SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene, benzo(k)fluoroanthene, chrysene, and dibenzo(a,h)anthrancene) were detected in the shallow soil sample MW-4 (4'-6') at concentrations exceeding their respective RSCOs. Six other SVOCs were also detected in sample MW-4 (4'-6'), but at concentrations below their respective RSCOs. The deep sample (10'-12') collected from boring MW-4 shows the presence of three SVOCs, but at concentration below their respective RSCOs. None of the six SVOCs that were detected above RSCOs in the shallow sample were detected in the deep sample. In addition, concentrations of the detected compounds in the deep sample MW-4 (10'-12') were significantly less than the concentrations of these compounds detected in the shallow sample MW-4 (4'-6').

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene were detected in sample MW-3 (8'-10') and benzo(a)pyrene and benzo(b)fluoroanthene were detected in sample MW-3 (8'-10') at concentrations exceeding their respective RSCOs. Several other SVOCs were also detected in samples MW-2 (10'-12') and MW-3 (8'-10'), but at concentrations below their respective RSCOs. No SVOCs were detected in sample MW-1 (10'-12'). The concentrations of SVOCs detected in samples MW-2 (10'-12') and MW-3 (8'-10') while elevated, were notably less than the concentrations of SVOCs detected in sample MW-4 (4'-6').

PCE (1 ug/kg) was detected in sample MW-2 (10'-12'), but at a concentration significantly below the RSCO of 1,300 ug/kg). No VOCs were detected above their respective laboratory detection limits in the four other samples collected/analyzed MW-1 (10'-12'), MW-3 (8'-10'), MW-4 (4'-6'), and MW-4 (10'-12'). This indicates that there is no source of VOCs, specifically PCE in saturated zone soils. Analytical results for the soil samples are summarized on Tables 3 and 4 and the laboratory reports included in Appendix A.

#### **Monitoring Well Installation**

At each of the four soil borings (MW-1 through MW-4) LAWES installed shallow groundwater monitoring wells. The groundwater monitoring wells were installed at the site on March 16 and 17, 2004 and overseen by a JRH hydrogeologist. CNS personnel were also on-site to observe the well installation and agreed with selected screen depths.

The wells were constructed of 2-inch diameter PVC and installed to a depth of five feet below the water table. Seven feet of 0.010 slot screen was installed to intersect the water table to allow for groundwater fluctuations and free product (if present) on the water table to enter the well. Well construction logs are attached in Appendix A.

The wells were developed on March 17, 2004 by surging and hand bailing. Attempts to develop the wells using a submersible pump were unsuccessful due to poor recharge related to the silty/clayey formations in which the wells were installed. Approximately ten well volumes were removed from each well during development and the water from the wells was slightly to moderately turbid and gray.

#### Groundwater Sampling

On March 22, 2004, JRH conducted gauging and collected groundwater samples from the four monitoring wells MW-1 through MW-4. Depth to water and total depth measurements were obtained from each well using a Solinst Model 101 interface probe accurate to 0.01 foot. No evidence of petroleum sheens or floating product was detected in the four wells.

Prior to sampling, each well was purged a minimum of three casing volumes of water using a dedicated disposable bailer. This was performed to ensure representative samples from the formation surrounding the wells were obtained and to eliminate standing water in the wells. Non-disposable sampling equipment (i.e. interface probe, pump) was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to purging each well. Groundwater samples were collected using dedicated, disposable bailers. Well sampling logs are included in Appendix A.

Samples were placed directly into pre-cleaned laboratory supplied bottles and placed in a cooler packed with ice for transport to the laboratory. The samples were hand delivered to American Analytical Laboratories for analysis of VOCs by Method 8260 and SVOCs by Method 8270 (STARS List).

Analytical results indicate that vinyl chloride was detected in the samples collected from wells MW-1, MW-2 and MW-3 at concentrations (5.1 ug/l to 11 ug/l) above the groundwater standard of 2 ug/l. Tetrachloroethene (PCE) was detected in the sample collected from well MW-3 at a concentration (5.4 ug/l) slightly above the groundwater standard of 5 ug/l. PCE (0.8 J) and cis-1, 2-dichloroethene (4.7 ug/l) were also detected in sample MW-2, but at concentrations below their respective groundwater standards. No VOCs were detected above their respective groundwater standards in sample MW-4.

The SVOC acenaphthalene (8 ug/l) was detected in sample MW-3, but at concentration below the NYSDEC guidance value of 20 ug/l (there is no groundwater standard for acenaphtahlene). No SVOCs were detected above their respective laboratory detection limits in the three other samples collected/analyzed (MW-1, MW-2 and MW-4).

Groundwater analytical results are summarized on Tables 5 and 6 and the laboratory reports included in Appendix A.

On October 7, 2004, JRH conducted gauging and collected groundwater samples from the four monitoring wells MW-1 through MW-4. Depth to water and total depth measurements were obtained from each well using a Solinst Model 101 interface probe accurate to 0.01 foot. No evidence of petroleum sheens or floating product was detected in the four wells. Prior to sampling, each well was purged a minimum of three casing volumes of water using a dedicated disposable bailer. This was performed to ensure representative samples from the formation surrounding the wells were obtained and to eliminate standing water in the wells. Non-disposable sampling equipment (i.e. interface probe, pump) was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to purging each well. Groundwater samples were collected using dedicated, disposable bailers. Well sampling logs are included in Appendix A. Samples were placed directly into pre-cleaned laboratory supplied bottles and placed in a cooler packed with ice for transport to the laboratory. The samples were hand delivered to American Analytical Laboratories for analysis of VOCs by Method 8260 and SVOCs by Method 8270 (STARS List).

Analytical results indicate that vinyl chloride was detected in the samples collected from wells MW-1, MW-2 and MW-3 at concentrations (3 ug/l to 12 ug/l) above the groundwater standard of 2 ug/l. Vinyl chloride (5.1 ug/l to 11 ug/l) was also detected in these three wells during the March 2004 sampling event. Tetrachloroethene (PCE) was detected in the sample collected from well MW-3 at a concentration (6.8 ug/l) slightly above the groundwater standard of 5 ug/l and the March 2004 sampling result of 5.6 ug/l. PCE was also detected in sample MW-2, but at a concentration (1.7 ug/l) below the groundwater standard. Cis-1, 2-dichloroethene was detected in the samples from well MW-2 (7.9 ug/l) and MW-3 (9.0 ug/l) at concentrations slightly exceeding the groundwater standard of 5 ug/l. Cis-1,2-dichloroethene was also detected in the sample from well MW-1 (4.8 ug/l), but at a concentration below the groundwater standard. Trichloroethene (TCE) was detected in samples MW-2 and MW-3, but at concentrations below the groundwater standard. No VOCs were detected above their respective groundwater standards in sample MW-4.

Methylene chloride was detected in each of the four samples at concentrations between 14 and 15 ug/l. However, methylene chloride is a common laboratory contaminant and was also detected in the associated laboratory blank sample. Methylene chloride was not detected in the samples collected in March 2004. Therefore, the presence of this compound is likely attributable to laboratory cross contamination.

October 2004 groundwater analytical results are summarized on Table 1 and the laboratory reports included in Appendix B.

#### Site Geology

A thin veneer of fill and unconsolidated deposits (overlying crystalline bedrock) underlies the site. ATC documented shallow refusal due to bedrock to the west of the drycleaner and five recent borings drilled by CNS in the drycleaner indicated shallow refusal assumed also to be bedrock. Therefore, the only significant thickness of soil (and groundwater) is on the north side of the drycleaner where the four monitoring wells were installed.

On this side of the property, the fill is approximately 5-feet thick and consists of asphalt, brick, wood and railroad ties in a sandy and silty matrix. Below the fill is a thin layer of brown silt and fine sand. Groundwater is present within the lower fill and silt and fine sand layers. Below the layer of sand and silt is a gray silt and clay, which becomes progressively drier to 13 feet below grade. This color and type of silt and clay deposit is indicative of the weathered schist of the Dalton Formation of Cambrian age. We did not want to penetrate this layer and cause affected groundwater to reach deeper soil levels, however, it is our opinion that this silt and clay aquitard is the top of weathered bedrock. ATC encountered refusal at 4 to 8 feet below grade in the four borings that they drilled and documented the refusal as caused by dense, weathered schist bedrock.

Therefore, a thin, perched water table underlies this portion of the site and is being tapped by the monitoring wells. It is not known if this layer of perched water continues to the north toward the Hudson River, which is one quarter, mile west of the site, however, there are no supply wells located in that direction.

#### Conclusion

#### SVOC's

The SVOCs detected in soil samples collected from this and previous investigations indicate that SVOC concentrations are highest in areas where fill is present, including areas upgradient of the former fuel oil tank and south of the strip mall building. In addition, SVOC concentrations decrease significantly with depth to below RSCOs or to non-detect. Based on these data, SVOCs present in shallow soils at the site are indigenous to the fill and are not related to the (removed) fuel oil tank.

The concentrations of these compounds, while above the NYSDEC RSCOs do not warrant significant environmental concern. Based on the potential toxicological effects of these compounds, guidance values are extremely low (typically below common laboratory detection limits). However, these compounds are poorly soluble, do not typically migrate far from their source areas, and naturally attenuate. In addition, these compounds were not detected in groundwater indicating that SVOCs are not leaching from the soil. However, JRH recommends that if these soils are disturbed by future construction activities, they then be properly handled and disposed.

#### PCE and breakdown products

PCE was detected in eight of the twenty-three soil samples collected by ATC (August 2003), CNS (October 2003), and JRH (March 2004) with concentrations ranging from 1 ug/kg to 420 ug/kg (PCE concentrations of seven of the eight detections are below 100 ug/kg). The detected concentrations are significantly below the RSCO of 1,300 ug/kg and do not warrant further investigation and/or remedial action.

PCE (0.8 ug/l to 5.4 ug/l) was detected in five of the fifteen-groundwater samples collected by ATC (August 2003), CNS (October 2003), and JRH (March and October 2004) with concentrations equal to or slightly above the groundwater standard of 5 ug/l in three of the five samples. Vinyl chloride, a degradation compound of PCE was detected in seven of the fifteen-groundwater samples at concentrations (5.1 ug/l to 13 ug/l) above the groundwater standard of 2 ug/l. Cis-1, 2-dichloroethene was detected in three samples with two concentrations slightly exceeding the groundwater standard of 5 ug/l.

#### **Remediation Action Plan**

Because there is no documented source of PCE in on-site soils (unsaturated or saturated), it is likely that the low PCE concentrations detected in the groundwater samples represent worst-case conditions, and that PCE concentrations will continue to decline through natural attenuation. The presence of vinyl chloride is evidence that the breakdown of PCE is continuing. Over time, the low concentrations of vinyl chloride will also break down into harmless end products. JRH and CNS recommend groundwater samples be collected from the four site monitoring wells on a quarterly basis to confirm these low concentrations.

Currently, CNS and JRH are in the process of drilling additional borings at the site to collect both soil and groundwater samples to further delineate the extent of the PCE and its breakdown products in the thin perched groundwater layer isolated within the rear of the dry cleaner. The boring locations are shown on figure 2.

Based on data collected to date CNS and JRH recommend the remediation of the low-level groundwater contamination through the injection of the Hydrogen Release Compound (HRC<sup>R</sup>). HRC<sup>R</sup> is a proprietary, environmentally safe, polylactate ester specially formulated by REGENESIS for the slow release of hydrogen into groundwater.

Hydrogen Release Compound Chemical Injection Treatment

HRC<sup>R</sup> is supplied as a viscous liquid for direct injection into contaminated groundwater and saturated soils. This specially formulated product slowly releases lactic acid slowly upon contact with water. This source of lactic acid is then metabolized by microbes to produce hydrogen which is then used in a natural process known as reductive dechlorination. Reductive dechlorination results in the step-by-step biological degradation of chlorinated contaminants. HRC<sup>R</sup> has successfully been used to degrade a range of chlorinated compounds including PCE, TCE, TCA and their breakdown products.

Reductive dechlorination is the mechanism by which chlorinated compounds are biologically degraded under anaerobic conditions. In this natural process, anaerobic microbes substitute hydrogen (H) for chlorine (Cl) on chlorinated contaminant molecules, thus dechlorinating the compound. Being a natural process, reductive dechlorination usually proceeds at very slow, unsustainable rates as we see at this site. HRC<sup>R</sup> increases the rate of dechlorination up to several orders of magnitude; rapidly taking the contaminant through a step-wise dechlorination process that ultimately results in the production of non-toxic compounds such as ethene and ethane.

Application of HRC<sup>R</sup> will be accomplished using push-point (Geoprobe<sup>TM</sup>) methods. Once in the subsurface, HRC<sup>R</sup> will stimulate the biodegradation of contaminants for an extended period of time (up to 18 months) eliminating the need for multiple, more frequent injections. A combination of low-cost application, an extended release profile, no operations and maintenance, minimal site disturbance and a lack of dependence on external power sources gives HRC a advantage over other applicable treatment technologies.

The installed monitoring wells will continue to be sampled on a quarterly basis to document the success of the HRC<sup>R</sup> as well as determine the need for additional injections.

#### **Signatures**

This report was conducted in accordance with industry-accepted practices, American Society for Testing and Materials (ASTM) Standard, NYSDEC DER 10 and USEPA 40 CFR 280.

Should you have any questions, or require further information, please don't hesitate to call us.

Very truly yours,

Charles Powers President- CNS

James M. DeMartinis, P.G. Senior Hydrogeologist-JRH

Greg Berger, RMC cc:

Joel Braun, Acadia



#### APPENDIX A

**APRIL 2004 REPORT** 

#### J.R. Holzmacher P.E., LLC

300 Wheeler Road, Suite 303, Hauppauge, New York 11788-4300 Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: cleanuph2o@hotmail.com

April 28, 2004

Mr. Ram Pergadia
Hazardous Waste Engineer
New York State Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, New York 12561-1696.

RE: River Plaza Shopping Center Tarrytown, New York

Dear Mr. Pergadia:

Enclosed please find a copy of our Subsurface Investigation and Underground Tank Removal/Replacement Report for the above referenced property. The report is being forwarded to you for review, at the request of Mr. Paul John (NYSDEC, Region III). I and/or Jim DeMartinis (JRH) will contact you soon to discuss the report findings.

Please call if you have any questions or require any additional information.

Very truly yours,

J. R. Holzmacher P.E., LLC

Keith W. Butler

Senior Hydrogeologist

cc: Greg Berger, RMC Lloyd Roos, RMC

#### J.R. Holzmacher P.E., LLC

300 Wheeler Road, Suite 303, Hauppauge, New York 11788-4300 Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: cleanuph2o@hotmail.com

April 12, 2004

Mr. Paul John
New York State Department of Environmental
Conservation, Region III
21 South Putt Corners
New Paltz, New York 125613

Re: Subsurface Investigation and Underground

Tank Removal/Replacement Report

River Plaza Shopping Center

130-138 Wildey Street Tarrytown, New York

Dear Mr. John:

J. R. Holzmacher P.E., LLC (JRH) was retained by the Robert Martin Company (RMC) in February of 2004 to conduct a subsurface investigation and underground storage tank removal/replacement at the above referenced property as part of the pending sale of the property. Project activities were conducted on March 8, 16, 17, and 22, 2004.

#### Site Description

The subject property is an approximate 3.3 acre parcel located on the southeast corner of the intersection of Wildey and Cortlandt Streets in Tarrytown, New York. The site is improved with two commercial/retail buildings. Building One is an approximate 24,000 square foot, one-story, masonry structure with no basement. Building Two is an approximate 9,000 square foot, one story masonry structure with no basement. Building One is currently vacant, but was most recently occupied by a supermarket. Building Two is a strip-mall divided into six units each occupied by separate tenants (a dry cleaner, Fashion Optical, Tappan Zee Dental Group, a coin operated laundry, a video rental store and a discount store).

#### **Historical Environmental Investigations**

Property Solutions, Inc. - Phase I ESA

A Phase I Environmental Site Assessment (ESA) of the property conducted by Property Solutions, Inc. (PSI) in July 1998 identified three potential environmental concerns, which warranted additional investigation to determine if they presented a significant environmental risk to the property. The outstanding issues are summarized below:

- Underground waste oil storage tank The site inspection conducted as part of the Phase I ESA revealed the presence of a 550-gallon underground fuel oil tank located on the north side of Building Two (west end). The tank was installed in 1976 and is used by the dry cleaning shop to provide steam for cleaning equipment. PSI recommended that a tightness test be performed to determine the integrity of the tank. Because the tank is less than 1,100-gallons in capacity, it is not required to be registered with the New York State Department of Environmental conservation (NYSDEC).
- Suspect Asbestos Containing Materials (ACM) Due to the age of the strip-mall building PSI indicated that there was a potential that asbestos containing materials were present. Sixteen samples were collected from the building and analyzed for asbestos. Floor tile located in the dry cleaning shop were determined to contain asbestos above regulatory limits. Because the materials were in good condition PSI recommended removal was not warranted, but that the ACM be managed under an Operations and Management (O&M) Plan.
- Dry Cleaning Operations PSI indicated that the dry cleaning shop was operated with an open loop cleaning system from 1976 (building constructed) until 1980 when the facility was converted to a closed loop system. Due to the presence of the open loop system there is a potential that dry cleaning chemicals were discharged to the environment, therefore, PSI recommended that a limited subsurface investigation be performed to determine if historical dry cleaning operations have impacted the subsurface.

#### Property Solutions, Inc. - Limited Subsurface Investigation

In August 1998, PSI conducted a limited subsurface investigation of the site. The investigation consisted of drilling four soil borings in the vicinity of the dry cleaning shop to a depth of ten feet below grade. Two soil samples from each boring, as well as groundwater samples from two borings were submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260.

Analytical results indicated that tetrachloroethene (a/k/a PCE & "perc") was detected in three of the eight soil samples analyzed at concentrations from 136 ug/kg to 1,829 ug/kg and both of the groundwater samples analyzed at concentrations of 8 ug/l and 43 ug/l, respectively. Trichloroethene and cis-1,2-dichloroethene, degradation products of PCE were also detected in each of the two groundwater samples collected, but at concentrations below their respective groundwater standards. PSI recommended that an additional investigation be conducted to determine the extent of PCE in groundwater at the site.

#### ATC, Inc. - Phase I ESA and Focused Subsurface Investigation

In July 1993, ATC Associates, Inc. (ATC) performed a Phase I ESA of the property on behalf of Noddle Development Company, a prospective buyer of the property. ATC identified the

underground fuel oil tank and dry cleaning operations as potential concerns. ATC recommended that a subsurface investigation be performed to determine if leaks from the fuel oil UST or improper chemical disposal related to historic dry cleaning operations have impacted the subsurface.

In September 2003, ATC conducted a focused subsurface site investigation of the site to address the outstanding issues related to the fuel oil tank and dry cleaning facility identified in their Phase I ESA Report. The investigation consisted of drilling four soil borings (B-1 through B-4) in the vicinity of the fuel oil tank and dry cleaning shop using a Geoprobe<sup>TM</sup>. One soil sample from each boring and groundwater samples from three borings were submitted for laboratory analysis of VOCs by Method 8260 and semivolatile organic compounds (SVOCs) by Method 8270 (STARS List).

Analytical results indicate that one or more SVOCs were detected in three of the four soil samples (B-2, B-3, and B-4) at concentrations above their respective Recommended Soil Cleanup Objectives (RSCOs). No SVOCs were detected in sample B-1 (3'-4'). PCE was detected in the sample from boring B-2, but at a concentration significantly below its RSCO. No VOCs were detected in the three other soil samples.

PCE (5 ug/l) was detected in the groundwater sample collected from boring B-2 (GW-1) and vinyl chloride (13 ug/l) was detected in the groundwater sample collected from boring B-3 (GW-2) at concentrations equal to or above their respective groundwater standards. No SVOCs were detected in the three groundwater samples analyzed.

ATC concluded that the presence of SVOCs in soil at the site may be related to fill materials or possibly leaks from the fuel oil tank and that the presence of PCE and vinyl chloride are likely attributable to dry cleaning operations. ATC recommended tightness testing of the UST and additional delineation of VOCs in groundwater.

#### CNS, Inc. - Limited Subsurface Investigation

In October 2003, Acadia Realty Trust retained CNS Management Corporation (CNS) to conduct a limited subsurface investigation of the site. The CNS investigation consisted of drilling five soil borings (SB-01 through SB-05) in the vicinity of the fuel oil tank and dry cleaning shop using a Geoprobe<sup>TM</sup>. Soil samples from each boring (eleven total samples) and four groundwater samples from borings SB-02 through SB-05) were submitted for laboratory analysis of VOCs by Method 8260 and semivolatile organic compounds by Method 8270 (STARS List). Samples SB-2, SB-2A, SB-5A were not analyzed for SVOCs.

Analytical results indicated that one or more SVOCs were detected in five of the eight samples analyzed at concentrations exceeding their respective RSCOs. Several additional SVOCs were also present in these samples but at concentrations below their respective RSCOs. No SVOCs

were detected in samples SB-1, SB-3B, and SB-4A. It is also important to note that at boring locations SB-3 and SB-4, where both shallow and deep soil samples, SVOC concentrations are significantly lower or non-detect in the deepest sample interval.

PCE was detected in six of the eleven samples (12 ug/kg to 420 ug/kg), but at concentrations significantly below the RSCO of 1,300 ug/kg. Vinyl chloride was detected in samples SB-2B (18 ug/kg) and SB-3A (24 ug/kg), but at concentrations below the RSCO of 200 ug/kg. Cis-1,2-dichloroethene (11 ug/kg) was detected in sample SB-3A and naphthalene (15 ug/kg) was detected in sample SB-2A, but at concentrations below their RSCOs of 200 ug/kg and 13,000 ug/kg respectively. Acetone was detected in samples SB-3B and SB-4A and methyl ethyl ketone was detected in sample SB-3B. As these compounds are common laboratory contaminants and have not been detected in previous investigations, they are likely attributable to laboratory cross contamination. No VOCs were detected in samples SB-5 and SB-5A.

Groundwater analytical results indicated that methyl tertial butyl ether (MTBE) was detected in the sample from boring SB-2 (GW-1) at a concentration (13 ug/l) slightly exceeding its groundwater standard of 10 ug/l. This compound is not a compound of concern at the site and has not been detected in previous investigations. CNS believed its groundwater results were inconclusive due to difficulties with collection, which may have caused the dissolved VOCs to volatilize. No VOCs were detected in samples SB-5 and SB-5A.

#### Underground Storage Tank Removal/Replacement

Tank removal/replacement operations began on March 8, 2004 and were completed on March 16, 2004. The tank removal was performed by EGS, Inc. of White Plains, New York in accordance with the procedures set forth in the American Petroleum Institute (API) Recommended Practice 1604, entitled "Removal and Disposal of Used Underground Storage Tanks" and overseen by JRH. Representatives of the Village of Tarrytown were on-site to inspect the installation of the new tank. Project photographs are included in Appendix A.

On March 8, 2004, EGS excavated overlying soils to expose the top of the tank to facilitate inspection and cleaning. Residual product in the tank was transferred into the temporary 275-gallon AST for use by the dry cleaning facility. Following the pump out the tank was cut open and EGS personnel entered the tank with protective equipment to remove residual liquid/sludge and perform a final cleaning. Residual un-pumpable liquids (50 gallons of a fuel oil/ sludge mixture) was transferred into one 55-gallon drum and transported off-site by EGS for disposal. A copy of the liquid waste manifest is included in Appendix B. Following cleaning, the tank was removed from the ground, staged on polyethylene sheeting, and later removed from the site by EGS for off-site disposal. A copy of the tank disposal receipt is included in Appendix B.

Upon removal the tank was visually inspected and documented to be intact with no evidence of leaks or holes. No evidence of impacted soils was noted in the excavation. The final dimensions

of the tank excavation were 7 feet by 10 feet and extended to a depth of seven feet below grade. Prior to backfilling the excavation, JRH collected five endpoint samples, one from each side wall (NW-1, SW-1, EW-1, and WW-1) and one from the bottom of the excavation (B-1), to document soil conditions.

Endpoint soil samples were characterized by a JRH hydrogeologist and field screened for the presence of VOCs using a photoionization detector (PID). Non-disposable sampling equipment was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to the collection of each sample. The samples were placed in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to American Analytical Laboratories (NYSDOH Certification No. 11418) in Farmingdale, New York for analysis.

Soil samples were analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 (STARS List). Methods 8021 (VOCs) and 8270 (SVOCs) are specified by the New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 - Petroleum-Contaminated Soil Guidance Policy, August 1992 in the evaluation of fuel oil spills. However, due to the potential for chlorinated compounds (dry cleaning chemicals) to be present at the site, VOC analysis was performed by Method 8260. This method includes the Method 8021 list compounds and the chlorinated compounds (tetrachloroethene and degradation products) associated with dry cleaning operations. Analytical results were compared to the NYSDEC's Recommended Soil Cleanup Objectives (RSCOs) specified in the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) guidance document to determine if additional investigation and/or remediation is warranted. The RSCOs replaced the STARS Alternative Guidance Values in April of 2001.

Analytical results for the excavation endpoint samples indicated that four SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene and dibenzo(a,h)anthrancene) were detected in each of the five endpoint samples at concentrations exceeding their respective RSCOs. Chrysene was detected in samples NW-1, EW-1 and B-1 at concentrations (440 ug/l to 1,900 ug/l) exceeding the RSCO of 400 ug/l and benzo(k)fluoranthene (770 ug/l) was detected in sample EW-1 at a concentration exceeding the RSCO of 610 ug/l). Although the detected SVOC compounds can be associated with fuel oil, based on visual inspection of the tank, tank excavation, and soil boring data, they are most likely attributable to the fill materials (creosote treated wood, brick, concrete, metal fragments) beneath the site. The concentrations of these compounds, while above the NYSDEC RSCOs do not warrant significant environmental concern. Based on the potential toxicological effects of these compounds, guidance values are extremely low (typically below common laboratory detection limits). However, these compounds are poorly soluble, do not typically migrate far from their source areas, and naturally attenuate.

Five VOCs (1,2,4,5-tetramethylbenzene, 1,3,5-trimethylbenzene, naphthalene, p-diethylbenzene, and p-ethyltoluene) were detected in sample B-1 at concentrations significantly below their respective NYSDEC RSCOs. The VOC tetrachloroethene (PCE), a common dry cleaning solvent was detected in sample WW-1 (38 ug/l), but at a concentration significantly below its' RSCO of 1,300 ug/l. Analytical results for the endpoint samples are summarized on Tables 1 and 2 and the laboratory reports are included in Appendix C.

#### Subsurface Soil Investigation

Previous investigations at the site revealed the presence of surficial fill material and low concentrations of dry cleaning solvents and semi-volatile organic compounds. In order to delineate the extent of impacted soils, as well determine if fill materials and/or prior uses of the property have impacted the subsurface, a soil boring investigation was conducted on March 16 and 17, 2004.

Four soil borings (MW-1 through MW-4) were drilled by Land, Air, Water Environmental Services, Inc. (LAWES) of Center Moriches, New York using a truck-mounted Mobile B-3500 drill rig equipped with 4.25-inch I.D. hollow stem augers. Boring locations were chosen based on the results of previous investigations, proximity to the fuel oil UST, the locations of site utilities, and discussions between JRH and CNS field personnel, to provide representative coverage with respect to groundwater flow direction across the site. Soil boring locations are shown on Figure 2.

At each boring location, soil samples were collected from at various depths from grade to the surface of the clay layer previously documented at the site (approximately twelve feet below grade) using a standard 2-inch by 24-inch split-spoon sampler. No soil samples were collected from the shallow soils (4'-5' below grade) as the borings were hand excavated to ensure clearance of underground utilities. Groundwater was encountered at approximately seven feet below grade at each of the four soil boring locations. Soil samples were characterized in the field by a JRH hydrogeologist and information was recorded in a bound field notebook. Boring logs are included as Appendix D. Non-disposable sampling equipment was decontaminated prior to the collection of each sample with a detergent solution (Alconox and potable water) and a potable water rinse.

One soil sample, below groundwater and above the clay layer, from each boring (MW-1 10'-12', MW-2 10'-12', MW-3 8'-10', and MW-4 10'-12') was selected for laboratory analysis based on visual observations and/or PID responses. In addition, one shallow soil sample within the fill material and above groundwater (4'-6') was submitted from the upgradient boring MW-4 for analysis. The deep samples were collected for analysis to determine if SVOCs were present below the fill layer and to determine if VOCs were represent is saturated soils that could represent a potential source for impacts to groundwater. The shallow sample from boring MW-4 was selected to represent upgradient, background conditions and was used to determine if the

SVOCs detected in the tank excavation endpoint samples are indigenous to the fill and not related to a release from the former fuel oil UST.

The samples were placed in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to American Analytical Laboratories (NYSDOH Certification No. 11418) in Farmingdale, New York for analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 (STARS List). Methods 8021 (VOCs) and 8270 (SVOCs). Analytical results were compared to the NYSDEC's RSCOs specified in the NYSDEC's TAGM guidance document to determine if additional investigation and/or remediation is warranted.

Analytical results that six SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene, benzo(k)fluoroanthene, chrysene, and dibenzo(a,h)anthrancene) were detected in the shallow soil sample MW-4 (4'-6') at concentrations exceeding their respective RSCOs. Six other SVOCs were also detected in sample MW-4 (4'-6'), but at concentrations below their respective RSCOs. The deep sample (10'-12') collected from boring MW-4 shows the presence of three SVOCs, but at concentration below their respective RSCOs. None of the six SVOCs that were detected above RSCOs in the shallow sample were detected in the deep sample. In addition, concentrations of the detected compounds in the deep sample MW-4 (10'-12') were significantly less than the concentrations of these compounds detected in the shallow sample MW-4 (4'-6').

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene were detected in sample MW-3 (8'-10') and benzo(a)pyrene and benzo(b)fluoroanthene were detected in sample MW-3 (8'-10') at concentrations exceeding their respective RSCOs. Several other SVOCs were also detected in samples MW-2 (10'-12') and MW-3 (8'-10'), but at concentrations below their respective RSCOs. No SVOCs were detected in sample MW-1 (10'-12'). The concentrations of SVOCs detected in samples MW-2 (10'-12') and MW-3 (8'-10') while elevated, were notably less than the concentrations of SVOCs detected in sample MW-4 (4'-6').

PCE (1 ug/kg) was detected in sample MW-2 (10'-12'), but at a concentration significantly below the RSCO of 1,300 ug/kg). No VOCs were detected above their respective laboratory detection limits in the four other samples collected/analyzed MW-1 (10'-12'), MW-3 (8'-10'), MW-4 (4'-6'), and MW-4 (10'-12'). This indicates that there is no source of VOCs, specifically PCE in saturated zone soils. Analytical results for the soil samples are summarized on Tables 3 and 4 and the laboratory reports are included in Appendix C.

#### Monitoring Well Installation

At each of the four soil borings (MW-1 through MW-4) LAWES installed shallow groundwater monitoring wells. The groundwater monitoring wells were installed at the site on March 16 and 17, 2004 and overseen by a JRH hydrogeologist. CNS personnel were also on-site to observe the well installation and agreed with selected screen depths. The wells were constructed of 2-inch diameter PVC and installed to a depth of five feet below the water table. Seven feet of 0.010 slot

screen was installed to intersect the water table to allow for groundwater fluctuations and free product (if present) on the water table to enter the well. Well construction logs are attached in Appendix E.

The wells were developed on March 17, 2004 by surging and hand bailing. Attempts to develop the wells using a submersible pump were unsuccessful due to poor recharge related to the silty/clayey formations in which the wells were installed. Approximately ten well volumes were removed from each well during development and the water from the wells was slightly to moderately turbid and gray.

#### **Groundwater Sampling**

On March 22, 2004, JRH conducted gauging and collected groundwater samples from the four monitoring wells MW-1 through MW-4. Depth to water and total depth measurements were obtained from each well using a Solinst Model 101 interface probe accurate to 0.01 foot. No evidence of petroleum sheens or floating product was detected in the four wells.

Prior to sampling, each well was purged a minimum of three casing volumes of water using a dedicated disposable bailer. This was performed to ensure representative samples from the formation surrounding the wells were obtained and to eliminate standing water in the wells. Non-disposable sampling equipment (i.e. interface probe, pump) was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to purging each well. Groundwater samples were collected using dedicated, disposable bailers. Well sampling logs are included in Appendix F.

Samples were placed directly into pre-cleaned laboratory supplied bottles and placed in a cooler packed with ice for transport to the laboratory. The samples were hand delivered to American Analytical Laboratories for analysis of VOCs by Method 8260 and SVOCs by Method 8270 (STARS List).

Analytical results indicate that vinyl chloride was detected in the samples collected from wells MW-1, MW-2 and MW-3 at concentrations (5.1 ug/l to 11 ug/l) above the groundwater standard of 2 ug/l. Tetrachloroethene (PCE) was detected in the sample collected from well MW-3 at a concentration (5.4 ug/l) slightly above the groundwater standard of 5 ug/l. PCE (0.8 J) and cis-1,2-dichloroethene (4.7 ug/l) were also detected in sample MW-2, but at concentrations below their respective groundwater standards. No VOCs were detected above their respective groundwater standards in sample MW-4.

The SVOC acenaphthalene (8 ug/l) was detected in sample MW-3, but at concentration below the NYSDEC guidance value of 20 ug/l (there is no groundwater standard for acenaphtahlene). No SVOCs were detected above their respective laboratory detection limits in the three other samples collected/analyzed (MW-1, MW-2 and MW-4).

Groundwater analytical results are summarized on Tables 5 and 6 and the laboratory reports are included in Appendix C.

#### Conclusions and Recommendations

The SVOCs detected in soil samples collected from this and previous investigations indicate that SVOC concentrations are highest in areas where fill is present, including areas upgradient of the former fuel oil tank and south of the strip mall building. In addition, SVOC concentrations decrease significantly with depth to below RSCOs or to non-detect. Based on these data, SVOCs present in shallow soils at the site are indigenous to the fill and are not related to the (removed) fuel oil tank. The concentrations of these compounds, while above the NYSDEC RSCOs do not warrant significant environmental concern. Based on the potential toxicological effects of these compounds, guidance values are extremely low (typically below common laboratory detection limits). However, these compounds are poorly soluble, do not typically migrate far from their source areas, and naturally attenuate. In addition, these compounds were not detected in groundwater indicating that SVOCs are not leaching from the soil. However, JRH recommends that if these soils are disturbed by future construction activities, they then be properly handled and disposed.

PCE was detected in eight of the twenty-three soil samples collected by ATC (August 2003), CNS (October 2003), and JRH (March 2004) with concentrations ranging from 1 ug/kg to 420 ug/kg (PCE concentrations of seven of the eight detections are below 100 ug/kg). The detected concentrations are significantly below the RSCO of 1,300 ug/kg and do not warrant further investigation and/or remedial action.

PCE (0.8 ug/l to 5.4 ug/l) was detected in three of the eleven groundwater samples collected by ATC (August 2003), CNS (October 2003), and JRH (March 2004) with concentrations equal to or slightly above the groundwater standard of 5 ug/l in two of the three samples. Vinyl chloride, a degradation compound of PCE was detected in four of the eleven groundwater samples at concentrations (5.1 ug/l to 13 ug/l) above the groundwater standard of 2 ug/l.

Because there is no documented source of PCE in on-site soils (unsaturated or saturated), it is likely that the low PCE concentrations detected in the groundwater samples represent worst case conditions, and that PCE concentrations will continue to decline through natural attenuation. The presence of vinyl chloride is evidence that the breakdown of PCE is continuing. While the concentrations of vinyl chloride do slightly exceed the groundwater standard, the concentrations are not significant to require additional investigation and/or remediation. Over time, the low concentrations of vinyl chloride will also break down into harmless end products. JRH recommends that an additional round of groundwater samples be collected from the four site monitoring wells to confirm these low concentrations.

Should you have any questions, or require further information, please don't hesitate to call me.

Very truly yours,

**PWGC** 

Keith W. Butler

Senior Hydrogeologist

James M. DeMartinis, P.G.

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cc: Greg Berger, RMC

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**TABLES** 

UNDERGROUND STORAGE TANK POST EXCAVATION SOIL ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

TABLE 1

Compound	NYSDEC (1)	NW-1	SW-1	EW-1	WW-1	B-1
1,1,1,2-Tetrachloroethane	10,000 *	ND	ND	ND	ND	ND '
1,1,1-Trichloroethane	700	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	400	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1,300	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	10,000 *	ND	ND	ND	ND	ND
1,1-Dichloroethane	300	ND	ND	ND	ND	ND
1,1-Dichloroethene	300	ND	ND	ND	ND	ND
1,1-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	8,300	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	10,000 *	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	10,000 *	ND	ND	ND	ND	6.4
1,2,4-Trichlorobenzene	8,300	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10,000	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	10,000 *	ND	ND	ND	ND	ND
1,2-Dibromoethane	10,000 *	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	ND	ND	ND	ND	ND
1,2-Dichloroethane	20 or MDL	ND	ND	ND	ND	ND
1,2-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3,300	ND	ND	ND	ND	7.8
1,3-Dichlorobenzene	1,000	ND	ND	ND	ND	ND
1,3-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	ND	ND	ND	ND	ND
2,2-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
2-Butanone (MEK)	200	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	10,000 *	ND	ND	ND	ND	ND
2-Chlorotoluene	10,000 *	ND	ND	ND	ND	ND
2-Hexanone	10,000 *	ND	ND	ND	ND	ND
4-Chlorotoluene	10,000 *	ND	ND	ND	ND	ND
p-Isopropyltoluene	10,000	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1,000	ND	ND	ND	ND	ND
Acetone	100	ND	ND	ND	ND	ND
Acrolein	10,000 *	ND	ND	ND	ND	ND
Acrylonitrile	10,000 *	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
Bromobenzene	10,000 *	ND	ND	ND	ND	ND
Bromochloromethane	10,000 *	ND	ND	ND	ND	ND
Bromodichloromethane	10,000 *	ND	ND	ND	ND	ND
Bromoform	10,000 *	ND	ND	ND	ND	ND
Bromomethane	10,000 *	ND	ND	ND	ND	ND
Carbon disulfide	2,700	ND	ND	ND	ND	ND
Carbon Tetrachloride	800	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND

TABLE 1 (con't)

## UNDERGROUND STORAGE TANK POST EXCAVATION SOIL ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

Compound	NYSDEC (1)	NW-1	SW-1	EW-1	WW-1	B-1
Chlorodibromomethane	200	ND	ND	ND	ND	ND
Chloroethane	200	ND	ND	ND	ND	ND
Chloroform	400	ND	ND	ND	ND	ND
Chloromethane	10,000 *	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	200	ND	ND	ND	ND	ND
cis-1,2-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
Dibromochloromethane	200	ND	ND	ND	ND	ND
Dibromomethane	10,000 *	ND	ND	ND	ND	ND
Dichlorodifluoromethane	10,000 *	ND	ND	ND	ND	ND
Diisopropyl ether	10,000 *	ND	ND	ND	ND	ND
Ethanol	10,000 *	ND	ND	ND	ND	ND
Ethyl acetate	10,000 *	ND	ND	ND	ND	ND
Ethyl benzene	5,500	ND	ND	ND	ND	ND
Freon-114	10,000 *	ND	ND	ND	ND	ND
Hexachlorobutadiene	10,000 *	ND	ND	ND	ND	ND
Isopropyl acetate	10,000 *	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	ND	ND	ND	ND	ND
m + p Xylene	1,200	ND	ND	ND	ND	ND
Methyl tertiary butyl ether	1,200	ND	ND	ND	ND	ND
Methylene Chloride	50 or MDL	ND	ND	ND	ND	ND
Naphthalene	13,000	ND	ND	ND	ND	29
n-Butyl acetate	10,000 *	ND	ND	ND	ND	ND
n-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
n-Propyly acetate	10,000 *	ND	ND	ND	ND	ND
n-Propylbenzene	3,700	ND	ND	ND	ND	ND
o Xylene	1,200	ND	ND	ND	ND	ND
p-Diethylbenzene	10,000 *	ND	ND	ND	ND	19
p-Ethyltoluene	10,000 *	ND	ND	ND	ND	11
sec-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
Styrene	10,000 *	ND	ND	ND	ND	ND
t-Butyl alcohol	10,000 *	ND	ND	ND	ND	ND
tert-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	ND	ND	ND	38	ND
Toluene	1,500	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	200	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
Trichloroethene	500	ND	ND	ND	ND	ND
Trichlorofluoromethane	10,000 *	ND	ND	ND	ND	ND
Vinyl acetate	10,000 *	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND

#### Notes:

1 - NYSDEC Recommended Soil Cleanup Objectives (RSCO), Technical and Administrative Guidance Memo (TAGM) 4046, 12/0 ND - Not Detected

Bolded text denotes RSCO Exceedance

\* - For those compounds were no specific RSCO has been promulgated. The RSCO of 10,000 ug/kg for total VOCs is used. All units are ug/kg.

## TABLE 2

# UNDERGROUND STORAGE TANK POST EXCAVATION SOIL ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8270 (STARS LIST)

Compound	NYSDEC (1)	NW-1	SW-1	EW-1	WW-1	B-1
Acenaphthene	50,000	ND	QN	30 J	ND	ND
Anthracene	50,000	150	09	350	75	100
Benzo(a)anthracene	224 or MDL	009	270	1,800	290	370
Benzo(a)pyrene	61 or MDL	860	370	1,600	400	530
Benzo(b)fluoranthene	61 or MDL	006	480	1,700	420	480
Benzo(g,h,i)perylene	50,000	160	280	870	330	380
Benzo(k)fluoranthene	610 or MDL	410	210	770	380	310
Chrysene	400	750	300	1,900	330	440
Dibenzo(a,h)anthracene	14.3 or MDL	190	61	320	16	120
Fluoranthene	50,000	160	470	2,600	420	590
Fluorene	50,000	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3,200	630	250	006	280	320
Naphthalene	13,000	ND	ND	ND	ND	29
Phenanthrene	50,000	200	170	800	140	270
Pyrene	50,000	810	470	2,700	450	620

## Notes.

1 - NYSDEC Recommended Soil Cleanup Standards - TAGM 4046

Total SVOCs not to exceed 50,000 ug/kg.

ND - Not Detected

NS - Not specified

Bold Text denotes RSCO exceedances.

All units are ug/kg.

SOIL BORINGS AND MONITORING WELL INSTALLATION SOIL ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

TABLE 3

Compound	NYSDEC (1)	MW-1 (10'-12')	MW-2 (10'-12')	MW-3 (8'-10')	MW-4 (4'-6')	MW-4 (10'-12')
1,1,1,2-Tetrachloroethane	10,000 *	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	700	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	400	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1,300	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	10,000 *	ND	ND	ND	ND	ND
1,1-Dichloroethane	300	ND	. ND	ND	ND	ND
1,1-Dichloroethene	300	ND	ND	ND	ND	ND
1,1-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	8,300	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	10,000 *	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	10,000 *	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	8,300	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10,000	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	10,000 *	ND	ND	ND	ND	ND
1,2-Dibromoethane	10,000 *	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	ND	ND	ND	ND	ND
1,2-Dichloroethane	20 or MDL	ND	ND	ND	ND	ND
1,2-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3,300	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1,000	ND	ND	ND	ND	ND
1,3-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	ND	ND	ND	ND	ND
2,2-Dichloropropane	10,000 *	ND	ND	ND	ND	ND
2-Butanone (MEK)	200	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	10,000 *	ND	ND	ND	ND	ND
2-Chlorotoluene	10,000 *	ND	ND	ND	ND	ND
2-Hexanone	10,000 *	ND	ND	ND	ND	ND
4-Chlorotoluene	10,000 *	ND	ND	ND	ND	ND
p-Isopropyltoluene	10,000	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1,000	ND	ND	ND	ND	ND
Acetone	100	ND	ND	ND	ND	ND
Acrolein	10,000 *	ND	ND	ND	ND	ND
Acrylonitrile	10,000 *	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
Bromobenzene	10,000 *	ND	ND	ND	ND	ND
Bromochloromethane	10,000 *	ND	ND	ND	ND	ND
Bromodichloromethane	10,000 *	ND	ND	ND	ND	ND
Bromoform	10,000 *	ND	ND	ND	ND	ND
Bromomethane	10,000 *	ND	ND	ND	ND	ND
Carbon disulfide	2,700	ND	ND	ND	ND	ND
Carbon Tetrachloride	800	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND

TABLE 3 (con't)

## SOIL BORINGS AND MONITORING WELL INSTALLATION SOIL ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

Compound	NYSDEC (1)	MW-1 (10'-12')	MW-2 (10'-12')	MW-3 (8'-10')	MW-4 (4'-6')	MW-4 (10'-12')
Chlorodibromomethane	200	ND	ND	ND	ND	ND
Chloroethane	200	ND	ND	ND	ND	ND
Chloroform	400	ND	ND	ND	ND	ND
Chloromethane	10,000 *	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	200	ND	ND	ND	ND	ND
cis-1,2-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
Dibromochloromethane	200	ND	ND	ND	ND	ND
Dibromomethane	10,000 *	ND	ND	ND	ND	ND
Dichlorodifluoromethane	10,000 *	ND	ND	ND	ND	, ND
Diisopropyl ether	10,000 *	ND	ND	ND	ND	ND
Ethanol	10,000 *	ND	ND	ND	ND	ND
Ethyl acetate	10,000 *	ND	ND	ND	ND	ND
Ethyl benzene	5,500	ND	ND	ND	ND	ND
Freon-114	10,000 *	ND	ND	ND	ND	ND
Hexachlorobutadiene	10,000 *	ND	ND	ND	ND	ND
Isopropyl acetate	10,000 *	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	ND	ND	ND	ND	ND
m + p Xylene	1,200	ND	ND	ND	ND	ND
Methyl tertiary butyl ether	1,200	ND	ND	ND	ND	ND
Methylene Chloride	50 or MDL	ND	ND	ND	ND	ND
Naphthalene	13,000	ND	ND	ND	ND	ND
n-Butyl acetate	10,000 *	ND	ND	ND	ND	ND
n-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
n-Propyly acetate	10,000 *	ND	ND	ND	ND	ND
n-Propylbenzene	3,700	ND	ND	ND	ND	ND
o Xylene	1,200	ND	ND	ND	ND	ND
p-Diethylbenzene	10,000 *	ND	ND	ND	ND	ND
p-Ethyltoluene	10,000 *	ND	ND	ND	ND	ND
sec-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
Styrene	10,000 *	ND	ND	ND	ND	ND
t-Butyl alcohol	10,000 *	ND	ND	ND	ND	ND
tert-Butylbenzene	10,000 *	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	ND	1 J	ND	ND	ND
Toluene	1,500	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	200	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10,000 *	ND	ND	ND	ND	ND
Trichloroethene	500	ND	ND	ND	ND	ND
Trichlorofluoromethane	10,000 *	ND	ND	ND	ND	ND
Vinyl acetate	10,000 *	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND

#### Notes

ND - Not Detected

Bolded text denotes RSCO Exceedance

\* - For those compounds were no specific RSCO has been promulgated. The RSCO of 10,000 ug/kg for total VOCs is used.

All units are ug/kg.

<sup>1 -</sup> NYSDEC Recommended Soil Cleanup Objectives (RSCO), Technical and Administrative Guidance Memo (TAGM) 4046, 12/00.

## TABLE 4

# SOIL BORINGS AND MONITORING WELL INSTALLATION SOIL ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8270 (STARS LIST)

Compound	NYSDEC (1)	MW-1 (10'-12') MW-2 (10'-12') MW-3 (8'-10')	MW-2 (10'-12')	MW-3 (8'-10')	MW-4 (4'-6')	MW-4 (4'-6') MW-4 (10'-12')
Acenaphthene	50,000	ND	ND	83	ND	ND
Anthracene	50,000	ND	ND	390	530	ND
Benzo(a)anthracene	224 or MDL	ND	98	420	2,900	QN
Benzo(a)pyrene	61 or MDL	ND	120	270	2,600	ND
Benzo(b)fluoranthene	61 or MDL	ND	140	. 260	2,600	ND
Benzo(g,h,i)perylene	20,000	ND	81	120	1,800	ND
Benzo(k)fluoranthene	610 or MDL	ND	58	160	980	ND
Chrysene	400	ND	ND	400	3,200	ND
Dibenzo(a,h)anthracene	14.3 or MDL	ND	ND	ND	200	ND
Fluoranthene	50,000	ND	ND	1,100	5,400	120
Fluorene	50,000	ND	ND	110	ND	ND
Indeno(1,2,3-cd)pyrene	3,200	ND	79	110	1,700	41
Naphthalene	13,000	ND	ND	ND	ND	ND
Phenanthrene	50,000	ND	ND	1,300	1,100	ND
Pyrene	50,000	ND	110	880	4,000	92

## Notes:

1 - NYSDEC Recommended Soil Cleanup Standards - TAGM 4046

Total SVOCs not to exceed 50,000 ug/kg.

ND - Not Detected

NS - Not specified

Bold Text denotes RSCO exceedances.

All units are ug/kg.

TABLE 5

## GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

Compound	NYSDEC (1)	MW-1	MW-2	MW-3	MW-4	FB-1
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND
2-Butanone (MEK)	50 *	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND
2-Hexanone	50 *	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND
Acetone	50 *	ND	ND	ND	ND	ND
Acrolein	5	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND
Bromodichloromethane	50 *	ND	ND	ND	ND	ND
Bromoform	50 *	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND

TABLE 5 (con't)

## GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

Compound	NYSDEC (1)	MW-1	MW-2	MW-3	MW-4	FB-1
Chlorodifluoromethane	5	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	4.7	ND	ND	ND
cis-1,2-Dichloropropene	0.4	ND	ND	ND	ND	ND
Dibromochloromethane	50 *	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
Diisopropyl ether	NS	ND	ND	ND	ND	ND
Ethanol	NS	ND	ND	ND	ND	ND
Ethyl acetate	NS	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Freon-114	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND
Isopropyl acetate	NS	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND
m + p Xylene	5	ND	ND	ND	ND	ND
Methyl tertiary butyl ether	10	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND
Naphthalene	10 *	ND	ND	ND	ND	ND
n-Butyl acetate	NS	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND
n-Propyl acetate	NS	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	ND	ND	ND
p-Diethylbenzene	NS	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND
t-Butyl alcohol	NS	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	0.8 J	5.4	ND	ND
Toluene	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND
Vinyl chloride	2	5.1	7.8	11	ND	ND

#### Notes:

- 1 NYSDEC Class GA Drinking Water Standards and Guidance Values, TOGS 1.1.1, June 1998
- \* Guidance Value

ND - Not Detected

NS - Not specified

Bold text denotes exceedance of standard or guidance value.

## TABLE 6

# SEMIVOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8270 (STARS LIST) GROUNDWATER ANALYTICAL RESULTS FOR

Compound	NYSDEC (1)	MW-1	MW-2	MW-3	MW-4
Acenaphthene	20 *	ND	ND	8	ND
Anthracene	\$ 0 <b>*</b>	ND	QN	QN	ND
Benzo(a)anthracene	0.002 *	ND	QN	ND	ND
Benzo(a)pyrene	ND	ND	QN	ND	ND
Benzo(b)fluoranthene	0.002 *	ND	QN	QN	ND
Benzo(g,h,i)perylene	NS	ND	ND	QN	ND
Benzo(k)fluoranthene	0.002 *	ND	ND	QN	ND
Chrysene	0.002 *	ND	ND	ND	ND
Dibenzo(a,h)anthracene	NS	ND	QN	QN	ND
Fluoranthene	\$0 *	ND	QN	QN	ND
Fluorene	50 *	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 *	ND	ND	QN	ND
Naphthalene	10 *	ND	ND	ND	ND
Phenanthrene	50 *	ND	ND	ND	ND
Pyrene	50 *	ND	ND	ND	ND

## Notes:

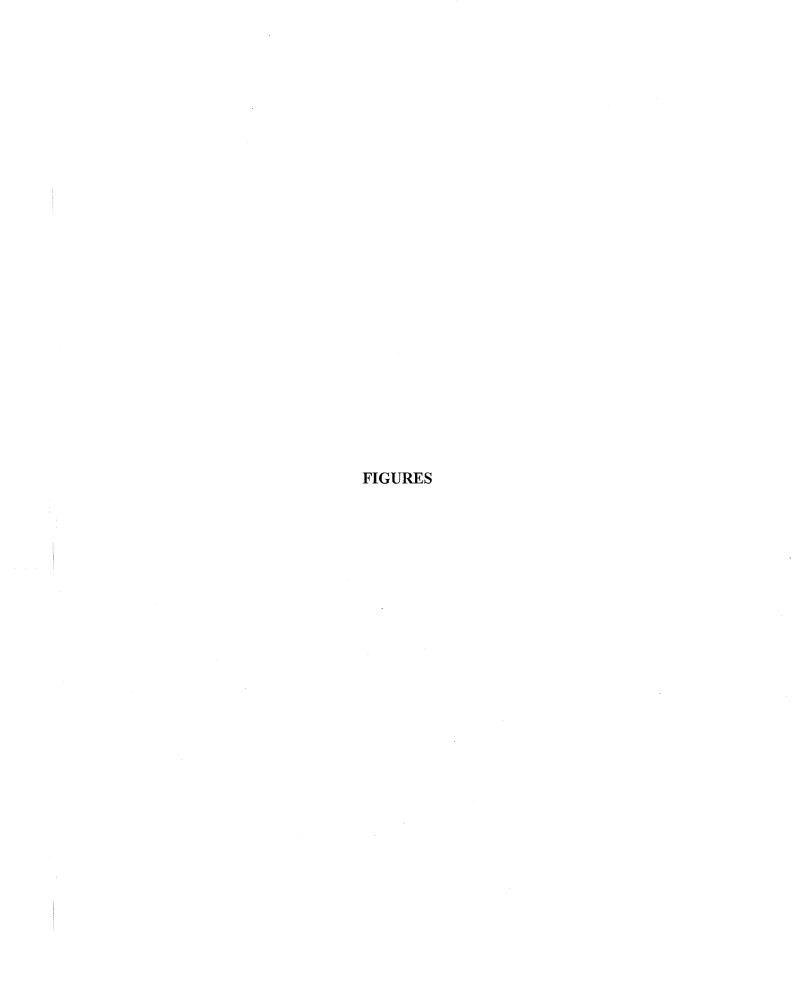
1 - NYSDEC Class GA Drinking Water Standards and Guidance Values, TOGS 1.1.1, June 1998

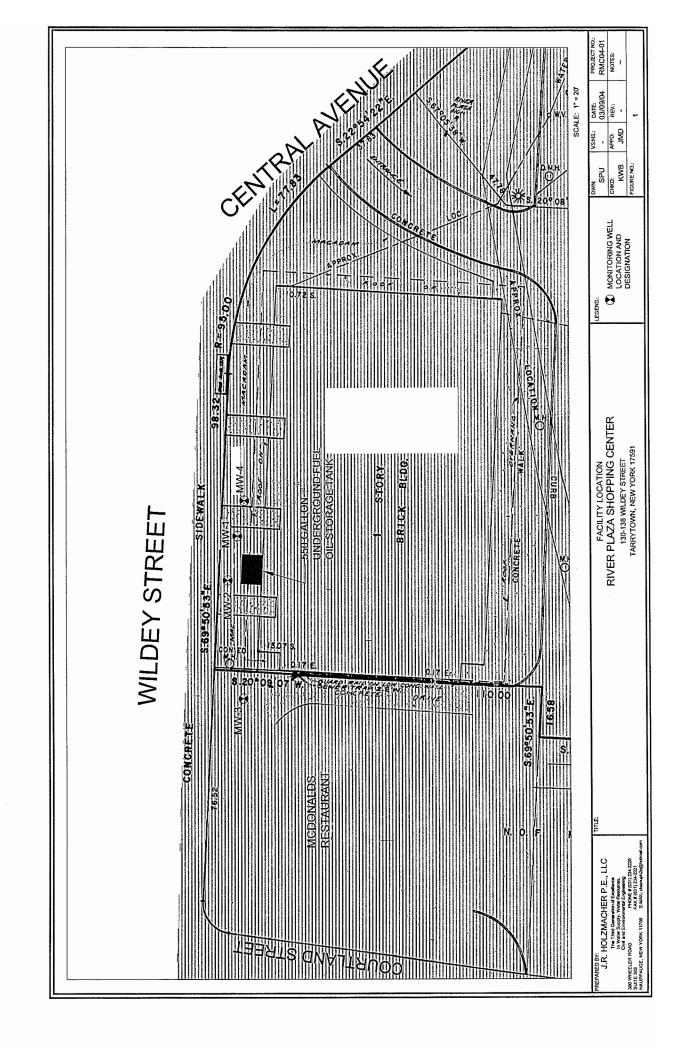
\* - Guidance Value

ND - Not Detected

NS - Not specified

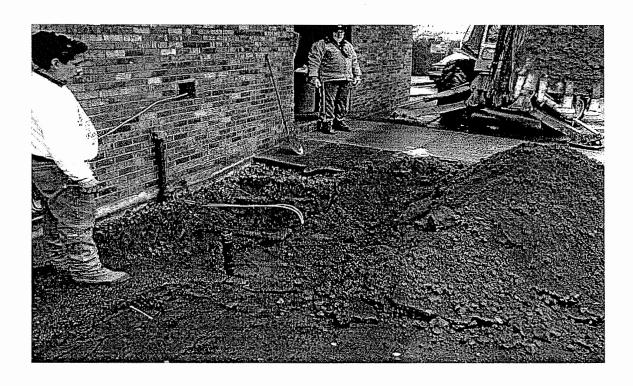
All units are ug/l.





#### APPENDIX A

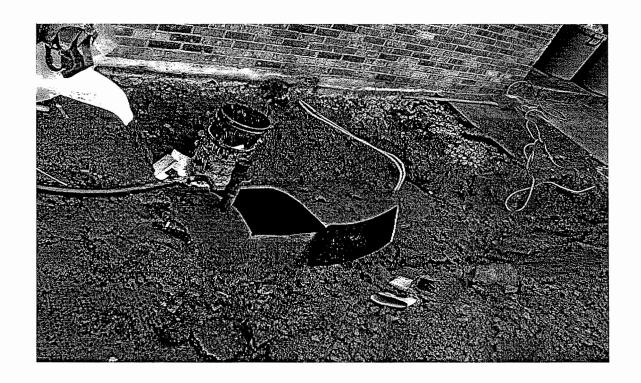
PROJECT PHOTOGRAPHS



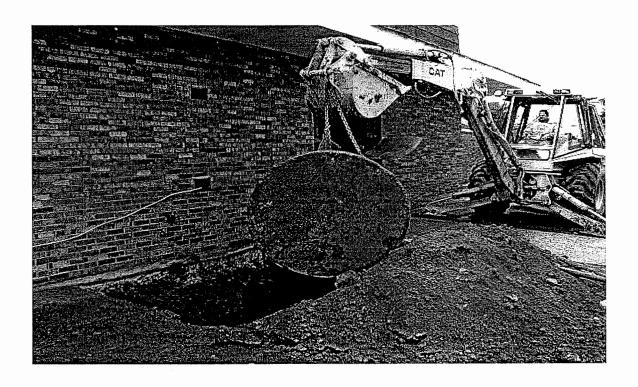
Overlying Soils Excavated to Expose Top of Tank



Overlying Soils Excavated to Expose Top of Tank



Top of Tank Cut Open to Facilitate Product Removal and Cleaning



Removing Tank from Excavation



Removing Tank from Excavation



**Excavation Following Tank Removal** 



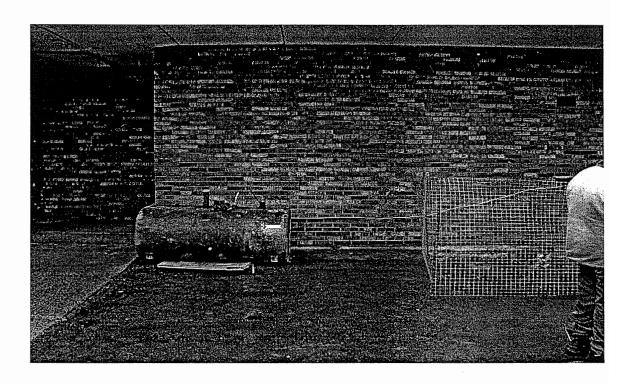
**Excavation Following Tank Removal** 



**Excavation Following Tank Removal** 



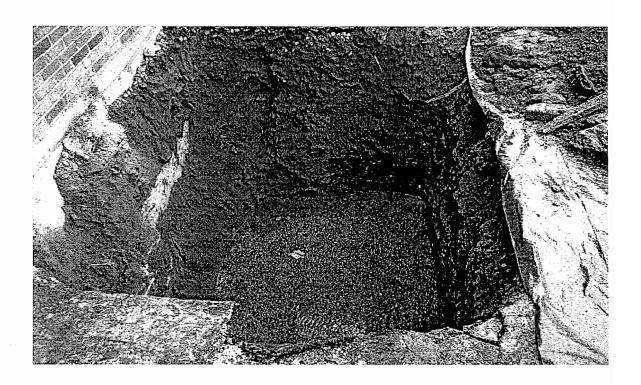
Interior of Tank Following Cleaning and Removal



Temporary Tank and Fencing Around Open Excavation



Creosote Treated Lumber at Base Of Tank Excavation



**Gravel Installed in Base Of Excavation Prior to Installation of New Tank** 



New Tank Installed in Excavation



Installation of New Tank Completed, Vent and Fill Pipes Visible



Installation of Monitoring Well MW-2, North of Fuel Oil Tank



Monitoring Well MW-3, West of Fuel Oil Tank

#### APPENDIX B

WASTE MANIFESTS AND DISPOSAL RECEIPTS

PO Box 56 • Brewster, NY 10509 Phys. (845) 270 J263, (866) WASTE OIL

## **Enviro Waste**

Oil Recovery Specialists
1.866.WASTE.OIL

STANDARD COLLECTION ORDER FORM

3/22/04

NAME \_\_\_\_

Fax (845) 279-7763

GENERATOR/LOCATION

ENVIRENCES

ACCOUNT APPROVAL CODE

ALBANY POST RU

STAFE

PURCHASE ORDER NUMBER

TIME OUT

socialish according to the applicable regulations of the Department of Transportation.

l BILL T	O (IF DIFFERENT F	FROM LOCATION:	
NAME			ر سر
INFORMATION ATTENTION LINE	GUIDE	ACCOUNT APPEC	2 2
DELIVERY ADDRESS			
CITY		STATE	; =
PHONE NUMBER	PURCH	HASE ORDER NUMBER	
MANIFEST NUMBER			

10 TYE	PE OTY UNIT US DOT DESCR	IPTION (Including	g Proper Shipping	Name, Hazard Cla	ass and ID Numbe	r) Sales R	epresentative
		\$	ERVICE SECT	MOI			
54.880008	DESCRIPTION	WASTE CODE	OUANTITY	UNIT PRICE	PRICE	TAX	UNE TOTAL
40500	USED OIL REMOVAL						
40300	ANTI-FREEZE REMOVAL				7	$7) \Omega \Omega$	
40501	OILY WATER DISPOSAL		10501			) (FAC	,01
40502	SLUDGE DISPOSAL		500 gg			<i>/</i> -	175
4.00.	GASOLINE/WATER					TIME	MOM
4.50.	DRUM DISPOSAL				3	<del>2000</del>	
41504	TANK ENTRY				<u> </u>	T +	OK
40600	OIL FILTER REMOVAL					<del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del>	-11
40800	PARTS WASHER SERVICE					1/ // //	( )E Y
٩٠٤٠٠	NEW 55 GAL DRUM / 17H				ノーマ	[H W 1+	
41503	OAOC ANALYTICAL TESTING			_ <			
42001	DEXSILTEST KIT TAX					LARF	
4.258	TRANSPORTATION		~			// /	\\\\
	VAL SEDV		(0)		/		M
CUSTOME	E SERVICES		CONDITIONALI	-Y TOTAL			

SHIPPING INFORMATION

This is to certify that the below named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for trans-

DENERATOR MARRANTS AND REPRESENTS THAT THE COLOUR SET OF COMMAND AND REPRESENTS THAT THE COLOUR SET OF COMMAND AND COLOUR SET OF COMMAND AND COLOUR SET OF COMMAND AND COLOUR SET ON COL	BEEN MIXED. JANTITY WITH S (PCB) OR ANY ER APPLICABLE 51. GENERATOR ALESS FOR ANY IT OF OR IN ANY
Generalization less in the waste is Dijused oil Dijused	antifreeze
N DESCRIPTION	
remin 3 (termine additional)	s the required
TI TI	rLE
S G-121, RE OF SENERATOR CLISTOMER	TE

EVERY 30 DAYS

# EXEMPT SMALL QUANTITY GENERATOR CERTIFICATION

I certify that this generator generates less than 100 kilograms of hazardous waste per month, as defined at 40 C FR 261, and does not accumulate more than 1,000 kilograms of such waste during the month

GENERATOR'S SIGNATURE

#### NON CONDITIONALLY EXEMPT LARGE QUANTITY GENERATOR CERTIFICATION

	Dex	sil CD l
	Test	Results
РРМ		

CHARGE MY ACCOUNT FOR THIS
TRANSACTION UNLESS OTHERWISE
INDICATED IN THE PAYMENT SECTION
INVOICED REFLECTING CHARGES TO
CUSTOMER ARE SUBJECT TO AN
INTERESTRATE OF THE LESSER OF 1-1/2% PER MONTH 1:8% PER PANJUM
OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT 4FE
NOT PAID WITHIN 30 DAYS IN THE EVENT OF DEFAULT ENVIRO WASTE
SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION INCLUDING
REASONABLE ATTORNEY'S FEES. INITIAL

CA	ASH ∙ tÍ	. TOTAL RECEIVED
CHECK ;		

In accordance with NJACT-26-6 7b + 40 CFH PAH 1 279 Enters Wasternas notified that US EFA of its location and used oil management activities

SIGNATURE CASE SAVIRO WASTE REPRESENTATIVE

KARTA CORP. 1011 LOWER SOUTH ST P.O. Box 2391 PEEKSKILL NY 10566

Ticket No :000141088

Date :03/24/04

Customer : ENVO2 ENVIROGUIDE SERVICES INC 890 KNOLLWOOD ROAD WHITE PLAINS NY 10603

Order No :1

PRICING

Loads :

107

Miles:

Tons :

MAN WT

229.75

ENV02 Truck Out-bound METAL INCOMING KARTA TRANSFER STATION NO TAX Price/tn \$0.00

MAN WT Tare Net:

Inbound 15:5 Outbound 15:5

0 lb tn

Material \$ 0.00 0.00 Delivery \$ WEIGH MASTER (CHEL) Misc \$ 0.00 Tax \$ 0.00 Total \$ 0.00

Gross

REMARKS 550 GAL CUT OPEN & CLEANED

Wildley St.

#### APPENDIX C

ANALYTICAL LABORATORY REPORTS

March 11, 2004

Keith Butler J.R. Holzmacher P.E. LLC 300 Wheeler Road Suite 303 Hauppauge, NY 11788

TEL: (631) 234-2220 FAX (631) 234-2221

RE: River Plaza, Tarrytown, N.Y.

Dear Keith Butler:

Order No.: 0403080

American Analytical Laboratories, LLC. received 5 samples on 3/9/2004 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lori Beyer

Lab Director

Date: 11-Mar-04

CLIENT: J.R. Holzmacher P.E. LLC

Project: River Plaza, Tarrytown, N.Y.

**Lab Order:** 0403080

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
Lab Sample ID	Citcut Bample 1D	1 ag 1 tumber	Concensi Bate	
0403080-01A	B-1	1124	3/8/2004	3/9/2004
0403080-02A	EW-1	1124	3/8/2004	3/9/2004
0403080-03A	WW-1	1124	3/8/2004	3/9/2004
0403080-04A	SW-1	1124	3/8/2004	3/9/2004
0403080-05A	NW-1	1124	3/8/2004	3/9/2004

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 (631) 454-6100 • FAX (631) 454-8027

TAG # / COC 1124

11418 PH-0205 NY050 68-573 NYSDOH CTDOH NJDEP PADEP

CUMENT	SAMPLE(S) YES / NO	CORRECT YES / NO	FOR	METHANOL PRESERVED SAMPLES (VOLATILE VIAL # )	2097	vectopor	2 /2/2	35th Called	45:03	0923 125	K Loll					COOLER TEMPERATURE:	COMMENTS / INSTRUCTIONS	DATE 3 8/2 PRINTED NAME	Phylla Masi	-
REQUEST FOR ANALYSIS DOCUMENT	SAMPLER (SIGNATURE)	SAMPLER NAME (PRINT) LEIST STRE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200 P	XX CUBSGSOON ON VIN	XX	XX -034 PU6	7 X NO- XX	XY - 65A 3/9/0	1000		,		,		20	TURNAROUND REQUIRED: 24 HQL CO	RECEIVED BY LAB (SIGNATURE) DATE 3	Phylle man Ingen	O F
CHAIN OF CUSTODY / REQUE	CONTACT:	380	ア 2	ING SAMPLE # - LOCATION	1-2	行りよ	13M	-MS	1-30				-				P=PAINT CHIPS; B=BULK MATERIAL	PRINTED NAME		PRINTED NAME
VOF CL	70	1785	in the second	SAMPLING DATE/ TIME	+98/2 -				<del>-&gt;</del>								S=SOIL; L=LIQUID; SL=SLUDGE; A-AIR; W=WIPE; G=GRAB; C=COMPOSITE, SS=SPLIT SPOON	DATE	TIME	DATE
CHAIN	SS SS SS SS SS SS SS SS SS SS SS SS SS	25/2	form 1	MATRIX # CON- TAINERS	2 2	-			→ >			-					QUID; SL=SLUDG =COMPOSITE,	IGNATIONE)		IGNATURE)
	CLIENT NAME/ADDRESS	2004-1-	PROJECT LOCATION:	LABORATORY ID#	A107-8905040	0403068 -OA	C+(03068 JM	0x103068 -01/A	C103068 -DM	-		-					MATRIX S=SOIL; L=LK TYPE G=GRAB; C:	RELINGUISHED BY (SIGNA	1000	RELINQUISHED BY (SIGNATURE)

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

## AMERICAN ANALYTICAL LABORATORIES, LLC

56 TOLEDO STREET FARMINGDALE, NEW YORK 11735

TELEPHONE: (631) 454-6100 FAX: (631) 454-8027

#### **DATA REPORTING QUALIFIERS**

For reporting results, the following "Results Qualifiers" are used:

Н

Value	If the result is greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	<ul> <li>Indicates an estimated value. The flag is used: <ol> <li>When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.</li> </ol> </li></ul>
В	Indicates the analyte was found in the blank as well as the sample report "10B".
<b>E</b> ,	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D .	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

Indicates sample was received and/or analyzed outside of The method allowable holding time

**Date:** 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-01A

Client Sample ID: B-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit (	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826	50B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	µg/Kg	1	3/8/2004 4:45:00 PM
1,1,1-Trichloroethane	U	5.0	µg/Kg	1	3/8/2004 4:45:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	, U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,1,2-Trichloroethane	U	5.0	µg/Kg	1	3/8/2004 4:45:00 PM
1,1-Dichloroethane	U	5.0	µg/Kg	1	3/8/2004 4:45:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,1-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2,4,5-Tetramethylbenzene	6.4	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2-Dibromoethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,3,5-Trimethylbenzene	7.8	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
2-Butanone	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
2-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Acetone	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Acrolein	U	25	μg/Kg	1	3/8/2004 4:45:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Benzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Bromochloromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Bromodichloromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Bromoform	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Bromomethane	Ū	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Carbon disulfide	Ü	5.0	μg/Kg	1	3/8/2004 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-01A

Date: 11-Mar-04

Client Sample ID: B-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
/OLATILES SW-846 METHOD 8260		SW826	0B		Analyst: LDS
Carbon tetrachloride	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Chlorobenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Chloroform	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Diisopropyl ether	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Ethanol	U	25	μg/Kg	1	3/8/2004 4:45:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Freon-114	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Isopropyl acetate	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Isopropylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
m,p-Xylene	U	10	μg/Kg	1	3/8/2004 4:45:00 PM
Methyl tert-butyl ether	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Methylene chloride	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Naphthalene	29	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
n-Butyl acetate	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
n-Propyl acetate	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
p-Diethylbenzene	19	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
p-Ethyltoluene	11	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Styrene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Tetrachloroethene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Toluene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
trans-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
trans-1,3-Dichloropropene	Ū	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Trichloroethene	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project: River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-01A

Client Sample ID: B-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qua	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260E	3		Analyst: LDS
Vinyl acetate	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/8/2004 4:45:00 PM

R - RPD outside accepted recovery limits

E - Value above quantitation range

**Date:** 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-02A

Client Sample ID: EW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В	<u>-</u>	Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1,1-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	. U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1,2-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,1-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1 .	3/8/2004 5:24:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2-Dibromoethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
2-Butanone	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
2-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Acetone	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Acrolein	U	25	μg/Kg	1	3/8/2004 5:24:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Benzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Bromobenzene	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Bromochloromethane	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Bromodichloromethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Bromoform	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Bromomethane	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Carbon disulfide	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-02A

Client Sample ID: EW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
/OLATILES SW-846 METHOD 8260		SW826			Analyst: LDS
Carbon tetrachloride	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Chlorobenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Chloroform	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Diisopropyl ether	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Ethanol	U	25	μg/Kg	1	3/8/2004 5:24:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Freon-114	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Isopropyl acetate	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Isopropylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
m,p-Xylene	U	10	μg/Kg	1	3/8/2004 5:24:00 PM
Methyl tert-butyl ether	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Methylene chloride	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Naphthalene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
n-Butyl acetate	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
n-Propyl acetate	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Styrene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
tert-Butylbenzene	Ŭ	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Tetrachloroethene	Ū	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Toluene	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
trans-1,2-Dichloroethene	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
trans-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Trichloroethene	Ü	5.0	μg/Kg	. 1	3/8/2004 5:24:00 PM
Trichlorofluoromethane	Ü	5.0	μg/Kg	1	3/8/2004 5:24:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-02A

Client Sample ID: EW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82601	3		Analyst: LDS
Vinyl acetate	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/8/2004 5:24:00 PM

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project: R

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-03A

Client Sample ID: WW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	260B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1,1-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1,2-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,1-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2-Dibromoethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
2-Butanone	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
2-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
4-Isopropyitoluene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Acetone	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Acrolein	U	25	μg/Kg	1	3/8/2004 6:02:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Benzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Bromochloromethane	Ū	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Bromodichloromethane	Ū	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Bromoform	Ü	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Bromomethane	Ü	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Carbon disulfide	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-03A

Client Sample ID: WW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit (	Qual Units	DF	Date Analyzed
OLATILES SW-846 METHOD 8260		SW826	60B		Analyst: LDS
Carbon tetrachloride	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Chlorobenzene	U	5.0	µg/Kg	1	3/8/2004 6:02:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Chloroform	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
cis-1,2-Dichloroethene	Ū	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Diisopropyl ether	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Ethanol	U	25	μg/Kg	1	3/8/2004 6:02:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Freon-114	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Hexachlorobutadiene	· U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
sopropyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Isopropylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
m,p-Xylene	U	10	μg/Kg	1	3/8/2004 6:02:00 PM
Methyl tert-butyl ether	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Methylene chloride	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Naphthalene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
n-Butyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
n-Propyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
o-Diethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
o-Ethyltoluene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Styrene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
-Butyl alcohol	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
ert-Butylbenzene	Ū	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Tetrachloroethene	38	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Foluene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
rans-1,2-Dichloroethene	Ü	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
rans-1,3-Dichloropropene	Ü	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Frichloroethene	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Trichlorofluoromethane	Ü	5.0	μg/Kg	1	3/8/2004 6:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-03A

Client Sample ID: WW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qı	ıal Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	Ŭ	5.0	μg/Kg	1	3/8/2004 6:02:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/8/2004 6:02:00 PM

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-04A

Client Sample ID: SW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826	0B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1,1-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1,2-Trichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,1-Dichloropropene	U -	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2-Dibromo-3-chloropropane	, U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2-Dibromoethane	- U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1 `	3/8/2004 6:40:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
2-Butanone	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
2-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Acetone	U	5.0	μg/Kg	1	3/8/2004`6:40:00 PM
Acrolein	U	25	μg/Kg	1	3/8/2004 6:40:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Benzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Bromochloromethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Bromodichloromethane	Ü	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Bromoform	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Bromomethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Carbon disulfide	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Client Sample ID: SW-1

Tag Number: 1124

Project:

River Plaza, Tarrytown, N.Y.

Collection Date: 3/8/2004

Lab ID:

0403080-04A

Matrix: SOIL

Analyses	Result	Limit (	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	60B		Analyst: LDS
Carbon tetrachloride	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Chlorobenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Chloroform	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Diisopropyl ether	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Ethanol	U	25	μg/Kg	1	3/8/2004 6:40:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Freon-114	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Isopropyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Isopropylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
m,p-Xylene	U	10	μg/Kg	1	3/8/2004 6:40:00 PM
Methyl tert-butyl ether	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Methylene chloride	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Naphthalene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
n-Butyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
n-Propyl acetate	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
p-Ethyltoluene	IJ	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Styrene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Tetrachloroethene	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Toluene	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
trans-1,2-Dichloroethene	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
trans-1,3-Dichloropropene	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Trichloroethene	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM
Trichlorofluoromethane	Ū	5.0	μg/Kg	1	3/8/2004 6:40:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

. . .

Project: Lab ID: River Plaza, Tarrytown, N.Y.

0403080-04A

Client Sample ID: SW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qua	l Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260E	3		Analyst: LDS
Vinyl acetate	U	5.0	µg/Кg	1	3/8/2004 6:40:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/8/2004 6:40:00 PM

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

River Plaza, Tarrytown, N.Y.

Project: Lab ID:

0403080-05A

Client Sample ID: NW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit	Qual U	nits I	<b>OF</b>	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8	260B			Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg	/Kg 1		3/8/2004 7:18:00 PM
1,1,1-Trichloroethane	U	5.0	μg	/Kg 1		3/8/2004 7:18:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg	/Kg 1		3/8/2004 7:18:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,1,2-Trichloroethane	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,1-Dichloroethane	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,1-Dichloroethene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,1-Dichloropropene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2,3-Trichloropropane	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg	Kg 1		3/8/2004 7:18:00 PM
1,2-Dibromoethane	U	5.0	μg	'Kg 1		3/8/2004 7:18:00 PM
1,2-Dichlorobenzene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,2-Dichloroethane	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,2-Dichloropropane	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,3-Dichlorobenzene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,3-dichloropropane	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
1,4-Dichlorobenzene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
2,2-Dichloropropane	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
2-Butanone	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
2-Chlorotoluene	· U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
2-Hexanone	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
4-Chlorotoluene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
4-Isopropyltoluene	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
4-Methyl-2-pentanone	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
Acetone	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
Acrolein	U	25	μg/	Kg 1		3/8/2004 7:18:00 PM
Acrylonitrile	U	5.0	μg/	Kg 1		3/8/2004 7:18:00 PM
Benzene	U	5.0	μg/			3/8/2004 7:18:00 PM
Bromobenzene	U	5.0	μg/			3/8/2004 7:18:00 PM
Bromochloromethane	U	5.0	μg/	-		3/8/2004 7:18:00 PM
Bromodichloromethane	U	5.0	μg/			3/8/2004 7:18:00 PM
Bromoform	U	5.0	μg/			3/8/2004 7:18:00 PM
Bromomethane	U	5.0	μg/			3/8/2004 7:18:00 PM
Carbon disulfide	U	5.0	μg/			3/8/2004 7:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

Project:

River Plaza, Tarrytown, N.Y.

Lab ID:

0403080-05A

Client Sample ID: NW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit	Qual Unit	s DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8:	260B		Analyst: LD\$
Carbon tetrachloride	IJ	5.0	μg/Kg	g 1	3/8/2004 7:18:00 PM
Chlorobenzene	IJ	5.0	. μg/Kg	1	3/8/2004 7:18:00 PM
Chlorodifluoromethane	U	5.0	μg/Ko	<b>1</b>	3/8/2004 7:18:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/8/2004 7:18:00 PM
Chloroform	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Chloromethane	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Dibromochloromethane	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Dibromomethane	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	<b>1</b>	3/8/2004 7:18:00 PM
Diisopropyl ether	IJ	5.0	μg/Kg	1	3/8/2004 7:18:00 PM
Ethanol	IJ	25	μg/Kg	<b>1</b>	3/8/2004 7:18:00 PM
Ethyl acetate	υ	5.0	μg/Kg	<b>1</b>	3/8/2004 7:18:00 PM
Ethylbenzene	υ	5.0	μg/Kg	<b>1</b>	3/8/2004 7:18:00 PM
Freon-114	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Hexachlorobutadiene	υ	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
Isopropyl acetate	U	5.0	μg/Kg	<b>1</b>	3/8/2004 7:18:00 PM
Isopropylbenzene	IJ	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
m,p-Xylene	υ	10	μg/Kg	, 1	3/8/2004 7:18:00 PM
Methyl tert-butyl ether	υ	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
Methylene chloride	υ	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
Naphthalene	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
n-Butyl acetate	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
n-Butylbenzene	U	5.0	μg/Kg	<b>j</b> 1	3/8/2004 7:18:00 PM
n-Propyl acetate	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
n-Propylbenzene	υ	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
o-Xylene	U	5.0	μg/Kg	j 1	3/8/2004 7:18:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
Styrene	U	5.0	μg/Kg	j 1	3/8/2004 7:18:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
Tetrachloroethene	U	5.0	μg/Kg		3/8/2004 7:18:00 PM
Toluene	U	5.0	μg/Kg	, 1	3/8/2004 7:18:00 PM
trans-1,2-Dichloroethene	U	5.0	μg/Kg		3/8/2004 7:18:00 PM
trans-1,3-Dichloropropene	U	5.0	μg/Kg		3/8/2004 7:18:00 PM
Trichloroethene	U	5.0	μg/Kg	•	3/8/2004 7:18:00 PM
Trichlorofluoromethane	·U	5.0	μg/Kg		3/8/2004 7:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 11-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403080

River Plaza, Tarrytown, N.Y.

Project: Lab ID:

0403080-05A

Client Sample ID: NW-1

Tag Number: 1124

Collection Date: 3/8/2004

Matrix: SOIL

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	U	5.0	μg/Kg	1	3/8/2004 7:18:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/8/2004 7:18:00 PM

March 26, 2004

Keith Butler J.R. Holzmacher P.E. LLC 300 Wheeler Road Suite 303 Hauppauge, NY 11788

TEL: (631) 234-2220 FAX (631) 234-2221

RE: River Plaza Tarrytown, N.Y.

Dear Keith Butler:

Order No.: 0403170

American Analytical Laboratories, LLC. received 5 samples on 3/18/2004 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Karen Kell Jor Lori Beyer

Lab Director

Date: 26-Mar-04

CLIENT: J.R. Holzmacher P.E. LLC

Project: River Plaza Tarrytown, N.Y.

**Lab Order:** 0403170

**Work Order Sample Summary** 

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0403170-01A	MW-1 @ [10'-12']	1204	3/16/2004	3/18/2014
0403170-02A	MW-3 [10'-12']	1204	3/16/2004	3/18/2014
0403170-03A	MW-2 [8'-10']	1204	3/17/2004	3/18/2014
0403170-04A	MW-4 [4'-6']	1204	3/17/2004	3/18/2014
0403170-05A	MW-4 [10'-12']	1204	3/17/2004	3/18/2014

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 ---- (631) 454-6100 • FAX (631) 454-8027

TAG # / COC 1204

11418 PH-0205 NY050 68-573 NYSDOH CTDOH NJDEP PADEP

CHAIN OF CU	HAIN	OF CUS	TO ONTAC	STODY / REQUE	CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT	SIS DOCU	MENT	
1000	DE CE			Text Oxe	Ille on Illette	Ute	SAMPLE(S) SEALED	YES/NO
12 X400-47	11788	3			SAMPLER NAME (PRINT)  LEAL, BLACK	,	CONTAINER(S)	YES / NO
PROJECT LOCATION:	LARS	Larenytem, 14-1	TS		Constant Con			For
LABORATORY MATR ID#	MATRIX # CON-	SAMPLING DATE/ TIME		SAMPLE # - LOCATION	20A			METHANOL PRESERVED SAMPLES [VOLATILE VIAL#]
6403170-01A S		3/14/st 1135		121-101 1-CM	*			
0403170-02A		3/16/04 1335		MW-3 10'-12'	+ +			
S403170-03A S	2	31714 1215		INU-2 8-10'	ナナ			
S-40-071801-0	N	3/1/24 ASS	-	MW-4 41-61	イイ			
S-40-0716-05A- S	7	3/176/1630		121-101 4-MM	メメ			
						COOLER T	COOLER TEMPERATURE:	
OIL; L=LIQUID; S RAB; C=COMF	SL=SLUDGE; / POSITE, SS=	S=SOIL; L=LIQUID; SL=SLUDGE; A-AIR; W=WIPE; P=P G=GRAB; C=COMPOSITE, SS=SPLIT SPOON	PAINT C	S=SOIL; L=LIQUID; SL=SLUDGE; A-AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL G=GRAB; C=COMPOSITE, SS=SPLIT SPOON	TURNAROUND REQUIRED: ( $\mathbb{Q}(\mathcal{A})$ NORMAR $\mathbb{Z}$ STAT BY $\mathbb{Z}(\mathcal{M})$	-//-	SZEO FILL CISTA	code.
RELINGATSKED BY (SIGNATURE)	ll.	DATEZ/18/36 PRINTED NAME TIME (30)	RINTED		RECEIVED BY LAB (SIGNATURE)	18/16/10Y	PRINTED NAME	or
RELINQUISHED BY (SIGNATURE)		<u> </u>	PRINTED NAME		RECEIVED BY LAB (SIGNATURE)	DATE	PRINTED NAME	-
		TIME				TIME		

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

## AMERICAN ANALYTICAL LABORATORIES, LLC

56 TOLEDO STREET FARMINGDALE, NEW YORK 11735 TELEPHONE: (631) 454-8027

#### **DATA REPORTING QUALIFIERS**

For reporting results, the following "Results Qualifiers" are used:

Н

Value	If the result is greater than or equal to the detection limit, report the value
<b>U</b> .	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	<ul> <li>Indicates an estimated value. The flag is used: <ol> <li>When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.</li> </ol> </li></ul>
В	Indicates the analyte was found in the blank as well as the sample report "10B".
<b>E</b> .	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
N .	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

Indicates sample was received and/or analyzed outside of

The method allowable holding time

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-01A

Client Sample ID: MW-1 @ [10'-12']

**Tag Number:** 1204 **Collection Date:** 3/16/2004

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS)		SW8	270D	(SW3	550A)	Analyst: RN
Acenaphthene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Anthracene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Benzo(a)anthracene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Benzo(a)pyrene	U	40		μg/Kg	1 .	3/24/2004 12:23:00 AM
Benzo(b)fluoranthene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Benzo(g,h,i)perylene	U.	40		μg/Kg	1	3/24/2004 12:23:00 AM
Benzo(k)fluoranthene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Chrysene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Dibenzo(a,h)anthracene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Fluoranthene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Fluorene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Indeno(1,2,3-c,d)pyrene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Phenanthrene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
Pyrene	U	40		μg/Kg	1	3/24/2004 12:23:00 AM
VOLATILES SW-846 METHOD 8260		SW82	260B			Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,1,1-Trichloroethane	U	5.0		µg/Кg	1	3/23/2004 11:40:00 AM
1,1,2,2-Tetrachloroethane	U	5.0	1	μg/Kg	1	3/23/2004 11:40:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	1	μg/Kg	1	3/23/2004 11:40:00 AM
1,1,2-Trichloroethane	U	5.0	1	μg/Kg	1	3/23/2004 11:40:00 AM
1,1-Dichloroethane	U	5.0	1	μg/Kg	1	3/23/2004 11:40:00 AM
1,1-Dichloroethene	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,1-Dichloropropene	U	5.0		µg/Kg	1	3/23/2004 11:40:00 AM
1,2,3-Trichlorobenzene	U	5.0	1	μg/Kg	1 -	3/23/2004 11:40:00 AM
1,2,3-Trichloropropane	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,2,4,5-Tetramethylbenzene	U	5.0	ı	µg/Kg	1	3/23/2004 11:40:00 AM
1,2,4-Trichlorobenzene	U	5.0	J	μg/Kg	1	3/23/2004 11:40:00 AM
1,2,4-Trimethylbenzene	U	5.0	J	μg/Kg	1	3/23/2004 11:40:00 AM
1,2-Dibromo-3-chloropropane	U	5.0	J	μg/Kg	1	3/23/2004 11:40:00 AM
1,2-Dibromoethane	U	5.0		µg/Kg	1	3/23/2004 11:40:00 AM
1,2-Dichlorobenzene	U	5.0		µg/Kg	1 -	3/23/2004 11:40:00 AM
1,2-Dichloroethane	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,2-Dichloropropane	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,3,5-Trimethylbenzene	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,3-Dichlorobenzene	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
1,3-dichloropropane	U	5.0		µg/Kg	1	3/23/2004 11:40:00 AM
1,4-Dichlorobenzene	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
2,2-Dichloropropane	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
2-Butanone	U	5.0		μg/Kg	1	3/23/2004 11:40:00 AM
2-Chloroethyl vinyl ether	Ū	5.0		ug/Kg	1	3/23/2004 11:40:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-01A

Client Sample ID: MW-1 @ [10'-12']

Tag Number: 1204

Collection Date: 3/16/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826	0B		Analyst: LDS
2-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
2-Hexanone	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Acetone	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Acrolein	U	25	μg/Kg	1	3/23/2004 11:40:00 AM
Acrylonitrile	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Benzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Bromobenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Bromochloromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Bromodichloromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Bromoform	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Bromomethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Carbon disulfide	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Carbon tetrachloride	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Chlorobenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Chloroethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Chloroform	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Chloromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Dibromochloromethane	U	5.0	μg/Kg	. 1	3/23/2004 11:40:00 AM
Dibromomethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Diisopropyl ether	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Ethanol	U	25	μg/Kg	1	3/23/2004 11:40:00 AM
Ethyl acetate	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Ethylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Freon-114	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Isopropyl acetate	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Isopropylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
m,p-Xylene	Ü	10	μg/Kg	1	3/23/2004 11:40:00 AM
Methyl tert-butyl ether	Ū.	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Methylene chloride	Ü	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Naphthalene	Ü	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
n-Butyl acetate	Ü	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
n-Butylbenzene	Ü	5.0	μg/Kg	1	3/23/2004 11:40:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

0.4004.70

Chefit Sample 1D. 19

Client Sample ID: MW-1 @ [10'-12']

Lab Order:

0403170

Tag Number: 1204

Project:

River Plaza Tarrytown, N.Y.

Collection Date: 3/16/2004

Lab ID:

0403170-01A

Matrix: SOIL

Analyses	Result	Limit Qua	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260E		Analyst: LDS	
n-Propyl acetate	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
n-Propylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
o-Xylene	U <sup>,</sup>	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Styrene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Tetrachloroethene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Toluene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
trans-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
trans-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Trichloroethene	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Vinyl acetate	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM
Vinyl chloride	U	5.0	μg/Kg	1	3/23/2004 11:40:00 AM

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-02A

Client Sample ID: MW-3 [10'-12']

Tag Number: 1204 Collection Date: 3/16/2004

Matrix: SOIL

Anthracene 390 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(a)anthracene 420 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(a)pyrene 270 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(b)fluoranthene 260 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 120 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 160 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 160 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 400 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 400 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Pluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Fluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Fluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Indeno(1,2,3-c,d)pyrene 110 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 100 5.0 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tertachloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tertachloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tichloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1-Dichloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-4-Trichloropropane	Analyses	Result	Limit (	Qual Units	DF	Date Analyzed
Anthracene 390 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(a)anthracene 420 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(a)pyrene 270 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(b)fluoranthene 260 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 120 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 160 40 µg/Kg 1 3/24/2004 12:57:00 AM Benzo(g)h)perylene 160 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 400 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 400 40 µg/Kg 1 3/24/2004 12:57:00 AM Chrysene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Pluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Fluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Fluoranthene 1100 40 µg/Kg 1 3/24/2004 12:57:00 AM Indeno(1,2,3-c,d)pyrene 110 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 1300 40 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 100 5.0 µg/Kg 1 3/24/2004 12:57:00 AM Premathrrene 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tertachloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tertachloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1,2-Tichloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,1-Dichloroethane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-3-Trichloropropane 100 5.0 µg/Kg 1 3/23/2004 14:0:00 PM 1,2-4-Trichloropropane	SEMIVOLATILES SW-846 8270(STARS)		SW82	70D (SW3	550A)	Analyst: RN
Benzo(a)anthracene	Acenaphthene	83	40	μg/Kg	1	3/24/2004 12:57:00 AM
Benzo(a)pyrene   270	Anthracene	390	40	μg/Kg	1	3/24/2004 12:57:00 AM
Benzo(b)fluoranthene         260         40         μg/kg         1         3/24/2004 12:57:00 AM           Benzo(g), I), perylene         120         40         μg/kg         1         3/24/2004 12:57:00 AM           Benzo(k)(fluoranthene         160         40         μg/kg         1         3/24/2004 12:57:00 AM           Chrysene         400         40         μg/kg         1         3/24/2004 12:57:00 AM           Dibenzo(a, h)anthracene         U         40         μg/kg         1         3/24/2004 12:57:00 AM           Fluoranthene         110         40         μg/kg         1         3/24/2004 12:57:00 AM           Fluorene         110         40         μg/kg         1         3/24/2004 12:57:00 AM           Indeno(1,2,3-c,d)pyrene         110         40         μg/kg         1         3/24/2004 12:57:00 AM           Pyrene         880         40         μg/kg         1         3/24/2004 12:57:00 AM           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst: LDS           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst: LDS           1,1,1,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 14:0:00 PM           1,1,1,2-Tetrachloroethane <td>Benzo(a)anthracene</td> <td>420</td> <td>40</td> <td>μg/Kg</td> <td>1</td> <td>3/24/2004 12:57:00 AM</td>	Benzo(a)anthracene	420	40	μg/Kg	1	3/24/2004 12:57:00 AM
Benzo(g,h,l)perylene	Benzo(a)pyrene	270	40	μg/Kg	1	3/24/2004 12:57:00 AM
Benzo(k)fluoranthene	Benzo(b)fluoranthene	260	40	μg/Kg	1 .	3/24/2004 12:57:00 AM
Chrysene         400         40         μg/kg         1         3/24/2004 12:57:00 AM           Dibenzo(a,h)anthracene         U         40         μg/kg         1         3/24/2004 12:57:00 AM           Fluoranthene         1100         40         μg/kg         1         3/24/2004 12:57:00 AM           Fluorene         110         40         μg/kg         1         3/24/2004 12:57:00 AM           Indeno(1,2,3-c,d)pyrene         110         40         μg/kg         1         3/24/2004 12:57:00 AM           Phenanthrene         1300         40         μg/kg         1         3/24/2004 12:57:00 AM           Pyrene         880         40         μg/kg         1         3/24/2004 12:57:00 AM           VOLATILES SW-846 METHOD 8260         SW8260B         A         μg/kg         1         3/23/2004 1:40:00 PM           1,1,1,2-Trichlorocethane         U         5.0         μg/kg         1         3/23/2004	Benzo(g,h,i)perylene	120	40	μg/Kg	1	3/24/2004 12:57:00 AM
Dibenzo(a,h)anthracene	Benzo(k)fluoranthene	160	40	μg/Kg	1	3/24/2004 12:57:00 AM
Fluoranthene	Chrysene	400	40	μg/Kg	1	3/24/2004 12:57:00 AM
Fluorene	Dibenzo(a,h)anthracene	U	40	μg/Kg	1	3/24/2004 12:57:00 AM
Indeno(1,2,3-c,d)pyrene	Fluoranthene	1100	40	μg/Kg	1	3/24/2004 12:57:00 AM
Phenanthrene	Fluorene	110	40	μg/Kg	1	3/24/2004 12:57:00 AM
Phenanthrene	Indeno(1,2,3-c,d)pyrene	110	40	μg/Kg	1	3/24/2004 12:57:00 AM
Pyrene         880         40         μg/Kg         1         3/24/2004 12:57:00 AM           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst: LDS           1,1,1,2-Tetrachloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1,1-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,2-Trichlorobenzene         U         5.0         μg/Kg         1         3/23/2004 1:40:00 PM           1,2,3-Trichlorobenzene         U         5.0         μg/Kg         1         3/23/2004 1:40:00 P	Phenanthrene	1300	40		1	3/24/2004 12:57:00 AM
1,1,1,2-Tetrachloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1,1-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroptopene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroptopene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethan	Pyrene	880	40		1	3/24/2004 12:57:00 AM
1,1,1-Trichloroethane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1,2,2-Tetrachloroethane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1,2-Trichloro-1,2,2-trifluoroethane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloroethane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloroethane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloropthane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloropthane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,1-Dichloropthane         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,2,3-Trichlorobenzene         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,2,4-5-Tetramethylbenzene         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,2,4-Trichlorobenzene         U         5.0         µg/Kg         1         3/23/2004 1:40:00 PM           1,2-Dibromo-3-chloropropane         U	VOLATILES SW-846 METHOD 8260		SW826	60B		Analyst: LDS
1,1,2,2-Tetrachloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloro-1,2,2-trifluoroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoesthane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloroptopane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Di	1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibrhoroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-S	1,1,1-Trichloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene	1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloroethene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4,5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromobethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-S-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene <td>1,1,2-Trichloro-1,2,2-trifluoroethane</td> <td>U</td> <td>5.0</td> <td>μg/Kg</td> <td>1</td> <td>3/23/2004 1:40:00 PM</td>	1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,1-Dichloroethene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene <td>1,1,2-Trichloroethane</td> <td>U</td> <td>5.0</td> <td>μg/Kg</td> <td>1</td> <td>3/23/2004 1:40:00 PM</td>	1,1,2-Trichloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4,5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane </td <td>1,1-Dichloroethane</td> <td>U</td> <td>5.0</td> <td>μg/Kg</td> <td>1</td> <td>3/23/2004 1:40:00 PM</td>	1,1-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,3-Trichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4.5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene	1,1-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2,3-Trichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4,5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-5-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane <td>1,1-Dichloropropene</td> <td>U</td> <td>5.0</td> <td>μg/Kg</td> <td>1</td> <td>3/23/2004 1:40:00 PM</td>	1,1-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2,4,5-Tetramethylbenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropenane 1,2-Dichloropenane 1,2-Dichloropenane 1,3-Dichloropenane 1,3-Dichlorop	1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane	1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,-Butanone       U	1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2-Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2-Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2-Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2-Dibromoethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2-Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,3,5-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,3-dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         1,4-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2,2-Dichloropropane       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM         2-Butanone       U       5.0       μg/Kg       1       3/23/2004 1:40:00 PM	1,2-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,3-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM1,3-dichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM1,4-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM2,2-DichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM2-ButanoneU5.0μg/Kg13/23/2004 1:40:00 PM	1,2-Dichloropropane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,3-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM1,3-dichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM1,4-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM2,2-DichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM2-ButanoneU5.0μg/Kg13/23/2004 1:40:00 PM	1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
1,3-dichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM1,4-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM2,2-DichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM2-ButanoneU5.0μg/Kg13/23/2004 1:40:00 PM		U	5.0		1	3/23/2004 1:40:00 PM
1,4-DichlorobenzeneU5.0μg/Kg13/23/2004 1:40:00 PM2,2-DichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM2-ButanoneU5.0μg/Kg13/23/2004 1:40:00 PM	1,3-dichloropropane	U	5.0		1	3/23/2004 1:40:00 PM
2,2-DichloropropaneU5.0μg/Kg13/23/2004 1:40:00 PM2-ButanoneU5.0μg/Kg13/23/2004 1:40:00 PM	1,4-Dichlorobenzene	U	5.0		1	3/23/2004 1:40:00 PM
2-Butanone U 5.0 μg/Kg 1 3/23/2004 1:40:00 PM	2,2-Dichloropropane	U	5.0		1	3/23/2004 1:40:00 PM
	2-Butanone	U	5.0		1	3/23/2004 1:40:00 PM
2-Onlorded by high ediel 0 5,0 µg/ng 1 3/23/2004 1:40:00 PM	2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

**Date:** 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-02A

Client Sample ID: MW-3 [10'-12']

Tag Number: 1204 Collection Date: 3/16/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826	0B		Analyst: LDS
2-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
4-Chlorotoluene	υ	5.0	μg/Kg	1 .	3/23/2004 1:40:00 PM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Acetone	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Acrolein	U	25	μg/Kg	1	3/23/2004 1:40:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Benzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Bromochloromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Bromodichloromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Bromoform	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Bromomethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Carbon disulfide	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Carbon tetrachloride	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Chlorobenzene	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Chloroethane	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Chloroform	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Diisopropyl ether	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Ethanol	υ	25	μg/Kg	1	3/23/2004 1:40:00 PM
Ethyl acetate	υ	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Ethylbenzene	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Freon-114	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Hexachlorobutadiene	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Isopropyl acetate	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Isopropylbenzene	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
m,p-Xylene	Ū	10	μg/Kg	1	3/23/2004 1:40:00 PM
Methyl tert-butyl ether	Ü	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Methylene chloride	Ü	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Naphthalene	Ü	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
n-Butyl acetate	Ü	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
n-Butylbenzene	Ū	5.0	μg/Kg	1	3/23/2004 1:40:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Client Sample ID: MW-3 [10'-12']

Lab Order:

0403170

Tag Number: 1204

Project:

River Plaza Tarrytown, N.Y.

Collection Date: 3/16/2004

Lab ID:

0403170-02A

Matrix: SOIL

Analyses	Result	Limit Qı	ıal Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	B ·		Analyst: LDS
n-Propyl acetate	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Styrene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Tetrachloroethene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Toluene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
trans-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
trans-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Trichloroethene	U	5.0	μg/Kg	1 .	3/23/2004 1:40:00 PM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Vinyl acetate	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/23/2004 1:40:00 PM

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-03A

Client Sample ID: MW-2 [8'-10']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit Qu	ıal Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS	)	SW8270	D (SW3	550A)	Analyst: RN
Acenaphthene	Ú	40	μg/Kg	1	3/24/2004 1:32:00 AM
Anthracene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Benzo(a)anthracene	98	40	μg/Kg	1	3/24/2004 1:32:00 AM
Benzo(a)pyrene	120	40	μg/Kg	1	3/24/2004 1:32:00 AM
Benzo(b)fluoranthene	140	40	μg/Kg	1	3/24/2004 1:32:00 AM
Benzo(g,h,i)perylene	81	40	μg/Kg	1	3/24/2004 1:32:00 AM
Benzo(k)fluoranthene	58	40	μg/Kg	1	3/24/2004 1:32:00 AM
Chrysene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Dibenzo(a,h)anthracene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Fluoranthene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Fluorene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Indeno(1,2,3-c,d)pyrene	79	40	μg/Kg	1	3/24/2004 1:32:00 AM
Phenanthrene	U	40	μg/Kg	1	3/24/2004 1:32:00 AM
Pyrene	110	40	μg/Kg	1	3/24/2004 1:32:00 AM
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1,1-Trichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1,2-Trichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,1-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2,4-Trimethylbenzene	Ū	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2-Dibromoethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,2-Dichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1 ·	3/23/2004 2:19:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
2-Butanone	U	5.0	μg/Kg	1.	3/23/2004 2:19:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-03A

Client Sample ID: MW-2 [8'-10']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
OLATILES SW-846 METHOD 8260		SW826	)B		Analyst: LDS
2-Chlorotoluene	U	5.0	µg/Kg	1	3/23/2004 2:19:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
4-Isopropyltoluene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
4-Methyl-2-pentanone	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Acetone	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Acrolein	U	25	μg/Kg	1	3/23/2004 2:19:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Benzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Bromochloromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Bromodichloromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Bromoform	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Bromomethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Carbon disulfide	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Carbon tetrachloride	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Chlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Chloroform	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Diisopropyl ether	υ	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Ethanol	U	25	μg/Kg	1	3/23/2004 2:19:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Freon-114	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Isopropyl acetate	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Isopropylbenzene	Ŭ	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
m,p-Xylene	Ü	10	μg/Kg	1	3/23/2004 2:19:00 PM
Methyl tert-butyl ether	Ŭ	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Methylene chloride	Ü	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Naphthalene	Ŭ	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
n-Butyl acetate	Ü	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-03A

Client Sample ID: MW-2 [8'-10']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit Ç	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826	60B		Analyst: LDS
n-Propyl acetate	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Styrene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Tetrachloroethene	1	5.0	J μg/Kg	1	3/23/2004 2:19:00 PM
Toluene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
trans-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
trans-1,3-Dichloropropene	U	5.0	μg/Kg	· 1	3/23/2004 2:19:00 PM
Trichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Vinyl acetate	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/23/2004 2:19:00 PM

R - RPD outside accepted recovery limits

E - Value above quantitation range

CLIENT: J.R. Holzmacher P.E. LLC

J.K. HOIZHACHELL L.E. LL

**Lab Order:** 0403170

Project: River Plaza Tarrytown, N.Y.

Lab ID:

0403170-04A

**Date:** 26-Mar-04

Client Sample ID: MW-4 [4'-6']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS)		SW82	70D (SW	3550A)	Analyst: RN
Acenaphthene	U	40	μg/Kg	1	3/24/2004 2:07:00 AM
Anthracene	530	40	μg/Kg	1	3/24/2004 2:07:00 AM
Benzo(a)anthracene	2900	400	μg/Kg	10	3/26/2004 1:47:00 PM
Benzo(a)pyrene	2600	40	μg/Kg	1	3/24/2004 2:07:00 AM
Benzo(b)fluoranthene	2600	40	μg/Kg	1	3/24/2004 2:07:00 AM
Benzo(g,h,i)perylene	1800	40	μg/Kg	1	3/24/2004 2:07:00 AM
Benzo(k)fluoranthene	980	40	μg/Kg	1	3/24/2004 2:07:00 AM
Chrysene	3200	400	μg/Kg	10	3/26/2004 1:47:00 PM
Dibenzo(a,h)anthracene	500	40	μg/Kg	1	3/24/2004 2:07:00 AM
Fluoranthene	5400	400	μg/Kg	10	3/26/2004 1:47:00 PM
Fluorene	U	40	μg/Kg	1	3/24/2004 2:07:00 AM
Indeno(1,2,3-c,d)pyrene	1700	40	μg/Kg	1	3/24/2004 2:07:00 AM
Phenanthrene	1100	40	μg/Kg	1	3/24/2004 2:07:00 AM
Pyrene	4000	400	µg/Kg	10	3/26/2004 1:47:00 PM
OLATILES SW-846 METHOD 8260		SW82	60B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1,1-Trichloroethane	U .	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1,2,2-Tetrachloroethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1,2-Trichloroethane	U	5.0	µg/Кg	1	3/23/2004 2:58:00 PM
1,1-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,1-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2,3-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2,3-Trichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2,4,5-Tetramethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2,4-Trichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2,4-Trimethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2-Dibromo-3-chloropropane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2-Dibromoethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2-Dichloroethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,2-Dichloropropane	, n	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,3,5-Trimethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,3-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,3-dichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
1,4-Dichlorobenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
2,2-Dichloropropane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
2-Butanone	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
2-Chloroethyl vinyl ether	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-04A

Client Sample ID: MW-4 [4'-6']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit	Qual Unit	ts DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8	260B		Analyst: LDS
2-Chlorotoluene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
2-Hexanone	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
4-Chlorotoluene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
4-Isopropyltoluene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
4-Methyl-2-pentanone	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Acetone	U ·	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Acrolein	U	25	μg/K	g 1	3/23/2004 2:58:00 PM
Acrylonitrile	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Benzene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Bromobenzene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Bromochloromethane	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Bromodichloromethane	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Bromoform	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Bromomethane	U	5.0	μg/K		3/23/2004 2:58:00 PM
Carbon disulfide	U	5.0	μg/K		3/23/2004 2:58:00 PM
Carbon tetrachloride	U	5.0	μg/K		3/23/2004 2:58:00 PM
Chlorobenzene	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Chlorodifluoromethane	U	5.0	μg/K	g 1	3/23/2004 2:58:00 PM
Chloroethane	U	5.0	μg/K		3/23/2004 2:58:00 PM
Chloroform	U	5.0	μg/K		3/23/2004 2:58:00 PM
Chloromethane	. U	5.0	μg/K		3/23/2004 2:58:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/K		3/23/2004 2:58:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/K		3/23/2004 2:58:00 PM
Dibromochloromethane	U	5.0	μg/K		3/23/2004 2:58:00 PM
Dibromomethane	U	5.0	μg/K		3/23/2004 2:58:00 PM
Dichlorodifluoromethane	Ū	5.0	μg/K		3/23/2004 2:58:00 PM
Diisopropyl ether	Ū	5.0	μg/K		3/23/2004 2:58:00 PM
Ethanol	U	25	μg/K		3/23/2004 2:58:00 PM
Ethyl acetate	Ū.	5.0	μg/K		3/23/2004 2:58:00 PM
Ethylbenzene	Ū	5.0	μg/K		3/23/2004 2:58:00 PM
Freon-114	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
Hexachlorobutadiene	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
Isopropyl acetate	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
Isopropylbenzene	U	5.0	μg/K		3/23/2004 2:58:00 PM
m,p-Xylene	Ü	10	μg/K		3/23/2004 2:58:00 PM
Methyl tert-butyl ether	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
Methylene chloride	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
Naphthalene	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
n-Butyl acetate	Ü	5.0	μg/K		3/23/2004 2:58:00 PM
n-Butylbenzene	U	5.0	μg/K		3/23/2004 2:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-04A

Client Sample ID: MW-4 [4'-6']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit Qua	l Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260B		Analyst: LDS	
n-Propyl acetate	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
n-Propylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Styrene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Tetrachloroethene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Toluene	U	5.0	µg/Кg	1	3/23/2004 2:58:00 PM
trans-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
trans-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Trichloroethene	U	5.0	µg/Кg	1	3/23/2004 2:58:00 PM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Vinyl acetate	U .	5.0	μg/Kg	1	3/23/2004 2:58:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/23/2004 2:58:00 PM

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

R - RPD outside accepted recovery limits

Date: 26-Mar-04

CLIENT: Lab Order: J.R. Holzmacher P.E. LLC

0403170

Project: Ri

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-05A

Client Sample ID: MW-4 [10'-12']

Tag Number: 1204 Collection Date: 3/17/2004

Matrix: SOIL

Acenaphthene         U         40         µg/Kg         1         3/24/2004 2:41:00           Anthracene         U         40         µg/Kg         1         3/24/2004 2:41:00           Benzo(a)anthracene         U         40         µg/Kg         1         3/24/2004 2:41:00           Benzo(b)fluoranthene         U         40         µg/Kg         1         3/24/2004 2:41:00           Benzo(b)fluoranthene         U         40         µg/Kg         1         3/24/2004 2:41:00           Benzo(k)fluoranthene         U         40         µg/Kg         1         3/24/2004 2:41:00           Chrysene         U         40         µg/Kg         1         3/24/2004 2:41:00           Chrysene         U         40         µg/Kg         1         3/24/2004 2:41:00           Pluoranthene         10         40         µg/Kg         1         3/24/2004 2:41:00           Fluoranthene         10         40         µg/Kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         µg/Kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         µg/Kg         1         3/24/2004 2:41:00           Pyrene <th>alyses</th> <th>Result</th> <th>Limit</th> <th>Qual Units</th> <th>DF</th> <th>Date Analyzed</th>	alyses	Result	Limit	Qual Units	DF	Date Analyzed
Acenaphthene	/IIVOLATILES SW-846 8270(STARS	3)	SW82	270D (	SW3550A)	Ánalyst: RN
Benzo(a)anthracene	enaphthene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Benzo(a)pyrene U 40 µg/Kg 1 3/24/2004 2:41:00 Benzo(b)fluoranthene U 40 µg/Kg 1 3/24/2004 2:41:00 Benzo(g),hi)perylene U 40 µg/Kg 1 3/24/2004 2:41:00 Benzo(k)fluoranthene U 40 µg/Kg 1 3/24/2004 2:41:00 Chrysene U 40 µg/Kg 1 3/24/2004 2:41:00 Chrysene U 40 µg/Kg 1 3/24/2004 2:41:00 Dibenzo(a,h)anthracene U 40 µg/Kg 1 3/24/2004 2:41:00 Dibenzo(a,h)anthracene U 40 µg/Kg 1 3/24/2004 2:41:00 Fluoranthene 120 40 µg/Kg 1 3/24/2004 2:41:00 Fluorene U 40 µg/Kg 1 3/24/2004 2:41:00 Fluorene U 40 µg/Kg 1 3/24/2004 2:41:00 Fluorene U 40 µg/Kg 1 3/24/2004 2:41:00 Phenanthrene U 40 µg/Kg 1 3/24/2004 2:41:00 Phenanthrene U 40 µg/Kg 1 3/24/2004 2:41:00 Pyrene 92 40 µg/Kg 1 3/24/2004 2:41:00 Pyrene U 50 µg/Kg 1 3/24/2004 2:41:00  VOLATILES SW-846 METHOD 8260 SW8260B 1,1,1,2-Tetrachloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1,1,2-Ticthoroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1,2,2-Tetrachloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1,2-Trichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1,2-Trichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1-Dichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1-Dichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1-Dichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,1-Dichloropropene U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,2-3-Trichloropropene U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,2,3-Trichloropropene U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,2,4-Trichloropropene U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,2-Diblorome-3-chloropropene U 5.0 µg/Kg 1 3/23/2004 3:36:00 1,2-Dibloroperopene U 5.0 µg/Kg 1 3/23/2004 3:36:00	thracene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Benzo(b)fluoranthene   U   40   μg/kg   1   3/24/2004 2:41:00	nzo(a)anthracene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Benzo(g,h,i)perylene         U         40         μg/kg         1         3/24/2004 2:41:00           Benzo(k)fluoranthene         U         40         μg/kg         1         3/24/2004 2:41:00           Chrysene         U         40         μg/kg         1         3/24/2004 2:41:00           Dibenzo(a,h)anthracene         U         40         μg/kg         1         3/24/2004 2:41:00           Fluoranthene         120         40         μg/kg         1         3/24/2004 2:41:00           Fluorene         U         40         μg/kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         μg/kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         μg/kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Mg/kg         1         3/23/2004 3:36:00           1,1,1-2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00	nzo(a)pyrene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Benzo(k)fluoranthene         U         40         µg/kg         1         3/24/2004 2:41:00           Chrysene         U         40         µg/kg         1         3/24/2004 2:41:00           Dibenzo(a,h)anthracene         U         40         µg/kg         1         3/24/2004 2:41:00           Fluoranthene         120         40         µg/kg         1         3/24/2004 2:41:00           Fluorene         U         40         µg/kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         µg/kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         µg/kg         1         3/24/2004 2:41:00           Pyrene         92         40         µg/kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         ************************************	nzo(b)fluoranthene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Chrysene         U         40         µg/Kg         1         3/24/2004 2:41:00           Dibenzo(a,h)anthracene         U         40         µg/Kg         1         3/24/2004 2:41:00           Fluoranthene         120         40         µg/Kg         1         3/24/2004 2:41:00           Fluorene         U         40         µg/Kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         µg/Kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         µg/Kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         µg/Kg         1         3/24/2004 2:41:00           Pyrene         92         40         µg/Kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst:         1         3/23/2004 3:36:00           1,1,1-2-Tetrachloroethane         U         5.0         µg/Kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         µg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         µg/Kg         1         3/23/2004 3:36:00	nzo(g,h,i)perylene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Dibenzo(a,h)anthracene         U         40         μg/Kg         1         3/24/2004 2:41:00           Fluoranthene         120         40         μg/Kg         1         3/24/2004 2:41:00           Fluorene         U         40         μg/Kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         μg/Kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         μg/Kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/Kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/Kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Thanking         Analyst:           1,1,1-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane	nzo(k)fluoranthene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Fluoranthene         120         40         μg/kg         1         3/24/2004 2:41:00           Fluorene         U         40         μg/kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         μg/kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         μg/kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         SW8260B         Analyst:           1,1,1-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1-	rysene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Fluorene         U         40         μg/kg         1         3/24/2004 2:41:00           Indeno(1,2,3-c,d)pyrene         41         40         μg/kg         1         3/24/2004 2:41:00           Phenanthrene         U         40         μg/kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst:           1,1,1,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,1,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2,2-Trichloro-1,2,2-trifluoroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,1-Dichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00	penzo(a,h)anthracene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
Indeno(1,2,3-c,d)pyrene	ıoranthene	120	40	μg/Kg	1	3/24/2004 2:41:00 AM
Phenanthrene         U         40         μg/Kg         1         3/24/2004 2:41:00           Pyrene         92         40         μg/Kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst:           1,1,1,2-Tetrachloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloropropene         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,2,3-Trichlo	iorene	U.	40	μg/Kg	1	3/24/2004 2:41:00 AM
Pyrene         92         40         μg/kg         1         3/24/2004 2:41:00           VOLATILES SW-846 METHOD 8260         SW8260B         Analyst:           1,1,1,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Tetrachloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,1-Dichloropropene         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,2,3-Trichloropropane         U         5.0         μg/kg         1         3/23/2004 3:36:00           1,2,4,5-Tetramethylbenzene         U         5.0         μg/kg         1         3/23/2004 3:36:00	leno(1,2,3-c,d)pyrene	41	40	μg/Kg	1	3/24/2004 2:41:00 AM
VOLATILES SW-846 METHOD 8260         SW8260B         Analyst:           1,1,1,2-Tetrachloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,1-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Tetrachloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloro-1,2,2-trifluoroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1,2-Trichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroethane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,1-Dichloroptopene         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,2,3-Trichloropropane         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,2,4,5-Tetramethylbenzene         U         5.0         μg/Kg         1         3/23/2004 3:36:00           1,2,4-Trimethylbenzene         U         5.0         μg/Kg         1         3/23/2004 3	enanthrene	U	40	μg/Kg	1	3/24/2004 2:41:00 AM
1,1,1,2-Tetrachloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,1-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,2-Tetrachloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U	rene	92	. 40	μg/Kg	1	3/24/2004 2:41:00 AM
1,1,1-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1,2,2-Tetrachloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloro-1,2,2-trifluoroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropthane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U<	ATILES SW-846 METHOD 8260		SW82	260B		Analyst: LDS
1,1,2,2-Tetrachloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloro-1,2,2-trifluoroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U	,1,2-Tetrachloroethane	. U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1,2-Trichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       µg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       <	,1-Trichloroethane	, U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,1,2-Trichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0 <td>,2,2-Tetrachloroethane</td> <td>Ü</td> <td>5.0</td> <td>μg/Kg</td> <td>1</td> <td>3/23/2004 3:36:00 PM</td>	,2,2-Tetrachloroethane	Ü	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,1-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloroethene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,2-Trichloro-1,2,2-trifluoroethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,1-Dichloroethene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,1-Dichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,2-Trichloroethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,1-Dichloropropene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	-Dichloroethane	U	5.0	µg/Кg	1	3/23/2004 3:36:00 PM
1,2,3-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	-Dichloroethene	U	5.0	μg/Kg	. 1	3/23/2004 3:36:00 PM
1,2,3-Trichloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,2,4,5-Tetramethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,3-Trichlorobenzene	U	5.0	µg/Кg	1	3/23/2004 3:36:00 PM
1,2,4-Trichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,3-Tnchloropropane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,4,5-Tetramethylbenzene	U .	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
1,2,4-Trimethylbenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,4-Trichlorobenzene	U	5.0		1	3/23/2004 3:36:00 PM
1,2-Dibromo-3-chloropropane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	,4-Trimethylbenzene	U	5.0		1	3/23/2004 3:36:00 PM
1,2-Dibromoethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichlorobenzene       U       5.0       μg/Kg       1       3/23/2004 3:36:00         1,2-Dichloroethane       U       5.0       μg/Kg       1       3/23/2004 3:36:00	-Dibromo-3-chloropropane	U	5.0		1	3/23/2004 3:36:00 PM
1,2-Dichlorobenzene U 5.0 $\mu g/Kg$ 1 3/23/2004 3:36:00 1,2-Dichloroethane U 5.0 $\mu g/Kg$ 1 3/23/2004 3:36:00	-Dibromoethane	U	5.0		1	3/23/2004 3:36:00 PM
1,2-Dichloroethane U 5.0 µg/Kg 1 3/23/2004 3:36:00	-Dichlorobenzene	U	5.0		1	3/23/2004 3:36:00 PM
	-Dichloroethane	U	5.0		1	3/23/2004 3:36:00 PM
1,2-Dichloropropane U 5.0 µg/Kg 1 3/23/2004 3:36:00	-Dichloropropane	· U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
		U	5.0		1	3/23/2004 3:36:00 PM
					1	3/23/2004 3:36:00 PM
	-dichloropropane	U			1	3/23/2004 3:36:00 PM
· · ·					1	3/23/2004 3:36:00 PM
· · · ·	-Dichloropropane	U			1	3/23/2004 3:36:00 PM
	utanone	U			1	3/23/2004 3:36:00 PM
	hloroethyl vinyl ether					3/23/2004 3:36:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

J.R. Holzmacher P.E. LLC

**Lab Order:** 0403170

CLIENT:

Project: River Plaza Tarrytown, N.Y.

**Lab ID:** 0403170-05A

Date: 26-Mar-04

Client Sample ID: MW-4 [10'-12']

Tag Number: 1204
Collection Date: 3/17/2004
Matrix: SOIL

Analyses	Result	Limit (	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	60B		Analyst: LDS
2-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
2-Hexanone	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
4-Chlorotoluene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
4-Isopropyltoluene	Ņ	5.0	µg/Кg	1	3/23/2004 3:36:00 PM
4-Methyl-2-pentanone	U	5.0	µg/Кg	1	3/23/2004 3:36:00 PM
Acetone	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Acrolein	U	25	μg/Kg	1	3/23/2004 3:36:00 PM
Acrylonitrile	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Benzene .	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Bromobenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Bromochloromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Bromodichloromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Bromoform	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Bromomethane	U.	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Carbon disulfide	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Carbon tetrachloride	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Chlorobenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Chlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Chloroethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Chloroform	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Chloromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
cis-1,2-Dichloroethene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
cis-1,3-Dichloropropene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Dibromochloromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Dibromomethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Dichlorodifluoromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Diisopropyl ether	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Ethanol	U	25	μg/Kg	1	3/23/2004 3:36:00 PM
Ethyl acetate	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Ethylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Freon-114	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Hexachlorobutadiene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Isopropyl acetate	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Isopropylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
m,p-Xylene	U	10	μg/Kg	1	3/23/2004 3:36:00 PM
Methyl tert-butyl ether	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Methylene chloride	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Naphthalene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
n-Butyl acetate	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
n-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

**Date:** 26-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403170

**Project:** 

River Plaza Tarrytown, N.Y.

Lab ID:

0403170-05A

Client Sample ID: MW-4 [10'-12']

Tag Number: 1204

Collection Date: 3/17/2004

Matrix: SOIL

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
n-Propyl acetate	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
n-Propylbenzene	U .	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
o-Xylene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
p-Diethylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
p-Ethyltoluene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
sec-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Styrene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
t-Butyl alcohol	U	5.0	μg/Kg	• 1	3/23/2004 3:36:00 PM
tert-Butylbenzene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Tetrachloroethene	υ	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Toluene	υ	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
trans-1,2-Dichloroethene	υ	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
trans-1,3-Dichloropropene	υ	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Trichloroethene	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Trichlorofluoromethane	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Vinyl acetate	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM
Vinyl chloride	U	5.0	μg/Kg	1	3/23/2004 3:36:00 PM

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

March 29, 2004

Keith Butler
J.R. Holzmacher P.E. LLC
300 Wheeler Road
Suite 303

Hauppauge, NY 11788

TEL: (631) 234-2220 FAX (631) 234-2221

RE: River Plaza Tarrytown, N.Y.

Dear Keith Butler:

Order No.: 0403195

American Analytical Laboratories, LLC. received 4 samples on 3/22/2004 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lori Beyer

Lab Director

Date: 29-Mar-04

CLIENT: J.R. Holzmacher P.E. LLC

Project: River Plaza Tarrytown, N.Y.

**Lab Order:** 0403195

	Work	Order	Sample	Summary
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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0403195-01A	MW-1	1205	3/22/2004	3/22/2004
0403195-01B	MW-1	1205	3/22/2004	3/22/2004
0403195-02A	MW-2	1205	3/22/2004	3/22/2004
0403195-02B	MW-2	1205	3/22/2004	3/22/2004
0403195-03A	MW-3	1205	3/22/2004	3/22/2004
0403195-03B	MW-3	1205	3/22/2004	3/22/2004
0403195-04A	MW-4	1205	3/22/2004	3/22/2004
0403195-04B	MW-4	1205	3/22/2004	3/22/2004

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 (631) 454-6100 • FAX (631) 454-8027

TAG # / COC 1205

1205 CTDC NJDE

NYSDOH 11418 CTDOH PH-0205 NJDEP NY050 PADEP 68-573

H <sub>2</sub>	<b>CHAIN OF CUSTODY</b>	CUSTC	1 -	QUEST	/ REQUEST FOR ANALYSIS DOCUMENT	S DOCU	IMENT	
CLIENT NAME/ADDRESS  CON  CLIENT NAME/ADDRESS	Portice !	CONTA	CONTACT: 1. BYLE		SAMPLER (SIGNATURE)	Mar	SAMPLE(S) SEALED	YES / NO
Hungary J	7/10 JUNES	) } }			SAMPLER NAME (PRINT)  LEITH OLDS		CORRECT CONTAINER(S)	YES / NO
PROJECT LOCATION:  A. A	Agas, Torrytum, N	my for	j-ν/~		00			For
LABORATORY ID #	MATRIX # CON- S/	SAMPLING DATE/ TIME	SAMPLE # - LOCATION	OCATION	\$ 500 D		ME	METHANOL PRESERVED SAMPLES [ VOLATILE VIAL # ]
CHO3195-018 CW	3 3/22/04	24	14W-1	105	メメ			
0403195-024 QJ	3		12-CM	1135	. <del>'</del>			
0403195-03A GW	3		Mar-3	507	ナメ			
0403195- SAB GW	ئ پ		MW-4	1045	ナソ			
	,							
						COOLER 1	COOLER TEMPERATURE:	
MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A-AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL	-SLUDGE; A-AIR; W=	WIPE; P=PAINT	CHIPS; B=BULK MATI		TURNAROUND REQUIRED:	COMMENTS / INST	IS / INSTRUCTIONS	
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON	re, ss:	POON		NORMAL C	ALC STAT BY /	- 82kg-	1	
RELINQUISHED BY (SIGNATURE)		72/CL PRINTE	PRINTED NAME	RECE	RECEIVED BY LAB (SIGNATURE)	DATE 03-72-04	PRINTED NAME	
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RELINQUISHED BY (SIGNATURE)		PRINTE	PRINTED NAME	RECE	RECEIVED BY LAB (SIGNATURE)	DATE	PRINTED NAME	
	TIME					TIME		

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

## AMERICAN ANALYTICAL LABORATORIES, LLC

#### 56 TOLEDO STREET

FARMINGDALE, NEW YORK 11735

TELEPHONE: (631) 454-6100 FAX: (631) 454-8027

#### **DATA REPORTING QUALIFIERS**

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
<b>J</b>	<ul> <li>Indicates an estimated value. The flag is used: <ul> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.</li> </ul> </li></ul>
В	Indicates the analyte was found in the blank as well as the sample report "10B".
E	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
<b>N</b>	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

Indicates sample was received and/or analyzed outside of The method allowable holding time

Н

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-01A

Client Sample ID: MW-1

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	:60B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1,1-Trichloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1,2-Trichloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1-Dichloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1-Dichloroethene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,1-Dichloropropene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2,3-Trichloropropane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2,4,5-Tetramethylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2,4-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2-Dibromoethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2-Dichloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,3,5-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,3-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,3-dichloropropane	U ·	1.0	μg/L	1	3/25/2004 2:33:00 PM
1,4-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
2,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
2-Butanone	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
2-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
2-Hexanone	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
4-Chlorotoluene	. U	1.0	μg/L	1 .	3/25/2004 2:33:00 PM
4-Isopropyltoluene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
4-Methyl-2-pentanone	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Acetone	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Acrolein	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Acrylonitrile	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Benzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Bromobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Bromochloromethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Bromodichloromethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Bromoform	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Bromomethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Carbon disulfide	U	1.0	μg/L	.1	3/25/2004 2:33:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-01A

Client Sample ID: MW-1

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Carbon tetrachloride	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Chlorobenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Chlorodifluoromethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Chloroethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Chloroform	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Chloromethane	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
cis-1,2-Dichloroethene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
cis-1,3-Dichloropropene	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
Dibromochloromethane	υ ·	1.0	μg/L	1	3/25/2004 2:33:00 PM
Dibromomethane	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
Dichlorodifluoromethane	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
Diisopropyl ether	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Ethanol	U	1:0	μg/L	1	3/25/2004 2:33:00 PM
Ethyl acetate	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Ethylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Freon-114	υ	1.0	μg/L	1,	3/25/2004 2:33:00 PM
Hexachlorobutadiene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Isopropyl acetate	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Isopropylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
m,p-Xylene	U	2.0	μg/L	1	3/25/2004 2:33:00 PM
Methyl tert-butyl ether	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Methylene chloride	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Naphthalene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
n-Butyl acetate	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
n-Butylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
n-Propyl acetate	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
n-Propylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
o-Xylene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
p-Diethylbenzene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
p-Ethyltoluene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
sec-Butylbenzene	U.	1.0	μg/L	1	3/25/2004 2:33:00 PM
Styrene	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
t-Butyl alcohol	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
tert-Butylbenzene	υ	1.0	μg/L	1	3/25/2004 2:33:00 PM
Tetrachloroethene	Ū	1.0	μg/L	1	3/25/2004 2:33:00 PM
Toluene	Ü	1.0	μg/L	1	3/25/2004 2:33:00 PM
trans-1,2-Dichloroethene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
trans-1,3-Dichloropropene	Ū	1.0	μg/L	1	3/25/2004 2:33:00 PM
Trichloroethene	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Trichlorofluoromethane	Ū	1.0	μg/L	1	3/25/2004 2:33:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-01A

Client Sample ID: MW-1

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В .		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	3/25/2004 2:33:00 PM
Vinyl chloride	5.1	1.0	μg/L	1	3/25/2004 2:33:00 PM

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-01B

Client Sample ID: MW-1

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS)		SW8270D	(SW3510)		Analyst: RN
Acenaphthene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Anthracene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Benzo(a)anthracene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Benzo(a)pyrene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Benzo(b)fluoranthene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Benzo(g,h,i)perylene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Benzo(k)fluoranthene	U·	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Chrysene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Dibenzo(a,h)anthracene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Fluoranthene	บ	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Fluorene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Indeno(1,2,3-c,d)pyrene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Phenanthrene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM
Pyrene	U	5.2	μg/L	1.05	3/26/2004 1:53:00 AM

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-02A

Client Sample ID: MW-2

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit Q	ial Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1,1-Trichloroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1,2-Trichloroethane	U	1.0	µg/L	1	3/25/2004 3:15:00 PM
1,1-Dichloroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1-Dichloroethene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,1-Dichloropropene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2,3-Trichloropropane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2,4,5-Tetramethylbenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2,4-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2-Dibromoethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2-Dichloroethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,2-Dichloropropane	U ·	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,3,5-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,3-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,3-dichloropropane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
1,4-Dichlorobenzene	U	. 1.0	μg/L	1	3/25/2004 3:15:00 PM
2,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
2-Butanone	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
2-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
2-Hexanone	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
4-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
4-Isopropyltoluene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
4-Methyl-2-pentanone	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Acetone	. <b>U</b>	1.0	μg/L	1	3/25/2004 3:15:00 PM
Acrolein	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Acrylonitrile	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Benzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Bromobenzene	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Bromochloromethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Bromodichloromethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Bromoform	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Bromomethane	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Carbon disulfide	U	1.0	μg/L	1	3/25/2004 3:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-02A

Client Sample ID: MW-2

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8	260B			Analyst: LDS
Carbon tetrachloride	U	1.0		μg/L	· 1	3/25/2004 3:15:00 PM
Chlorobenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Chlorodifluoromethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Chloroethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Chloroform	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Chloromethane	U .	1.0		μg/L	1	3/25/2004 3:15:00 PM
cis-1,2-Dichloroethene	4.7	1.0		μg/L	1	3/25/2004 3:15:00 PM
cis-1,3-Dichloropropene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Dibromochloromethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Dibromomethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Dichlorodifluoromethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Diisopropyl ether	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Ethanol	U	1.0		μg/L	1 -	3/25/2004 3:15:00 PM
Ethyl acetate	U	1.0		μg/L	· 1	3/25/2004 3:15:00 PM
Ethylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Freon-114	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Hexachlorobutadiene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Isopropyl acetate	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Isopropylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
m,p-Xylene	U	2.0		μg/L	1	3/25/2004 3:15:00 PM
Methyl tert-butyl ether	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Methylene chloride	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Naphthalene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
n-Butyl acetate	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
n-Butylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
n-Propyl acetate	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
n-Propylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
o-Xylene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
p-Diethylbenzene	U ·	1.0		μg/L	1	3/25/2004 3:15:00 PM
p-Ethyltoluene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
sec-Butylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Styrene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
t-Butyl alcohol	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
tert-Butylbenzene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Tetrachloroethene	0.8	1.0		μg/L	1	3/25/2004 3:15:00 PM
Toluene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
trans-1,2-Dichloroethene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
trans-1,3-Dichloropropene	Ü	1.0		μg/L	1	3/25/2004 3:15:00 PM
Trichloroethene	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
Trichlorofluoromethane	U	1.0		μg/L	1	3/25/2004 3:15:00 PM
	_		,	J	·	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-02A

Client Sample ID: MW-2

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qı	ıal Ünits	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260	SW8260B				Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	3/25/2004 3:15:00 PM
Vinyl chloride	7.8	1.0	μg/L	1	3/25/2004 3:15:00 PM

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-02B

Client Sample ID: MW-2

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS)		SW8270D	(SW3510)		Analyst: RN
Acenaphthene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Anthracene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Benzo(a)anthracene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Benzo(a)pyrene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Benzo(b)fluoranthene	U ·	5.2	µg/L	1.05	3/26/2004 2:27:00 AM
Benzo(g,h,i)perylene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Benzo(k)fluoranthene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Chrysene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Dibenzo(a,h)anthracene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Fluoranthene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Fluorene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Indeno(1,2,3-c,d)pyrene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Phenanthrene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM
Pyrene	U	5.2	μg/L	1.05	3/26/2004 2:27:00 AM

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

**Project:** 

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-03A

Client Sample ID: MW-3

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	60B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1,1-Trichloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1,2-Trichloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1-Dichloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1-Dichloroethene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,1-Dichloropropene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2,3-Trichloropropane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2,4,5-Tetramethylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2,4-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2-Dibromoethane	U ·	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2-Dichloroethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,3,5-Trimethylbenzene	U	1.0	μg/L ·	1	3/25/2004 3:56:00 PM
1,3-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,3-dichloropropane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
1,4-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
2,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
2-Butanone	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
2-Chloroethyl vinyl ether	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
2-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
2-Hexanone	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
4-Chlorotoluene	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
4-Isopropyltoluene	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
4-Methyl-2-pentanone	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Acetone	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Acrolein	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Acrylonitrile	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Benzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Bromobenzene	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Bromochloromethane	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Bromodichloromethane	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Bromoform	Ü .	1.0	μg/L	1	3/25/2004 3:56:00 PM
Bromomethane	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Carbon disulfide	U	1.0	μg/L	1	3/25/2004 3:56:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-03A

Client Sample ID: MW-3

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8	260B		Analyst: LDS
Carbon tetrachloride	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Chlorobenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Chlorodifluoromethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Chloroethane	U ,	1.0	μg/L	1	3/25/2004 3:56:00 PM
Chloroform	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Chloromethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
cis-1,2-Dichloroethene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
cis-1,3-Dichloropropene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Dibromochloromethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Dibromomethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Dichlorodifluoromethane	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Diisopropyl ether	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Ethanol	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Ethyl acetate	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Ethylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Freon-114	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Hexachlorobutadiene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Isopropyl acetate	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Isopropylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
m,p-Xylene	U	2.0	μg/L	1	3/25/2004 3:56:00 PM
Methyl tert-butyl ether	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Methylene chloride	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Naphthalene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
n-Butyl acetate	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
n-Butylbenzene	U ·	1.0	μg/L	1	3/25/2004 3:56:00 PM
n-Propyl acetate	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
n-Propylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
o-Xylene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
p-Diethylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
p-Ethyltoluene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
sec-Butylbenzene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Styrene	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
t-Butyl alcohol	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
tert-Butylbenzene	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
Tetrachloroethene	5.4	1.0	μg/L	1	3/25/2004 3:56:00 PM
Toluene	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
trans-1,2-Dichloroethene	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
trans-1,3-Dichloropropene	Ū	1.0	μg/L	1	3/25/2004 3:56:00 PM
Trichloroethene	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM
Trichlorofluoromethane	Ü	1.0	μg/L	1	3/25/2004 3:56:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-03A

Client Sample ID: MW-3

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	3		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	3/25/2004 3:56:00 PM
Vinyl chloride	11	1.0	μg/Ĺ	1	3/25/2004 3:56:00 PM

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-03B

Client Sample ID: MW-3

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qual	Units	DF	Date Analyzed	
SEMIVOLATILES SW-846 8270(STARS)		SW8270D (SW3510			Analyst: RN	
Acenaphthene	8.1	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Anthracene	U .	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Benzo(a)anthracene	. U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Benzo(a)pyrene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Benzo(b)fluoranthene	· U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Benzo(g,h,i)perylene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Benzo(k)fluoranthene	U	5.2	µg/L	1.05	3/26/2004 3:02:00 AM	
Chrysene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Dibenzo(a,h)anthracene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Fluoranthene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Fluorene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Indeno(1,2,3-c,d)pyrene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Phenanthrene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	
Pyrene	U	5.2	μg/L	1.05	3/26/2004 3:02:00 AM	

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-04A

Client Sample ID: MW-4

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	60B		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1,1-Trichloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1,2-Trichloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1-Dichloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1-Dichloroethene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,1-Dichloropropene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	3/25/2004 4;45:00 PM
1,2,3-Trichloropropane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2,4,5-Tetramethylbenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2,4-Trichlorobenzene	U .	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2-Dibromoethane	U	1.0	. μg/L	1	3/25/2004 4:45:00 PM
1,2-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2-Dichloroethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,3,5-Trimethylbenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,3-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,3-dichloropropane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
1,4-Dichlorobenzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
2,2-Dichloropropane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
2-Butanone	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
2-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
2-Hexanone	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
4-Chlorotoluene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
4-Isopropyltoluene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
4-Methyl-2-pentanone	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Acetone	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Acrolein	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Acrylonitrile	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Benzene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Bromobenzene	U ·	1.0	μg/L	1	3/25/2004 4:45:00 PM
Bromochloromethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Bromodichloromethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Bromoform	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Bromomethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Carbon disulfide	U	1.0	μg/L	1	3/25/2004 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

 ${\bf J}$  - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-04A

Client Sample ID: MW-4

Tag Number: 1205

Collection Date: 3/22/2004

Matrix: LIQUID

Carbon tetrachloride         U         1.0         µg/L         1         3/25/2004 4:45:00           Chlorobenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Chlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloroform         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Cis-1,2-Dichloroptopene         U         1.0         µg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloroptopene         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Disopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Eithanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00		Result	Limit Qu	al Units	DF	Date Analyzed
Carbon tetrachloride         U         1.0         µg/L         1         3/25/2004 4:45:00           Chlorobenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Chlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloroform         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Cis-1,2-Dichloroptopene         U         1.0         µg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloroptopene         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Disopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Eithanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00	/-846 METHOD 8260		SW8260	3		Analyst: LDS
Chlorodifluoromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Chloroethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,2-Dichloroethene         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloropropene         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethyla cetate         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         μg/L         1         3/25/2004 4:45:00 <td< td=""><td>oride</td><td>U</td><td>1.0</td><td>µg/L</td><td>1</td><td>3/25/2004 4:45:00 PM</td></td<>	oride	U	1.0	µg/L	1	3/25/2004 4:45:00 PM
Chloroethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloroform         U         1.0         µg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           cis-1,2-Dichloroethene         U         1.0         µg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloropropene         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           F		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Chloroform         U         1.0         μg/L         1         3/25/2004 4:45:00           Chloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,2-Dichloroethene         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloropropene         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Disopropyl ether         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         μg/L         1         3/25/2004 4:45:00           H	ethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Chloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,2-Dichloroethene         U         1.0         μg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloropropene         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         μg/L         1         3/25/2004 4:45:00           Ethaliane         U         1.0         μg/L         1         3/25/2004 4:45:00           E		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
cis-1,2-Dichloroethene         U         1.0         µg/L         1         3/25/2004 4:45:00           cis-1,3-Dichloropropene         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Freon-114         U         1.0         µg/L         1         3/25/2004 4:45:00           Hexachlorobutadiene         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropyl benzene         U         1.0         µg/L         1         3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
cis-1,3-Dichloropropene         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl benzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Freon-114         U         1.0         µg/L         1         3/25/2004 4:45:00           Hexachlorobutadiene         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Dibromochloromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Freon-114         U         1.0         µg/L         1         3/25/2004 4:45:00           Hexachlorobutadiene         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Methyl tert-butyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           <	ethene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Freon-114         U         1.0         µg/L         1         3/25/2004 4:45:00           Hexachlorobutadiene         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Methyl tert-butyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Methylene chloride         U         1.0         µg/L         1         3/25/2004 4:45:00 <td< td=""><td>propene</td><td>U</td><td>1.0</td><td>μg/L</td><td>1</td><td>3/25/2004 4:45:00 PM</td></td<>	propene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Dibromomethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Dichlorodifluoromethane         U         1.0         µg/L         1         3/25/2004 4:45:00           Diisopropyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethanol         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Ethylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Freon-114         U         1.0         µg/L         1         3/25/2004 4:45:00           Hexachlorobutadiene         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropyl acetate         U         1.0         µg/L         1         3/25/2004 4:45:00           Isopropylbenzene         U         1.0         µg/L         1         3/25/2004 4:45:00           Methyl tert-butyl ether         U         1.0         µg/L         1         3/25/2004 4:45:00           Methylene chloride         U         1.0         µg/L         1         3/25/2004 4:45:00 <td< td=""><td>ethane</td><td>U</td><td>1.0</td><td>μg/L</td><td>1</td><td>3/25/2004 4:45:00 PM</td></td<>	ethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Diisopropyl ether       U       1.0       μg/L       1       3/25/2004 4:45:00         Ethanol       U       1.0       μg/L       1       3/25/2004 4:45:00         Ethyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         Ethylbenzene       U       1.0       μg/L       1       3/25/2004 4:45:00         Freon-114       U       1.0       μg/L       1       3/25/2004 4:45:00         Hexachlorobutadiene       U       1.0       μg/L       1       3/25/2004 4:45:00         Isopropyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         Isopropylbenzene       U       1.0       μg/L       1       3/25/2004 4:45:00         m,p-Xylene       U       2.0       μg/L       1       3/25/2004 4:45:00         Methyl tert-butyl ether       U       1.0       μg/L       1       3/25/2004 4:45:00         Methylene chloride       U       1.0       μg/L       1       3/25/2004 4:45:00         Naphthalene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00	В	U	1.0		1	3/25/2004 4:45:00 PM
Ethanol U 1.0 µg/L 1 3/25/2004 4:45:00 Ethyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Ethylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 Freon-114 U 1.0 µg/L 1 3/25/2004 4:45:00 Hexachlorobutadiene U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 m,p-Xylene U 2.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Methylene chloride U 1.0 µg/L 1 3/25/2004 4:45:00 Naphthalene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl benzene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00	nethane	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Ethyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Ethylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 Freon-114 U 1.0 µg/L 1 3/25/2004 4:45:00 Hexachlorobutadiene U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 m,p-Xylene U 2.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Naphthalene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004	r	U	1.0	µg/L	1	3/25/2004 4:45:00 PM
Ethylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 Freon-114 U 1.0 µg/L 1 3/25/2004 4:45:00 Hexachlorobutadiene U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 m,p-Xylene U 2.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Methylene chloride U 1.0 µg/L 1 3/25/2004 4:45:00 Naphthalene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl benzene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Freon-114 U 1.0 µg/L 1 3/25/2004 4:45:00 Hexachlorobutadiene U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 Isopropylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 m,p-Xylene U 2.0 µg/L 1 3/25/2004 4:45:00 Methyl tert-butyl ether U 1.0 µg/L 1 3/25/2004 4:45:00 Methylene chloride U 1.0 µg/L 1 3/25/2004 4:45:00 Naphthalene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Hexachlorobutadiene       U       1.0       μg/L       1       3/25/2004 4:45:00         Isopropyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         Isopropylbenzene       U       1.0       μg/L       1       3/25/2004 4:45:00         m,p-Xylene       U       2.0       μg/L       1       3/25/2004 4:45:00         Methyl tert-butyl ether       U       1.0       μg/L       1       3/25/2004 4:45:00         Methylene chloride       U       1.0       μg/L       1       3/25/2004 4:45:00         Naphthalene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Sopropyl acetate		U.	1.0	µg/L	1	3/25/2004 4:45:00 PM
Isopropylbenzene	diene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Isopropylbenzene         U         1.0         μg/L         1         3/25/2004 4:45:00           m,p-Xylene         U         2.0         μg/L         1         3/25/2004 4:45:00           Methyl tert-butyl ether         U         1.0         μg/L         1         3/25/2004 4:45:00           Methylene chloride         U         1.0         μg/L         1         3/25/2004 4:45:00           Naphthalene         U         1.0         μg/L         1         3/25/2004 4:45:00           n-Butyl acetate         U         1.0         μg/L         1         3/25/2004 4:45:00           n-Propyl acetate         U         1.0         μg/L         1         3/25/2004 4:45:00           n-Propyl acetate         U         1.0         μg/L         1         3/25/2004 4:45:00	3	U	1.0	μg/L	. 1	3/25/2004 4:45:00 PM
m,p-Xylene       U       2.0       μg/L       1       3/25/2004 4:45:00         Methyl tert-butyl ether       U       1.0       μg/L       1       3/25/2004 4:45:00         Methylene chloride       U       1.0       μg/L       1       3/25/2004 4:45:00         Naphthalene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Methyl tert-butyl ether       U       1.0       μg/L       1       3/25/2004 4:45:00         Methylene chloride       U       1.0       μg/L       1       3/25/2004 4:45:00         Naphthalene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butylbenzene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00		U	2.0		1	3/25/2004 4:45:00 PM
Naphthalene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Butylbenzene       U       1.0       μg/L       1       3/25/2004 4:45:00         n-Propyl acetate       U       1.0       μg/L       1       3/25/2004 4:45:00	ether	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
n-Butyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00 n-Butylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00	de	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
n-Butylbenzene U 1.0 µg/L 1 3/25/2004 4:45:00 n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00		U .	1.0	μg/L	1	3/25/2004 4:45:00 PM
n-Propyl acetate U 1.0 µg/L 1 3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
10.00		U	1.0	μg/L	1 .	3/25/2004 4:45:00 PM
		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
n-Propylbenzene U 1.0 μg/L 1 3/25/2004 4:45:00	9	U	1.0	μg/ <b>L</b>	1	3/25/2004 4:45:00 PM
		U	1.0		1	3/25/2004 4:45:00 PM
p-Diethylbenzene U 1.0 μg/L 1 3/25/2004 4:45:00	е	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
sec-Butylbenzene U 1.0 μg/L 1 3/25/2004 4:45:00	e	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Styrene U 1.0 μg/L 1 3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
t-Butyl alcohol U 1.0 µg/L 1 3/25/2004 4:45:00		U	1.0	μg/L	1	3/25/2004 4:45:00 PM
	e	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
•		U	1.0		1	3/25/2004 4:45:00 PM
		· U	1.0		1	3/25/2004 4:45:00 PM
	oethene	U			1	3/25/2004 4:45:00 PM
trans-1,3-Dichloropropene U 1.0 µg/L 1 3/25/2004 4:45:00	opropene	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
		U			1	3/25/2004 4:45:00 PM
	ethane	U			1	3/25/2004 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-04A

Client Sample ID: MW-4

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	3/25/2004 4:45:00 PM
Vinyl chloride	U	1.0	μg/L	1	3/25/2004 4:45:00 PM

R - RPD outside accepted recovery limits

Date: 29-Mar-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0403195

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0403195-04B

Client Sample ID: MW-4

Tag Number: 1205

Collection Date: 3/22/2004

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
SEMIVOLATILES SW-846 8270(STARS)		SW8270D	(SW3510)		Analyst: RN
Acenaphthene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Anthracene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Benzo(a)anthracene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Benzo(a)pyrene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Benzo(b)fluoranthene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Benzo(g,h,i)perylene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Benzo(k)fluoranthene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Chrysene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Dibenzo(a,h)anthracene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Fluoranthene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Fluorene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Indeno(1,2,3-c,d)pyrene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Phenanthrene	U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM
Pyrene	· U	5.2	μg/L	1.05	3/26/2004 3:36:00 AM

R - RPD outside accepted recovery limits

#### APPENDIX D

SOIL BORING LOGS



#### J. R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 303 Hauppauge, New York 11788

				Hauppa	auge, New Y	ork 11788				
DATE STARTED:	03/16/04		DATE FINISHEI	D: 03/16/04		BORING NO.: MW-1				
CLIENT: Robert	Martin Company					PROJECT NO.:	RMC04-01			
PROJECT NAME	& LOCATION: R	iver Plaza, Wildey	St., Tarrytown, N	Y		PREPARED BY:	Keith Butler			
CONTRACTOR: L	and, Air, Water E	nvironmental Serv	ices	LOGGED BY: K	eith Butler		DRILLER: John F	Palmer		
		SOIL SA	AMPLER:	CORE		MON. V	VELL (MW)	DRILL RIG		
EQUIPMENT:		Spilt Spoon		BARREL	AUGER	PIPE	CAP	AND METHOD		
TYPE:		Standard			Hollow Stem			Mobile B-3500		
SIZE:		2" x 24"			4.25" I.D.			Hollow Stem Auger		
HAMMER	140 lbs.			BIT: Cutter Head	d					
WT/FALL	30"									
SURFACE ELEVA	TION:					SURFACE	CONDITIONS: A	sphalt (2")		
WATER LEVEL A	T 5,68'	FT. AFTER		HRS.		FT. AFTER		HRS.		
DEPTH	PID		SAN	MPLE		BLOWS/6"	UNIFIED	DESCRIPTION & REMARKS		
BELOW	READINGS	TYPE AND	DEPTH	MOISTURE		OR CORE	SOIL	TRACE=0-10% LITTLE=10-20%		
GRADE	(ppm)	NO.	(FROM-TO)	CONTENT	RECOVERY	TIME	CLASS.	SOME=20-30% AND=35-50%		
0	0.0	HD-1	0' - 4'	Moist	N/A		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hand Dig to 4' bls		
								Top 0.2' asphalt, next 3.3' dark brown		
								sandy silt and fill (gravel, brick, wood and		
2								concrete). Bottom 0.5' brown to tan		
								f-m sand, some f-m gravel		
					***************************************					
4		SS-1	4' - 6'		NR	7, 12, 4, 3		No recovery, rock in spoon tip		
			, ,			7,12,1,5		l l l l l l l l l l l l l l l l l l l		
	**************************************									
6	0.0	SS-2	6' - 8'	Wet	0.5'	10 4 2 10		Limited recovery, wood fragment in		
0	0.0	33-2	0.0	Wet	0.3	10, 4, 3, 10		spoon tip. Dk. Brown silty sand and fill		
								(gravel, brick, wood)		
								(graver, orick, wood)		
8										
8						<del> </del>				
						-				
10	0.0	86.2	101 101	377						
10	0.0	SS-3	10' - 12'	Wet	1.5'	13, 16, 17, 18		Top 1.0' gray to black f-c sand and silt		
								Bottom 0.5' grayish brown silt grading		
								to silty clay		
13		00.7	101 111			10.0.0		0 75 1		
12	0.0	SS-4	12' - 14'	Wet	1.8'	12, 8, 6, 8		Gray silty clay		
14								End of Boring 14', Well Installed @ 12'		
16										
18				<u> </u>						



#### J. R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 303 Hauppauge, New York 11788

		Hauppauge, New York 11788								
DATE STARTED:	03/17/04		DATE FINISHEI	D: 03/17/04		BORING NO.:	MW-2			
CLIENT: Robert l						PROJECT NO.:	:: RMC04-01			
PROJECT NAME		iver Plaza, Wildey	St., Tarrytown, N	Y		PREPARED BY: Keith Butler				
CONTRACTOR: L				LOGGED BY: K	eith Butler	•	DRILLER: John Pa	lmer		
		SOIL SA	MPLER:	CORE		MON.	WELL (MW)	DRILL RIG		
EQUIPMENT:	, ,,,,	Spilt Spoon		BARREL	AUGER	PIPE	CAP	AND METHOD		
TYPE:		Standard			Hollow Stem			Mobile B-3500		
SIZE:		2" x 24"			4.25" I.D.			Hollow Stem Auger		
HAMMER	140 lbs.			BIT: Cutter Head			•	- I		
WT/FALL	30"									
SURFACE ELEVA	TION:					SURFACI	E CONDITIONS: Co	ncrete under 5" demo. Debris		
WATER LEVEL A		FT. AFTER		HRS.		SURFACE CONDITIONS: Concrete under 5" demo. Debris  FT. AFTER HRS.				
DEPTH	PID		SAN	4PLE		BLOWS/6"	UNIFIED	DESCRIPTION & REMARKS		
BELOW	READINGS	TYPE AND	DEPTH	MOISTURE		OR CORE	SOIL	TRACE=0-10% LITTLE=10-20%		
GRADE	(ppm)	NO.	(FROM-TO)	CONTENT	RECOVERY	TIME	CLASS.	SOME=20-30% AND=35-50%		
0	0.0	HD-1	0' - 5'	Moist	N/A	l		Hand Dig to 5' bls		
·							1	Top 0.2' asphalt, next 4.8' dark brown		
							1	sandy silt, some cobbles and fill (gravel,		
2							1	brick, and concrete).		
							1			
							1			
100							1			
4							1			
							1			
	0.0	SS-I	5' - 7'	Moist/Wet	0.5'	7, 4, 2, 5		Dark brown silt and f-m sand, trace c		
	0.0			1410130 47 61		7, 4, 2, 3	1	sand and gravel		
6								Sand and graves		
0							1			
							1			
						<del> </del>	1			
8	0.0	SS-2	8' - 10'	Wet	1.3'	7, 9, 6, 5	1	Top 1.0' dark brown silt and f-m sand,		
	0.0	00-2	3 - 10	1101	1,5	7, 7, 0, 3	1	trace c sand and gravel. Bottom 0.3'		
							1	dark brown to gray silt and f-m sand		
							1	dank brown to gray six and 1 in said		
10	0.0	SS-3	10' - 12'	Wet	1.0'	5, 4, 4, 6	1	Top 0.7' gray silt. Bottom 0.3' gray silty		
	0.0	00-5	10 - 12	1101	1.0	3, 4, 4, 0	1	clay		
							1			
							1			
12							1			
- 4							1			
								End of Boring 13', Well Installed @ 12'		
							1			
14							1			
14							1			
							1			
							1			
16							1			
16							1			
							-			
							1			
10							1			
18						1	<u> </u>	1		



#### J. R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 303 Hauppauge, New York 11788

				Hauppa	iuge, New Y	ork 11788				
DATE STARTED:	03/16/04		DATE FINISHEI	D: 03/16/04		BORING NO.:	MW-3			
CLIENT: Robert	Martin Company					PROJECT NO.: RMC04-01				
PROJECT NAME	& LOCATION: R	iver Plaza, Wildey	St., Tarrytown, N	Y		PREPARED BY:				
CONTRACTOR: L				LOGGED BY: Ke	eith Butler	1.10.7100	DRILLER: John Pal	mer		
	,		MPLER:	CORE		MON V	WELL (MW)	DRILL RIG		
EQUIPMENT:		Spilt Spoon		BARREL	AUGER	PIPE	CAP	AND METHOD		
TYPE:		Standard Standard		BARREL		FIFE	CAP			
					Hollow Stem			Mobile B-3500		
SIZE:		2" x 24"			4.25" I.D.	1	<u> </u>	Hollow Stem Auger		
HAMMER	140 lbs.			BIT: Cutter Head	ı					
WT/FALL	30"			<u> </u>						
SURFACE ELEVA							E CONDITIONS: Con	crete under 5" demo. Debris		
WATER LEVEL A		FT. AFTER		HRS.		FT. AFTER		HRS.		
DEPTH	PID		1	MPLE		BLOWS/6"	UNIFIED	DESCRIPTION & REMARKS		
BELOW	READINGS	TYPE AND	DEPTH	MOISTURE		OR CORE	SOIL	TRACE=0-10% LITTLE=10-20%		
GRADE	(ppm)	NO.	(FROM-TO)	CONTENT	RECOVERY	TIME	CLASS.	SOME=20-30% AND=35-50%		
0	0.0	HD-I	0' - 5'	Moist	N/A			Hand Dig to 5' bls		
							]	Top 0.2' asphalt, next 4.8' dark brown		
								sandy silt and fill (gravel, brick, wood,		
2								metal, and concrete)		
							1	·		
			i				1			
4										
	0,0	SS-1	5' - 7'		NR	2"/50		No recovery, rock in spoon tip		
	0,0	55-1	3 - 7		NK.	2 /30		ivo recovery, rock in spoon up		
6							-			
6										
Ì										
}										
8	0.0	SS-2	8' - 10'		NR	16, 23, 25, 18		No recovery, metal fragment stuck on		
								sampler tip.		
ļ										
10	0.0	SS-3	10' - 12'	Wet	1.6'			Gray f-m sand grading to silty clay		
12										
					*****					
								End of Boring 13', Well Installed @ 12'		
		***************************************						2 5. 201mg 15, World Installed (@ 12		
14										
17										
16										
:										
-										
18										

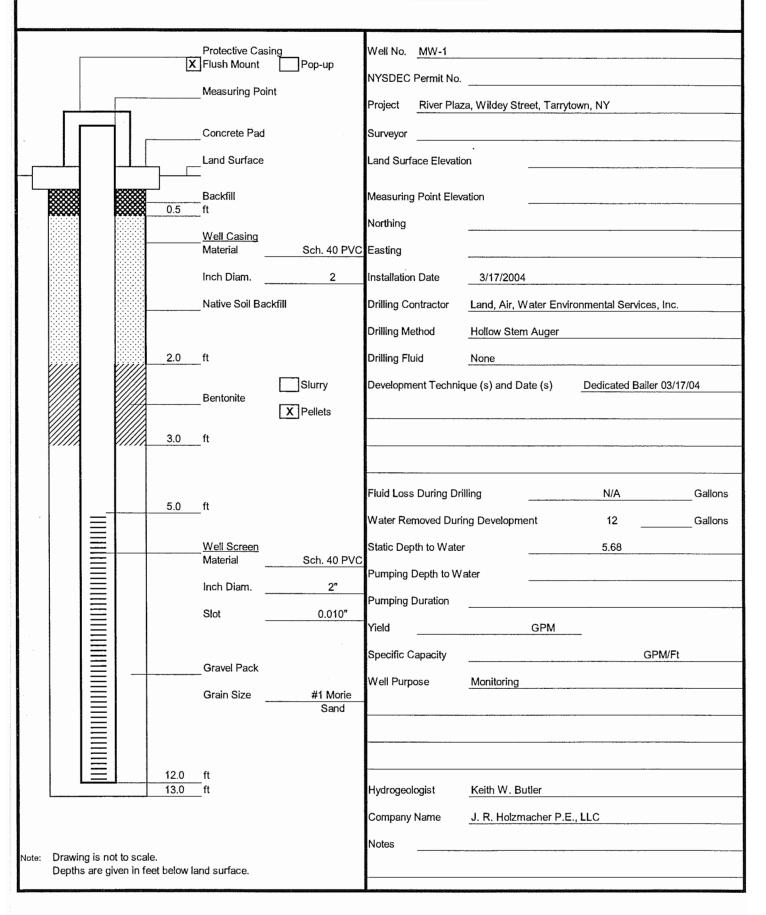


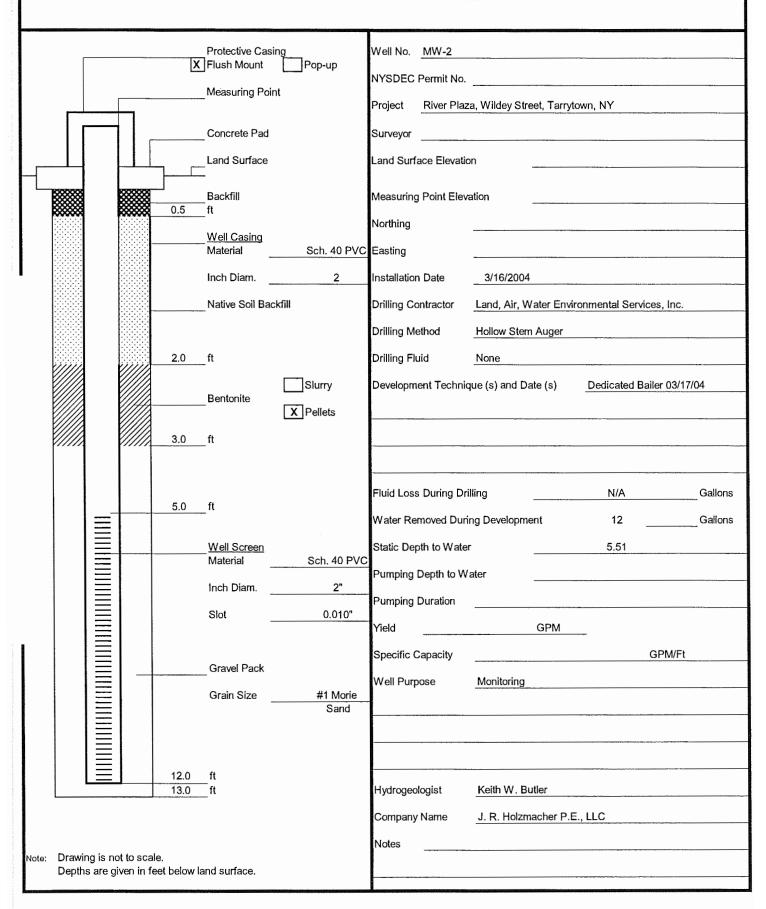
#### J. R. Holzmacher P.E., LLC 300 Wheeler Road, Suite 303 Hauppauge, New York 11788

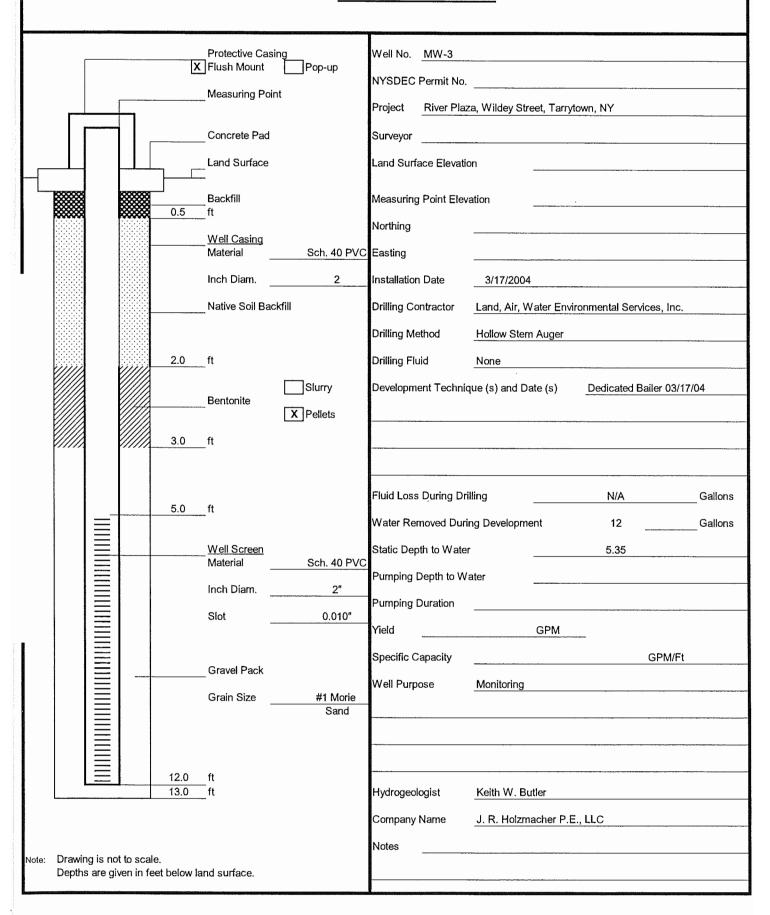
DATE STARTED:	03/17/04		DATE FINISHEI	D: 03/17/04		BORING NO.:	MW-4	
CLIENT: Robert !	Martin Company					PROJECT NO.:	RMC04-01	
PROJECT NAME	& LOCATION: R	iver Plaza, Wildey	St., Tarrytown, N	Y		PREPARED BY:	Keith Butler	
CONTRACTOR: L	and, Air, Water E	nvironmental Serv	ices	LOGGED BY: K	eith Butler		DRILLER: John F	almer
		SOIL SA	MPLER:	CORE		MON. V	VELL (MW)	DRILL RIG
EQUIPMENT:		Spilt Spoon		BARREL	AUGER	PIPE	CAP	AND METHOD
TYPE:		Standard			Hollow Stem			Mobile B-3500
SIZE:		2" x 24"			4.25" I.D.			Hollow Stem Auger
HAMMER	140 lbs.	2 724		BIT: Cutter Head				Tionow Stein Auger
WT/FALL	30"			BIT. Cutter riead	ı			
				L		OVER LOS	COMPLETIONS	- Debis
SURFACE ELEVA				· · · · · · · · · · · · · · · · · · ·	··		CONDITIONS: C	oncrete under 5" demo. Debris
WATER LEVEL A		FT. AFTER		HRS.		FT. AFTER		HRS.
DEPTH	PID		I	MPLE I	<del></del>	BLOWS/6"	UNIFIED	DESCRIPTION & REMARKS
BELOW	READINGS	TYPE AND	DEPTH	MOISTURE		OR CORE	SOIL	TRACE=0-10% LITTLE=10-20%
GRADE	(ppm)	NO.	(FROM-TO)	CONTENT	RECOVERY	TIME	CLASS.	SOME=20-30% AND=35-50%
0	0.0	HD-1	0' - 4'	Moist	N/A			Hand Dig to 4' bis
								Top 0.2' asphalt, next 3.8' dark brown
								sandy silt and fill (gravel, brick, wood and
2								concrete). Bottom 0.5' brown to tan
								f-m sand, some f-m gravel
4	0.0	SS-1	4' - 6'	Moist	1.0	4, 2, 1, 3		Brown silty f-m sand and fill (gravel,
								brick, concrete and rock fragments)
6								
				<u> </u>				
1				ļ		ļ		
8		SS-2	8' - 10'	Wet	1.0'	5, 6, 4, 2		Top 0.6' Gray silt and clay. Bottom 0.3'
,								gray f-m sand, little silt
10	0.0	SS-3	10' - 12'	Wet	2.0'	4, 5, 4, 7		Top 0.8' gray f-m sand, little silt. Bottom
								gray silty clay
12								
								End of Boring 13', Well Installed @ 12'
14								
					7177			
16								
				<b></b>				
. 18								

#### APPENDIX E

WELL CONSTRUCTION LOGS







	_				Protective Cas		Well No. MW-4			
				X	Flush Mount	Pop-up	NYSDEC Permit No.			
	************				_Measuring Poi	nt	Project River Plaz	za, Wildey Street, Tarry		
					Concrete Pad		Surveyor			
					Land Surface		Land Surface Elevati			
H										
				0,5	_Backfill ft		Measuring Point Elev	vation	***	
		·			Well Casing		Northing			
					Material	Sch. 40 PVC	Easting			
1					Inch Diam.	2	Installation Date	3/17/2004		
					_Native Soil Bad	ckfill	Drilling Contractor	Land, Air, Water Env	vironmental Services	, Inc.
							Drilling Method	Hollow Stem Auger		
	/////		/////	2.0	_ft		Drilling Fluid	None		
					Bentonite	Slurry	Development Technic	que (s) and Date (s)	Dedicated Bailer	r 03/17/04
					_bentonite	X Pellets				
				3.0	_ft					
									<del> </del>	
				5.0	ft		Fluid Loss During Dr	illing	N/A	Gallons
		$\equiv$			_11		Water Removed Dur	ing Development	12	Gallons
					Well Screen	0.1.40.0040	Static Depth to Wate	er	5.68	
					Material _	Sch. 40 PVC	Pumping Depth to W	ater		
		$\equiv$			Inch Diam.	2"	Pumping Duration			
		$\equiv$			Slot	0.010"	Yield	GPM		
		$\equiv$					Specific Capacity		GF	PM/Ft
		$\equiv$	-	~	_Gravel Pack		Well Purpose	Monitoring		
					Grain Size	#1 Morie Sand				
		=	<b>I</b>	12.0 13.0	_ft _ft		Hydrogeologist	Keith W. Butler		
							Company Name	J. R. Holzmacher P.	E., LLC	
							Notes			
Note:	Drawin Depths				and surface.					
L		<del></del>								





300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01							
VELL No./OWNER MW-1 / Robert Martin Company							
AMPLING POINT MW-1							
AMPLE I.D. No. MW-1 SAMPLED BY KWB							
DATE SAMPLED 3/22/2004 TIME . 1105							
VELL USE Groundwater Monitoring							
TATIC WATER ELEV. <u>5.68</u> FT. BELOW MEASURING POINT <u>TOC</u>							
WELL DIAMETER 2.0 INCHES							
OTAL WELL DEPTH 12.18 FT. BELOW MEASURING POINT TOC							
SAMPLING INFORMATION							
PURGING METHOD Dedicated polyethylene bailer							
PURGING RATE GAL/MIN. PURGING TIME MIN.							
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.5							
No. CASING VOLUMES REMOVED:3 GALLONS:3.5  WELL DRAWDOWN/RECOVERYFair							
No. CASING VOLUMES REMOVED:3							
No. CASING VOLUMES REMOVED:3							
No. CASING VOLUMES REMOVED:3							
No. CASING VOLUMES REMOVED:3							
No. CASING VOLUMES REMOVED:3							
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.5  WELL DRAWDOWN/RECOVERY Fair  SAMPLE APPEARANCE Turbid, gray  ODORS OBSERVED None  PH CONDUCTIVITY TEMPERATURE							
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.5  WELL DRAWDOWN/RECOVERY Fair  SAMPLE APPEARANCE Turbid, gray  ODORS OBSERVED None  PH CONDUCTIVITY  TEMPERATURE SAMPLES ANALYZED FOR VOCs by 8260 and SVOCs by 8270 (STARS List)							

300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01							
WELL No./OWNER MW-2 / Robert Martin Company							
SAMPLING POINT MW-2							
SAMPLE I.D. No. MW-2 SAMPLED BY KWB							
DATE SAMPLED 3/22/2004 TIME 1135							
WELL USE Groundwater Monitoring							
STATIC WATER ELEV. <u>5.51</u> FT. BELOW MEASURING POINT <u>TOC</u>							
WELL DIAMETER 2.0 INCHES							
TOTAL WELL DEPTH 11.91 FT. BELOW MEASURING POINT TOC							
SAMPLING INFORMATION							
PURGING METHOD Dedicated polyethylene bailer							
	-						
PURGING RATE GAL/MIN. PURGING TIME MIN							
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3 GALLONS: 3.5	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3 GALLONS: 3.5  WELL DRAWDOWN/RECOVERY Fair  SAMPLE APPEARANCE Turbid, gray	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3	-						
PURGING RATE	-						

300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01	
WELL No./OWNER MW-3 / Robert Martin Company	
SAMPLING POINT MW-3	
SAMPLE I.D. No. MW-3 SAMPLED BY KWB	
DATE SAMPLED 3/22/2004 TIME 1205	
WELL USE Groundwater Monitoring	
STATIC WATER ELEV. <u>5.35</u> FT. BELOW MEASURING POINT <u>TOC</u>	
WELL DIAMETER INCHES	
TOTAL WELL DEPTH 11.00 FT. BELOW MEASURING POINT TOC	
SAMPLING INFORMATION	
PURGING METHOD Dedicated polyethylene bailer	_
PURGING RATE GAL/MIN. PURGING TIME MIN	١.
PURGING RATE GAL/MIN. PURGING TIME MIN  No. CASING VOLUMES REMOVED: 3 GALLONS: 3.0	
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.0	_
No. CASING VOLUMES REMOVED:3 GALLONS:3.0  WELL DRAWDOWN/RECOVERYPoor	_
No. CASING VOLUMES REMOVED:3	_
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.0  WELL DRAWDOWN/RECOVERY Poor  SAMPLE APPEARANCE Turbid, gray  ODORS OBSERVED None  pH  CONDUCTIVITY  TEMPERATURE	_
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.0  WELL DRAWDOWN/RECOVERY Poor  SAMPLE APPEARANCE Turbid, gray  ODORS OBSERVED None  pH CONDUCTIVITY TEMPERATURE  SAMPLES ANALYZED FOR VOCs by 8260 and SVOCs by 8270 (STARS List)	_
No. CASING VOLUMES REMOVED: 3 GALLONS: 3.0  WELL DRAWDOWN/RECOVERY Poor  SAMPLE APPEARANCE Turbid, gray  ODORS OBSERVED None  pH CONDUCTIVITY TEMPERATURE  SAMPLES ANALYZED FOR VOCs by 8260 and SVOCs by 8270 (STARS List)  LABORATORY/DATE SHIPPED American Analytical / 3/22/04	_

# 6

### J. R. HOLZMACHER, P.E., LLC.

300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robe	rt Martin Company / RMC04-01
WELL No./OWNERMW-	4 / Robert Martin Company
SAMPLING POINTMW-	4
SAMPLE I.D. No. <u>MW-4</u>	SAMPLED BY KWB
DATE SAMPLED	TIME1045
WELL USE Groundwater Mor	nitoring
STATIC WATER ELEV. 5.68	FT. BELOW MEASURING POINT
WELL DIAMETER2.0	INCHES
	FT. BELOW MEASURING POINTTOC
	SAMPLING INFORMATION
DUDGING METHOD Do	digated nativethylana hailan
	dicated polyethylene bailer
	GAL/MIN. PURGING TIMEMIN.
	GALLONS: 3.0
	Poor
	rbid, gray
	ne
pH	
CONDUCTIVITY	
TEMPERATURE	
SAMPLES ANALYZED FOR	VOCs by 8260 and SVOCs by 8270 (STARS List)
LABORATORY/DATE SHIPPED _Am	nerican Analytical / 3/22/04
11	
COMMENTS, LOCATION SKETCH,	WELL-HEAD SKETCH, ETC.

#### APPENDIX B

**OCTOBER 2004 GROUNDWATER SAMPLING** 

# J.R. Holzmacher P.E., LLC

300 Wheeler Road, Suite 303, Hauppauge, New York 11788-4300 Tel: (631) 234-2220 Fax: (631) 234-2221 e-mail: cleanuph2o@hotmail.com

October 14, 2004

Mr. Greg Berger Managing Partner Robert Martin Company 100 Clearbrook Road Elmsford, New York 10523

> Re: Groundwater Sampling Results River Plaza Shopping Center 130-138 Wildey Street Tarrytown, New York

Dear Mr. Berger:

J. R. Holzmacher P.E., LLC (JRH) has prepared the following report to document the results of the groundwater monitoring/sampling conducted at the above referenced property on October 7, 2004.

#### **Site Description**

The subject property is an approximate 3.3-acre parcel located on the southeast corner of the intersection of Wildey and Cortlandt Streets in Tarrytown, New York. The site is improved with two commercial/retail buildings. Building one is an approximate 24,000 square foot, one-story, masonry structure with no partial basement. Building two is an approximate 9,000 square foot, one story masonry structure with no basement. A site plan is shown on Figure 1.

Previous subsurface investigations conducted at the site (August 1998, September 2003, October 2003) and the tank removal/investigation conducted in March 2004 by JRH indicated the presence of low level concentrations of volatile organic compounds (VOCs), specifically tetrachloroethene (PCE) and its breakdown products in groundwater beneath the site. While soil samples did show some low level concentrations of VOCs (significantly below NYSDEC RSCOs), no definitive on-site source was identified. Based on these data VOCs in groundwater are likely attributable to fill materials or to incidental releases attributable to historic dry cleaning operations.

#### **Groundwater Sampling**

On October 7, 2004, JRH conducted gauging and collected groundwater samples from the four monitoring wells MW-1 through MW-4. Monitoring well locations are shown on Figure 1. Depth to water and total depth measurements were obtained from each well using a Solinst Model 101 interface probe accurate to 0.01 foot. No evidence of petroleum sheens or floating product was detected in the four wells. Prior to sampling, each well was purged a minimum of three casing volumes of water using a dedicated disposable bailer. This was performed to ensure

Mr. Greg Berger Robert Martin Company October 14, 2004 Page Two

representative samples from the formation surrounding the wells were obtained and to eliminate standing water in the wells. Non-disposable sampling equipment (i.e. interface probe, pump) was cleaned using a distilled water and Alconox detergent wash followed by a distilled water rinse prior to purging each well. Groundwater samples were collected using dedicated, disposable bailers. Well sampling logs are included in Appendix A. Samples were placed directly into pre-cleaned laboratory supplied bottles and placed in a cooler packed with ice for transport to the laboratory. The samples were hand delivered to American Analytical Laboratories for analysis of VOCs by Method 8260 and SVOCs by Method 8270 (STARS List).

Analytical results indicate that vinyl chloride was detected in the samples collected from wells MW-1, MW-2 and MW-3 at concentrations (3 ug/l to 12 ug/l) above the groundwater standard of 2 ug/l. Vinyl chloride (5.1 ug/l to 11 ug/l) was also detected in these three wells during the March 2004 sampling event. Tetrachloroethene (PCE) was detected in the sample collected from well MW-3 at a concentration (6.8 ug/l) slightly above the groundwater standard of 5 ug/l and the March 2004 sampling result of 5.6 ug/l. PCE was also detected in sample MW-2, but at a concentration (1.7 ug/l) below the groundwater standard. Cis-1, 2-dichloroethene was detected in the samples from well MW-2 (7.9 ug/l) and MW-3 (9.0 ug/l) at concentrations slightly exceeding the groundwater standard of 5 ug/l. Cis-1,2-dichloroethene was also detected in the sample from well MW-1 (4.8 ug/l), but at a concentration below the groundwater standard. Trichloroethene (TCE) was detected in samples MW-2 and MW-3, but at concentrations below the groundwater standard. No VOCs were detected above their respective groundwater standards in sample MW-4.

Methylene chloride was detected in each of the four samples at concentrations between 14 and 15 ug/l. However, methylene chloride is a common laboratory contaminant and was also detected in the associated laboratory blank sample. Methylene chloride was not detected in the samples collected in March 2004. Therefore, the presence of this compound is likely attributable to laboratory cross contamination.

Groundwater analytical results are summarized on Table 1 and the laboratory reports are included in Appendix B.

#### **Conclusions and Recommendations**

The degradation products of PCE, cis-1, 2-DCE and vinyl chloride, were detected at concentrations above the groundwater standard in two and three of the four samples, respectively. PCE was detected slightly above the groundwater standard in one of the four samples.

Because previous investigations have not detected a source of PCE in on-site soils, JRH previously suggested that the PCE concentrations detected in the March 2004 groundwater samples represented worst case conditions, and that PCE concentrations would continue to decline through nature attenuation. The presence of cis-1,2-DCE and vinyl chloride the end breakdown products of PCE are evidence that the breakdown of PCE has, and continues to

Mr. Greg Berger Robert Martin Company October 14, 2004 Page Three

occur. While the concentrations of these compounds do slightly exceed the groundwater standard the concentrations are not significant to require additional investigation and/or remediation.

Based on these data JRH recommends continued groundwater sampling monitor groundwater quality and document the continued attenuation of these compounds.

Should you have any questions, or require further information, please don't hesitate to call me.

Very truly yours, J. R. Holzmacher P.E., LLC

Keith W. Butler Senior Hydrogeologist

James M. DeMartinis, P.G. Senior Hydrogeologist

cc: Lloyd Roos, Esq. Charles Powers, CNS



#### ROBERT MARTIN COMPANY RIVER PLAZA TARRYTOWN, NEW YORK

#### TABLE 1

# GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

Compound	NYSDEC (1)	MV	V-1	MV	V-2	MV	V-3	MV	V-4
-		10/7/2004	3/22/04	10/7/2004	3/22/04	10/7/2004	3/22/04	10/7/2004	3/22/04
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
I,I-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
I,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50 *	ND	ND	ND	ND	ND	ND .	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	. ND	ND
2-Hexanone	50 *	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 *	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 *	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 *	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND

#### ROBERT MARTIN COMPANY RIVER PLAZA TARRYTOWN, NEW YORK

#### TABLE 1 (con't)

# GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY EPA METHOD 8260

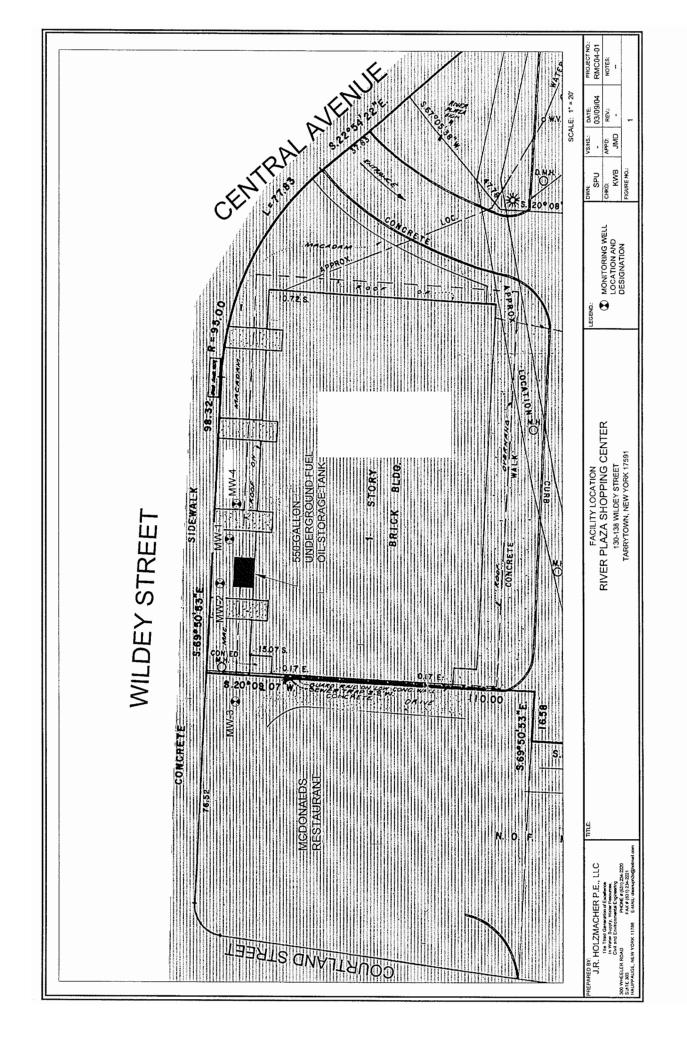
Compound	NYSDEC (1)	MV	V-1	MV	V-2	MV	V-3	MV	V-4
_		10/7/2004	3/22/04	10/7/2004	3/22/04	10/7/2004	3/22/04	10/7/2004	3/22/04
Chlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	4.8	ND	7.9	4.7	9	ND	ND	ND
cis-1,2-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50 *	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Freon-114	NS	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tertiary butyl ether	10	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	14 B	ND	15 B	ND	14 B	ND	15 B	ND
Naphthalene	10 *	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol	NS	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	1.7	0.8 J	6.8	5.4	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	1.5	ND	2.6	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	5.6	5.1	3	7.8	12	11	ND	ND

#### Notes:

- 1 NYSDEC Class GA Drinking Water Standards and Guidance Values, TOGS 1.1.1, June 1998
- \* Guidance Value
- ND Not Detected
- NS Not specified

Bold text denotes exceedance of standard or guidance value.





#### APPENDIX A



300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01	
WELL No./OWNER MW-1 / Robert Martin Company	
SAMPLING POINT MW-1	
SAMPLE I.D. No. MW-1 SAMPLE	D BY KWB
DATE SAMPLED <u>10/7/2004</u> TIME	1010
WELL USE Groundwater Monitoring	
STATIC WATER ELEV. <u>5.64</u> FT. BELOW MEA	
WELL DIAMETER 2.0 INCHES	
TOTAL WELL DEPTH 12.20 FT. BELOW MEA	ASURING POINTTOC
SAMPLING INFORMATION	N
PURGING METHOD Dedicated polyethylene bailer	
PURGING RATE GAL/MIN. PURGING TIM	
No. CASING VOLUMES REMOVED:3	1
WELL DRAWDOWN/RECOVERY Fair	
SAMPLE APPEARANCETurbid brown	
ODORS OBSERVED None	
pH	
CONDUCTIVITY	
TEMPERATURE	
SAMPLES ANALYZED FORVOCs by 8260	
LABORATORY/DATE SHIPPED American Analytical / 10/7/04	
COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.	
1 Vol. (1) 2 Vol. (2) pH Cond. T°C	3 Vol. (3)



300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01
WELL No./OWNERMW-2 / Robert Martin Company
SAMPLING POINT MW-2
SAMPLE I.D. No. MW-2 SAMPLED BY KWB
DATE SAMPLED 10/7/2004 TIME 1025
WELL USE Groundwater Monitoring
STATIC WATER ELEV. 5.46 FT. BELOW MEASURING POINT TOC
WELL DIAMETER INCHES
TOTAL WELL DEPTH 12.72 FT. BELOW MEASURING POINT TOC
SAMPLING INFORMATION
PURGING METHOD Dedicated polyethylene bailer
PURGING RATE GAL/MIN. PURGING TIME MIN.
No. CASING VOLUMES REMOVED:3 GALLONS:3.8
WELL DRAWDOWN/RECOVERY Poor
SAMPLE APPEARANCETurbid brown
ODORS OBSERVED None
pH
CONDUCTIVITY
TEMPERATURE
SAMPLES ANALYZED FOR VOCs by 8260
LABORATORY/DATE SHIPPED American Analytical / 10/7/04
COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.
1 Vol. (1) 2 Vol. (2) 3 Vol. (3)
pH Cond. T°C

300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Company / RMC04-01	
WELL No./OWNER MW-3 / Robert Martin Company	
SAMPLING POINT MW-3	
SAMPLE I.D. No. MW-3 SAMPLED BY KWB	
DATE SAMPLED 10/7/2004 TIME 1025	
WELL USE Groundwater Monitoring	
STATIC WATER ELEV. <u>5.35</u> FT. BELOW MEASURING POINT <u>TOC</u>	
WELL DIAMETER 2.0 INCHES	
TOTAL WELL DEPTH 11.26 FT. BELOW MEASURING POINT TOC	
CAMPI INC DIFORMATION	
SAMPLING INFORMATION	
PURGING METHOD Dedicated polyethylene bailer	
PURGING RATE GAL/MIN. PURGING TIME	MIN.
PURGING RATE GAL/MIN. PURGING TIME	
PURGING RATE GAL/MIN. PURGING TIME INDICATE GALLONS: 3.1	
PURGING RATE GAL/MIN. PURGING TIME INDICATE GALLONS: 3.1 WELL DRAWDOWN/RECOVERY Fair	
PURGING RATE GAL/MIN. PURGING TIME 1  No. CASING VOLUMES REMOVED: 3	
PURGING RATE GAL/MIN. PURGING TIME No. CASING VOLUMES REMOVED: 3	
PURGING RATE GAL/MIN. PURGING TIME No. CASING VOLUMES REMOVED: 3	
PURGING RATE GAL/MIN. PURGING TIME	
PURGING RATE GAL/MIN. PURGING TIME INDICATE GAL/MIN. PURGING TIME INDICATE GALLONS: 3.1	
PURGING RATE GAL/MIN. PURGING TIME I No. CASING VOLUMES REMOVED: 3	
PURGING RATE GAL/MIN. PURGING TIME INDICATE GAL/MIN. PURGING TIME INDICATE GALLONS: 3.1	



300 WHEELER ROAD, SUITE 303 HAUPPAUGE, NEW YORK 11788

CLIENT/PROJECT No. Robert Martin Comp	any / RMC04-01
WELL No./OWNER MW-4 / Robert Mar	in Company
SAMPLING POINT MW-4	
SAMPLE I.D. No. <u>MW-4</u>	SAMPLED BY KWB
DATE SAMPLED	TIME1045
WELL USE Groundwater Monitoring	
STATIC WATER ELEV. <u>5.64</u>	FT. BELOW MEASURING POINT
WELL DIAMETER INCHE	S
TOTAL WELL DEPTH 11.34	FT. BELOW MEASURING POINT
SAMPLING	G INFORMATION
PURGING METHOD Dedicated polyeth PURGING RATE GAL/MIN.	ylene bailer PURGING TIME MIN.
No. CASING VOLUMES REMOVED: 3	GALLONS: 3.0
WELL DRAWDOWN/RECOVERY <u>Fair</u>	
SAMPLE APPEARANCETurbid brown	
ODORS OBSERVED None	
pH	
CONDUCTIVITY	
TEMPERATURE	
SAMPLES ANALYZED FOR VOCs by 8260	
LABORATORY/DATE SHIPPED American Analytic	cal / 10/7/04
COMMENTS, LOCATION SKETCH, WELL-HEAD	SKETCH, ETC.
1 Vol. (1) 2 Vo pH Cond. T°C	1. (2) <u>3 Vol. (3)</u>

#### APPENDIX B

ANALYTICAL LABORATORY REPORTS

Tuesday, October 12, 2004

Keith Butler J.R. Holzmacher P.E. LLC 300 Wheeler Road Suite 303 Hauppauge, NY 11788

TEL: (631) 234-2220

FAX (631) 234-2221

RE: River Plaza Tarrytown, N.Y.

Dear Keith Butler:

Order No.: 0410071

American Analytical Laboratories, LLC. received 4 sample(s) on 10/7/2004 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The limits provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lab Director



Date: 12-Oct-04

CLIENT: J.R. Holzmacher P.E. LLC

Project:

River Plaza Tarrytown, N.Y.

Lab Order:

0410071

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0410071-01A	MW-1	3375	10/7/2004	10/7/2004
0410071-02A	MW-2	3375	10/7/2004	10/7/2004
0410071-03A	MW-3	3375	10/7/2004	10/7/2004
0410071-04A	MW-4	3375	10/7/2004	10/7/2004

AMERICAN ANALYTICAL ELABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 (631) 454-6100 • FAX (631) 454-8027

TAG # / coc 3375

11418 PH-0205 NY050 68-573 NYSDOH CTDOH NJDEP PADEP

T FOR ANALYSIS DOCUMENT	SAMPLER (SIGNIATURE) SEALED YES / NO	SAMPLER NAME (PRINT) CORRECT CONTAINER(S) YES / NO	75.50	METHANOL PRESERVED SAMPLES SAMPLES (VOLATILE VIAL # )	× × ×	1 (10H	× × / / / / / / / / / / / / / / / / / /			COOLER TEMPERATURE:	ID REQUIRED:	RECEIVED BY LAB (SIGNATURE) DATE/OF HOPMITED NAME	PRINTED NAME	
3	CLIENT NAME ADDRESS CLIENT NAME AND CONTACT CO	Haymare NY 11788	PROJECT LOCATION:  (Live - Flores, Tanny han DI (RIMCO4-01)	LABORATORY # CON- SAMPLING SAMPLE # - LOCATION ID # TAINERS TIME	50704	-2 3 WW-2	<del>-</del>				MATRIX s=soil; l=liquid; sl=sludge; a-air; w=wipe; p=paint chips; b=bulk material turnaroun TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON	RELINQUISHED BY (SIGNATURE)  DATEO/NOF PRINTED NAME  RECEI  TIME  LEATH BAC		

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

#### AMERICAN ANALYTICAL LABORATORIES, LLC 56 TOLEDO STREET

FARMINGDALE, NEW YORK 11735

TELEPHONE: (631) 454-6100 FAX: (631) 454-8027

### DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	<ul> <li>Indicates an estimated value. The flag is used: <ol> <li>When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3ug/L was calculated report as 3J. This flag is used when similar situations arise on any organic parameter i.e. Pesticide, PCBs and others.</li> </ol> </li></ul>
В	Indicates the analyte was found in the blank as well as the sample report "10B".
E	Indicates the analytes concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide / PCB target analyte when there is >25% difference for detected concentrations between the two GC Columns. The higher of the two values is reported on Form I and flagged with a "P".
<b>N</b>	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Н	Indicates sample was received and/or analyzed outside of

The method allowable holding time

Date: 12-Oct-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0410071

Project:

River Plaza Tarrytown, N.Y.

Lab ID:

0410071-01A

Date Received: 10/7/2004

Client Sample ID: MW-1

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Qı	ıal Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,1,1-Trichloroethane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	ha\r	1	10/8/2004 3:47:00 AM
1,1,2-Trichloroethane	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,1-Dichloroethane	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,1-Dichloroethene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,1-Dichloropropene	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2,3-Trichlorobenzene	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2,3-Trichloropropane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,2,4,5-Tetramethylbenzene	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2,4-Trichloroberizene	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,2-Dibromo-3-chloropropane	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2-Dibromoethane	υ	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,2-Dichlorobenzene	U	1.0	µg/L	1	10/8/2004 3:47:00 AM
1,2-Dichloroethane	U	1.0	μg/L'	1	10/8/2004 3:47:00 AM
1,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,3,5-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,3-Dichlorobenzene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,3-dichloropropane	υ	1.0	μg/L	1	10/8/2004 3:47:00 AM
1,4-Dichlorobenzene	υ	1.0	μg/L	1	10/8/2004 3:47:00 AM
2,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
2-Butanone	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
2-Chlorotoluerie	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
2-Hexanone	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
4-Chlorotoluene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
4-Isopropyltoluene	υ	1.0	μg/L	1	10/8/2004 3:47:00 AM
4-Methyl-2-pentanone	υ	1.0	μg/L	1	10/8/2004 3:47:00 AM
Acetone	υ	1.0	µg/L	1	10/8/2004 3:47:00 AM
Acrolein	Ū	1.0	µg/L	1	10/8/2004 3:47:00 AM
Acrylonitrile	Ū	1.0	μg/L	1	10/8/2004 3:47:00 AM
Benzene	· Ū	1.0	µg/L	1	10/8/2004 3:47:00 AM
Bromobenzene	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
Bromochloromethane	Ü	1.0	μg/L	1	10/8/2004 3:47:00 AM
Bromodichloromethane	Ü	1.0	μg/L	1	10/8/2004 3:47:00 AM
Bromoform	U	1.0	μg/L	1	10/8/2004 3:47:00 AM
Bromomethane	Ü	1.0	µg/L	1	10/8/2004 3:47:00 AM
Carbon disulfide	U	1.0	μg/L	1	10/8/2004 3:47:00 AM

- Value exceeds Maximum Contaminant Level
- Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit

CLIENT: J.R. Holzmacher P.E. LLC

Lab Order:

0410071

Project: River Plaza Tarrytown, N.Y.

Lab ID:

0410071-01A

Date Received: 10/7/2004

Client Sample ID: MW-1

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Date: 12-Oct-04

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed		
VOLATILES SW-846 METHOD 8260	SW8260B					Analyst: LDS		
Carbon tetrachloride	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Chlorobenzene	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Chlorodifluoromethane	υ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Chloroethane	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Chloroform	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Chloromethane	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
cis-1,2-Dichloroethene	4.8	1.0		μg/L	1	10/8/2004 3:47:00 AM		
cis-1,3-Dichloropropene	υ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Dibromochloromethane	υ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Dibromomethane	υ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Dichlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Diisopropyl ether	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Ethanol	U	1.0		µg/L	. 1	10/8/2004 3:47:00 AM		
Ethyl acetate	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Ethylbenzene	U	1.0		µg/L	. 1	10/8/2004 3:47:00 AM		
Freon-114	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Hexachlorobutadiene	υ	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Isopropyl acetate	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Isopropylbenzene	U ·	1.0		μg/L	1 ·	10/8/2004 3:47:00 AM		
m,p-Xylene	U	2.0		μg/L	1	10/8/2004 3:47:00 AM		
Methyl tert-butyl ether	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Methylene chloride	14	1.0	В	μg/L	1	10/8/2004 3:47:00 AM		
Naphthalene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
n-Butyl acetate	υ	1.0		μg/L	1	10/8/2004 3:47:00 AM		
n-Butylbenzene	บ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
n-Propyl acetate	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
n-Propylbenzene	บ	1.0		μg/L	1	10/8/2004 3:47:00 AM		
o-Xylene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
p-Diethylbenzene	υ	1.0		µg/L	1	10/8/2004 3:47:00 AM		
p-Ethyltoluene	บ	1.0		μg/L	1	10/8/2004 3:47:00 AM		
sec-Butylberizene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Styrene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
t-Butyl alcohol	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
tert-Butylbenzene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Tetrachloroethene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Toluene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
trans-1,2-Dichloroethene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
trans-1,3-Dichloropropene	U	1.0		μg/L	1	10/8/2004 3:47:00 AM		
Trichloroethene	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		
Trichlorofluoromethane	U	1.0		µg/L	1	10/8/2004 3:47:00 AM		

- Value exceeds Maximum Contaminant Level
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT:

Lab Order:

0410071

Project: Lab ID: River Plaza Tarrytown, N.Y.

0410071-01A

J.R. Holzmacher P.E. LLC

Client Sample ID: MW-1

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Date: 12-Oct-04

Analyses	Result	Limit Qı	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	ប	1.0	μg/L	1	10/8/2004 3:47:00 AM
Vinyl chloride	5.6	1.0	μ <b>g/L</b>	1	10/8/2004 3:47:00 AM

Date Received: 10/7/2004

- Value exceeds Maximum Contaminant Level
- Value above quantitation range
- J Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Date: 12-Oct-04

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0410071

River Plaza Tarrytown, N.Y.

Client Sample ID: MW-2 Tag Number: 3375

Collection Date: 10/7/2004

Project: Lab ID:

0410071-02A

Date Received: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Qua	l Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260E	}		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1,1-Trichloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1,2-Trichloro-1,2,2-triffuoroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1,2-Trichloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1-Dichloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1-Dichloroethene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,1-Dichloropropene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2,3-Trichlorobenzene	U	1.0	μg/ <b>L</b>	1	10/8/2004 4:19:00 AM
1,2,3-Trichloropropane	U	1.0	μg/Ł	1	10/8/2004 4:19:00 AM
1,2,4,5-Tetramethylbenzene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2,4-Trichlorobenzene	U	1.0	µg/∟	1	10/8/2004 4:19:00 AM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2-Dibromoethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2-Dichlorobenzene	U	1.0	μg/L	1 ·	10/8/2004 4:19:00 AM
1,2-Dichloroethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,3,5-Trimethylbenzene	U	1.0	μg/ <b>L</b>	1	10/8/2004 4:19:00 AM
1,3-Dichlorobenzene	U	1.0	μg/Ł	1	10/8/2004 4:19:00 AM
1,3-dichloropropane	IJ	1.0	μg/L	1	10/8/2004 4:19:00 AM
1,4-Dichlorobeлzene	IJ	1.0	μg/L	1	10/8/2004 4:19:00 AM
2,2-Dichloropropane	U	1.0	μg/Ł	1	10/8/2004 4:19:00 AM
2-Butanone	. U	1.0	μg/L	1	10/8/2004 4:19:00 AM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
2-Chlorotoluene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
2-Hexanone	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
4-Chlorotoluene	U	1.0	μg/ <b>L</b>	1	10/8/2004 4:19:00 AM
4-Isopropyltoluene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
4-Methyl-2-pentanone	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Acetone	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Acrolein	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Acrylonitrile	U	1.0	µg/L	1	10/8/2004 4:19:00 AM
Benzene	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Bromobenzene	U	1.0	μg/L	1 .	10/8/2004 4:19:00 AM
Bromochloromethane	U	1.0	μg/L	1 ·	10/8/2004 4:19:00 AM
Bromodichloromethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Bromoform	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Bromomethane	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Carbon disulfide	U	1.0	μg/L	1	10/8/2004 4:19:00 AM

- Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Lab Order: 0410071

CLIENT:

Project: River Plaza Tarrytown, N.Y.

Lab ID: 0410071-02A Date Received: 10/7/2004

J.R. Holzmacher P.E. LLC

Date: 12-Oct-04

Client Sample ID: MW-2

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	260B			Analyst: LDS
Carbon tetrachloride	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Chlorobenzene	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Chlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Chloroethane	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Chloroform	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Chloromethane	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
cis-1,2-Dichloroethene	7.9	1.0		µg/L	1	10/8/2004 4:19:00 AM
cis-1,3-Dichloropropene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Dibromochloromethane	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Dibromomethane	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Dichlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Diisopropyl ether	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Ethanol	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Ethyl acetate	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Ethylbenzene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Freon-114	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Hexachlorobutadiene	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Isopropyl acetate	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Isopropylbenzene	IJ	1.0		μg/L	1	10/8/2004 4:19:00 AM
m,p-Xylene	U	2.0		μg/L	1	10/8/2004 4:19:00 AM
Methyl tert-butyl ether	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
Methylene chloride	15	1.0	В	µg/L	1	10/8/2004 4:19:00 AM
Naphthalene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
n-Butyl acetate	U	1.0		μg/L	1 .	10/8/2004 4:19:00 AM
n-Butylbenzene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
n-Propyl acetate	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
n-Propylbenzene	Ù	1.0		µg/L	1	10/8/2004 4:19:00 AM
o-Xylene	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
p-Diethylbenzene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
p-Ethyltoluene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
sec-Butylbenzene	U·	1.0		μg/L	1	10/8/2004 4:19:00 AM
Styrene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
t-Butyl alcohol	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
tert-Butylbenzene	U	1.0		µg/L	1	10/8/2004 4:19:00 AM
Tetrachloroethene	1.7	1.0		μg/L	1	10/8/2004 4:19:00 AM
Toluene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
trans-1,2-Dichloroethene	U	1.0		μg/L	1	10/8/2004 4:19:00 AM
trans-1,3-Dichloropropene	IJ	1.0		μg/L	1	10/8/2004 4:19:00 AM
Trichloroethene	1.5	1.0		μg/L	1	10/8/2004 4:19:00 AM
Trichlorofluoromethane	U	1.0		μg/L	1	10/8/2004 4:19:00 AM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT:

J.R. Holzmacher P.E. LLC

Lab Order:

0410071

Project: Lab ID: River Plaza Tarrytown, N.Y.

0410071-02A

Date Received: 10/7/2004

Date: 12-Oct-04

Client Sample ID: MW-2

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82601	3		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	10/8/2004 4:19:00 AM
Vinyl chloride	3.0	1.0	μg/L	1	10/8/2004 4:19:00 AM

- Value exceeds Maximum Contaminant Level
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit

Date: 12-Oct-04

CLIENT: J.R. Holzmacher P.E. LLC

Lab Order: 0410071

Project: River Plaza Tarrytown, N.Y.

Lab ID: 0410071-03A Date Received: 10/7/2004

Client Sample ID: MW-3 Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW826		Analyst: LDS	
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,1,1-Trichloroethane	U	1.0	μġ/L	1	10/8/2004 4:50:00 AM
1,1,2,2-Tetrachloroethane	U	1,0	μg/L	1	10/8/2004 4:50:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
1,1,2-Trichloroethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,1-Dichloroethane	U	1.0	μg/ <b>L</b>	_1	10/8/2004 4:50:00 AM
1,1-Dichloroethene	U	1.0	μg/ <b>L</b>	1	10/8/2004 4:50:00 AM
1,1-Dichloropropene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2,3-Trichloropropane	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
1,2,4,5-Tetramethylbenzene	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
1,2,4-Trichlorobenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2-Dibromo-3-chloropropane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2-Dibromoethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2-Dichlorobenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2-Dichloroethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,3,5-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
1,3-Dichlorobenzene	U	1.0	μg/L <sup>·</sup>	1	10/8/2004 4:50:00 AM
1,3-dichloropropane	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
1,4-Dichlorobenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
2,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
2-Butanone	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
2-Chloroethyl vinyl ether	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
2-Chlorotoluene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
2-Hexanone	υ	. 1.0	μg/L	1	10/8/2004 4:50:00 AM
4-Chlorotoluene	.U	1.0	μg/L	1	10/8/2004 4:50:00 AM
4-Isopropyltoluene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
4-Methyl-2-pentanone	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Acetone	U	1.0	µg/L	1	10/8/2004 4:50:00 AM
Acrolein	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Acrylonitrile	U	1.0	μg/Ľ	1	10/8/2004 4:50:00 AM
Benzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Bromobenzene	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Bromochloromethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Bromodichloromethane	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Bromoform	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Bromomethane	Ū	1.0	μg/L	1	10/8/2004 4:50:00 AM
Carbon disulfide	U	1.0	µg/L	1	10/8/2004 4:50:00 AM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Date: 12-Oct-04

CLIENT:

J.R. Holzmacher P.E. LLC

Client Sample ID: MW-3

Lab Order:

0410071

Tag Number: 3375

Project:

River Plaza Tarrytown, N.Y.

Collection Date: 10/7/2004

Lab ID:

0410071-03A

Date Received: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8	260B			Analyst: LD:
Carbon tetrachloride	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Chlorobenzerie	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
Chlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Chloroethane	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Chloroform	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Chloromethane	υ	1.0		µg/L	1	10/8/2004 4:50:00 AM
cls-1,2-Dichloroethene	9.0	1.0		μg/ <b>L</b>	1	10/8/2004 4:50:00 AM
cis-1,3-Dichloropropene	υ	1.0		µg/L	1	10/8/2004 4:50:00 AM
Dibromochloromethane	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
Dibromomethane	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Dichlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Diisopropyl ether	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
Ethanol	. U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Ethyl acetate	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Ethylbenzene	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
Freon-114	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Hexachlorobutadiene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Isopropyl acetate	υ	1.0		µg/L	1	10/8/2004 4:50:00 AM
Isopropylbenzene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
m,p-Xylene	U	2.0		μg/L	1	10/8/2004 4:50:00 AM
Methyl tert-butyl ether	บ	1.0		μg/L	1	10/8/2004 4:50:00 AM
Methylene chloride	14	1.0	В	μg/L	1	10/8/2004 4:50:00 AM
Naphthalene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
n-Butyl acetate	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
n-Butylbenzene	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
n-Propyl acetate	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
n-Propylbenzene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
o-Xylene	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
p-Diethylbenzene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
p-Ethyltoluene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
sec-Butylbenzene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Styrene	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
t-Butyl alcohol	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
tert-Butylbenzene	U	1.0		μg/L	1	10/8/2004 4:50:00 AM
Tetrachloroethene	6.8	1.0		μg/L	1	10/8/2004 4:50:00 AM
Toluene	υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
trans-1,2-Dichloroethene	. υ	1.0		μg/L	1	10/8/2004 4:50:00 AM
trans-1,3-Dichloropropene	Ū	1,0		μg/L	1	10/8/2004 4:50:00 AM
Trichloroethene	2.6	1.0		μg/L	1	10/8/2004 4:50:00 AM
Trichlorofluoromethane	U	1.0		μg/L	1	10/8/2004 4:50:00 AM

- Value exceeds Maximum Contaminant Level
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit

Date: 12-Oct-04

CLIENT:

J.R. Holzmacher P.E. LLC

Client Sample ID: MW-3

Lab Order:

0410071

Tag Number: 3375

Project:

River Plaza Tarrytown, N.Y.

Collection Date: 10/7/2004

Lab ID:

0410071-03A

Date Received: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	10/8/2004 4:50:00 AM
Vinyl chloride	12	1.0	µg/L	1	10/8/2004 4:50:00 AM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: J.R. Holzmacher P.E. LLC

0410071

Project: River Plaza Tarrytown, N.Y.

Lab ID:

Lab Order:

0410071-04A

Date Received: 10/7/2004

Client Sample ID: MW-4

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Date: 12-Oct-04

Analyses	Result	Limit Qu	ial Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	 В		Analyst: LDS
1,1,1,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,1,1-Trichloroethane	IJ	1,0	μg/L	1	10/8/2004 5:22:00 AM
1,1,2,2-Tetrachloroethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,1,2-Trichloroethane	IJ	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,1-Dichloroethane	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,1-Dichloroethene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,1-Dichloropropene	υ	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,2,3-Trichlorobenzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2,3-Trichloropropane	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,2,4,5-Tetramethylbenzene	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,2,4-Trichlorobenzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2,4-Trimethylbenzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2-Dibromo-3-chloropropane	IJ	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,2-Dibromoethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2-Dichlorobenzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2-Dichloroethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,3,5-Trimethylbenzene	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,3-Dichlorobenzene	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
1,3-dichloropropane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
1,4-Dichlorobenzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
2,2-Dichloropropane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
2-Butanone	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
2-Chloroethyl vinyl ether	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
2-Chlorotoluene	υ	1.0	μg/L	1	10/8/2004 5:22:00 AM
2-Hexanone	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
4-Chlorotoluene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
4-Isopropyltoluene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
4-Methyl-2-pentanone	U	1.0	μg/∟ ·	1	10/8/2004 5:22:00 AM
Acetone	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
Acrolein	υ	1.0	μg/L	1	10/8/2004 5:22:00 AM
Acrylonitrile	U	1.0	µg/L	1	10/8/2004 5:22:00 AM
Benzene	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
Bromobenzene	Ū	1.0	µg/L	1	10/8/2004 5:22:00 AM
Bromochloromethane	Ū	1.0	μg/L	1	10/8/2004 5:22:00 AM
Bromodichloromethane	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
Bromoform	U	1.0	µg/L	1	· 10/8/2004 5:22:00 AM
Bromomethane	Ü	1.0	μg/L	1	10/8/2004 5:22:00 AM
Carbon disulfide	Ü	1.0	µg/L	1	10/8/2004 5:22:00 AM

- Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

CLIENT: J.R. Holzmacher P.E. LLC

Lab Order: 0410071

Project:

River Plaza Tarrytown, N.Y.

Lab ID: 0410071-04A Date Received: 10/7/2004

Date: 12-Oct-04

Client Sample ID: MW-4

Tag Number: 3375

Collection Date: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW82	260B			Analyst: LDS
Carbon tetrachloride	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Chlorobenzene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Chlorodifluoromethane	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Chloroethane	. U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Chloroform	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Chloromethane	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
cls-1,2-Dichloroethene	U	1.0		µg/L	1	10/8/2004 5:22:00 AM
cis-1,3-Dichloropropene	U	1.0		µg/L	1	10/8/2004 5:22:00 AM
Dibromochloromethane	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Dibromomethane	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Dichlorodifluoromethane	U	1.0		µg/L	1	10/8/2004 5:22:00 AM
Diisopropyl ether	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Ethanol	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Ethyl acetate	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Ethylbenzene	υ	1.0		µg/L	1	10/8/2004 5:22:00 AM
Freon-114	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Hexachlorobutadiene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Isopropyl acetate	U	1.0		µg/L	. 1	10/8/2004 5:22:00 AM
Isopropylbenzene.	U	1.0		μg/L .	1	10/8/2004 5:22:00 AM
m,p-Xylene	U	2.0		μg/L	1	10/8/2004 5:22:00 AM
Methyl tert-butyl ether	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Methylene chloride	15	1.0	В	μg/L	1	10/8/2004 5:22:00 AM
Naphthalene	U	1.0		μg/L·	1	10/8/2004 5:22:00 AM
n-Butyl acetate	U	1.0		µg/L	1	10/8/2004 5:22:00 AM
n-Butylbenzene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
n-Propyl acetate	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
n-Propylbenzene	Ū	1.0		μg/L	1	10/8/2004 5:22:00 AM
o-Xylene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
p-Diethylbenzene	บ	1.0		μg/L	1	10/8/2004 5:22:00 AM
p-Ethyltoluene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
sec-Butylbenzene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Styrene	U	1.0		μg/L	√1	10/8/2004 5:22:00 AM
t-Butyl alcohol	ប	1.0		μg/L	1	10/8/2004 5:22:00 AM
tert-Butylbenzene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Tetrachloroethene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Toluene	U.	1.0		μg/L	1	10/8/2004 5:22:00 AM
trans-1,2-Dichloroethene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
trans-1,3-Dichloropropene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Trichloroethene	U	1.0		μg/L	1	10/8/2004 5:22:00 AM
Trichlorofluoromethane	บ	1.0		μg/L	1	10/8/2004 5:22:00 AM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Date: 12-Oct-04

CLIENT:

J.R. Holzmacher P.E. LLC

Client Sample ID: MW-4

Lab Order:

0410071

Tag Number: 3375

Project:

River Plaza Tarrytown, N.Y.

Collection Date: 10/7/2004

Lab ID:

0410071-04A

Date Received: 10/7/2004

Matrix: LIQUID

Analyses	Result	Limit Qı	ıal Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		SW8260	В		Analyst: LDS
Vinyl acetate	U	1.0	μg/L	1	10/8/2004 5:22:00 AM
Vinyl chloride	U	1.0	μg/L	1	10/8/2004 5:22:00 AM

- Value exceeds Maximum Contaminant Level
- Value above quantitation range
- Analyte detected below quantitation limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit