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GROUNDWATER MONITORING REPORT
October 2003 Sampling Event
Former Nello Teer Quarry
5013 Denfield Street
Durham, North Carolina

Prepared for:
Hanson Aggregates
2300 Gateway Centre Blvd.
Morrisville, North Carolina 27560

DEC - 1 2003

Prepared by:
Quantum Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

November 2003

Quantum Project No. 0013-94-012

Quantum

Semi-Annual Groundwater Monitoring Report
Nello Teer Quarry
5013 Denfield Street
Durham, North Carolina
Durham County
Groundwater Incident #9357

Date of Report: November 26, 2003

Site Priority Ranking: 110B

Responsible Party: Nello Teer Company
5013 Denfield Street
Durham, NC 27560
(919) 477-2413

Current Owner: Hanson Aggregates
2300 Gateway Centre
Morrisville, NC 27560
(919) 380-2600

Consultant: Quantum Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Release Information:

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gas station on-site with multiple UST nests. Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT).

Latitude: **36° 3.45' North** **Longitude:** **78° 53.10' West**

Thomas Davis, L.G.
Project Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1100 GEOLOGIST THOMAS W DAVIS
11/26/03

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1.0 Background

On October 16, 17 and 20, 2003, Quantum Environmental, Inc. (Quantum) personnel conducted groundwater-sampling activities from selected monitoring and recovery wells at the former Nello Teer (Teer) Quarry yard in Durham, North Carolina. This was done in accordance with the active remediation Corrective Action Plan (CAP) submitted to the North Carolina Department of Environment, Health and Natural Resources (DEHNR), Raleigh Regional Office in 1995. This report presents the sampling methodologies, groundwater flow directions, current extent of contamination, analytical results provided by Environmental Science Corporation (ESC), and recommendations. This sampling was conducted to define the contaminant plumes and assess the progress of the site cleanup.

1.1 Site Location and History

The Nello Teer Quarry is an inactive aggregate mining and processing facility located on Denfield Street (State Road 1641) in Durham County, North Carolina (Figure 1). The property has been in operation as a crushed stone quarry and asphalt plant since the 1940s; however, at this time it is used for aggregate staging and equipment maintenance only, with no active mining operations occurring. Groundwater contamination found in a water supply well designated W-1 prompted the issuance of a Notice of Violation from the North Carolina Division of Environmental Management (NCDEM) under the North Carolina Groundwater Standards (15 NCAC 2L) in November, 1993.

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gasoline station on-site (multiple UST nests). Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt-testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT). A Comprehensive Site Assessment Report, submitted by Geonetics, Inc. in 1993 apparently indicated a large volume of contaminated soil existed at the site; however, many of Geonetics conclusions were based on field organic vapor analyzer results only and were not confirmed with laboratory analysis of soil samples.

Quantum submitted a revised Corrective Action Plan (CAP) for soil and groundwater remediation along with applications for a permit to land apply hydrocarbon-contaminated soils and a discharge permit (NPDES) for treated groundwater. The permits were both issued and the land application of contaminated soil was completed in 1997. Quantum completed construction and started the groundwater remediation system in October 1997. To date over 12 million gallons of groundwater have been recovered and successfully treated by this remediation system. Figure 2 illustrates the locations of all monitoring and recovery wells at the site.

During the week of February 17, 2003 a Hydrogen Release Compound (HRC®) pilot study injection event took place in a 40-foot by 40-foot grid centered on MW-29 and MW-29i (Figure 3). This pilot study was conducted to determine the effects of injecting this material into the subsurface to treat the chlorinated solvent plume present in this area. 3000 pounds of HRC® were injected into the subsurface through a total of 25 injection points. Approximately half of the injection points were 33 feet deep and the remaining injection points were 18 feet deep. Since the injection event, recovery wells RW-5, 6, 7 and 9 have not operated (except to collect samples), to maximize the effects of the HRC® on the aquifer. Quantum has continued to monitor MW-18, 25, 25i, 29, 29i and RW-5 according to the monitoring schedule established during the permitting of the HRC® injection event. This additional sampling will allow Quantum to closely monitor the responses of the contaminants present in the aquifer to the addition of HRC®.

On September 9, 2003 groundwater recovery and treatment was temporarily suspended. This was done to eliminate the potential for failing the required chronic-toxicity testing of the remediation system effluent. After considerable evaluation of the operation and design of the remediation system as well as consideration of other possible discharge alternatives, Quantum determined that the only way to ensure no further problems with the chronic-toxicity testing was to cease operation of the system.

Currently, Quantum anticipates resuming operation of recovery wells RW-3, RW-8 and RW-10 in the near future. These recovery wells are located in the petroleum plume. Operation of these wells, as well as the recently installed soil vapor extraction system (SVE) located in the vicinity of the former service station, should accelerate the remediation of the limited remaining petroleum contamination at the site (Figure 4). This SVE, when operational, is intended to address the BTEX and naphthalene contaminated soil in the vicinity of the former USTs. Sixteen vapor recovery wells were installed to depths of 20 feet. A new groundwater recovery well (RW-10) was also installed in the former tank pit to depress the water table in this area facilitating operation of the SVE. Construction records for the new vapor wells and the new groundwater recovery well are included in Appendix A.

In addition, Quantum intends to prepare a natural attenuation CAP to address the remaining solvent-contaminated groundwater at the site.

Presently eight monitoring wells for the shallow (water table) aquifer and eight monitoring wells for the deep (semi-confined) aquifer exist at the site. Shallow monitoring wells MW-25i, 29, and 29i were installed in 2002 to monitor the affects of the HRC® pilot study injection event. Deep monitoring well MW-28D was also installed prior to the injection event. There are also ten recovery wells at the site. Five recovery wells are located near the old gasoline station on the southern portion of the site (RW-2, 3, 4, 8, and now 10), four are located at the site of the old asphalt plant on the northern portion of the site (RW-5, 6, 7, and 9), and one deep recovery well is located between the two source areas (RW-1).

A Well Location Map is presented as Figure 2. All of the monitoring and recovery wells except RW-2, 4 and 10 were sampled during this event. None of these recovery wells was operational at the time of the sampling event.

2.0 Groundwater Sampling Methodology

Prior to collecting groundwater samples, water levels were measured in all monitoring wells using an electronic water level meter. The expansion plugs were removed from each well and enough time was allowed before collecting the measurements to permit the water level in the monitoring wells to equilibrate with the ambient atmospheric pressure. The measurements were collected to an accuracy of 0.01 feet and recorded in the field logbook.

In order to prevent cross contamination from one well to another while collecting water levels, Quantum personnel donned new, clean, non-reactive gloves prior to measuring each well. The electronic water level meter probe and tape were decontaminated following EPA protocol prior to collecting measurements from each well. Water level data from all wells gauged are presented in Table 1.

All monitoring wells sampled were purged by removing at least three well volumes of groundwater, or until the wells went dry, using new disposable bailers and new nylon rope. MW-20D, MW-28D and MW-13 were purged and sampled using a cleaned Grundfos RediFlo 2 pump and new tubing. After allowing groundwater levels to equilibrate to or near static water levels after purging, water samples were collected from the following wells:

Shallow: MW-7, MW-17, MW-18, MW-25, MW-25i, MW-26, MW-29 and MW-29i
Recovery wells RW-5, RW-6 and RW-7

Deep: MW-1, MW-9, MW-11, MW-13, MW-15I, MW-20D and MW-23
Recovery wells RW-1, RW-3, RW-8 and RW-9

The samples were placed in labeled, laboratory prepared containers, stored on ice in a cooler, and transported under Chain of Custody to ESC, a North Carolina certified laboratory. The samples were submitted for analysis using EPA Methods 601, 602, and 610, where appropriate. A copy of the Chain of Custody is included in Appendix B.

3.0 Sampling Results

Potentiometric data collected from the monitoring wells indicates that groundwater flow direction for the shallow aquifer is to the south with an average hydraulic gradient of 0.023

ft/ft. The groundwater flow direction for the deep aquifer was determined to be to the northwest with an average hydraulic gradient of 0.033 ft/ft. Table 1 presents a summary of the water level data from the latest sampling event. Figures 5 and 6 present potentiometric surface maps of the shallow and deep aquifers, respectively. Unlike during previous sampling events, no groundwater recovery wells were functioning at the time these water levels were collected. Water level measurements were collected while some, if not all, recovery wells were operating during previous sampling events.

3.1 Discussion of Sampling Results, Chlorinated VOCs

Laboratory analytical results from the latest semi-annual sampling event continue to indicate that levels of chlorinated hydrocarbons detected in the groundwater monitoring wells vary across the site. Significant decreases in several chlorinated compounds were noted in response to the HRC® injection event pilot study, as evidenced by the reductions in 1,1-dichloroethene, 1,1,1-trichloroethane and trichloroethene observed in MW-25, MW-25i, MW-28d, RW-5 and RW-9 since the injection event the week of February 17, 2003. In addition, the samples from some wells yielded increases in some compounds, as should be expected following an injection of HRC® and subsequent breakdown of more complex CVOCs into daughter compounds. Wells MW-25, MW-25i, MW-29i, and RW-5 had increases in vinyl chloride and chloroethane content. RW-9 experienced a decrease in vinyl chloride content and an increase in chloroethane content.

Monitoring wells MW-11 and MW-13 both continue to show no chlorinated VOCs (CVOCs) above their State standards. Monitoring well MW-17 experienced a significant decrease in vinyl chloride content, and MW-18 has not contained any detectable compounds above State standards since June 2002. Deep well MW-20D has experienced little change in total CVOC content since December 1997. MW-26 experienced a significant decrease in total CVOC content prior to 1995 and since June 2000 has not contained any CVOC compounds above their respective 2L Standards.

Similarly, the concentrations of CVOCs in the recovery wells continue to vary across the site. Significant variations in CVOC content were noted in RW-5 and RW-9 since the HRC® injection event as discussed above. RW-6 and RW-7 have experienced increases in total CVOC content since the injection event, but the increases in concentrations of some compounds coincides with decreasing concentration of other compounds as a result of the HRC® injection event.

Summaries of the current laboratory analytical results for the shallow and deep aquifers are presented in Tables 2 and Table 3, respectively. Figure 8 is the vinyl chloride isoconcentration map for the shallow aquifer. Figures 9 and 10 are the trichloroethene and 1,1-dichloroethene concentration maps, respectively, for the site. Table 4 provides the complete historical monitoring well data from 1993 through the current monitoring period,

and Table 5 is a compilation of the analytical results for the recovery wells at the site. Overall, sampling results from the site indicate the gradual decrease in groundwater concentrations. This historic data has been plotted in a series of groundwater concentration versus time graphs illustrating the decrease in groundwater concentrations for representative monitoring wells at the site. These graphs are presented as Appendix C.

3.2 Discussion of Sampling Results, Petroleum Hydrocarbons

Laboratory analytical results from the October 2003 semi-annual sampling event indicate that levels of petroleum hydrocarbons detected in the groundwater monitoring wells also vary across the site.

MW-20D contained no compounds above State 2L Standards while MW-23 experienced decrease in benzene and IPE content following increases in these compounds in the last event. MW-15i continues to show no evidence of petroleum compounds above the State 2L Standards. Recovery well RW-1 was found to contain benzene above the 2L Standards. This is the first time any petroleum compound was detected above 2L Standards since June 2000. Recovery well RW-2 was not sampled during the latest sampling event, but it has not contained any petroleum compounds above 2L Standards since January 2001, and only one compound has been detected above 2L Standards since 1994. Recovery well RW-3 was found to contain several petroleum compounds, including benzene, ethylbenzene, naphthalene, 1-, and 2- methylnaphthalene above State standards (there is no standard for 1-methylnaphthalene, thus no detectable concentration is allowed). Recovery well RW-4 was not sampled during the latest sampling event. Recovery wells RW-5, 6 and 7 did not contain any petroleum compounds. RW-8 contained benzene, naphthalene, and 1-, and 2- methylnaphthalene above 2L Standards. RW-9 did not contain any detectable concentrations of petroleum compounds. Several wells were determined to contain chloroform above State Standards, but since this compound has not been detected previously at the site, this is viewed as a laboratory contaminant and is likely not indicative of actual site conditions.

A concentration map for benzene in groundwater can be found in Figure 7.

4.0 Remedial System Operation Summary

Operation of the remediation system continued without significant interruption until the system was shut-down on September 8, 2003. A variety of scheduled and non-scheduled maintenance activities were performed on the system during the period of operation, including filter replacements (bi-weekly on average), and replacement and troubleshooting

of various other remedial system items and components. A carbon change-out and air stripper cleaning was also completed in August 2003.

Operation of the remediation system was temporarily suspended in September to eliminate the possibility of failing the required chronic toxicity testing test as stipulated under the existing NPDES permit for the site. This was done after significant evaluation of the system operation and maintenance, the testing requirements, sampling procedures, as well as several wastewater discharge alternatives. It was determined that the only way to eliminate the risk of chronic toxicity test failure was to suspend operation of the system. Currently, Quantum is considering remediation of the solvent plume under a natural attenuation CAP and addressing the petroleum contamination with the SVE system as well as limited recovery of contaminated groundwater using recovery wells RW-3, RW-8 and RW-10. It is anticipated that pumping of these wells exclusively (and not from recovery wells in the chlorinated solvent plume) will likely eliminate the potential for contaminants that might otherwise trigger a chronic-toxicity test failure from entering the treatment system. The system will then operate under a general NPDES permit apprpriate for petroleum contaminated sites (where chronic-toxicity sampling of the system effluent is not relevant).

5.0 Summary and Recommendations

An increase in several petroleum-based groundwater contaminant concentrations (primarily benzene and naphthalene) occurred during the monitoring period. This is possibly due to the temporary cessation of remediation system operation. Operation of the SVE, as well as resumption of groundwater recovery from the wells in the petroleum plume, is expected to greatly assist in the remediation of the petroleum contaminated groundwater at the site.

Concentrations of chlorinated hydrocarbon compounds have varied significantly since the HRC® pilot study was conducted in February 2003. This variation may continue for some time, but the net effect is expected to be a marked decrease in total CVOC concentrations as the HRC® continues to degrade the CVOCs present in the area of the injection event.

Based on the results of the current semi-annual sampling event, Quantum recommends that recovery and treatment of petroleum contaminated groundwater resume when a general NPDES permit is obtained. In addition, operation of the SVE system is a priority also. Both of these tasks should continue until concentrations of petroleum compounds reach acceptable concentrations.

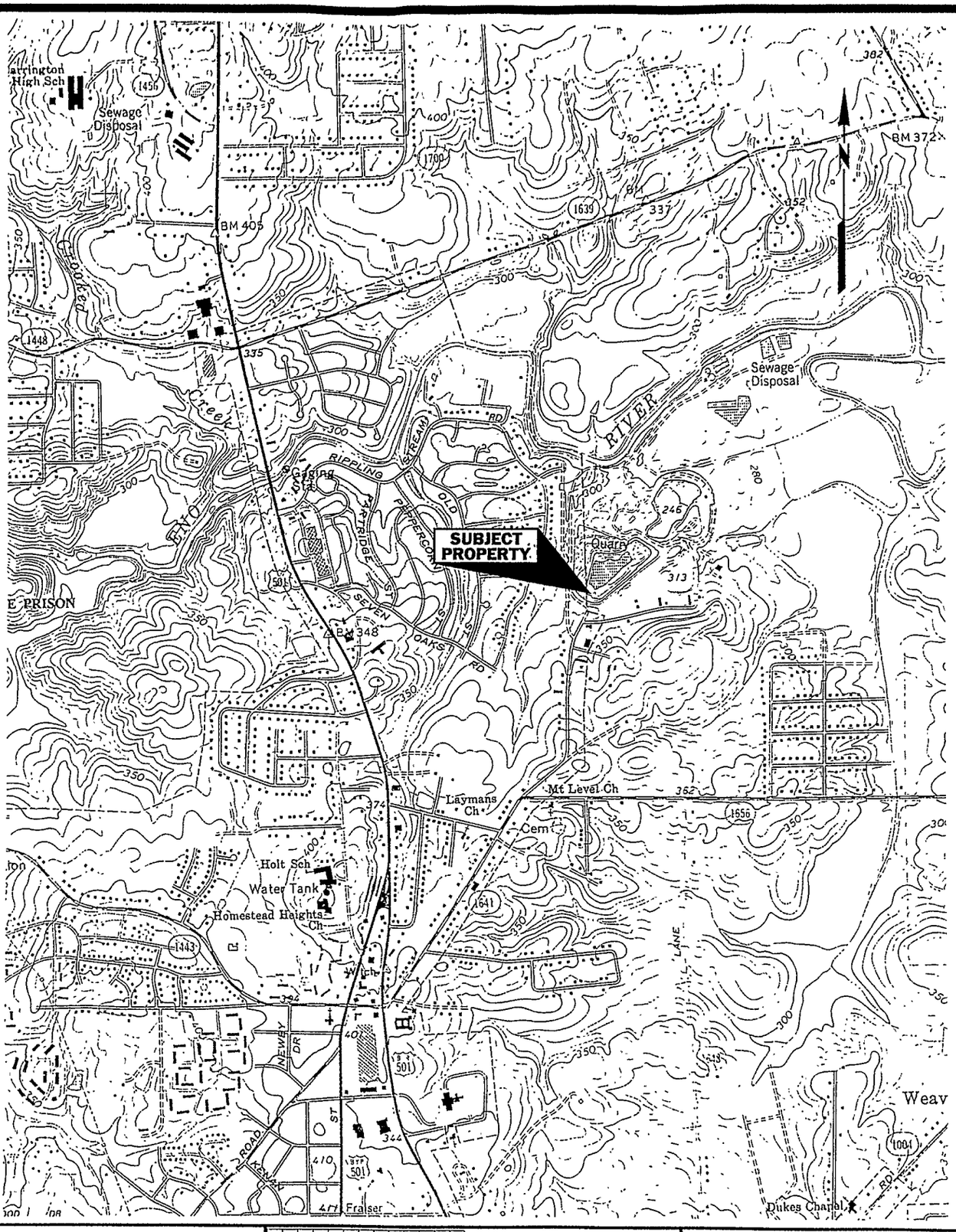
As groundwater recovery in the shallow portions of the chlorinated plume is low, the cost of maintenance of the system is fairly high, and the potential to fail required chronic-toxicity

tests is significant, Quantum is pursuing a natural attenuation CAP for the remediation of the chlorinated solvent plume.

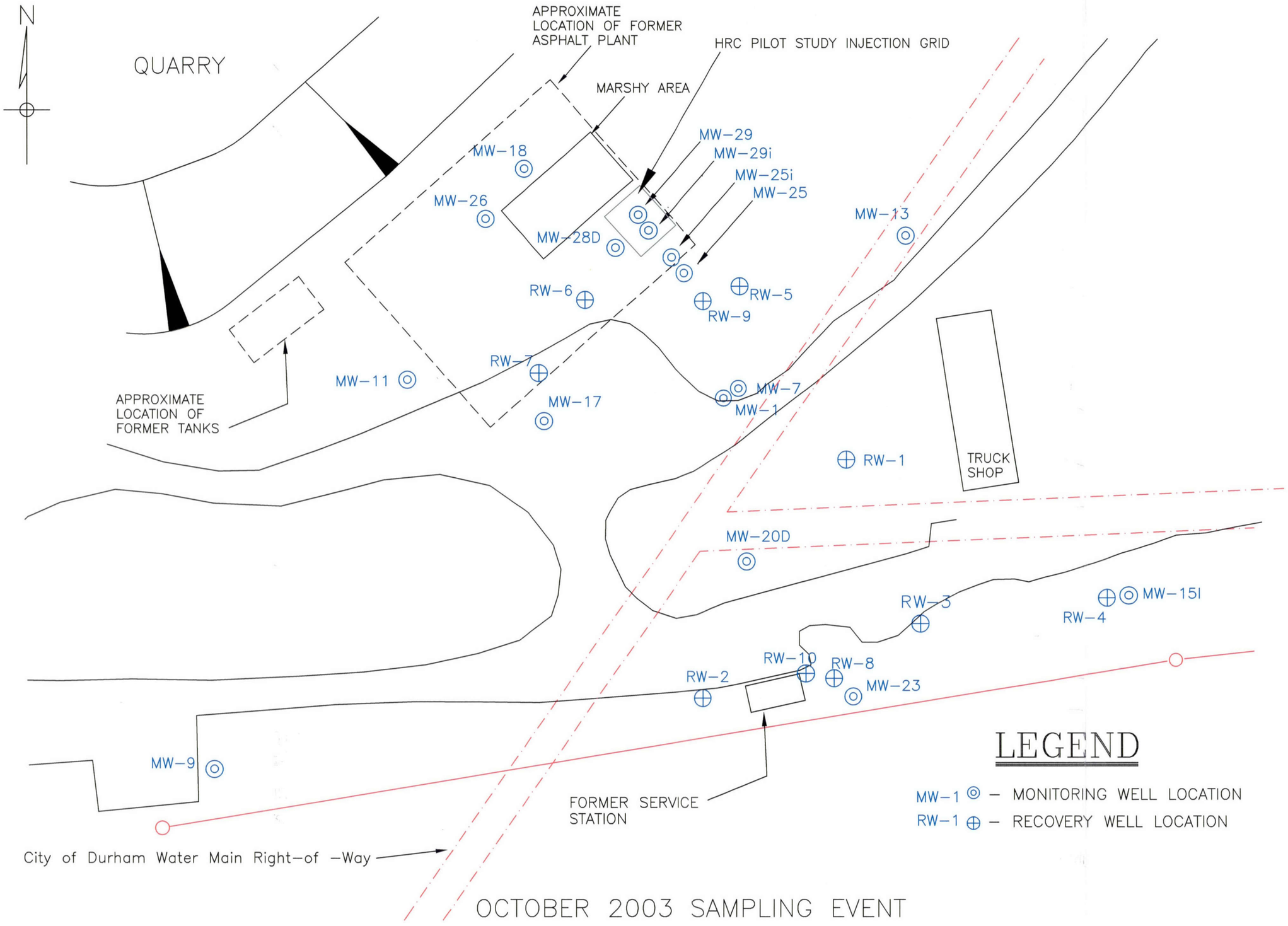
While an amended and more reasonable cleanup goal has been established for the petroleum plume area, no such amended remedial goals exist for the chlorinated contaminant plume area. At the present time, Groundwater Section policy mandates that the 2L Standards must be attained in order to achieve closure.

Figures

Figures



Site Location Map **Nello Teer Quarry** **5013 Denfield St.** **Durham, NC** Ref: NW Durham Quadrangle	**Quantum** Environmental, Inc. 6001 Chapel Hill Road, Suite 108 Raleigh, NC 27607 Phone: (919) 852-3595 Fax: (919) 852-1997	**FIGURE 1** **SCALE: 1" = 2000'** **Proj. No.: 0013-94-012**



OCTOBER 2003 SAMPLING EVENT

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Raleigh North Carolina 27607
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FIGURE 2

WELL LOCATION MAP
NELLO L. TEER
DURHAM QUARRY

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Project No.
0013-94-012
SCALE: 1"= 75'

DWN / DATE	CHK / DATE	CLIENT APPROVAL / DATE
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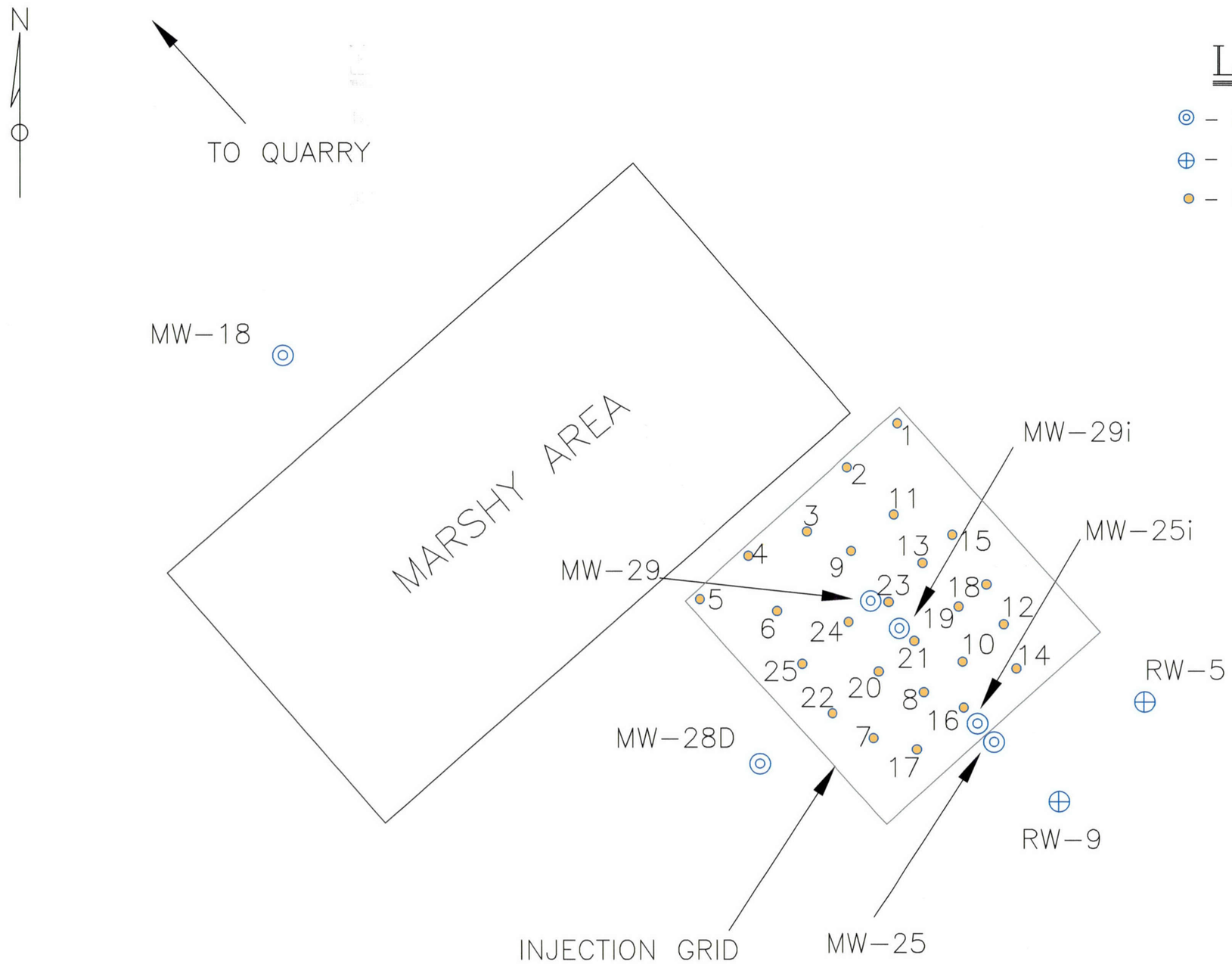

LEGEND

- ◎ – MONITORING WELL LOCATION
- ⊕ – RECOVERY WELL LOCATION
- ● – HRC INJECTION WELL LOCATION

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FIGURE 3

HRC PILOT STUDY INJECTION GRID
NELLO L. TEER
DURHAM QUARRY

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0013-94-012

SCALE: 1"= 16'

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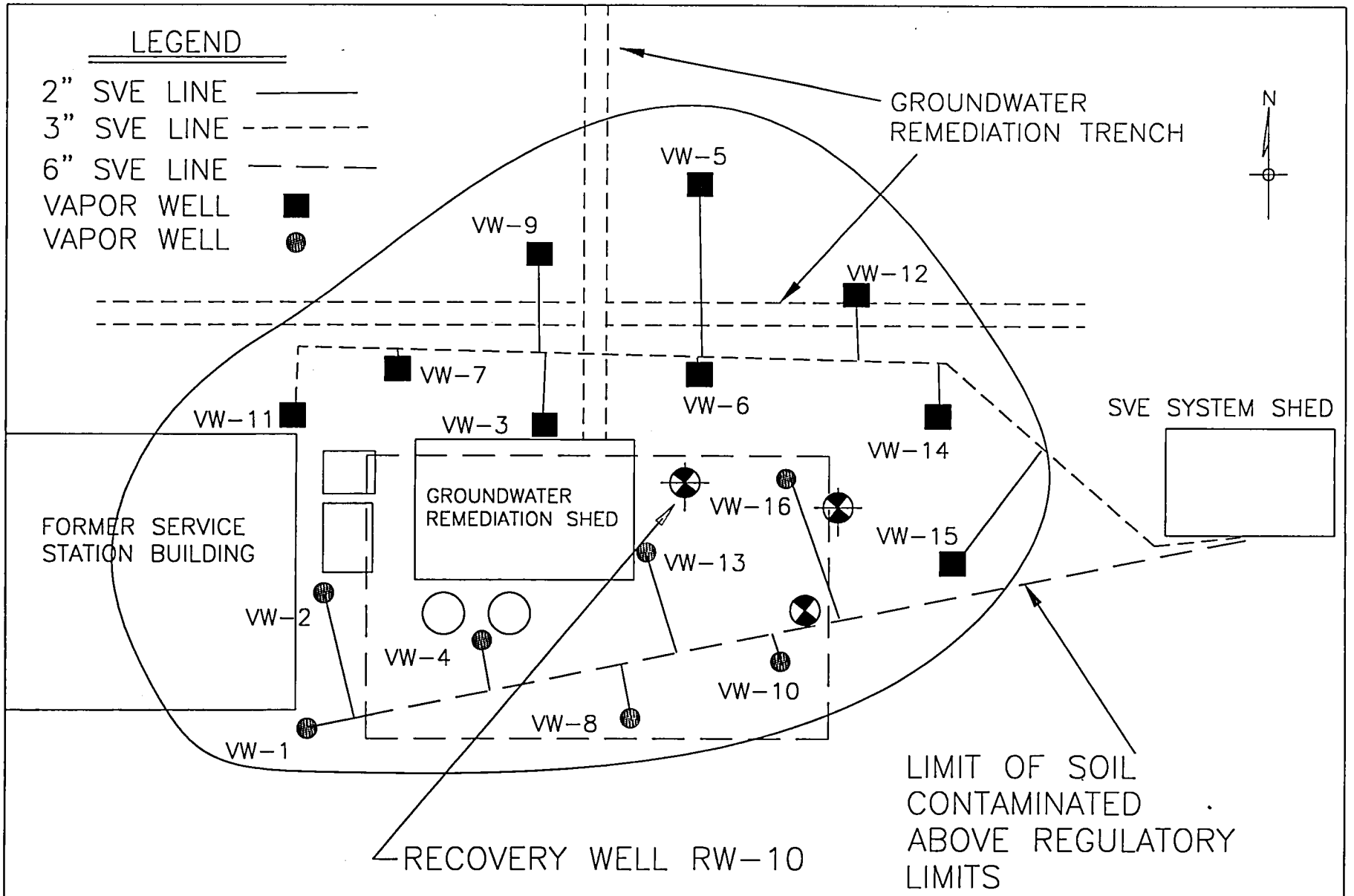

SOIL VAPOR EXTRACTION SYSTEM

FORMER NELLO TEER QUARRY

DURHAM, NORTH CAROLINA

Quantum ENVIRONMENTAL, INC.
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Raleigh, North Carolina 27607
Phone: 919.852.3595 Fax: 919.852.1997

FIGURE 4

SCALE: 1" = 10'

PROJECT NO. 0013-94-012 REV 1

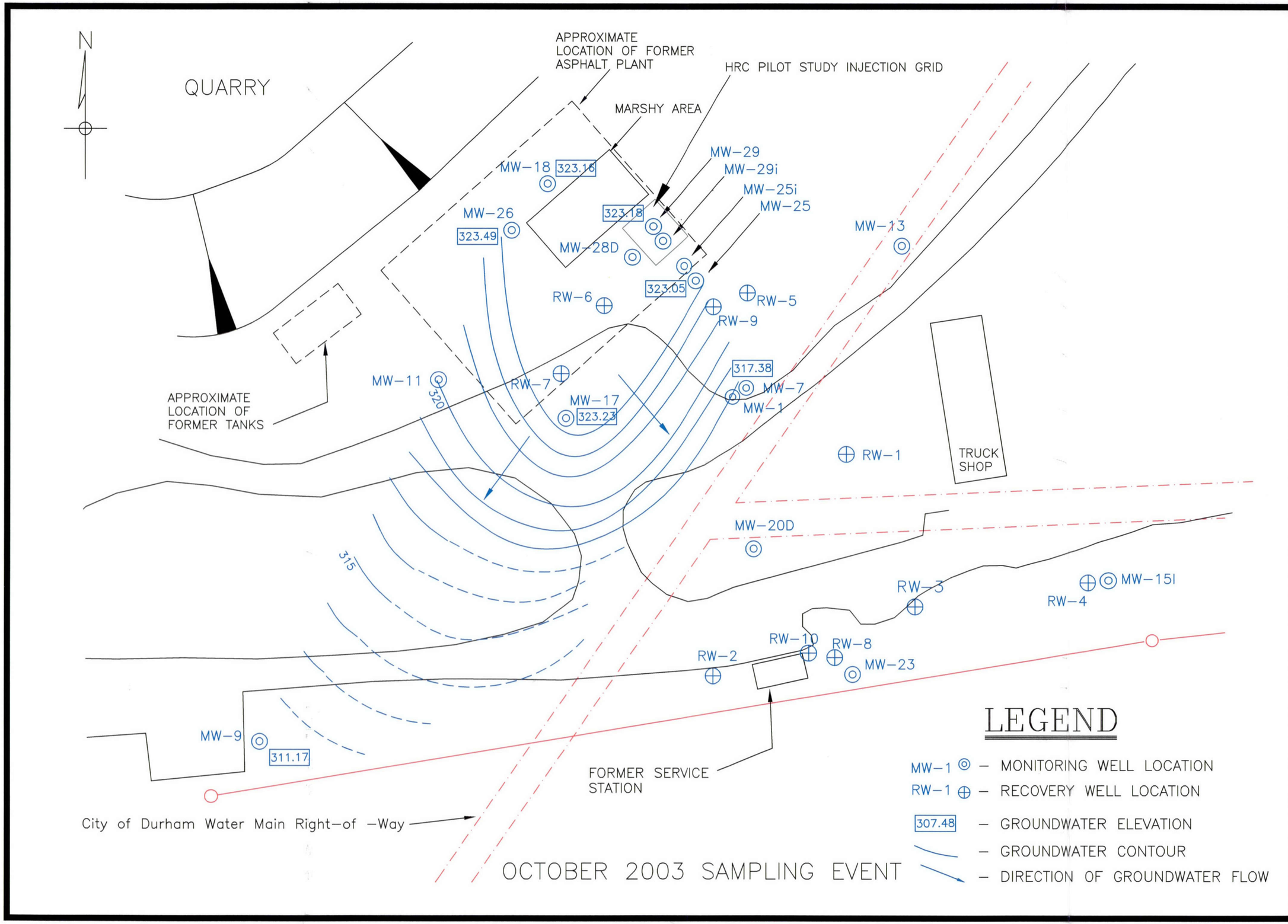

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FIGURE 5

SHALLOW AQUIFER POTENTIOMETRIC MAP
NELLO L. TEER
DURHAM QUARRY

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0013-94-012
SCALE: 1"= 75'

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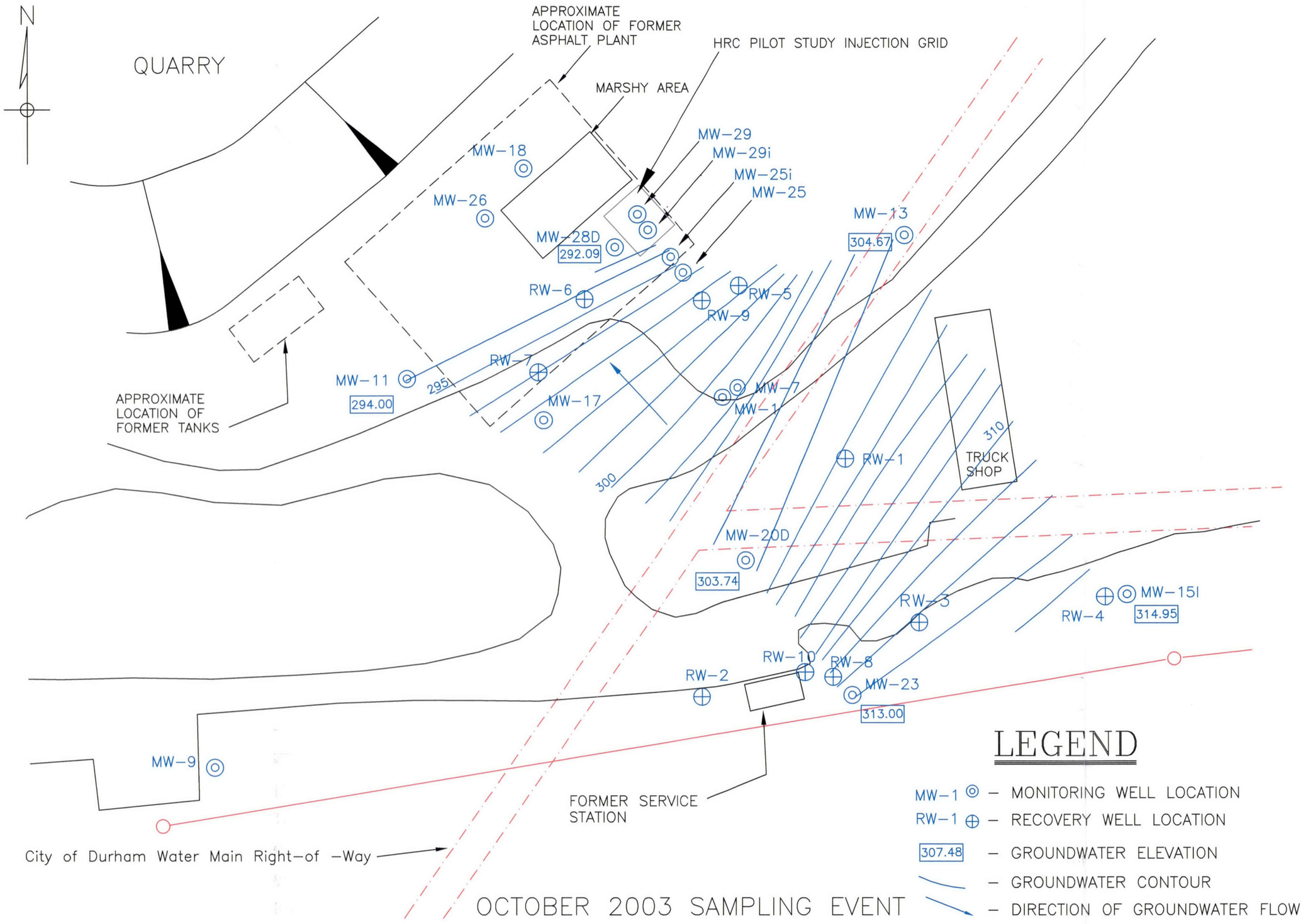

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FIGURE 6

DEEP AQUIFER POTENTIOMETRIC MAP
NELLO L. TEER
DURHAM QUARRY

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SCALE: 1"= 75'

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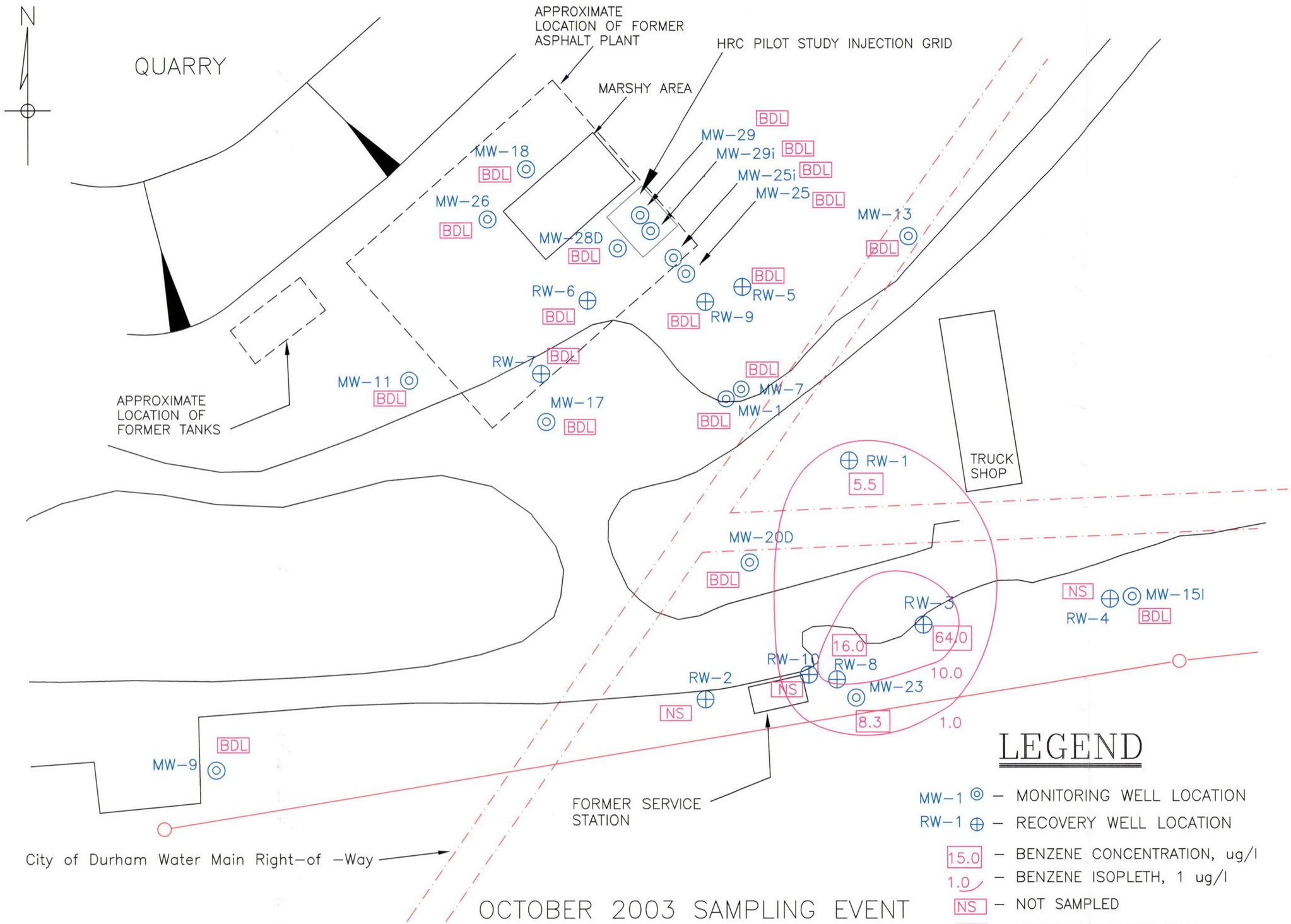

OCTOBER 2003 SAMPLING EVENT

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FIGURE 7

OCTOBER 2003
BENZENE PLUME
NELLO L. TEER
DURHAM QUARRY

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0013-94-012

SCALE: 1"= 75'

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DATE	DATE	DATE
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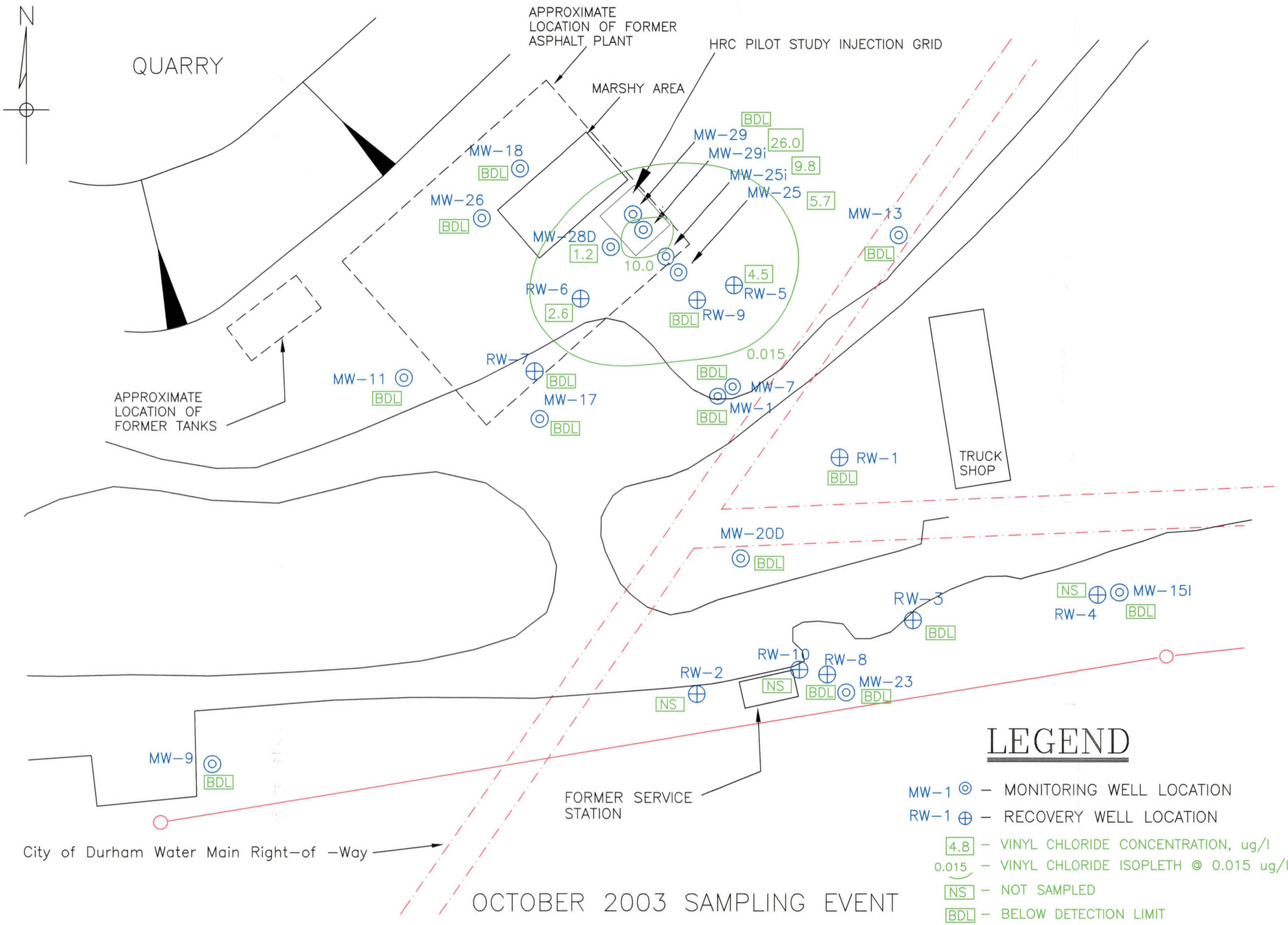

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FIGURE 8

OCTOBER 2003
VINYL CHLORIDE PLUME
NELLO L. TEER
DURHAM QUARRY

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SCALE: 1"= 75'

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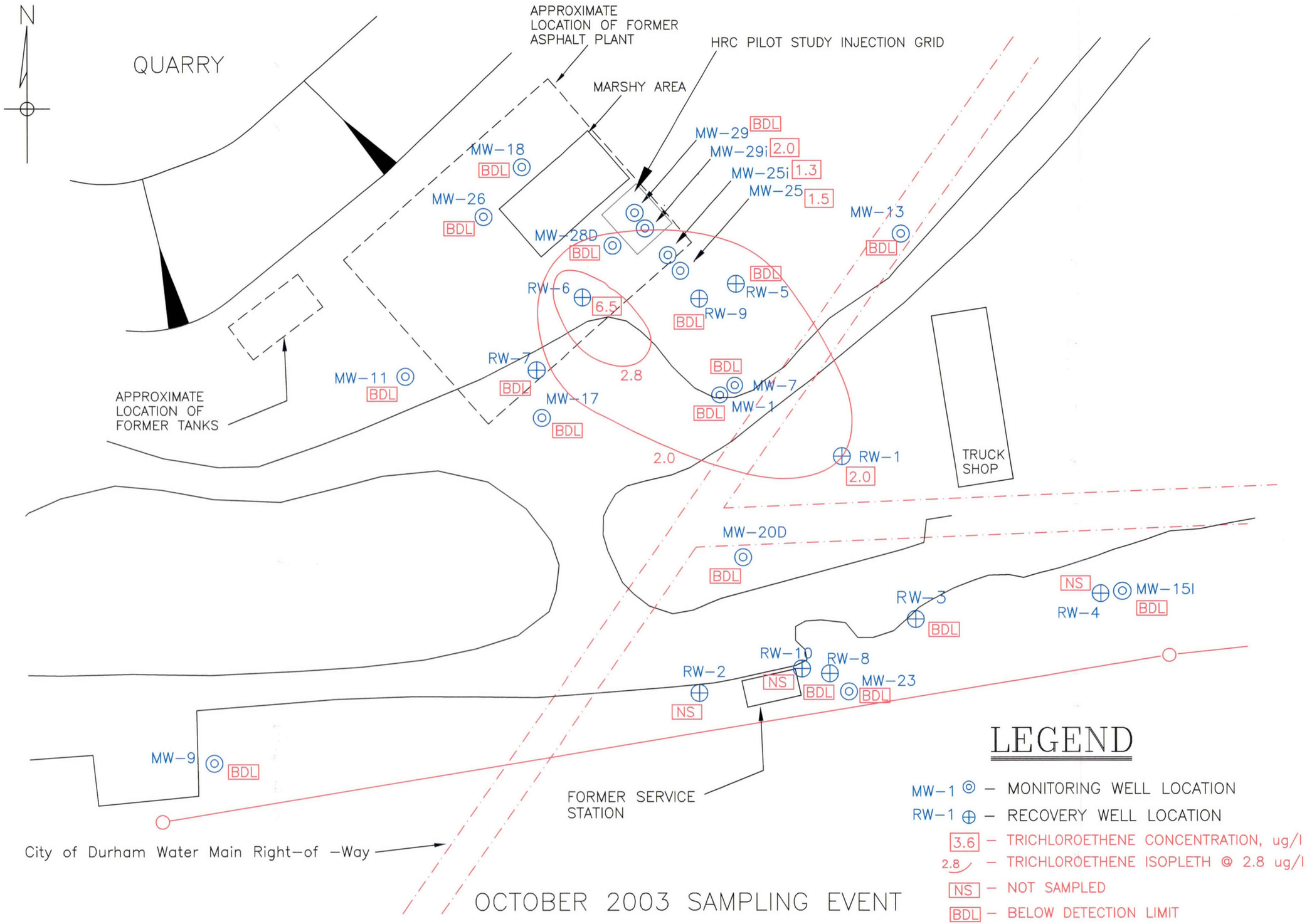

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FIGURE 9

OCTOBER 2003
TRICHLOROETHENE PLUME
NELLO L. TEER
DURHAM QUARRY

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0013-94-012

SCALE: 1"= 75'

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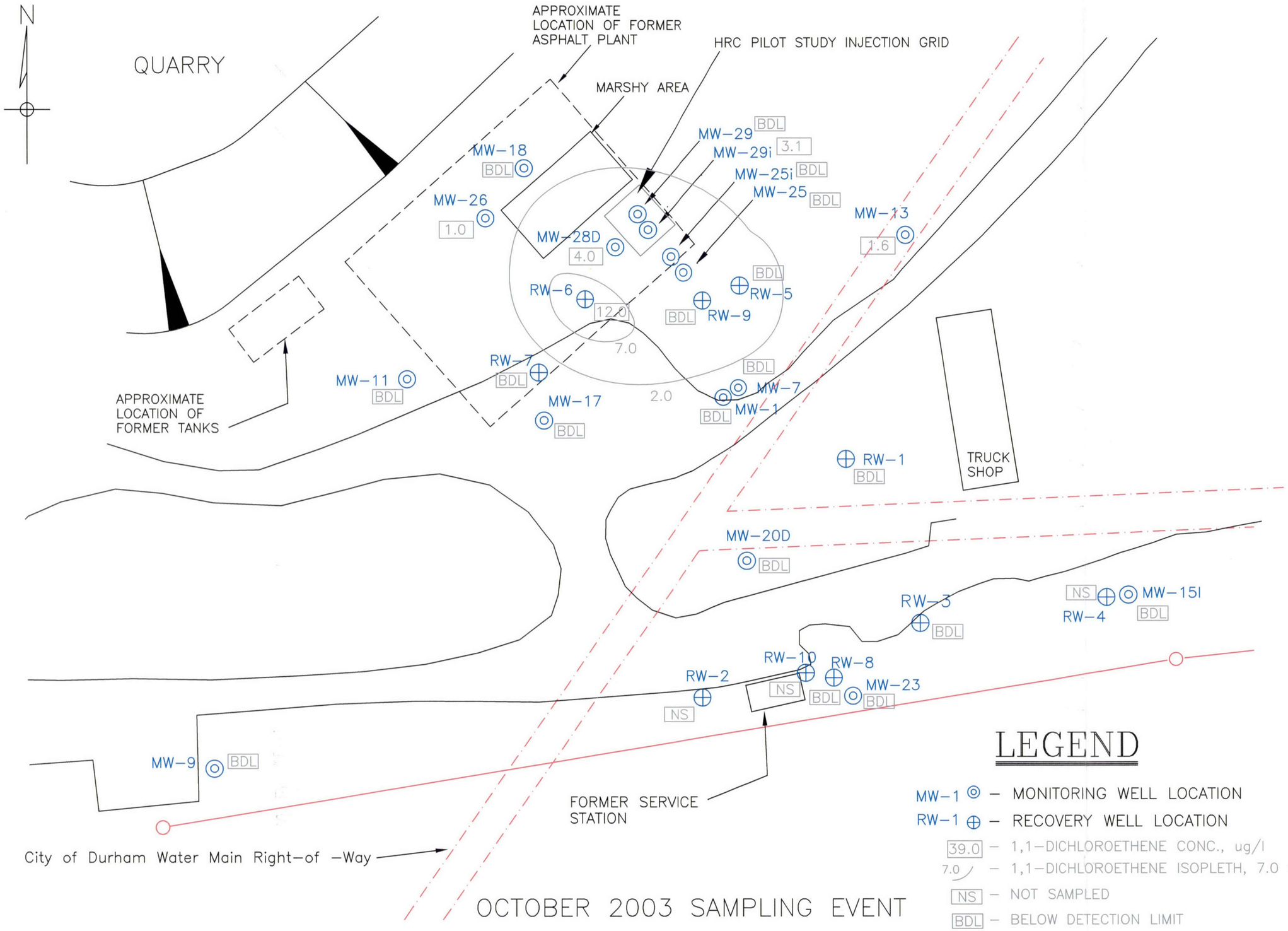

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FIGURE 10

OCTOBER 2003
1,1-DICHLOROETHENE PLUME
NELLO L. TEER
DURHAM QUARRY

Revisions

Project No.
0013-94-012

SCALE: 1"= 75'

DWN / DATE	CHK / DATE	CLIENT APPROVAL / DATE
15 / 97		

Tables

Tables

Table 1. Well and Water Level Data
October 2003 Sampling Event
Nello Teer Quarry, Denfield St.
Durham, North Carolina

Well #	Top of Casing Elevation [a]	Screen Interval [b]	Depth to Water [c]	Water Table Elevation [a]	Purge Volume (Gallons)
MW-1	329.5	20.0 - 35.0	15.25	314.25	10
MW-7	329.26	9.0 - 14.0	11.88	317.38	2
MW-9	333.65	25.0 - 40.0	22.48	311.17	8
MW-11	327.87	35.0 - 50.0	33.87	294.00	8.5
MW-13	326.48	50.0 - 65.0	21.81	304.67	20
MW-15I	329.53	25.0 - 40.5	14.58	314.95	12
MW-17	327.59	2.5 - 12.5	4.36	323.23	4
MW-18	328.43	3.0 - 13.0	5.27	323.16	4
MW-20D	329.58	110.0 - 115.0	25.84	303.74	44
MW-23	331.87	25.0 - 47.0	18.87	313.00	10
MW-25	328.92	4.0 - 14.0	5.87	323.05	4
MW-25i	329.03	18.0 - 33.0	20.86	308.17	4
MW-26	328.92	3.0 - 13.0	5.43	323.49.	4
MW-28D	329.97	85.0 - 90.0	37.88	292.09	27
MW-29	328.89	4.0 - 14.0	5.71	323.18	5
MW-29i	328.74	18.0 - 33.0	6.33	322.41	12

Measurements collected October 13, 2003.

[a] surveyed elevation, referenced to mean sea level
[b] feet below land surface
[c] feet below top of casing

Table 2. Groundwater Sample Results Summary-Shallow Monitoring Wells
October 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-7	MW-17	MW-18	MW-25	MW-25i	MW-26	MW-29	MW-29i	2L LIMITS
Benzene	BDL [a]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.0
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.0
Xylenes (Total)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.0
2-Methylnaphthalene	BDL	NA [b]	BDL	BDL	BDL	BDL	BDL	BDL	14.0
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21/6 [c]
Acenaphthene	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	80.0
Chloroethane	BDL	BDL	BDL	120.0	130	BDL	BDL	25.0	2800.0
Chloroform	BDL	BDL	BDL	**1.0**	BDL	BDL	BDL	**1.0**	0.19
1-Methylnaphthalene	BDL	NA	BDL	BDL	**1.5**	BDL	BDL	**1.9**	NS
1,1-Dichloroethane	BDL	3.1	BDL	68.0	41.0	2.8	BDL	47.0	700.0
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	1.0	BDL	3.1	7.0
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	2.0	BDL	**2.8**	70.0
Trichloroethene	BDL	BDL	BDL	1.5	1.3	BDL	BDL	2.0	2.8
1,1,1-Trichloroethane	BDL	BDL	BDL	4.4	4.4	BDL	BDL	3.7	200.0
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0
Vinyl chloride	BDL	BDL	BDL	**5.7**	**9.8**	BDL	BDL	**26.0**	0.015
Total CVOCs	--	3.1	--	200.6	186.5	5.8	--	110.6	--

All Values in µg/L.

[a] *BDL Indicates Below Detection Limit.*
[b] *NA Indicates Parameter Not Analyzed.*
[c] *Proposed Standard.*
[d] *Bold Text Indicates Concentration in Excess of State Standard.*

Quantum Project No. 0013-94-012

Table 2, cont. **Groundwater Sample Results Summary-Shallow Recovery Wells**
October 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-5	RW-6	RW-7	2L LIMITS
Benzene	BDL [a]	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	1000.0
Ethylbenzene	BDL	BDL	BDL	29.0
Xylenes (Total)	BDL	BDL	BDL	530.0
Naphthalene	BDL	BDL	BDL	21/6 [b]
Bromomethane	BDL	BDL	BDL	1.0
Chloroform	**1.0** [c]	BDL	**1.0**	0.19
Chloroethane	23.0	BDL	BDL	2800.0
1,1-Dichloroethane	26.0	15.0	6.2	700
1,1-Dichloroethene	BDL	**12.0**	BDL	7.0
cis-1,2-Dichloroethene	BDL	3.9	BDL	70.0
Trichloroethene	BDL	**6.5**	BDL	2.80
1,1,1-Trichloroethane	2.6	21.0	BDL	200.0
1,1,2-Trichloroethane	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	0.70
Vinyl Chloride	**4.5**	**2.6**	BDL	0.015
Total CVOCs	57.1	61.0	7.2	--

All Values in µg/L.

[a] *BDL Indicates Below Detection Limit.*
[b] *Proposed Standard.*
[c] *Bold Text Indicates Concentration In Excess of State Standard.*

Quantum Project No. 0013-94-012

Table 3. Groundwater Sample Results Summary-Deep Monitoring Wells
October 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-1	MW-9	MW-11	MW-13	MW-15I	MW-20D	MW-23	MW-28D	2L LIMITS
Benzene	BDL [a]	BDL	BDL	BDL	BDL	BDL	**8.3** [b]	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	1.6	BDL	29.00
Xylenes (Total)	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
DIPE	BDL	BDL	BDL	BDL	BDL	BDL	6.7	BDL	70.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	7.5	BDL	21/6 [c]
Acenaphthene	BDL	BDL	NA [d]	BDL	BDL	BDL	1.6	BDL	80.0
Fluorene	BDL	BDL	NA	BDL	BDL	BDL	2.1	BDL	280.0
1-Methylnaphthalene	BDL	BDL	NA	BDL	BDL	BDL	**17**	BDL	NS
2-Methylnaphthalene	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	14.0
Phenanthrene	BDL	BDL	NA	BDL	BDL	BDL	1.6	BDL	210.0
1,1-Dichloroethane	BDL	BDL	4.9	4.5	BDL	BDL	BDL	9.9	700
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38
1,1-Dichloroethene	BDL	BDL	BDL	1.6	BDL	BDL	BDL	4.0	7.00
cis-1,2-Dichloroethene	BDL	BDL	BDL	1.6	BDL	BDL	BDL	2.9	70.0
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.0
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.2**	0.015
Total CVOCs	--	--	4.9	7.7	--	--	--	18.0	--

All Values in µg/L.
[a] *BDL Indicates Below Detection Limit*
[b] *Bold Text Indicates Concentration In Excess of State Standard.*
[c] *Proposed Standard.*
[d] *NA Indicates Parameter Not Analyzed.*

Quantum Project No. 0013-94-012

Table 3, cont. **Groundwater Sample Results Summary-Deep Recovery Wells**
April 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-1	RW-2	RW-3	RW-4	RW-8	RW-9	2L LIMITS
Benzene	**5.5**	NA [b]	**64**	NA	**16**	BDL	1.0
Toluene	BDL [a]	NA	56	NA	BDL	BDL	1000.0
Ethylbenzene	BDL	NA	**64**	NA	7.9	BDL	29.0
Xylenes (Total)	BDL	NA	137	NA	10	BDL	530.0
DIPE	9.5	NA	38	NA	BDL	BDL	70.0
Fluorene	BDL	NA	BDL	NA	6.2	BDL	280.0
Naphthalene	BDL	NA	**130**	NA	**55**	BDL	21/6 [d]
Phenanthrene	BDL	NA	**270**	NA	9.6	BDL	210.0
Pyrene	BDL	NA	54	NA	1.9	BDL	210.0
Fluoranthene	BDL	NA	23	NA	BDL	BDL	280.0
Benzo (a) anthracene	BDL	NA	**4.5**	NA	BDL	BDL	0.0479
Acenaphthene	BDL	NA	BDL	NA	4.2	BDL	80.0
Acenaphthylene	BDL	NA	BDL	NA	1.3	BDL	210.0
1-Methylnaphthalene	BDL	NA	**110**	NA	**41**	BDL	NS
2-Methylnaphthalene	BDL	NA	**87**	NA	**34**	BDL	14.0
Chloroethane	BDL	NA	BDL	NA	BDL	55	2800.0
Chloroform	BDL	NA	**22**	NA	**22**	**1.0**	0.19
1,1-Dichloroethane	BDL	NA	BDL	NA	BDL	91	700.0
cis-1,2-Dichloroethene	2.2	NA	BDL	NA	BDL	BDL	70.0
Trichloroethene	2.0	NA	BDL	NA	BDL	BDL	2.8
1,1,1-Trichloroethane	BDL	NA	BDL	NA	BDL	2.6	200.0
Vinyl chloride	BDL	NA	BDL	NA	BDL	BDL	0.015
Total CVOCs	4.2	--	22.0	--	22.0	149.6	--

All Values in ug/L.
[a] *BDL Indicates Below Detection Limit*
[b] *NA Indicates Parameter Not Analyzed.*
[c] *Bold Text Indicates Concentration Above State Standard.*
[d] *Proposed Standard.*

Quantum Project No. 0013-94-012

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

W-1

Constituent	Date				2L Standard
	5/7/93	5/7/93	5/20/93	5/20/93	
Benzene	16.00	38.80	34.40	11.30	1.00
Toluene	0.90	1.00	1.80	2.60	1000.00
Ethylbenzene	0.40	1.00	1.00	8.80	29.00
Xylenes	5.10	15.40	17.20	NA	530.00
Naphthalene	NA	NA	2.00	NA	21.00
MTBE	NA	51.60	11.80	BDL	200.00
EDB	NA	NA	BDL	BDL	0.0004
IPE	NA	NA	NA	BDL	0.07
Total PAH	22.40	107.80	68.20	22.70	
1,1-Dichloroethane	NA	0.73	0.73	BDL	700.00
Trichloroethene	NA	4.70	5.04	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	NA	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	5.43	5.77	0.00	
Lead	NA	NA	1.00	NA	15.00

W-2

Constituent	Date	2L Standard
	5/18/93	
Benzene	BDL	1.00
Toluene	BDL	1000 00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total PAH	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0.50	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

W-3

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	0.90	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total PAH	0.90	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0 50	15.00

W-4

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total PAH	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0 00	
Lead	BDL	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

W-5

Constituent	Date			2L Standard
	5/20/93	5/20/93	5/20/93	
Benzene	BDL	BDL	BDL	1.00
Toluene	0.07	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	NA	530.00
Naphthalene	BDL	2.00	NA	21.00
MTBE	BDL	BDL	BDL	200.00
EDB	BDL	1.00	BDL	0.0004
IPE	BDL	NA	BDL	0.07
Total PAH	0.07	3.00	0.00	
1,1-Dichloroethane	BDL	1.00	BDL	700.00
Trichloroethene	BDL	2.10	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	70.00
Vinyl Chloride	BDL	1.00	BDL	0.02
Total CVOCs		4.10	0.00	
Lead	0.20	1.00	BDL	15.00

MW-1

Constituent	Date																2L Standard
	05/20/93	8/29/94	1/26/95	4/27/95	8/29/95	3/14/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	1.00
Toluene	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	21.00
MTBE	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 00	
Lead	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

RW-2 (former MW-2)

Constituent	Date										2L Standard
	05/07/93	05/20/93	08/29/94	08/29/99	06/15/00	01/23/01	06/15/01	12/28/01	06/06/02	06/06/02	
Benzene	575.00	353.00	95.00	6.80	BDL	1.60	NS	BDL	BDL	BDL	1.00
Toluene	1,160.00	418.00	19.00	BDL	1.70	BDL	NS	BDL	BDL	BDL	1000.00
Ethylbenzene	84.40	BDL	62.00	BDL	1.00	2.40	NS	BDL	BDL	BDL	29.00
Xylenes	1,425.00	106.00	61.00	BDL	13.00	1.10	NS	BDL	BDL	BDL	530.00
Naphthalene	NA	NA	2.78	BDL	BDL	BDL	NS	NS	NS	BDL	21.00
MTBE	NA	BDL	NA	BDL	BDL	BDL	NS	3.00	BDL	BDL	200.00
EDB	NA	BDL	NA	BDL	BDL	BDL	NS	NS	NS	NA	0.0004
IPE	NA	BDL	NA	BDL	BDL	BDL	NS	NS	BDL	BDL	0.07
Total VOCs	2,200.40	877.00	239.78	6.80	15.70	5.10	NS	3.00	0.00	0.00	
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	700.00
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	2.80
cis-,1,2-Dichloroethylene	NA	NA	90.00	BDL	6.50	2.60	NS	NS	BDL	NA	70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	0.02
Total CVOCs	0.00	0.00	90.00	0.00	6.50	2.60	NS	NS	0.00	NA	
Lead	<0 05	0.20	NA	NA	NA	NS	NS	NS	NS	NA	15.00

MW-3

Constituent	Date				2L Standard
	05/21/93	08/29/94	01/26/95	04/27/95	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	NA	200.00
EDB	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	0.056	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-4

Constituent	Date	2L Standard
	05/18/93	
Benzene	BDL	1.00
Toluene	0.70	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	NA
Lead	0.50	15.00

MW-5

Constituent	Date		2L Standard
	05/07/93	05/20/93	
Benzene	BDL	BDL	1.00
Toluene	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	29.00
Xylenes	BDL	BDL	530.00
Naphthalene	NA	BDL	21.00
MTBE	NA	BDL	200.00
EDB	NA	BDL	0.0004
IPE	NA	BDL	0.07
Total VOCs	0.00	0.00	
1,1-Dichloroethane	NA	BDL	700.00
Trichloroethene	NA	BDL	2.80
cis-,1,2-Dichloroethylene	NA	BDL	70.00
Vinyl Chloride	NA	BDL	0 02
Total CVOCs	0.00	0.00	
Lead	NA	0.07	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-6

Constituent	Date	2L Standard
	05/21/93	
Benzene	BDL	1 00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0.03	15.00

MW-7

Constituent	Date																2L Standard
	05/21/93	08/29/94	01/26/95	8/29/95	4/27/95	3/14/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/4/02	09/12/02	04/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	NA	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0 00	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Lead	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-8

Constituent	Date	2L Standard
	05/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2 80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	<0.05	15.00

MW-9

Constituent	Date								2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530 00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	1.30	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-11

Constituent	Date															2L Standard
	9/9/93	8/30/94	1/26/95	4/27/95	8/29/95	3/13/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	1.30	BDL	BDL	BDL	BDL	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	NA	NA	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	NA	NA	0.00	
1,1-Dichloroethane	0.60	BDL	BDL	BDL	BDL	2.40	BDL	3.00	2.20	1.00	BDL	BDL	BDL	BDL	4.90	700.00
Trichloroethene	BDL	BDL	2.50	1.80	BDL	1.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	22.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.60	0.00	2.50	24.70	0.00	4.00	0.00	3.00	2.20	1.00	0.00	0.00	0.00	0.00	4 90	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

MW-12

Constituent	Date				2L Standard
	9/9/93	8/30/94	1/26/95	4/27/95	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	200.00
EDB	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-13

Constituent	Date																		2L Standard
	9/9/93	8/31/94	1/26/95	4/27/95	8/29/95	3/14/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	12/7/00	6/13/01	12/28/01	6/4/02	9/12/02	4/16/03	10/16/03	
Benzene	BDL	3.10	BDL	BDL	1.13	3.40	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	2.83	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	2.63	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	3.20	2.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	23.10	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	29.69	3.40	0.00	4.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	4 40	6.00	7.90	13.20	2.06	2.40	2.67	11.00	7.90	3.30	6.4	3.7	5.2	4	4.90	2.90	5.90	4.50	700.00
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	3.80	BDL	2.70	BDL	BDL	2 2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
Trichloroethene	BDL	5.10	BDL	4.10	BDL	2.90	3.02	2.40	BDL	2.40	2 8	BDL	1.30	1.40	1.50	BDL	BDL	BDL	2.80
1,1-Dichloroethene	BDL	BDL	BDL	2 30	BDL	3.00	BDL	2.50	1.70	1.70	4.2	2.2	3.8	1	BDL	1.50	4.10	1.60	7.00
cis-,1,2-Dichloroethylene	BDL	3.40	BDL	3.40	2.48	4.10	BDL	BDL	BDL	2.70	2.2	2.3	2.1	2.1	BDL	BDL	BDL	1.60	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	1.40	BDL	BDL	1.20	BDL	BDL	BDL	1.20	1.00	BDL	BDL	BDL	BDL	0.02
Total CVOCs	4.40	14.50	7.90	23.00	57.33	21.00	5.69	18.60	10.80	10.10	17.80	8.20	13 60	9.50	6.40	4.40	10.00	7.70	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

MW-14s

Constituent	Date									2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	8/30/95	3/15/96	10/9/96	12/2/97	5/13/98	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	1.17	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	2.10	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	507.00	BDL	BDL	4.10	2.20	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	507.00	0.00	3 27	4.10	2.20	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0 00	0.00	3.27	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-14i

Constituent	Date												2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	3/15/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	12/7/00	6/15/01	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NS	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NS	BDL	0.0004
IPE	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NS	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	15.00

MW-15s

Constituent	Date					2L Standard
	9/9/93	8/31/94	1/26/95	4/27/95	8/30/95	
Benzene	**10.70**	**17.50**	BDL	BDL	BDL	1.00
Toluene	8.80	2.60	BDL	BDL	BDL	1000.00
Ethylbenzene	**76.40**	**147.00**	**43.00**	**56.30**	**77.70**	29.00
Xylenes	NA	430.00	170.00	188.00	205.00	530 00
Naphthalene	13.00	**63.30**	**60.90**	**53.40**	**27.60**	21.00
MTBE	8.30	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	0.0004
IPE	BDL	NA	NA	NA	BDL	0.07
Total VOCs	117.20	660.40	273.90	297.70	310.30	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0 00	
Lead	<0 05	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-15i

Constituent	Date																	2L Standard
	9/9/93	8/31/94	1/26/95	4/27/95	8/30/95	3/15/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	2.16	BDL	BDL	BDL	1.30	4.80	2.5	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	2.70	3.40	1.90	BDL	BDL	BDL	BDL	BDL	1.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	3.60	9.00	BDL	BDL	BDL	BDL	BDL	BDL	1.90	4.4	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.20	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	44.60	BDL	BDL	12.00	13.00	BDL	6.1	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	5.70	NA	NA	NA	NA	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	0.07
Total VOCs	BDL	6.30	12.40	1.90	52.46	0.00	0.00	12.00	15.20	8.90	10.50	0.00	0.00	0.00	0.00	0.00	0 00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	BDL	NA	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	15.00

MW-16s

Constituent	Date							2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	3/14/96	10/9/96	5/13/98	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0 00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-16i

Constituent	Date										2L Standard	
	9/9/93	8/31/94	1/26/95	4/27/95	3/14/96	10/9/96	12/1/97	5/13/98	6/17/99	12/10/99		
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	Well removed from
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00	active monitoring network
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00	in June, 2000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00	
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	200.00	
EDB	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	0.0004	
IPE	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	0.07	
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00	
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	2.80	
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	
Total CVOCs	0.00	0 00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	0.00		
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00	

MW-17

Constituent	Date																		2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	8/29/95	3/13/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	12/28/01	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	0 0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	17.10	BDL	15 50	23.30	23.40	10.40	9.33	7.40	7.20	6.00	7.3	2.6	1.9	1.9	3.90	BDL	6.20	3.10	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	7.00
cis-,1,2-Dichloroethylene	BDL	BDL	3.80	2.10	2.92	1.30	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	2.20	38.90	63.00	BDL	23.40	35.30	21.70	BDL	2.60	5.00	5.7	1.70	2.50	2.00	3.20	BDL	1.50	BDL	0.02
Total CVOCs	19.30	38.90	82.30	25.40	49.72	47.00	31.03	7.40	9.80	12.00	13.00	4.30	4.40	3.90	7.10	0.00	9.00	3.10	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-18

Constituent	Date																				2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	8/29/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	1/2/02	6/4/02	9/12/02	2/13/03	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	1.00
Toluene	1.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	BDL	0 07
Total VOCs	1.30	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	
1,1-Dichloroethane	48.10	BDL	BDL	97.90	71.30	5.80	10.60	12.00	1.50	BDL	1.40	BDL	2.30	1.90	1.90	BDL	BDL	BDL	BDL	BDL	700 00
1,2-Dichloroethane	BDL	BDL	27.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0 38
1,1-Dichloroethene	BDL	BDL	3.90	BDL	1.93	BDL	BDL	1.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	NA	BDL	4.80	1.40	3.73	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.40	2.50	BDL	BDL	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	10.90	BDL	50.00	BDL	58.90	16.30	10.90	8.10	2.30	BDL	3.80	BDL	4.70	1.60	2.20	BDL	BDL	BDL	BDL	BDL	0.02
Chloroethane	BDL	BDL	50.00	BDL	59.00	9.50	BDL	1.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Total CVOCs	59.00	0.00	135.70	99.30	194.86	31.60	21.50	23.10	3.80	0.00	5.20	0.00	10.40	6.00	4.10	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

MW-19

Constituent	Date								2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	3/14/96	10/9/96	12/2/97	5/13/98	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	200 00
EDB	BDL	NA	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-20s

Constituent	Date						2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	8/30/95	3/14/96	
Benzene	15.00	64.40	44.00	71.80	64.40	64.90	1.00
Toluene	1.80	9.50	6.20	BDL	26.00	2.40	1000.00
Ethylbenzene	BDL	16.38	7.00	14.60	25.30	5.90	29 00
Xylenes	BDL	21.00	16 70	20.60	80.70	17.00	530.00
Naphthalene	BDL	3.84	3.29	4.90	BDL	4.50	21.00
MTBE	7.30	BDL	BDL	BDL	9.69	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	0.0004
IPE	14.20	NA	NA	NA	50.00	NA	0.07
Total VOCs	38.30	115.12	77.19	111.90	256.09	94.70	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0 00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	15.00

MW-20d

Constituent	Date																		2L Standard
	9/9/93	8/31/94	1/25/95	4/27/95	8/30/95	3/15/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/14/01	1/2/02	6/4/02	9/12/02	4/16/03	10/16/03	
Benzene	15.00	30.00	22.00	29.80	30.30	20.00	21.60	16.00	13.00	12.30	1.80	1.50	BDL	1.80	2.60	2.50	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	6.20	NA	NA	NA	BDL	NA	NA	5.70	4.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
IPE	14.20	NA	NA	NA	26.60	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5.30	6.10	BDL	BDL	0.07
Total VOCs	35.40	30.00	22.00	29.80	56.90	20.00	21.60	26.20	17.30	12.30	1.80	1.50	0 00	1.80	7.90	8.60	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	8.00	BDL	5.20	5.47	4.00	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	4.30	BDL	1.70	3.20	3.00	BDL	BDL	1.20	2.30	3.20	2.80	BDL	BDL	0.02
Total CVOCs	0.00	8.00	0.00	5.20	5.47	8.30	0.00	1.70	3.20	4.10	0.00	0.00	1.20	2.30	3.20	2.80	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-21

Constituent	Date					2L Standard
	9/9/93	8/30/94	1/26/95	4/27/95	3/15/96	
Benzene	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00

MW-22

Constituent	Date												2L Standard
	4/28/94	8/30/94	1/25/95	4/27/95	8/30/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	
Benzene	9.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	NS	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	0.0004
IPE	8.00	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	0.07
Total VOCs	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	700.00
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	2.80
cis-,1,2-Dichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lead	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-23

Constituent	Date																		2L Standard
	4/28/94	8/30/94	1/26/95	4/27/95	8/30/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/13/01	12/28/02	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	21.00	68.40	36.00	67.90	58.90	56.40	69.70	42.00	23.00	37.10	14.3	28	11.6	37	5.30	4.30	15.00	8.30	1.00
Toluene	BDL	13.00	BDL	14.50	18.60	9.90	4.52	BDL	6 70	7.50	1.9	1.8	1.5	4.6	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	46.50	14.00	40.40	30.70	14.90	11.30	BDL	9.60	19.10	2.3	16.7	BDL	38.9	2.40	BDL	4.60	1.60	29.00
Xylenes	BDL	100 00	40.00	95.30	77.30	24.70	35.50	41 00	40.00	39.60	18	6.6	BDL	30.6	4.50	BDL	8.50	3.20	530.00
Naphthalene	BDL	33.70	42.50	42.90	19.10	32.00	11.70	BDL	9.10	12.00	BDL	BDL	BDL	24.70	NA	2.50	5.00	7.50	6.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	5.40	BDL	8.8	3.00	NA	7.20	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	15.00	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	9.80	BDL	18.00	6.70	0.07
Total VOCs	36.00	216.60	132.50	261 00	204.60	137.90	132.72	83.00	93.80	115.30	45.30	47.10	13.00	143.00	22.00	6.80	51.10	27.30	
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.20	1.60	80.00
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.80	2.10	280.00
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.60	1.60	210.00
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.90	1.60	17.00	NS
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.00	1.60	BDL	14.00
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
1,2-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.30	BDL	1.00	1.30	BDL	BDL	BDL	BDL	BDL	0.38
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	1.00	1.30	0.00	0.00	0.00	0.00	0.00	
Lead	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

MW-24

Constituent	Date										2L Standard
	4/28/94	8/30/94	1/31/95	4/27/95	3/15/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.60	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.00	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.80	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	NA	NA	1.20	1.80	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	0.0004
IPE	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	1.20	15.20	0.00	0.00	
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	
Lead	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-25

Constituent	Date																				2L Standard
	8/30/94	1/31/95	4/27/95	8/29/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/8/00	12/7/00	6/15/01	12/28/01	6/4/02	9/12/02	2/13/03	3/21/03	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	336.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	530.00
Naphthalene	BDL	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	21.00
MTBE	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	200.00
EDB	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	0.0004
IPE	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	BDL	0.07
Total VOCs	0.0	0.0	2.2	336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	0 0	0.0	0.0	
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.3	BDL	14.00
1,1-Dichloroethane	840.0	690 0	632.0	1100.0	262 0	259.0	350.0	240.0	282.0	185.0	110.0	156.0	160.0	200.0	150.00	180.00	150.00	28.00	13.00	68.00	700 00
1,2-Dichloroethane	BDL	BDL	BDL	BDL	7.6	BDL	7.5	BDL	1.3	2.0	BDL	3.0	BDL	2.9	1.80	2.40	BDL	BDL	BDL	BDL	0 38
1,1-Dichloroethene	BDL	770.0	708.0	1270.0	618.0	501.0	390.0	340.0	204.0	280.0	80.0	282.0	100.0	234.0	120.00	220.00	110.00	27.00	15.00	BDL	7 00
Trichloroethene	280.0	125.0	267.0	232.0	152.0	206.0	81.0	BDL	98.0	110.0	64.3	90.0	34.7	77.4	46.00	49.00	40.00	9.10	3.60	1.50	2.80
1,1,1-Trichloroethane	BDL	1710.0	2709.0	3920.0	1440.0	2080.0	620.0	1000.0	358.0	725.0	465.0	342.0	365.0	354.0	220.00	270.00	240.00	31.00	13.00	4.40	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	3.7	6.6	BDL	BDL	2.2	BDL	2.1	BDL	1.5	1.30	BDL	BDL	BDL	BDL	BDL	1.00
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2100.00
Tetracholorethene	BDL	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	7.7	BDL	BDL	BDL	0.70
cis-,1,2-Dichloroethylene	330.0	470.0	319.0	429.0	164.0	BDL	BDL	BDL	151.0	32.0	81.5	84.0	BDL	92.5	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	126.0	85.6	48.9	BDL	30.0	BDL	33.2	13.2	29.7	19.1	29.7	18.00	24.00	16.00	3.70	1.70	5.70	0.02
Chloroethane	BDL	BDL	BDL	BDL	BDL	8.7	4.3	BDL	BDL	8.2	BDL	4.4	4.1	3.9	23.00	4.90	15.00	BDL	BDL	120.00	2800.00
Chloroform																			BDL	1.00	0.19
Carbon Tetrachloride	BDL	BDL	BDL	BDL	192.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.30
1,1,2,2 Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0	1.0	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Total CVOCs	1450.0	3765.0	4635.0	7077.0	2921.2	3107.3	1466.0	1610.0	1094.3	1381.1	815.0	995.0	682.9	995.9	580.1	750.3	578.7	98.8	46.3	200.6	
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-25i

Constituent	Date				2L Standard
	02/13/03	03/21/03	04/15/03	10/17/03	
Benzene	NA	NA	BDL	BDL	1.00
Toluene	NA	NA	BDL	BDL	1000.00
Ethylbenzene	NA	NA	BDL	BDL	29.00
Xylenes	NA	NA	BDL	BDL	530.00
Naphthalene	NA	NA	BDL	BDL	21.00
MTBE	NA	NA	BDL	BDL	200.00
EDB	NA	NA	NA	NA	0.0004
IPE	NA	NA	BDL	BDL	0.07
Total VOCs	0.0	0.0	0.0	0.0	
2-Methylnaphthalene	NA	NA	4.2	BDL	14.00
1-Methylnaphthalene	NA	NA	BDL	1.5	
1,1-Dichloroethane	74.00	28.00	17.00	41.00	700.00
1,2-Dichloroethane	1.00	BDL	BDL	BDL	0.38
1,1-Dichloroethene	93.00	35.00	16.00	BDL	7.00
Trichloroethene	28.00	9.10	BDL	1.30	2.80
1,1,1-Trichloroethane	130.00	27.00	BDL	4.40	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	1.00
Trichlorofluoromethane	BDL	BDL	BDL	BDL	2100.00
Tetracholorethene	BDL	BDL	BDL	BDL	0.70
Vinyl Chloride	11.00	3.60	2.80	9.80	0.02
Chloroethane	BDL	BDL	BDL	130.00	2800.00
Carbon Tetrachloride	BDL	BDL	BDL	BDL	0.30
1,1,2,2 Tetrachloroethane	BDL	BDL	BDL	BDL	1.00
Total CVOCs	337.0	102.7	35.8	186.5	
Lead	NA	NA	NA	NA	15.00

MW-26

Constituent	Date																		2L Standard
	8/29/94	1/26/95	4/27/95	8/29/95	3/13/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	12/7/00	6/15/01	1/2/02	6/4/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	42.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	NA	BDL	BDL	BDL	21.00
MTBE	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	200.00
EDB	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	NS	NA	NA	NA	NA	NA	NA	0.0004
IPE	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.0	42.5	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0		NA	NA	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	100.0	109.0	85.4	BDL	54.3	13.0	5.6	3.6	2 4	BDL	NS	1.0	1.8	2.00	2.80	1.00	2.80	700.00
1,1-Dichloroethene	BDL	BDL	8.1	10.7	13.6	7.2	5.2	3.6	4.2	5 1	BDL	NS	BDL	BDL	1.20	1.80	BDL	1.00	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	4.9	5.8	8.3	BDL	BDL	BDL	5.8	5.8	BDL	NS	BDL	2.7	BDL	BDL	BDL	2.0	70.00
Vinyl Chloride	29.5	BDL	BDL	44.8	56.6	20.1	12.0	6.9	7.0	6.0	BDL	NS	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	29.5	100.0	122.0	146.7	78.5	81.6	30.2	16.1	20.6	19.3	0.0		1.0	4.5	3.2	4.6	1.0	5.8	
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-27

Constituent	Date		2L Standard
	9/9/93	8/29/94	
Benzene	BDL	BDL	1.00
Toluene	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	29.00
Xylenes	BDL	BDL	530.00
Naphthalene	BDL	BDL	21.00
MTBE	BDL	NA	200.00
EDB	BDL	NA	0.0004
IPE	BDL	NA	0.07
Total PAH	0.00	NA	
1,1-Dichloroethane	BDL	BDL	700 00
Trichloroethene	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	0.02
Total CVOCs	0.00	0.00	^
Lead	0.05	NA	15.00

MW-28D

Constituent	Date			2L Standard
	09/12/02	04/16/03	1016/2003	
Benzene	BDL	BDL	BDL	1.00
Toluene	5.3	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	200.00
EDB	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	0.07
Total VOCs	5.3	0.0	0.0	
1,1-Dichloroethane	9.70	25.00	9.90	700.00
1,1-Dichloroethene	5.50	20.00	4.00	7.00
Trichloroethene	1.3	3.3	BDL	2.80
1,1,1-Trichloroethane	BDL	4.9	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	1.5	1.2	0.02
Total CVOCs	16.5	54.7	15.1	
Lead	NA	NA	NA	15 00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Monitoring Well Analytical Results
Nello Teer Quarry
Durham County

MW-29

Constituent	Date				2L Standard
	02/13/03	03/21/03	04/15/03	10/17/03	
Benzene	NA	NA	BDL	BDL	1.00
Toluene	NA	NA	BDL	BDL	1000.00
Ethylbenzene	NA	NA	BDL	BDL	29.00
Xylenes	NA	NA	BDL	BDL	530.00
Naphthalene	NA	NA	BDL	BDL	21.00
MTBE	NA	NA	BDL	BDL	200.00
EDB	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.0	0.0	0.0	0.0	
Acenaphthene	NA	NA	1.9	BDL	80.00
Fluorene	NA	NA	2.0	BDL	280.00
1-Methylnaphthene	NA	NA	16.0	BDL	NS
Phenanthrene	NA	NA	1.2	BDL	210.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
1,1-Dichloroethene	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.0	0.0	0.0	0.0	
Lead	NA	NA	NA	NA	15.00

MW-29i

Constituent	Date				2L Standard
	02/13/03	03/21/03	04/15/03	10/17/03	
Benzene	NA	NA	BDL	BDL	1.00
Toluene	NA	NA	BDL	BDL	1000.00
Ethylbenzene	NA	NA	BDL	BDL	29.00
Xylenes	NA	NA	BDL	BDL	530.00
Naphthalene	NA	NA	BDL	BDL	21.00
MTBE	NA	NA	BDL	BDL	200.00
EDB	NA	NA	NA	NA	0 0004
IPE	NA	NA	BDL	BDL	0.07
Total VOCs	0.0	0.0	0.0	0.0	
Acenaphthene	BDL	BDL	BDL	BDL	80.00
Fluorene	NA	NA	1.0	BDL	280.00
1-Methylnaphthene	NA	NA	BDL	1.9	NS
Phenanthrene	NA	NA	BDL	BDL	210.00
Chloroethane	BDL	BDL	BDL	25.0	
Chloroform	BDL	BDL	BDL	1.0	
1,1-Dichloroethane	6.10	9.70	6.00	47.00	700.00
1,1-Dichloroethene	12.00	BDL	7.70	3.10	7.00
cis-1,2-Dichloroethene	BDL	BDL	BDL	2.80	
Trichloroethene	4.4	5.7	3.4	2.0	2.80
1,1,1-Trichloroethane	3.2	3 2	BDL	3.7	200.00
Vinyl Chloride	2.0	1.4	BDL	26.0	0.02
Total CVOCs	27.7	20.0	17.1	110.6	
Lead	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.
NA Indicates Not Analyzed.
NS Indicates Not Sampled.
Bold Indicates Concentration Above State 2L Standard.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-1

Constituent	Date											2L Standard
	8/29/99	2/25/00	6/14/00	9/8/00	12/7/00	6/15/01	12/28/01	6/6/02	9/13/02	4/15/03	10/20/03	
Benzene	**6.80**	BDL	**1.20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**5.50**	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	1.80	BDL	BDL	1.70	BDL	BDL	BDL	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.50	70.00
Total VOCs	6.80	0.00	2.30	1.80	0.00	0.00	1.70	0.00	0.00	0.00	15.00	
1,1-Dichloroethane	BDL	7.40	BDL	2.90	12.50	5.10	6.20	BDL	3.40	5.30	BDL	700.00
1,1 Dichloroethene	BDL	BDL	1.50	1.60	5.40	1.30	2.40	1.70	2.00	1.30	BDL	7.00
1,2 Dichloroethane	BDL	BDL	**3.00**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38
Trichloroethene	BDL	2.20	BDL	**3.20**	**3.60**	**4.80**	**6.00**	**3.50**	**4.00**	2.40	2.00	2.80
1,1,1 Trichloroethane	BDL	3.40	BDL	1.00	2.80	BDL	BDL	BDL	BDL	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	2.20	1.80	3.10	3.30	8.40	10.80	NA	NA	NA	2.20	70.00
Chloroethane	BDL	BDL	**2.90**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	**2.80**	**2.60**	BDL	BDL	**1.10**	BDL	0.015
Total CVOCs	0.00	15.20	9.20	11.80	27.60	24.90	28.00	5.20	9.40	10.10	4.20	
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	MDL
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	28.00
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-2 (formerly MW-2)

Constituent	Date											2L Standard
	5/7/93	5/20/93	8/29/94	8/29/99	6/14/00	1/23/01	10/26/01	6/6/02	9/13/02	4/16/03	Oct-03	
Benzene	**575.00**	**353.00**	**95.00**	BDL	BDL	**1.60**	BDL	BDL	BDL	BDL	NS	1.00
Toluene	**1160.00**	418.00	19.00	BDL	1.70	BDL	BDL	BDL	BDL	BDL	NS	1000.00
Ethylbenzene	**84.40**	BDL	**62.00**	BDL	1.00	2.40	BDL	BDL	BDL	BDL	NS	29.00
Xylenes	**1425.00**	106.00	61.00	BDL	13.00	1.10	BDL	BDL	BDL	BDL	NS	530.00
Naphthalene	NA	NA	2.78	BDL	BDL	BDL	NA	NA	BDL	BDL	NS	21.00
MTBE	NA	BDL	NA	BDL	BDL	BDL	3.00	BDL	BDL	BDL	NS	200.00
EDB	NA	BDL	NA	BDL	BDL	BDL	BDL	NA	NA	NA	NS	0.0004
IPE	NA	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	9.80	NS	70.00
Total VOCs	3244.40	877.00	239.80	0.00	15.70	5.10	3.00	0.00	0.00	9.80	NS	
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	700.00
1,1 Dichloroethene	NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	7.00
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	2.80
1,1,1 Trichloroethane	NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	200.00
cis-,1,2-Dichloroethene	NA	NA	**90.00**	BDL	6.50	2.60	NA	NA	NA	NA	NS	70.00
Chloroethane	NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	2800.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	NS	0.015
Total CVOCs	0.00	0.00	90.00	0.00	6.50	3.80	NA	0.00	NA	0.00	NS	
1-Methylnaphthalene	NA	NA	NA	BDL	BDL	BDL	NA	NA	NA	BDL	NS	MDL
Phenanthrene	NA	NA	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	NS	210.00
Lead	<0.05	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NS	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-3

Constituent	Date										2L Standard
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/28/01	6/4/02	9/12/02	4/15/03	10/20/03	
Benzene	**25.50**	BDL	**7.60**	**9.70**	**16.80**	**10.30**	**13.00**	BDL	BDL	**64.00**	1.00
Toluene	21.50	BDL	3.60	2.90	11.00	2.60	5.90	BDL	BDL	56.00	1000.00
Ethylbenzene	22.50	BDL	3.30	1.80	19.30	6.10	11.00	BDL	BDL	**64.00**	29.00
Xylenes	270.00	BDL	16.40	13.20	45.20	6.30	20.80	BDL	BDL	137.00	530.00
Naphthalene	11.00	BDL	8.00	7.00	BDL	**27.40**	NA	6.50	**21.00**	**130.00**	21.00
MTBE	11.50	BDL	BDL	BDL	NS	7.10	BDL	BDL	BDL	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	BDL	NS	12.00	BDL	BDL	38.00	70.00
Total VOCs	362.00	0.00	38.90	34.60	92.30	59.80	62.70	6.50	21.00	489.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
1,1 Dichloroethene	BDL	BDL	1.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	BDL	2.70	BDL	1.40	BDL	NA	BDL	BDL	BDL	70.00
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**22.00**	0.19
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.015
Total CVOCs	0.00	0.00	5.30	0.00	1.40	BDL	0.00	0.00	0.00	22.00	
Acenaphthene	BDL	NA	NA	BDL	BDL	BDL	NA	BDL	11.00	BDL	80.00
1-Methylnaphthalene	**44.00**	NA	NA	BDL	BDL	BDL	NA	**43.00**	**23.00**	**110.00**	NS
2-Methylnaphthalene	**38.00**	NA	NA	BDL	BDL	BDL	NA	9.90	BDL	**87.00**	28.00
Benzo (a) anthracene	NA	NA	NA	BDL	BDL	BDL	NA	BDL	BDL	**4.50**	0.0479
Phenanthrene	12.00	NA	NA	24.00	2.60	BDL	NA	24.00	33.00	**270.00**	210.00
Floranthene	NA	NA	NA	BDL	BDL	BDL	NA	BDL	BDL	23.00	280.00
Fluorene	NA	NA	NA	BDL	BDL	BDL	NA	12.00	15.00	BDL	280.00
Pyrene	NA	NA	NA	BDL	BDL	BDL	NA	4.40	BDL	54.00	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-4

Constituent	Date											2L Standard
	8/29/99	3/8/00	5/3/00	6/14/00	12/7/00	6/15/01	12/28/01	6/6/02	9/12/02	4/15/03	10/1/03	
Benzene	BDL	BDL	**5.00**	**1.80**	**3.10**	BDL	BDL	**1.10**	BDL	NS	NS	1.00
Toluene	BDL	BDL	3.00	3.00	BDL	BDL	BDL	BDL	BDL	NS	NS	1000.00
Ethylbenzene	BDL	BDL	4.00	4.00	BDL	BDL	BDL	BDL	BDL	NS	NS	29.00
Xylenes	BDL	BDL	2.00	2.00	BDL	BDL	BDL	BDL	BDL	NS	NS	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NS	NS	21.00
MTBE	BDL	BDL	5.00	NA	2.20	NA	1.20	BDL	BDL	NS	NS	200.00
EDB	BDL	BDL	NA	BDL	BDL	BDL	BDL	NA	NA	NS	NS	0.0004
IPE	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	NS	NS	70.00
Total VOCs	0.00	0.00	19.00	10.80	5.30	0.00	1.20	1.10	0.00	NS	NS	
1,1-Dichloroethane	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	4.00	NN	NS	700.00
1,1 Dichloroethene	BDL	BDL	NA	1.70	BDL	BDL	BDL	BDL	BDL	NS	NS	7.00
Trichloroethene	BDL	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	NS	NS	2.80
1,1,1 Trichloroethane	BDL	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	NS	NS	200.00
cis-,1,2-Dichloroethylene	BDL	BDL	NA	2.80	3.10	BDL	BDL	NA	NA	NS	NS	70.00
Chloroethane	BDL	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	NS	NS	2800.00
Vinyl Chloride	BDL	BDL	NA	**2.00**	**1.20**	BDL	BDL	BDL	BDL	NS	NS	0.015
Total CVOCs	0.00	0.00	NA	6.50	4.30	0.00	0.00	0.00	4.00	NS	NS	
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	28.00
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-5

Constituent	Date												2L Standard
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/27/01	6/4/02	9/12/02	2/13/03	3/21/03	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	NS	NA	NA	NA	NA	NA	NA	NA	BDL	21.00
MTBE	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	NS	NA	NA	NA	NA	NA	NA	NA	BDL	0.0004
IPE	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	BDL	70.00
Total VOCs	0.00	0.00	0.00	NS	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	202.00	118.50	50.00	NS	100.00	98.20	96.00	150.00	46.00	21.00	12.00	26.00	700.00
1,2-Dichloroethane	BDL	BDL	BDL	NS	BDL	BDL	**1.00**	**1.60**	BDL	BDL	BDL	BDL	0.38
1,1 Dichloroethene	**260.00**	BDL	**170.00**	NS	**62.00**	**88.80**	**85.00**	**170.00**	**49.00**	**16.00**	**9.00**	BDL	7.00
Trichloroethene	**67.20**	BDL	**65.60**	NS	**34.40**	**40.90**	**38.00**	**39.00**	**16.00**	**7.20**	**4.20**	BDL	2.80
1,1,1 Trichloroethane	**518.00**	BDL	**265.00**	NS	198.00	**250.00**	**220.00**	**250.00**	77.00	23.00	BDL	2.60	200.00
cis-,1,2-Dichloroethylene	**93.60**	63.40	**72.40**	NS	48.20	53.40	NA	NA	NA	NA	NA	BDL	70.00
1,1,2,2-Tetrachloroethane	BDL	BDL	**1.40**	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
1,1,2-Trichloroethane	BDL	BDL	**1.60**	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
Chloroform	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.00**	0.19
Chloroethane	7.00	5.00	6.00	NS	4.40	1.40	2.40	4.40	BDL	BDL	BDL	23.00	2800.00
Vinyl Chloride	**30.70**	**20.00**	**24.60**	NS	**12.60**	**4.70**	BDL	**27.00**	**7.60**	**2.70**	**1.50**	**4.50**	0.015
Total CVOCs	1178.50	206.90	656.60	0.00	459.60	537.40	442.40	642.00	195.60	69.90	26.70	57.10	
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NS
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	28.00
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-6

Constituent	Date								2L Standard
	10/4/99	12/17/9	6/14/00	12/7/00	6/15/01	12/29/01	4/15/03	10/17/03	
Benzene	BDL	**2.20**	BDL	BDL	NA	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	21.00
MTBE	BDL	2.10	BDL	BDL	NA	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	70.00
Total VOCs	0.00	4.30	0.00	0.00	NA	NA	NA	0.00	
Fluorene	BDL	5.00	BDL	NA	NA	NA	NA	BDL	280.00
Phenanthrene	BDL	4.00	BDL	NA	NA	NA	NA	BDL	210.00
1,1-Dichloroethane	14.70	7.80	5.80	5.00	2.10	4.10	49.00	15.00	700.00
1,1 Dichloroethene	**26.80**	4.90	**8.60**	1.90	1.40	4.80	**28.00**	**12.00**	7.00
Trichloroethene	**10.90**	**3.20**	BDL	1.80	1.10	**3.20**	**13.00**	**6.50**	2.80
1,1,1 Trichloroethane	53.20	4.00	15.50	7.20	4.90	17.50	66.00	21.00	200.00
cis-,1,2-Dichloroethene	6.80	6.80	BDL	BDL	BDL	1.80	BDL	3.90	70.00
Chloroethane	BDL	BDL	**5.20**	BDL	BDL	BDL	BDL	BDL	MDL
Vinyl Chloride	**3.10**	BDL	**1.90**	BDL	BDL	BDL	**9.10**	**2.60**	0.015
Total CVOCs	115.50	26.70	37.00	15.90	9.50	31.40	165.10	61.00	
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-7

Constituent	Date											2L Standard
	10/4/99	6/14/00	6/23/00	7/6/00	12/7/00	6/15/01	12/28/01	6/6/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	**9.50**	BDL	NA	NA	BDL	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	4.00	BDL	NA	NA	BDL	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	1.40	BDL	NA	NA	BDL	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	10.60	BDL	NA	NA	BDL	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	**144.00**	BDL	BDL	NA	NA	NA	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	2.80	BDL	NA	NA	BDL	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	BDL	70.00
Total VOCs	0.00	0.00	224.00	28.30	0.00	NA	NA	0.00	NA	NA	0.00	
1,1-Dichloroethane	10.00	1.70	BDL	2.40	BDL	BDL	1.70	1.50	3.10	24.00	6.20	700.00
1,1 Dichloroethene	1.60	1.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.50	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL	2.60	BDL	BDL	1.70	BDL	BDL	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	3.80	1.90	BDL	2.20	BDL	BDL	1.20	NA	BDL	BDL	BDL	70.00
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.00**	0.19
Chloroethane	BDL	BDL	BDL	**1.60**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
Vinyl Chloride	**6.00**	**3.90**	BDL	BDL	BDL	**1.00**	BDL	BDL	BDL	**4.10**	BDL	0.02
Total CVOCs	21.40	9.40	0.00	8.80	0.00	1.00	4.60	1.50	3.10	32.60	7.20	
Lead	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-8

Constituent	Date								2L Standard
	6/14/00	12/7/00	6/15/00	12/28/01	6/4/02	9/12/02	4/15/03	10/20/03	
Benzene	**10.10**	BDL	BDL	NS	BDL	BDL	**15.00**	**16.00**	1.00
Toluene	1.20	BDL	BDL	NS	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	3.10	BDL	BDL	NS	13.00	BDL	2.00	7.90	29.00
Xylenes	4.90	BDL	BDL	NS	BDL	BDL	7.60	10.00	530.00
Naphthalene	BDL	BDL	BDL	NS	NA	BDL	2.90	**55.00**	21.00
MTBE	BDL	2.50	BDL	NS	BDL	BDL	BDL	BDL	200.00
EDB	BDL	BDL	BDL	NS	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	NS	BDL	8.80	24.00	BDL	70.00
Total VOCs	19.30	2.50	0.00	NS	13.00	8.80	51.50	88.90	
Acenaphthene	BDL	BDL	BDL	NS	BDL	BDL	2.20	4.20	80.00
Acenaphthylene	BDL	BDL	BDL	NS	BDL	BDL	BDL	1.30	210.00
1-Methylnaphthalene	BDL	BDL	BDL	NS	BDL	BDL	8.90	**41.00**	NS
2-Methylnaphthalene	BDL	BDL	BDL	NS	BDL	BDL	3.30	**34.00**	14.00
Fluorene	BDL	BDL	BDL	NS	BDL	BDL	2.60	6.20	280.00
Phenanthrene	BDL	BDL	BDL	NS	BDL	BDL	2.30	9.60	210.00
Pyrene	BDL	BDL	BDL	NS	BDL	NA	BDL	1.90	210.00
1,1-Dichloroethane	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	700.00
1,1 Dichloroethene	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	200.00
cis-,1,2-Dichloroethene	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	70.00
Chloroethane	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	MDL
Chloroform	BDL	BDL	BDL	NS	BDL	NA	BDL	**22.00**	0.19
Vinyl Chloride	BDL	BDL	BDL	NS	BDL	NA	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	NS	0.00	0.00	0.00	22.00	
Lead	NA	NA	NA	NS	NA	NA	NA	NA	15.00

All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

RW-9

Constituent	Date										2L Standard
	5/19/00	6/14/00	9/8/00	12/7/00	6/15/01	12/27/01	6/6/02	9/12/02	4/15/03	10/17/03	
Benzene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	BDL	21.00
MTBE	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	200.00
EDB	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	70.00
Total VOCs	0.00	0.00	0.00	0.00	NA	NA	0.00	0.00	0.00	0.00	
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	BDL	**1.10**	BDL	NS
1,1-Dichloroethane	84.50	75.60	33.00	84.20	78.60	180.00	130.00	120.00	56.00	91.00	700.00
1,1 Dichloroethene	**75.10**	**64.20**	**38.50**	**83.40**	**78.60**	**102.00**	**71.00**	**81.00**	**39.00**	BDL	7.00
Trichloroethene	**16.00**	**15.00**	**4.60**	**17.50**	**21.70**	**26.00**	**13.00**	**12.00**	**1.80**	BDL	2.80
1,1,1 Trichloroethane	50.60	40.20	16.30	37.60	38.90	65.00	31.00	27.00	BDL	2.60	200.00
cis-,1,2-Dichloroethylene	26.80	23.70	11.00	28.00	21.70	42.00	NA	NA	NA	BDL	70.00
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	55.00	MDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.00**	0.19
Vinyl Chloride	**8.50**	**9.30**	**1.30**	**15.10**	**14.20**	**12.00**	**8.40**	**8.20**	**4.80**	BDL	0.02
Total CVOCs	261.50	228.00	104.70	265.80	253.70	427.00	253.40	248.20	101.60	149.60	
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

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All Results in ug/l.
NA Indicates Not Analyzed.
BDL Indicates Below Detection Limit.
Bold Indicates Concentration Above State 2L Standard.
NS Indicates Well Not Sampled.

Appendix A

Appendix A

Recovery Well and Vapor Well Construction Records

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Robert Lee Miller CERTIFICATION # 2675

WELL CONTRACTOR COMPANY NAME Saedacco PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☐ Recovery ☒ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Denfield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☒Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Denfield St.
(Street or Route No.)
Durham NC 27707
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-12-03
5. TOTAL DEPTH: 24'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
7. STATIC WATER LEVEL Below Top of Casing: 10" FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5'	20'	w/ Rock
20'	24'	Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 4'	Ft.	6"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT:

	Depth		Material	Method
From 2'	To 3'	Ft.	Portland	Pour
From	To	Ft.		

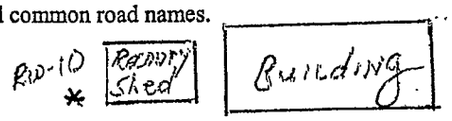
14. SCREEN:

	Depth		Diameter	Slot Size	Material
From 4'	To 24'	Ft.	6" in.	.010 in.	PVC
From	To	Ft.	in.	in.	

15. SAND/GRAVEL PACK:

	Depth		Size	Material
From 3'	To 24'	Ft.	20/30	Silica Sand
From	To	Ft.		

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Robert L. Miller 8-13-03
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Robert lee miller CERTIFICATION # 2675

WELL CONTRACTOR COMPANY NAME Saedacco PHONE # (919) 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☐ Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Denfield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☒Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Denfield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
( )- _____
Area code- Phone number

4. DATE DRILLED 8/11-12/03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	DEPTH To	DRILLING LOG Formation Description
0	5'	Brown silty clay
5'	20'	w/rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 5' Ft.	2"	SCH 40	PVC
From	To Ft.			
From	To Ft.			

13. GROUT:

	Depth To	Material	Method
From 2'	To 3' Ft.	Portland	Pour
From	To Ft.		

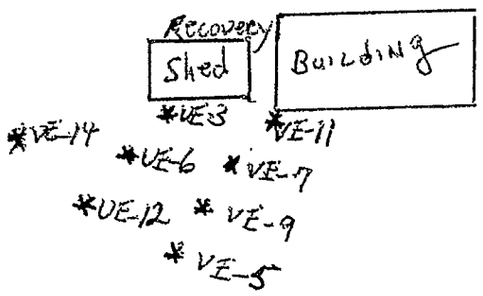
14. SCREEN:

	Depth To	Diameter	Slot Size	Material
From 5'	To 20' Ft.	2" in.	.010 in.	PVC
From	To Ft.	in.	in.	

15. SAND/GRAVEL PACK:

	Depth To	Size	Material
From 4'	To 20' Ft.	20/30	Silica sand
From	To Ft.		

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: 1' Bentonite Seal 3' to 4'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Robert L. Miller 8-13-03
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days. GW-1 REV. 07/2001

VE-10

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☑Flat
(check appropriate box)
Latitude/longitude of well location _____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
( )- _____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5	- 20'	w/ Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	SCH40	PVC

13. GROUT:

	Depth From	To	Material	Method
	2'	3'	Portland	Pour

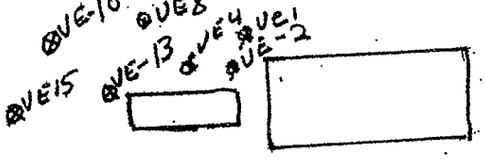
14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5	20	2" in.	.010 in.	PVC
			in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SIGNATURE OF PERSON CONSTRUCTING THE WELL — DATE 8-13-03

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

UE-15

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
( )-
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5	- 20'	w/Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	SCH40	PVC

13. GROUT:

Depth From	To	Material	Method
2'	3'	Portland	Pour

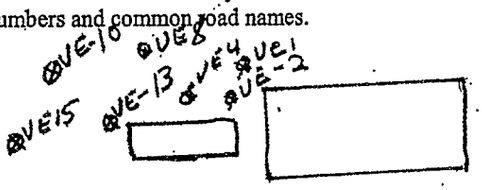
14. SCREEN:

Depth From	To	Diameter	Slot Size	Material
5	20	2" in.	.010 in.	PVC
		in.	in.	

15. SAND/GRAVEL PACK:

Depth From	To	Size	Material
4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF PERSON CONSTRUCTING THE WELL 8-13-03 DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

UE-16

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5	- 20'	w/ Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 5	Ft.	2"	SCH40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT:

	Depth		Material	Method
From 2'	To 3'	Ft.	Portland	Pour
From	To	Ft.		

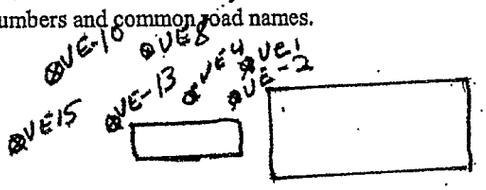
14. SCREEN:

	Depth		Diameter	Slot Size	Material
From 5	To 20	Ft.	2" in.	.010 in.	PVC
From	To	Ft.	in.	in.	

15. SAND/GRAVEL PACK:

	Depth		Size	Material
From 4'	To 20'	Ft.	#2	Sand
From	To	Ft.		

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF PERSON CONSTRUCTING THE WELL 8-13-03 DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

VE-15

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deerfield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deerfield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5	- 20'	w/ Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	Sch 40	PVC

13. GROUT:

	Depth From	To	Material	Method
	2'	3'	Portland	Pour

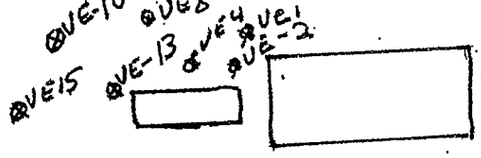
14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5	20	2" in.	.010 in.	PVC
			in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SIGNATURE OF PERSON CONSTRUCTING THE WELL 8-13-03 DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

VE-8

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deerfield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deerfield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5'	20'	w/Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	Sch40	PVC

13. GROUT:

	Depth From	To	Material	Method
	2'	3'	Portland	Pour

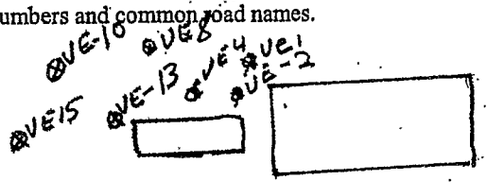
14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5	20	2" in.	.010 in.	PVC
			in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF PERSON CONSTRUCTING THE WELL — DATE 8-13-03

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

VE-4

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5'	20'	w/ Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	SCH40	PVC

13. GROUT:

	Depth From	To	Material	Method
	2'	3'	Portland	Pour

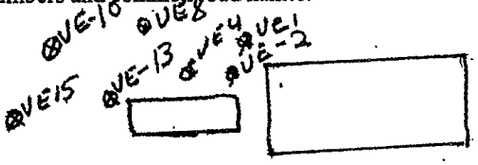
14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5	20	2" in.	.010 in.	PVC
			in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF PERSON CONSTRUCTING THE WELL 8-13-03 DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

VE-2

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5 -	20'	w/Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5	2"	Sch40	PVC

13. GROUT:

	Depth From	To	Material	Method
	2'	3'	Portland	Pour

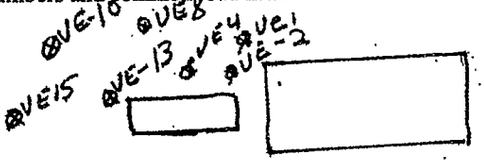
14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5	20	2" in.	.010 in.	PVC
			in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

[signature] 8-13-03
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

VE-1

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Gary Skoglund CERTIFICATION # 2911

WELL CONTRACTOR COMPANY NAME SAEDACCO PHONE # 803 548-2180

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☑ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use _____

2. WELL LOCATION:
Nearest Town: Durham County Durham
5013 Deafield St. 27707
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☐Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: Former Nello Teer Quarry
Address 5013 Deafield St.
(Street or Route No.)
Durham NC
City or Town State Zip Code
(___)-_____
Area code- Phone number

4. DATE DRILLED 8-(11-12)-03
5. TOTAL DEPTH: 20'
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
7. STATIC WATER LEVEL Below Top of Casing: 10' FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): _____ METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From	To	DRILLING LOG Formation Description
0	5'	Brown Silty Clay
5 -	20'	w/Rock

11. DISINFECTION: Type _____ Amount _____
12. CASING:

	Depth From	To	Diameter Ft.	Wall Thickness or Weight/Ft.	Material
	0	5	2"	Sch40	PVC

13. GROUT:

	Depth From	To	Material Ft.	Method
	2'	3'	Portland	Pour

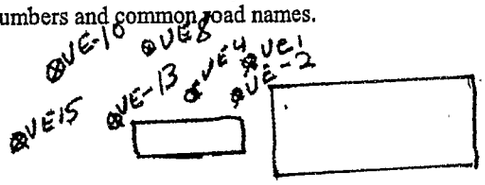
14. SCREEN:

	Depth From	To	Diameter Ft.	in.	Slot Size in.	Material
	5	20	2"		.010	PVC

15. SAND/GRAVEL PACK:

	Depth From	To	Size Ft.	Material
	4'	20'	#2	Sand

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SIGNATURE OF PERSON CONSTRUCTING THE WELL 8-13-03 DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

Appendix B

Appendix B

Laboratory Analytical Results
and
Chain of Custody

ENVIRONMENTAL
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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

RECEIVED
NOV 6 2003

Date Received : October 18, 2003
Description : Nello Teer

ESC Sample # : L131686-01

Site ID :

Sample ID : MW-7

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 11:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-01

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-7

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 11:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/28/03 13:05 Printed: 10/28/03 13:06

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-02

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-1

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-1

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:25

ESC Sample # : L131686-02

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-03

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-17

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	3.1	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-03

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-17

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-04

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-18

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-04

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-18

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-05

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-26

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	2.8	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	1.0	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	2.0	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-05

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-26

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-06

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-11

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	4.9	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1;1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-06

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-11

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

ESC Sample # : L131686-07

Site ID :

Sample ID : MW-9

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 11:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-07

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-9

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 11:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-08

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-23

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	2.0	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	1.6	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	2.1	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	17.	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	1.6	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-09

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-15

Collected By : Davis/Dwyer
Collection Date : 10/17/03 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-09

Site ID :

Project # : 0013-94-012

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-15

Collected By : Davis/Dwyer
Collection Date : 10/17/03 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/25/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/25/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/25/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/25/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-10

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-29

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-10

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-29

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 12:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-11

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-29L

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	25.	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	1.0	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	47.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	3.1	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	2.8	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	3.7	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	2.0	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	26.	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-11

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-29L

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/25/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/25/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
1-Methylnaphthalene	1.9	1.0	ug/l	610MS	10/25/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/25/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/25/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-12

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-25I

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	130	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	41.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	4.4	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	1.3	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	9.8	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-25I

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:55

ESC Sample # : L131686-12

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/25/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/25/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
1-Methylnaphthalene	1.5	1.0	ug/l	610MS	10/25/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/25/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/25/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : MW-25

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:50

ESC Sample # : L131686-13

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	120	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	1.0	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	68.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	4.4	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	1.5	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	5.7	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-13

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : MW-25

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/25/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/25/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/25/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/25/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/25/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/25/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/25/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/25/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/25/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

ESC Sample # : L131686-14

Sample ID : RW-5

Site ID :

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:23

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	23.	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	1.0	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	26.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	2.6	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	4.5	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : RW-5

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:23

ESC Sample # : L131686-14

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-15

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : RW-6

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	15.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	12.	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	3.9	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	21.	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	6.5	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	2.6	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : RW-6

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:34

ESC Sample # : L131686-15

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : RW-7

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:38

ESC Sample # : L131686-16

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	1.0	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	6.2	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-16

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : RW-7

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:38

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Reported: 10/28/03 13:05 Printed: 10/28/03 13:06

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

ESC Sample # : L131686-17

Date Received : October 18, 2003
Description : Nello Teer

Site ID :

Sample ID : RW-9

Project # : 0013-94-012

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:27

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	55.	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	1.0	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	91.	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	2.6	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 18, 2003
Description : Nello Teer

Sample ID : RW-9

Collected By : Davis/Dwyer
Collection Date : 10/17/03 14:27

ESC Sample # : L131686-17

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L131686-08	Phenanthrene	J8
L131686-11	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-12	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-13	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-14	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-15	Benzo(a)anthracene	J4
	Benzo(a)pyrene	J4
	Benzo(b)fluoranthene	J4
	Benzo(k)fluoranthene	J4
	Chrysene	J4
	Phenanthrene	J4
	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-16	Anthracene	V3
	Benzo(a)anthracene	J4
	Benzo(a)pyrene	J4
	Benzo(b)fluoranthene	J4
	Benzo(k)fluoranthene	J4
	Chrysene	J4
	Fluoranthene	V3
	Phenanthrene	V3
	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3
L131686-17	Benzo(a)anthracene	J4
	Benzo(a)pyrene	J4
	Benzo(b)fluoranthene	J4
	Benzo(k)fluoranthene	J4
	Chrysene	J4
	Phenanthrene	J4
	Bromomethane	J3
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J8	The internal standard associated with this data responded abnormally low. The data is likely to show a high bias concerning the result.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

Control Limits

2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	79-126	83-119
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	81-114	82-116
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	65-129	72-126

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131686

October 28, 2003

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1-Trichloroethane	< .001	mg/l	10/21/03 09:41	WG130132
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/21/03 09:41	WG130132
1,1,2-Trichloroethane	< .001	mg/l	10/21/03 09:41	WG130132
1,1-Dichloroethane	< .001	mg/l	10/21/03 09:41	WG130132
1,1-Dichloroethene	< .001	mg/l	10/21/03 09:41	WG130132
1,2-Dibromoethane	< .001	mg/l	10/21/03 09:41	WG130132
1,2-Dichlorobenzene	< .001	mg/l	10/21/03 09:41	WG130132
1,2-Dichloroethane	< .001	mg/l	10/21/03 09:41	WG130132
1,2-Dichloropropane	< .001	mg/l	10/21/03 09:41	WG130132
1,3-Dichlorobenzene	< .001	mg/l	10/21/03 09:41	WG130132
1,4-Dichlorobenzene	< .001	mg/l	10/21/03 09:41	WG130132
2-Chloroethyl vinyl ether	< .001	mg/l	10/21/03 09:41	WG130132
Benzene	< .001	mg/l	10/21/03 09:41	WG130132
Bromodichloromethane	< .001	mg/l	10/21/03 09:41	WG130132
Bromoform	< .001	mg/l	10/21/03 09:41	WG130132
Bromomethane	< .001	mg/l	10/21/03 09:41	WG130132
Carbon Tetrachloride	< .001	mg/l	10/21/03 09:41	WG130132
Chlorobenzene	< .001	mg/l	10/21/03 09:41	WG130132
Chlorodibromomethane	< .001	mg/l	10/21/03 09:41	WG130132
Chloroethane	< .001	mg/l	10/21/03 09:41	WG130132
Chloroform	< .005	mg/l	10/21/03 09:41	WG130132
Chloromethane	< .001	mg/l	10/21/03 09:41	WG130132
cis-1,2-Dichloroethene	< .001	mg/l	10/21/03 09:41	WG130132
cis-1,3-Dichloropropene	< .001	mg/l	10/21/03 09:41	WG130132
Di-isopropyl ether	< .001	mg/l	10/21/03 09:41	WG130132
Dichlorodifluoromethane	< .001	mg/l	10/21/03 09:41	WG130132
Ethylbenzene	< .001	mg/l	10/21/03 09:41	WG130132
m&p-Xylene	< .002	mg/l	10/21/03 09:41	WG130132
Methyl tert-butyl ether	< .001	mg/l	10/21/03 09:41	WG130132
Methylene chloride	< .005	mg/l	10/21/03 09:41	WG130132
Naphthalene	< .005	mg/l	10/21/03 09:41	WG130132
o-Xylene	< .001	mg/l	10/21/03 09:41	WG130132
Tetrachloroethene	< .001	mg/l	10/21/03 09:41	WG130132
Toluene	< .005	mg/l	10/21/03 09:41	WG130132
trans-1,2-Dichloroethene	< .001	mg/l	10/21/03 09:41	WG130132
trans-1,3-Dichloropropene	< .001	mg/l	10/21/03 09:41	WG130132
Trichloroethene	< .001	mg/l	10/21/03 09:41	WG130132
Trichlorofluoromethane	< .001	mg/l	10/21/03 09:41	WG130132
Vinyl chloride	< .001	mg/l	10/21/03 09:41	WG130132
1,1,1-Trichloroethane	< .001	mg/l	10/21/03 09:46	WG130136
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/21/03 09:46	WG130136
1,1,2-Trichloroethane	< .001	mg/l	10/21/03 09:46	WG130136
1,1-Dichloroethane	< .001	mg/l	10/21/03 09:46	WG130136
1,1-Dichloroethene	< .001	mg/l	10/21/03 09:46	WG130136
1,2-Dibromoethane	< .001	mg/l	10/21/03 09:46	WG130136
1,2-Dichlorobenzene	< .001	mg/l	10/21/03 09:46	WG130136
1,2-Dichloroethane	< .001	mg/l	10/21/03 09:46	WG130136
1,2-Dichloropropane	< .001	mg/l	10/21/03 09:46	WG130136
1,3-Dichlorobenzene	< .001	mg/l	10/21/03 09:46	WG130136
1,4-Dichlorobenzene	< .001	mg/l	10/21/03 09:46	WG130136
2-Chloroethyl vinyl ether	< .001	mg/l	10/21/03 09:46	WG130136
Benzene	< .001	mg/l	10/21/03 09:46	WG130136
Bromodichloromethane	< .001	mg/l	10/21/03 09:46	WG130136
Bromoform	< .001	mg/l	10/21/03 09:46	WG130136
Bromomethane	< .001	mg/l	10/21/03 09:46	WG130136
Carbon Tetrachloride	< .001	mg/l	10/21/03 09:46	WG130136
Chlorobenzene	< .001	mg/l	10/21/03 09:46	WG130136
Chlorodibromomethane	< .001	mg/l	10/21/03 09:46	WG130136
Chloroethane	< .001	mg/l	10/21/03 09:46	WG130136

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Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Quality Assurance Report
Level II

L131686

October 28, 2003

Chloroform	< .005	mg/l	10/21/03 09:46	WG130136

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chloromethane	< .001	mg/l	10/21/03 09:46	WG130136
cis-1,2-Dichloroethene	< .001	mg/l	10/21/03 09:46	WG130136
cis-1,3-Dichloropropene	< .001	mg/l	10/21/03 09:46	WG130136
Di-isopropyl ether	< .001	mg/l	10/21/03 09:46	WG130136
Dichlorodifluoromethane	< .001	mg/l	10/21/03 09:46	WG130136
Ethylbenzene	< .001	mg/l	10/21/03 09:46	WG130136
m&p-Xylene	< .002	mg/l	10/21/03 09:46	WG130136
Methyl tert-butyl ether	< .001	mg/l	10/21/03 09:46	WG130136
Methylene chloride	< .005	mg/l	10/21/03 09:46	WG130136
Naphthalene	< .005	mg/l	10/21/03 09:46	WG130136
o-Xylene	< .001	mg/l	10/21/03 09:46	WG130136
Tetrachloroethene	< .001	mg/l	10/21/03 09:46	WG130136
Toluene	< .005	mg/l	10/21/03 09:46	WG130136
trans-1,2-Dichloroethene	< .001	mg/l	10/21/03 09:46	WG130136
trans-1,3-Dichloropropene	< .001	mg/l	10/21/03 09:46	WG130136
Trichloroethene	< .001	mg/l	10/21/03 09:46	WG130136
Trichlorofluoromethane	< .001	mg/l	10/21/03 09:46	WG130136
Vinyl chloride	< .001	mg/l	10/21/03 09:46	WG130136
1-Methylnaphthalene	< .01	ppm	10/22/03 17:35	WG130217
2-Methylnaphthalene	< .01	ppm	10/22/03 17:35	WG130217
Acenaphthene	< .01	ppm	10/22/03 17:35	WG130217
Acenaphthylene	< .01	ppm	10/22/03 17:35	WG130217
Anthracene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(a)anthracene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(a)pyrene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(b)fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(g,h,i)perylene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(k)fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Chrysene	< .01	ppm	10/22/03 17:35	WG130217
Dibenz(a,h)anthracene	< .01	ppm	10/22/03 17:35	WG130217
Fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Fluorene	< .01	ppm	10/22/03 17:35	WG130217
Indeno(1,2,3-cd)pyrene	< .01	ppm	10/22/03 17:35	WG130217
Naphthalene	< .01	ppm	10/22/03 17:35	WG130217
Phenanthrene	< .01	ppm	10/22/03 17:35	WG130217
Pyrene	< .01	ppm	10/22/03 17:35	WG130217
1-Methylnaphthalene	< .01	ppm	10/22/03 18:14	WG130308
2-Methylnaphthalene	< .01	ppm	10/22/03 18:14	WG130308
Acenaphthene	< .01	ppm	10/22/03 18:14	WG130308
Acenaphthylene	< .01	ppm	10/22/03 18:14	WG130308
Anthracene	< .01	ppm	10/22/03 18:14	WG130308
Benzo(a)anthracene	< .01	ppm	10/22/03 18:14	WG130308
Benzo(a)pyrene	< .01	ppm	10/22/03 18:14	WG130308
Benzo(b)fluoranthene	< .01	ppm	10/22/03 18:14	WG130308
Benzo(g,h,i)perylene	< .01	ppm	10/22/03 18:14	WG130308
Benzo(k)fluoranthene	< .01	ppm	10/22/03 18:14	WG130308
Chrysene	< .01	ppm	10/22/03 18:14	WG130308
Dibenz(a,h)anthracene	< .01	ppm	10/22/03 18:14	WG130308
Fluoranthene	< .01	ppm	10/22/03 18:14	WG130308
Fluorene	< .01	ppm	10/22/03 18:14	WG130308
Indeno(1,2,3-cd)pyrene	< .01	ppm	10/22/03 18:14	WG130308
Naphthalene	< .01	ppm	10/22/03 18:14	WG130308
Phenanthrene	< .01	ppm	10/22/03 18:14	WG130308
Pyrene	< .01	ppm	10/22/03 18:14	WG130308

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch

ENVIRONMENTAL
SCIENCE CORP.

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1,1,1-Trichloroethane	mg/l	.02	0.0218	109.	71-122	WG130132
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0228	114.	78-120	WG130132
1,1,2-Trichloroethane	mg/l	.02	0.0222	111.	82-117	WG130132
1,1-Dichloroethane	mg/l	.02	0.0227	113.	59-135	WG130132
1,1-Dichloroethene	mg/l	.02	0.0243	122.	60-166	WG130132
1,2-Dibromoethane	mg/l	.02	0.0234	117.	79-121	WG130132
1,2-Dichlorobenzene	mg/l	.05	0.0225	44.9	83-113	WG130132
1,2-Dichloroethane	mg/l	.02	0.0228	114.	81-122	WG130132
1,2-Dichloropropane	mg/l	.02	0.0233	117.	74-125	WG130132
1,3-Dichlorobenzene	mg/l	.05	0.0230	46.1	80-124	WG130132
1,4-Dichlorobenzene	mg/l	.05	0.0226	45.2	84-115	WG130132
2-Chloroethyl vinyl ether	mg/l	.1	0.101	101.	15-161	WG130132
Benzene	mg/l	.02	0.0227	113.	75-133	WG130132
Bromodichloromethane	mg/l	.02	0.0223	111.	76-117	WG130132
Bromoform	mg/l	.02	0.0228	114.	72-125	WG130132
Bromomethane	mg/l	.02	0.0189	94.5	25-170	WG130132
Carbon Tetrachloride	mg/l	.02	0.0210	105.	65-127	WG130132
Chlorobenzene	mg/l	.02	0.0222	111.	79-117	WG130132
Chlorodibromomethane	mg/l	.02	0.0213	106.	76-115	WG130132
Chloroethane	mg/l	.02	0.0177	88.4	37-130	WG130132
Chloroform	mg/l	.02	0.0212	106.	70-119	WG130132
Chloromethane	mg/l	.02	0.0139	69.7	39-109	WG130132
cis-1,2-Dichloroethene	mg/l	.02	0.0209	104.	72-128	WG130132
cis-1,3-Dichloropropene	mg/l	.02	0.0265	132.	86-137	WG130132
Di-isopropyl ether	mg/l	.02	0.0225	112.	54-147	WG130132
Dichlorodifluoromethane	mg/l	.02	0.00717	35.9	14-133	WG130132
Ethylbenzene	mg/l	.02	0.0220	110.	75-117	WG130132
m&p-Xylene	mg/l	.04	0.0445	111.	76-126	WG130132
Methyl tert-butyl ether	mg/l	.02	0.0212	106.	57-149	WG130132
Methylene chloride	mg/l	.02	0.0230	115.	60-127	WG130132
Naphthalene	mg/l	.05	0.0195	38.9	51-127	WG130132
o-Xylene	mg/l	.02	0.0215	108.	73-123	WG130132
Tetrachloroethene	mg/l	.02	0.0229	115.	71-132	WG130132
Toluene	mg/l	.02	0.0217	108.	68-122	WG130132
trans-1,2-Dichloroethene	mg/l	.02	0.0259	129.	65-141	WG130132
trans-1,3-Dichloropropene	mg/l	.02	0.0260	130.	82-132	WG130132
Trichloroethene	mg/l	.02	0.0246	123.	81-129	WG130132
Trichlorofluoromethane	mg/l	.02	0.0138	69.0	46-94	WG130132
Vinyl chloride	mg/l	.02	0.0134	67.1	40-95	WG130132
1,1,1-Trichloroethane	mg/l	.02	0.0204	102.	71-122	WG130136
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0180	90.1	78-120	WG130136
1,1,2-Trichloroethane	mg/l	.02	0.0203	101.	82-117	WG130136
1,1-Dichloroethane	mg/l	.02	0.0199	99.4	59-135	WG130136
1,1-Dichloroethene	mg/l	.02	0.0198	98.8	60-166	WG130136
1,2-Dibromoethane	mg/l	.02	0.0210	105.	79-121	WG130136
1,2-Dichlorobenzene	mg/l	.05	0.0197	39.4	83-113	WG130136
1,2-Dichloroethane	mg/l	.02	0.0215	108.	81-122	WG130136
1,2-Dichloropropane	mg/l	.02	0.0205	103.	74-125	WG130136
1,3-Dichlorobenzene	mg/l	.05	0.0198	39.6	80-124	WG130136
1,4-Dichlorobenzene	mg/l	.05	0.0204	40.9	84-115	WG130136
2-Chloroethyl vinyl ether	mg/l	.1	0.00916	9.16	15-161	WG130136
Benzene	mg/l	.02	0.0194	97.2	75-133	WG130136
Bromodichloromethane	mg/l	.02	0.0203	101.	76-117	WG130136
Bromoform	mg/l	.02	0.0186	93.1	72-125	WG130136
Bromomethane	mg/l	.02	0.0121	60.6	25-170	WG130136
Carbon Tetrachloride	mg/l	.02	0.0210	105.	65-127	WG130136
Chlorobenzene	mg/l	.02	0.0200	100.	79-117	WG130136
Chlorodibromomethane	mg/l	.02	0.0202	101.	76-115	WG130136
Chloroethane	mg/l	.02	0.0148	74.0	37-130	WG130136
Chloroform	mg/l	.02	0.0207	103.	70-119	WG130136
Chloromethane	mg/l	.02	0.0100	50.1	39-109	WG130136
cis-1,2-Dichloroethene	mg/l	.02	0.0180	89.8	72-128	WG130136

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cis-1,3-Dichloropropene	mg/l	.02	0.0242	121.	86-137	WG130136

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Di-isopropyl ether	mg/l	.02	0.0189	94.7	54-147	WG130136
Dichlorodifluoromethane	mg/l	.02	0.00944	47.2	14-133	WG130136
Ethylbenzene	mg/l	.02	0.0198	99.2	75-117	WG130136
m&p-Xylene	mg/l	.04	0.0401	100.	76-126	WG130136
Methyl tert-butyl ether	mg/l	.02	0.0187	93.4	57-149	WG130136
Methylene chloride	mg/l	.02	0.0199	99.7	60-127	WG130136
Naphthalene	mg/l	.05	0.0179	35.8	51-127	WG130136
o-Xylene	mg/l	.02	0.0199	99.7	73-123	WG130136
Tetrachloroethene	mg/l	.02	0.0201	100.	71-132	WG130136
Toluene	mg/l	.02	0.0192	96.2	68-122	WG130136
trans-1,2-Dichloroethene	mg/l	.02	0.0212	106.	65-141	WG130136
trans-1,3-Dichloropropene	mg/l	.02	0.0231	116.	82-132	WG130136
Trichloroethene	mg/l	.02	0.0224	112.	81-129	WG130136
Trichlorofluoromethane	mg/l	.02	0.0138	69.2	46-94	WG130136
Vinyl chloride	mg/l	.02	0.0125	62.4	40-95	WG130136
1-Methylnaphthalene	ppm	.05	0.0389	77.9	51-109	WG130217
2-Methylnaphthalene	ppm	.05	0.0417	83.4	40-106	WG130217
Acenaphthene	ppm	.05	0.0433	86.5	50-125	WG130217
Acenaphthylene	ppm	.05	0.0455	90.9	51-136	WG130217
Anthracene	ppm	.05	0.0507	101.	54-126	WG130217
Benzo(a)anthracene	ppm	.05	0.0533	107.	54-123	WG130217
Benzo(a)pyrene	ppm	.05	0.0575	115.	59-127	WG130217
Benzo(b)fluoranthene	ppm	.05	0.0607	121.	57-132	WG130217
Benzo(g,h,i)perylene	ppm	.05	0.0540	108.	39-161	WG130217
Benzo(k)fluoranthene	ppm	.05	0.0533	107.	54-127	WG130217
Chrysene	ppm	.05	0.0533	107.	53-125	WG130217
Dibenz(a,h)anthracene	ppm	.05	0.0550	110.	43-170	WG130217
Fluoranthene	ppm	.05	0.0489	97.9	50-126	WG130217
Fluorene	ppm	.05	0.0468	93.6	50-126	WG130217
Indeno(1,2,3-cd)pyrene	ppm	.05	0.0533	107.	42-155	WG130217
Naphthalene	ppm	.05	0.0409	81.8	51-127	WG130217
Phenanthrene	ppm	.05	0.0524	105.	54-122	WG130217
Pyrene	ppm	.05	0.0535	107.	50-127	WG130217
1-Methylnaphthalene	ppm	.05	0.0390	78.0	51-109	WG130308
2-Methylnaphthalene	ppm	.05	0.0423	84.5	40-106	WG130308
Acenaphthene	ppm	.05	0.0412	82.5	50-125	WG130308
Acenaphthylene	ppm	.05	0.0445	89.0	51-136	WG130308
Anthracene	ppm	.05	0.0550	110.	54-126	WG130308
Benzo(a)anthracene	ppm	.05	0.0576	115.	54-123	WG130308
Benzo(a)pyrene	ppm	.05	0.0606	121.	59-127	WG130308
Benzo(b)fluoranthene	ppm	.05	0.0660	132.	57-132	WG130308
Benzo(g,h,i)perylene	ppm	.05	0.0522	104.	39-161	WG130308
Benzo(k)fluoranthene	ppm	.05	0.0601	120.	54-127	WG130308
Chrysene	ppm	.05	0.0574	115.	53-125	WG130308
Dibenz(a,h)anthracene	ppm	.05	0.0497	99.5	43-170	WG130308
Fluoranthene	ppm	.05	0.0527	105.	50-126	WG130308
Fluorene	ppm	.05	0.0485	97.1	50-126	WG130308
Indeno(1,2,3-cd)pyrene	ppm	.05	0.0498	99.6	42-155	WG130308
Naphthalene	ppm	.05	0.0416	83.2	51-127	WG130308
Phenanthrene	ppm	.05	0.0550	110.	54-122	WG130308
Pyrene	ppm	.05	0.0624	125.	50-127	WG130308

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0206	0.0218	5.37	28	R176311-5	WG130132
1,1,2,2-Tetrachloroethane	mg/l	0.0212	0.0228	7.45	10	R176311-5	WG130132

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1,1,2-Trichloroethane	mg/l	0.0203	0.0222	9.19	16	R176311-5	WG130132

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
1,1-Dichloroethane	mg/l	0.0208	0.0227	8.74	17	R176311-5	WG130132
1,1-Dichloroethene	mg/l	0.0231	0.0243	5.14	36	R176311-5	WG130132
1,2-Dibromoethane	mg/l	0.0209	0.0234	11.2	19	R176311-5	WG130132
1,2-Dichlorobenzene	mg/l	0.0201	0.0225	11.3	16	R176311-5	WG130132
1,2-Dichloroethane	mg/l	0.0218	0.0228	4.44	13	R176311-5	WG130132
1,2-Dichloropropane	mg/l	0.0206	0.0233	12.7	14	R176311-5	WG130132
1,3-Dichlorobenzene	mg/l	0.0214	0.0230	7.57	25	R176311-5	WG130132
1,4-Dichlorobenzene	mg/l	0.0195	0.0226	14.4	18	R176311-5	WG130132
2-Chloroethyl vinyl ether	mg/l	0.0881	0.101	13.5	25	R176311-5	WG130132
Benzene	mg/l	0.0213	0.0227	6.09	20	R176311-5	WG130132
Bromodichloromethane	mg/l	0.0209	0.0223	6.40	13	R176311-5	WG130132
Bromoform	mg/l	0.0202	0.0228	12.3	18	R176311-5	WG130132
Bromomethane	mg/l	0.0168	0.0189	11.5	20	R176311-5	WG130132
Carbon Tetrachloride	mg/l	0.0208	0.0210	1.01	36	R176311-5	WG130132
Chlorobenzene	mg/l	0.0202	0.0222	9.44	21	R176311-5	WG130132
Chlorodibromomethane	mg/l	0.0197	0.0213	7.61	17	R176311-5	WG130132
Chloroethane	mg/l	0.0151	0.0177	15.6	25	R176311-5	WG130132
Chloroform	mg/l	0.0202	0.0212	4.88	26	R176311-5	WG130132
Chloromethane	mg/l	0.0141	0.0139	1.35	31	R176311-5	WG130132
cis-1,2-Dichloroethene	mg/l	0.0192	0.0209	8.44	18	R176311-5	WG130132
cis-1,3-Dichloropropene	mg/l	0.0244	0.0265	8.22	17	R176311-5	WG130132
Di-isopropyl ether	mg/l	0.0212	0.0225	5.86	48	R176311-5	WG130132
Dichlorodifluoromethane	mg/l	0.0089	0.0071	21.5	28	R176311-5	WG130132
Ethylbenzene	mg/l	0.0206	0.0220	6.52	25	R176311-5	WG130132
m&p-Xylene	mg/l	0.0414	0.0445	7.31	22	R176311-5	WG130132
Methyl tert-butyl ether	mg/l	0.0199	0.0212	6.09	34	R176311-5	WG130132
Methylene chloride	mg/l	0.0229	0.0230	0.480	16	R176311-5	WG130132
Naphthalene	mg/l	0.0183	0.0195	5.93	39	R176311-5	WG130132
o-Xylene	mg/l	0.0206	0.0215	4.37	20	R176311-5	WG130132
Tetrachloroethene	mg/l	0.0198	0.0229	14.8	32	R176311-5	WG130132
Toluene	mg/l	0.0202	0.0217	7.13	17	R176311-5	WG130132
trans-1,2-Dichloroethene	mg/l	0.0233	0.0259	10.6	27	R176311-5	WG130132
trans-1,3-Dichloropropene	mg/l	0.0235	0.0260	9.97	16	R176311-5	WG130132
Trichloroethene	mg/l	0.0221	0.0246	10.7	25	R176311-5	WG130132
Trichlorofluoromethane	mg/l	0.0137	0.0138	0.946	41	R176311-5	WG130132
Vinyl chloride	mg/l	0.0126	0.0134	6.62	36	R176311-5	WG130132
1,1,1-Trichloroethane	mg/l	0.0216	0.0204	5.62	28	R176198-5	WG130136
1,1,2,2-Tetrachloroethane	mg/l	0.0205	0.0180	12.9	10	R176198-5	WG130136
1,1,2-Trichloroethane	mg/l	0.0228	0.0203	11.8	16	R176198-5	WG130136
1,1-Dichloroethane	mg/l	0.0208	0.0199	4.38	17	R176198-5	WG130136
1,1-Dichloroethene	mg/l	0.0207	0.0198	4.84	36	R176198-5	WG130136
1,2-Dibromoethane	mg/l	0.0230	0.0210	9.13	19	R176198-5	WG130136
1,2-Dichlorobenzene	mg/l	0.0212	0.0197	7.19	16	R176198-5	WG130136
1,2-Dichloroethane	mg/l	0.0232	0.0215	7.42	13	R176198-5	WG130136
1,2-Dichloropropane	mg/l	0.0218	0.0205	5.96	14	R176198-5	WG130136
1,3-Dichlorobenzene	mg/l	0.0213	0.0198	7.39	25	R176198-5	WG130136
1,4-Dichlorobenzene	mg/l	0.0219	0.0204	6.72	18	R176198-5	WG130136
2-Chloroethyl vinyl ether	mg/l	0.0089	0.0091	2.54	25	R176198-5	WG130136
Benzene	mg/l	0.0205	0.0194	5.36	20	R176198-5	WG130136
Bromodichloromethane	mg/l	0.0221	0.0203	8.45	13	R176198-5	WG130136
Bromoform	mg/l	0.0216	0.0186	14.7	18	R176198-5	WG130136
Bromomethane	mg/l	0.0154	0.0121	23.6	20	R176198-5	WG130136
Carbon Tetrachloride	mg/l	0.0217	0.0210	3.32	36	R176198-5	WG130136
Chlorobenzene	mg/l	0.0217	0.0200	8.19	21	R176198-5	WG130136
Chlorodibromomethane	mg/l	0.0219	0.0202	7.85	17	R176198-5	WG130136
Chloroethane	mg/l	0.0161	0.0148	8.29	25	R176198-5	WG130136
Chloroform	mg/l	0.0218	0.0207	5.09	26	R176198-5	WG130136
Chloromethane	mg/l	0.0104	0.0100	4.21	31	R176198-5	WG130136

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cis-1,2-Dichloroethene	mg/l	0.0193	0.0180	7.40	18	R176198-5	WG130136

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/l	0.0256	0.0242	5.42	17	R176198-5	WG130136
Di-isopropyl ether	mg/l	0.0198	0.0189	4.59	48	R176198-5	WG130136
Dichlorodifluoromethane	mg/l	0.0102	0.0094	7.93	28	R176198-5	WG130136
Ethylbenzene	mg/l	0.0217	0.0198	8.77	25	R176198-5	WG130136
m&p-Xylene	mg/l	0.0435	0.0401	7.94	22	R176198-5	WG130136
Methyl tert-butyl ether	mg/l	0.0198	0.0187	5.77	34	R176198-5	WG130136
Methylene chloride	mg/l	0.0213	0.0199	6.78	16	R176198-5	WG130136
Naphthalene	mg/l	0.0193	0.0179	7.68	39	R176198-5	WG130136
o-Xylene	mg/l	0.0209	0.0199	4.94	20	R176198-5	WG130136
Tetrachloroethene	mg/l	0.0217	0.0201	8.04	32	R176198-5	WG130136
Toluene	mg/l	0.0202	0.0192	5.02	17	R176198-5	WG130136
trans-1,2-Dichloroethene	mg/l	0.0221	0.0212	4.16	27	R176198-5	WG130136
trans-1,3-Dichloropropene	mg/l	0.0244	0.0231	5.64	16	R176198-5	WG130136
Trichloroethene	mg/l	0.0243	0.0224	8.05	25	R176198-5	WG130136
Trichlorofluoromethane	mg/l	0.0149	0.0138	7.65	41	R176198-5	WG130136
Vinyl chloride	mg/l	0.0131	0.0125	5.15	36	R176198-5	WG130136
1-Methylnaphthalene	ppm	0.0397	0.0389	1.86	21	R176348-3	WG130217
2-Methylnaphthalene	ppm	0.0415	0.0417	0.336	20	R176348-3	WG130217
Acenaphthene	ppm	0.0460	0.0433	6.12	21	R176348-3	WG130217
Acenaphthylene	ppm	0.0473	0.0455	3.97	21	R176348-3	WG130217
Anthracene	ppm	0.0504	0.0507	0.653	20	R176348-3	WG130217
Benzo(a)anthracene	ppm	0.0556	0.0533	4.19	20	R176348-3	WG130217
Benzo(a)pyrene	ppm	0.0541	0.0575	6.08	22	R176348-3	WG130217
Benzo(b)fluoranthene	ppm	0.0564	0.0607	7.30	24	R176348-3	WG130217
Benzo(g,h,i)perylene	ppm	0.0491	0.0540	9.59	33	R176348-3	WG130217
Benzo(k)fluoranthene	ppm	0.0542	0.0533	1.56	23	R176348-3	WG130217
Chrysene	ppm	0.0571	0.0533	6.78	21	R176348-3	WG130217
Dibenz(a,h)anthracene	ppm	0.0483	0.0550	12.9	28	R176348-3	WG130217
Fluoranthene	ppm	0.0439	0.0489	10.9	21	R176348-3	WG130217
Fluorene	ppm	0.0508	0.0468	8.18	22	R176348-3	WG130217
Indeno(1,2,3-cd)pyrene	ppm	0.0480	0.0533	10.5	29	R176348-3	WG130217
Naphthalene	ppm	0.0405	0.0409	0.983	39	R176348-3	WG130217
Phenanthrene	ppm	0.0496	0.0524	5.49	22	R176348-3	WG130217
Pyrene	ppm	0.0595	0.0535	10.6	24	R176348-3	WG130217
1-Methylnaphthalene	ppm	0.0399	0.0390	2.23	21	R176350-3	WG130308
2-Methylnaphthalene	ppm	0.0429	0.0423	1.50	20	R176350-3	WG130308
Acenaphthene	ppm	0.0470	0.0412	13.1	21	R176350-3	WG130308
Acenaphthylene	ppm	0.0468	0.0445	5.00	21	R176350-3	WG130308
Anthracene	ppm	0.0602	0.0550	9.06	20	R176350-3	WG130308
Benzo(a)anthracene	ppm	0.0646	0.0576	11.4	20	R176350-3	WG130308
Benzo(a)pyrene	ppm	0.0671	0.0606	10.2	22	R176350-3	WG130308
Benzo(b)fluoranthene	ppm	0.0696	0.0660	5.25	24	R176350-3	WG130308
Benzo(g,h,i)perylene	ppm	0.0622	0.0522	17.5	33	R176350-3	WG130308
Benzo(k)fluoranthene	ppm	0.0691	0.0601	13.9	23	R176350-3	WG130308
Chrysene	ppm	0.0644	0.0574	11.5	21	R176350-3	WG130308
Dibenz(a,h)anthracene	ppm	0.0618	0.0497	21.5	28	R176350-3	WG130308
Fluoranthene	ppm	0.0538	0.0527	2.09	21	R176350-3	WG130308
Fluorene	ppm	0.0537	0.0485	10.1	22	R176350-3	WG130308
Indeno(1,2,3-cd)pyrene	ppm	0.0607	0.0498	19.7	29	R176350-3	WG130308
Naphthalene	ppm	0.0428	0.0416	2.77	39	R176350-3	WG130308
Phenanthrene	ppm	0.0611	0.0550	10.5	22	R176350-3	WG130308
Pyrene	ppm	0.0622	0.0624	0.369	24	R176350-3	WG130308

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0198	0.00	0.02	99.1	46-143	L131686-10	WG130132

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Tax I.D. 62-0814289

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Level II

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October 28, 2003

1,1,2,2-Tetrachloroethane	mg/l	0.0195	0.00	0.02	97.7	70-116	L131686-10	WG130132

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0197	0.00	0.02	98.6	70-122	L131686-10	WG130132
1,1-Dichloroethane	mg/l	0.0204	0.00	0.02	102.	47-138	L131686-10	WG130132
1,1-Dichloroethene	mg/l	0.0212	0.00	0.02	106.	56-162	L131686-10	WG130132
1,2-Dibromoethane	mg/l	0.0205	0.00	0.02	103.	74-121	L131686-10	WG130132
1,2-Dichlorobenzene	mg/l	0.0196	0.00	0.05	39.2	65-119	L131686-10	WG130132
1,2-Dichloroethane	mg/l	0.0211	0.00	0.02	105.	48-148	L131686-10	WG130132
1,2-Dichloropropane	mg/l	0.0210	0.00	0.02	105.	66-122	L131686-10	WG130132
1,3-Dichlorobenzene	mg/l	0.0203	0.00	0.05	40.6	62-122	L131686-10	WG130132
1,4-Dichlorobenzene	mg/l	0.0191	0.00	0.05	38.3	60-123	L131686-10	WG130132
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.1	0.0	0-100	L131686-10	WG130132
Benzene	mg/l	0.0203	0.00	0.02	102.	66-127	L131686-10	WG130132
Bromodichloromethane	mg/l	0.0205	0.00	0.02	102.	57-126	L131686-10	WG130132
Bromoform	mg/l	0.0196	0.00	0.02	97.9	52-130	L131686-10	WG130132
Bromomethane	mg/l	0.0141	0.00	0.02	70.3	17-150	L131686-10	WG130132
Carbon Tetrachloride	mg/l	0.0193	0.00	0.02	96.6	42-141	L131686-10	WG130132
Chlorobenzene	mg/l	0.0207	0.00	0.02	103.	66-125	L131686-10	WG130132
Chlorodibromomethane	mg/l	0.0198	0.00	0.02	99.0	58-123	L131686-10	WG130132
Chloroethane	mg/l	0.0159	0.00	0.02	79.4	29-131	L131686-10	WG130132
Chloroform	mg/l	0.0187	0.00	0.02	93.6	46-136	L131686-10	WG130132
Chloromethane	mg/l	0.0136	0.00	0.02	68.0	26-120	L131686-10	WG130132
cis-1,2-Dichloroethene	mg/l	0.0192	0.00	0.02	96.1	59-133	L131686-10	WG130132
cis-1,3-Dichloropropene	mg/l	0.0232	0.00	0.02	116.	77-132	L131686-10	WG130132
Di-isopropyl ether	mg/l	0.0213	0.00	0.02	107.	41-135	L131686-10	WG130132
Dichlorodifluoromethane	mg/l	0.0088	0.00	0.02	44.4	13-113	L131686-10	WG130132
Ethylbenzene	mg/l	0.0200	0.00	0.02	100.	61-123	L131686-10	WG130132
m&p-Xylene	mg/l	0.0394	0.00	0.04	98.4	71-127	L131686-10	WG130132
Methyl tert-butyl ether	mg/l	0.0189	0.00	0.02	94.4	56-144	L131686-10	WG130132
Methylene chloride	mg/l	0.0240	0.00	0.02	120.	55-123	L131686-10	WG130132
Naphthalene	mg/l	0.0174	0.00	0.05	34.8	39-122	L131686-10	WG130132
o-Xylene	mg/l	0.0200	0.00	0.02	100.	70-126	L131686-10	WG130132
Tetrachloroethene	mg/l	0.0190	0.00	0.02	94.8	49-144	L131686-10	WG130132
Toluene	mg/l	0.0191	0.00	0.02	95.5	59-123	L131686-10	WG130132
trans-1,2-Dichloroethene	mg/l	0.0227	0.00	0.02	113.	53-145	L131686-10	WG130132
trans-1,3-Dichloropropene	mg/l	0.0225	0.00	0.02	112.	69-125	L131686-10	WG130132
Trichloroethene	mg/l	0.0209	0.00	0.02	104.	61-141	L131686-10	WG130132
Trichlorofluoromethane	mg/l	0.0129	0.00	0.02	64.5	24-113	L131686-10	WG130132
Vinyl chloride	mg/l	0.0126	0.00	0.02	62.8	26-110	L131686-10	WG130132
1,1,1-Trichloroethane	mg/l	0.0202	0.00	0.02	101.	46-143	L131688-08	WG130136
1,1,2,2-Tetrachloroethane	mg/l	0.0185	0.00	0.02	92.4	70-116	L131688-08	WG130136
1,1,2-Trichloroethane	mg/l	0.0200	0.00	0.02	100.	70-122	L131688-08	WG130136
1,1-Dichloroethane	mg/l	0.0192	0.00	0.02	95.9	47-138	L131688-08	WG130136
1,1-Dichloroethene	mg/l	0.0186	0.00	0.02	92.8	56-162	L131688-08	WG130136
1,2-Dibromoethane	mg/l	0.0202	0.00	0.02	101.	74-121	L131688-08	WG130136
1,2-Dichlorobenzene	mg/l	0.0176	0.00	0.05	35.2	65-119	L131688-08	WG130136
1,2-Dichloroethane	mg/l	0.0231	0.00	0.02	116.	48-148	L131688-08	WG130136
1,2-Dichloropropane	mg/l	0.0197	0.00	0.02	98.7	66-122	L131688-08	WG130136
1,3-Dichlorobenzene	mg/l	0.0165	0.00	0.05	32.9	62-122	L131688-08	WG130136
1,4-Dichlorobenzene	mg/l	0.0178	0.00	0.05	35.5	60-123	L131688-08	WG130136
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.1	0.0	0-100	L131688-08	WG130136
Benzene	mg/l	0.0221	0.0037	0.02	91.9	66-127	L131688-08	WG130136
Bromodichloromethane	mg/l	0.0205	0.00	0.02	103.	57-126	L131688-08	WG130136
Bromoform	mg/l	0.0184	0.00	0.02	92.2	52-130	L131688-08	WG130136
Bromomethane	mg/l	0.0182	0.00	0.02	90.9	17-150	L131688-08	WG130136
Carbon Tetrachloride	mg/l	0.0207	0.00	0.02	104.	42-141	L131688-08	WG130136
Chlorobenzene	mg/l	0.0185	0.00	0.02	92.4	66-125	L131688-08	WG130136
Chlorodibromomethane	mg/l	0.0199	0.00	0.02	99.7	58-123	L131688-08	WG130136
Chloroethane	mg/l	0.0144	0.00	0.02	71.8	29-131	L131688-08	WG130136
Chloroform	mg/l	0.0196	0.0010	0.02	93.0	46-136	L131688-08	WG130136

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Chloromethane	mg/l	0.0104	0.00	0.02	52.2	26-120	L131688-08	WG130136

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
cis-1,2-Dichloroethene	mg/l	0.0176	0.00	0.02	87.9	59-133	L131688-08	WG130136
cis-1,3-Dichloropropene	mg/l	0.0228	0.00	0.02	114.	77-132	L131688-08	WG130136
Di-isopropyl ether	mg/l	0.0189	0.00	0.02	94.6	41-135	L131688-08	WG130136
Dichlorodifluoromethane	mg/l	0.0107	0.00	0.02	53.4	13-113	L131688-08	WG130136
Ethylbenzene	mg/l	0.0187	0.00	0.02	93.4	61-123	L131688-08	WG130136
m&p-Xylene	mg/l	0.0372	0.00	0.04	92.9	71-127	L131688-08	WG130136
Methyl tert-butyl ether	mg/l	0.0583	0.0390	0.02	96.3	56-144	L131688-08	WG130136
Methylene chloride	mg/l	0.0223	0.00	0.02	112.	55-123	L131688-08	WG130136
Naphthalene	mg/l	0.0164	0.00	0.05	32.9	39-122	L131688-08	WG130136
o-Xylene	mg/l	0.0196	0.00	0.02	98.1	70-126	L131688-08	WG130136
Tetrachloroethene	mg/l	0.0175	0.00	0.02	87.6	49-144	L131688-08	WG130136
Toluene	mg/l	0.0202	0.00	0.02	101.	59-123	L131688-08	WG130136
trans-1,2-Dichloroethene	mg/l	0.0198	0.00	0.02	99.2	53-145	L131688-08	WG130136
trans-1,3-Dichloropropene	mg/l	0.0223	0.00	0.02	111.	69-125	L131688-08	WG130136
Trichloroethene	mg/l	0.0209	0.00	0.02	105.	61-141	L131688-08	WG130136
Trichlorofluoromethane	mg/l	0.0144	0.00	0.02	72.0	24-113	L131688-08	WG130136
Vinyl chloride	mg/l	0.0122	0.00	0.02	61.0	26-110	L131688-08	WG130136

Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0192	0.0198	3.18	28	96.0	L131686-10	WG130132
1,1,2,2-Tetrachloroethane	mg/l	0.0186	0.0195	5.09	10	92.8	L131686-10	WG130132
1,1,2-Trichloroethane	mg/l	0.0195	0.0197	1.12	16	97.5	L131686-10	WG130132
1,1-Dichloroethane	mg/l	0.0201	0.0204	1.29	17	100.	L131686-10	WG130132
1,1-Dichloroethene	mg/l	0.0217	0.0212	2.28	36	109.	L131686-10	WG130132
1,2-Dibromoethane	mg/l	0.0197	0.0205	4.33	19	98.3	L131686-10	WG130132
1,2-Dichlorobenzene	mg/l	0.0188	0.0196	4.48	16	37.5	L131686-10	WG130132
1,2-Dichloroethane	mg/l	0.0201	0.0211	4.52	13	101.	L131686-10	WG130132
1,2-Dichloropropane	mg/l	0.0203	0.0210	3.25	14	101.	L131686-10	WG130132
1,3-Dichlorobenzene	mg/l	0.0201	0.0203	1.04	25	40.2	L131686-10	WG130132
1,4-Dichlorobenzene	mg/l	0.0179	0.0191	6.64	18	35.8	L131686-10	WG130132
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.00	25	0.00	L131686-10	WG130132
Benzene	mg/l	0.0204	0.0203	0.246	20	102.	L131686-10	WG130132
Bromodichloromethane	mg/l	0.0205	0.0205	0.342	13	103.	L131686-10	WG130132
Bromoform	mg/l	0.0184	0.0196	6.11	18	92.1	L131686-10	WG130132
Bromomethane	mg/l	0.0140	0.0141	0.499	20	69.9	L131686-10	WG130132
Carbon Tetrachloride	mg/l	0.0184	0.0193	5.15	36	91.8	L131686-10	WG130132
Chlorobenzene	mg/l	0.0200	0.0207	3.15	21	100.	L131686-10	WG130132
Chlorodibromomethane	mg/l	0.0190	0.0198	4.02	17	95.1	L131686-10	WG130132
Chloroethane	mg/l	0.0149	0.0159	6.23	25	74.6	L131686-10	WG130132
Chloroform	mg/l	0.0184	0.0187	1.89	26	91.9	L131686-10	WG130132
Chloromethane	mg/l	0.0135	0.0136	0.516	31	67.7	L131686-10	WG130132
cis-1,2-Dichloroethene	mg/l	0.0193	0.0192	0.312	18	96.4	L131686-10	WG130132
cis-1,3-Dichloropropene	mg/l	0.0231	0.0232	0.432	17	115.	L131686-10	WG130132
Di-isopropyl ether	mg/l	0.0202	0.0213	5.34	48	101.	L131686-10	WG130132
Dichlorodifluoromethane	mg/l	0.0087	0.0088	1.71	28	43.6	L131686-10	WG130132
Ethylbenzene	mg/l	0.0197	0.0200	1.46	25	98.6	L131686-10	WG130132
m&p-Xylene	mg/l	0.0399	0.0394	1.21	22	99.6	L131686-10	WG130132
Methyl tert-butyl ether	mg/l	0.0183	0.0189	3.29	16	91.3	L131686-10	WG130132
Methylene chloride	mg/l	0.0235	0.0240	2.07	16	117.	L131686-10	WG130132
Naphthalene	mg/l	0.0184	0.0174	5.76	39	36.8	L131686-10	WG130132
o-Xylene	mg/l	0.0198	0.0200	1.11	20	98.9	L131686-10	WG130132
Tetrachloroethene	mg/l	0.0190	0.0190	0.211	32	95.0	L131686-10	WG130132
Toluene	mg/l	0.0191	0.0191	0.157	17	95.4	L131686-10	WG130132
trans-1,2-Dichloroethene	mg/l	0.0216	0.0227	4.74	27	108.	L131686-10	WG130132
trans-1,3-Dichloropropene	mg/l	0.0225	0.0225	0.222	16	113.	L131686-10	WG130132
Trichloroethene	mg/l	0.0210	0.0209	0.430	25	105.	L131686-10	WG130132
Trichlorofluoromethane	mg/l	0.0125	0.0129	3.31	41	62.4	L131686-10	WG130132

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Vinyl chloride	mg/l	0.0125	0.0126	0.479	36	62.5	L131686-10	WG130132

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0219	0.0202	7.65	28	109.	L131688-08	WG130136
1,1,2,2-Tetrachloroethane	mg/l	0.0198	0.0185	7.10	10	99.2	L131688-08	WG130136
1,1,2-Trichloroethane	mg/l	0.0218	0.0200	8.65	16	109.	L131688-08	WG130136
1,1-Dichloroethane	mg/l	0.0209	0.0192	8.68	17	105.	L131688-08	WG130136
1,1-Dichloroethene	mg/l	0.0198	0.0186	6.41	36	99.0	L131688-08	WG130136
1,2-Dibromoethane	mg/l	0.0219	0.0202	7.80	19	109.	L131688-08	WG130136
1,2-Dichlorobenzene	mg/l	0.0190	0.0176	7.76	16	38.0	L131688-08	WG130136
1,2-Dichloroethane	mg/l	0.0240	0.0231	3.74	13	120.	L131688-08	WG130136
1,2-Dichloropropane	mg/l	0.0214	0.0197	8.12	14	107.	L131688-08	WG130136
1,3-Dichlorobenzene	mg/l	0.0184	0.0165	11.2	25	36.8	L131688-08	WG130136
1,4-Dichlorobenzene	mg/l	0.0193	0.0178	8.20	18	38.6	L131688-08	WG130136
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.00	25	0.00	L131688-08	WG130136
Benzene	mg/l	0.0245	0.0221	10.2	20	104.	L131688-08	WG130136
Bromodichloromethane	mg/l	0.0217	0.0205	5.64	13	109.	L131688-08	WG130136
Bromoform	mg/l	0.0196	0.0184	5.95	18	97.9	L131688-08	WG130136
Bromomethane	mg/l	0.0170	0.0182	6.65	20	85.1	L131688-08	WG130136
Carbon Tetrachloride	mg/l	0.0223	0.0207	7.30	36	111.	L131688-08	WG130136
Chlorobenzene	mg/l	0.0199	0.0185	7.35	21	99.5	L131688-08	WG130136
Chlorodibromomethane	mg/l	0.0209	0.0199	4.85	17	105.	L131688-08	WG130136
Chloroethane	mg/l	0.0149	0.0144	3.69	25	74.5	L131688-08	WG130136
Chloroform	mg/l	0.0216	0.0196	9.71	26	103.	L131688-08	WG130136
Chloromethane	mg/l	0.0113	0.0104	8.36	31	56.7	L131688-08	WG130136
cis-1,2-Dichloroethene	mg/l	0.0189	0.0176	7.29	18	94.6	L131688-08	WG130136
cis-1,3-Dichloropropene	mg/l	0.0246	0.0228	7.47	17	123.	L131688-08	WG130136
Di-isopropyl ether	mg/l	0.0200	0.0189	5.65	48	100.	L131688-08	WG130136
Dichlorodifluoromethane	mg/l	0.0122	0.0107	13.1	28	60.8	L131688-08	WG130136
Ethylbenzene	mg/l	0.0319	0.0187	52.1	25	159.	L131688-08	WG130136
m&p-Xylene	mg/l	0.0831	0.0372	76.4	22	208.	L131688-08	WG130136
Methyl tert-butyl ether	mg/l	0.0607	0.0583	4.02	16	108.	L131688-08	WG130136
Methylene chloride	mg/l	0.0238	0.0223	6.38	16	119.	L131688-08	WG130136
Naphthalene	mg/l	0.0256	0.0164	43.4	39	51.1	L131688-08	WG130136
o-Xylene	mg/l	0.0414	0.0196	71.5	20	207.	L131688-08	WG130136
Tetrachloroethene	mg/l	0.0198	0.0175	12.2	32	98.9	L131688-08	WG130136
Toluene	mg/l	0.0468	0.0202	79.3	17	234.	L131688-08	WG130136
trans-1,2-Dichloroethene	mg/l	0.0215	0.0198	7.99	27	107.	L131688-08	WG130136
trans-1,3-Dichloropropene	mg/l	0.0239	0.0223	7.01	16	120.	L131688-08	WG130136
Trichloroethene	mg/l	0.0223	0.0209	6.34	25	111.	L131688-08	WG130136
Trichlorofluoromethane	mg/l	0.0153	0.0144	5.80	41	76.3	L131688-08	WG130136
Vinyl chloride	mg/l	0.0135	0.0122	9.75	36	67.3	L131688-08	WG130136

Batch number /Run number / Sample number cross reference

WG130136: R176198: L131686-11 12 13 14 15 16 17
WG130132: R176311: L131686-01 02 03 04 05 06 07 08 09 10
WG130217: R176348 R176672: L131686-01 02 04 05 07 08 10 14 09 11 12 13
WG130308: R176350: L131686-15 16 17

* See Attachment B of standard report for list of qualifiers.
* Calculations are performed prior to rounding of reported values

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Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131686

October 28, 2003

ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Quantum Environmental Inc.

6001 Chapel Hill Road. Suite 108
Raleigh,NC 27607

Alternate billing information:

Chain of Custody
Page 1 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mike Dwyer
Email: mdwyer@QUANTUMCOs.c

Project Description: Nello Teer
City/State Collected

Phone: (919) 852-3595
FAX: (919) 852-1997
Client Project #: 0013-94-012
Lab Project #: OUANTUM-001394012

Collected by (print): Davis / Dwyer
Site/Facility ID#:
P.O.#:

Collected by (signature): [signature]
Packed on Ice N Y X

Rush? (Lab MUST Be Notified)
___Same Day 200%
___Next Day. 100%
___Two Day 50%

Date Results Needed
Email? __No X Yes
FAX? No Yes

CoCode: OUANTUM (lab use only)
Template/Prelogin T18182/ P94679
Cooler #: 1012 Ham
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV610 1L-Amb-NoPres	V601/602 40mlAmb-HCl						Remarks/Contaminant	Sample # (lab only)
MW-7	G	GW		10/17/03	1100	4	X	X							L131686-01
MW-1		GW			1225	4	X	X							02
MW-17		GW			1255	4 2	[illegible]	X							03
MW-18		GW			1210	4	X	X							04
MW-26		GW			1230	4	X	X							05
MW-11		GW			1330	4 2	[illegible]	X							06
MW-9		GW			1100	4	X	X							07
MW-23		GW			1040	4	X	X							08
MW-15		GW			1030	4	X	X							09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]	10/17/03	1610			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6°C Bottles Received: 59 + 1 ZB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 10/18/03 Time: 1030	pH Checked: NCF: X

Quantum Environmental Inc.

6001 Chapel Hill Road. Suite 108
Raleigh,NC 27607

Alternate billing information:

Chain of Custody
Page 2 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mike Dwyer
Email: mdwyer@QUANTUMCOs.c
Project Description: Nello Teer
City/State Collected
Phone: (919) 852-3595
FAX: (919) 852-1997
Client Project #: 0013-94-012
Lab Project #: OUANTUM-001394012
Collected by (print): Davis Dwyer
Site/Facility ID#:
P.O.#:
Collected by (signature): [signature]
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed
Email? ___No X Yes
FAX? No Yes

CoCode: OUANTUM (lab use only)
Template/Prelogin: T18182/ P94679
Cooler #: 10/2 Ham
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV610 1L-Amb-NoPres	V601/602 40mlAmb-HCl						Remarks/Contaminant	Sample # (lab only)
MW-29	G	GW		10/17/03	1247	4	X	X							L1316816-10
MW-29I		GW			1325	4	X	X							11
MW-25i		GW			1355	4	X	X							12
MW-25		GW			1350	4	X	X							13
RW-5		GW			1423	X3	X	X							14
RW-6		GW			1434	4	X	X							15
RW-7		GW			1438	4	X	X							16
RW-9		GW			1427	4	X	X							17
		GW				4	X	X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]	10/17/03	1610			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6° Bottles Received: 54 HCB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/18/03 Time: 1030	pH Checked: NCF: X

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L131686

Date: 10/18/03

Evaluated by: Jeremy

Client: QUANTUM

Non-Conformance (check applicable items)

_____	Chain of Custody is missing	_____	Login Clarification Needed
_____	Improper container type	_____	Improper preservation
_____	Chain of custody is incomplete	_____	Container lid not in tact
_____	Parameter(s) past holding time	_____	Improper temperature
_____	Broken container(s) see below.	X	Broken container: sufficient sample volume remains for analysis requested

_____ Insufficient packing material around container

_____ Insufficient packing material inside cooler

_____ Improper handling by carrier (FedEx / UPS / Courier)

_____ Sample was frozen

Comments: RW-5 - one 1 Liter Amb received broken

Login Instructions:

TSR Initials: _____

Client informed by call / email / fax / voice mail date: _____ time: _____

Client contact: _____

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-01

Sample ID : RW-8

Site ID :

Collected By : Davis
Collection Date : 10/20/03 10:15

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	16.	5.0	ug/l	601/602MS	10/24/03	5
Bromodichloromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Bromoform	BDL	5.0	ug/l	601/602MS	10/24/03	5
Bromomethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Carbon Tetrachloride	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chlorodibromomethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
2-Chloroethyl vinyl ether	BDL	250	ug/l	601/602MS	10/24/03	5
Chloroform	22.	5.0	ug/l	601/602MS	10/24/03	5
Chloromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dibromoethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,3-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,4-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Dichlorodifluoromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1-Dichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
cis-1,2-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
trans-1,2-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichloropropane	BDL	5.0	ug/l	601/602MS	10/24/03	5
cis-1,3-Dichloropropene	BDL	5.0	ug/l	601/602MS	10/24/03	5
trans-1,3-Dichloropropene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Di-isopropyl ether	BDL	25.	ug/l	601/602MS	10/24/03	5
Ethylbenzene	7.9	5.0	ug/l	601/602MS	10/24/03	5
Methylene chloride	BDL	25.	ug/l	601/602MS	10/24/03	5
Methyl tert-butyl ether	BDL	25.	ug/l	601/602MS	10/24/03	5
Naphthalene	55.	25.	ug/l	601/602MS	10/24/03	5
1,1,2,2-Tetrachloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Tetrachloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1,1-Trichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1,2-Trichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Trichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Trichlorofluoromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Toluene	BDL	25.	ug/l	601/602MS	10/24/03	5
Vinyl chloride	BDL	5.0	ug/l	601/602MS	10/24/03	5
o-Xylene	BDL	5.0	ug/l	601/602MS	10/24/03	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-01

Sample ID : RW-8

Site ID :

Collected By : Davis
Collection Date : 10/20/03 10:15

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	10.	10.	ug/l	601/602MS	10/24/03	5
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Acenaphthene	4.2	1.0	ug/l	610MS	10/27/03	1
Acenaphthylene	1.3	1.0	ug/l	610MS	10/27/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/27/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Fluorene	6.2	1.0	ug/l	610MS	10/27/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/27/03	1
1-Methylnaphthalene	41.	1.0	ug/l	610MS	10/27/03	1
2-Methylnaphthalene	34.	1.0	ug/l	610MS	10/27/03	1
Naphthalene	23.	1.0	ug/l	610MS	10/27/03	1
Phenanthrene	9.6	1.0	ug/l	610MS	10/27/03	1
Pyrene	1.9	1.0	ug/l	610MS	10/27/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/28/03 15:37 Printed: 10/28/03 15:37

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-02

Sample ID : RW-3

Site ID :

Collected By : Davis
Collection Date : 10/20/03 10:25

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	64.	5.0	ug/l	601/602MS	10/24/03	5
Bromodichloromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Bromoform	BDL	5.0	ug/l	601/602MS	10/24/03	5
Bromomethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Carbon Tetrachloride	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chlorodibromomethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Chloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
2-Chloroethyl vinyl ether	BDL	250	ug/l	601/602MS	10/24/03	5
Chloroform	22.	5.0	ug/l	601/602MS	10/24/03	5
Chloromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dibromoethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,3-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,4-Dichlorobenzene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Dichlorodifluoromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1-Dichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
cis-1,2-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
trans-1,2-Dichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,2-Dichloropropane	BDL	5.0	ug/l	601/602MS	10/24/03	5
cis-1,3-Dichloropropene	BDL	5.0	ug/l	601/602MS	10/24/03	5
trans-1,3-Dichloropropene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Di-isopropyl ether	38.	25.	ug/l	601/602MS	10/24/03	5
Ethylbenzene	64.	5.0	ug/l	601/602MS	10/24/03	5
Methylene chloride	BDL	25.	ug/l	601/602MS	10/24/03	5
Methyl tert-butyl ether	BDL	25.	ug/l	601/602MS	10/24/03	5
Naphthalene	130	25.	ug/l	601/602MS	10/24/03	5
1,1,2,2-Tetrachloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Tetrachloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1,1-Trichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
1,1,2-Trichloroethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Trichloroethene	BDL	5.0	ug/l	601/602MS	10/24/03	5
Trichlorofluoromethane	BDL	5.0	ug/l	601/602MS	10/24/03	5
Toluene	56.	25.	ug/l	601/602MS	10/24/03	5
Vinyl chloride	BDL	5.0	ug/l	601/602MS	10/24/03	5
o-Xylene	17.	5.0	ug/l	601/602MS	10/24/03	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-02

Sample ID : RW-3

Site ID :

Project # : 0013-94-012

Collected By : Davis
Collection Date : 10/20/03 10:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	120	10.	ug/l	601/602MS	10/24/03	5
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/28/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/28/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/28/03	1
Benzo(a)anthracene	4.5	1.0	ug/l	610MS	10/28/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/28/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/28/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/28/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/28/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/28/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/28/03	1
Fluoranthene	23.	1.0	ug/l	610MS	10/28/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/28/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/28/03	1
1-Methylnaphthalene	110	1.0	ug/l	610MS	10/28/03	1
2-Methylnaphthalene	87.	1.0	ug/l	610MS	10/28/03	1
Naphthalene	63.	1.0	ug/l	610MS	10/28/03	1
Phenanthrene	270	1.0	ug/l	610MS	10/28/03	1
Pyrene	54.	1.0	ug/l	610MS	10/28/03	1

John V. Holmes for
Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-03

Sample ID : RW-1

Site ID :

Collected By : Davis
Collection Date : 10/20/03 12:00

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	5.5	1.0	ug/l	601/602MS	10/22/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/22/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/22/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/22/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/22/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/22/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/22/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/22/03	1
cis-1,2-Dichloroethene	2.2	1.0	ug/l	601/602MS	10/22/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/22/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/22/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/22/03	1
Di-isopropyl ether	9.5	5.0	ug/l	601/602MS	10/22/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/22/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/22/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/22/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/22/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Trichloroethene	2.0	1.0	ug/l	601/602MS	10/22/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/22/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/22/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/22/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/22/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 28,2003

Date Received : October 21, 2003
Description : Nello Teer

ESC Sample # : L131827-03

Sample ID : RW-1

Site ID :

Collected By : Davis
Collection Date : 10/20/03 12:00

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/22/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/27/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/27/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/27/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/27/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/27/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/27/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/27/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/27/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/27/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/27/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/27/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/27/03	1

Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L131827-01	Bromomethane	J4J3
	2-Chloroethyl vinyl ether	J3
	cis-1,3-Dichloropropene	J4
L131827-02	1-Methylnaphthalene	E
	2-Methylnaphthalene	E
	Phenanthrene	E
	Bromomethane	J4J3
	2-Chloroethyl vinyl ether	J3
	cis-1,3-Dichloropropene	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits						
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	79-126	83-119
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	81-114	82-116
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	65-129	72-126

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131827

October 28, 2003

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1-Trichloroethane	< .001	mg/l	10/21/03 10:05	WG130056
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/21/03 10:05	WG130056
1,1,2-Trichloroethane	< .001	mg/l	10/21/03 10:05	WG130056
1,1-Dichloroethane	< .001	mg/l	10/21/03 10:05	WG130056
1,1-Dichloroethene	< .001	mg/l	10/21/03 10:05	WG130056
1,2-Dibromoethane	< .001	mg/l	10/21/03 10:05	WG130056
1,2-Dichlorobenzene	< .001	mg/l	10/21/03 10:05	WG130056
1,2-Dichloroethane	< .001	mg/l	10/21/03 10:05	WG130056
1,2-Dichloropropane	< .001	mg/l	10/21/03 10:05	WG130056
1,3-Dichlorobenzene	< .001	mg/l	10/21/03 10:05	WG130056
1,4-Dichlorobenzene	< .001	mg/l	10/21/03 10:05	WG130056
2-Chloroethyl vinyl ether	< .001	mg/l	10/21/03 10:05	WG130056
Benzene	< .001	mg/l	10/21/03 10:05	WG130056
Bromodichloromethane	< .001	mg/l	10/21/03 10:05	WG130056
Bromoform	< .001	mg/l	10/21/03 10:05	WG130056
Bromomethane	< .001	mg/l	10/21/03 10:05	WG130056
Carbon Tetrachloride	< .001	mg/l	10/21/03 10:05	WG130056
Chlorobenzene	< .001	mg/l	10/21/03 10:05	WG130056
Chlorodibromomethane	< .001	mg/l	10/21/03 10:05	WG130056
Chloroethane	< .001	mg/l	10/21/03 10:05	WG130056
Chloroform	< .005	mg/l	10/21/03 10:05	WG130056
Chloromethane	< .001	mg/l	10/21/03 10:05	WG130056
cis-1,2-Dichloroethene	< .001	mg/l	10/21/03 10:05	WG130056
cis-1,3-Dichloropropene	< .001	mg/l	10/21/03 10:05	WG130056
Di-isopropyl ether	< .001	mg/l	10/21/03 10:05	WG130056
Dichlorodifluoromethane	< .001	mg/l	10/21/03 10:05	WG130056
Ethylbenzene	< .001	mg/l	10/21/03 10:05	WG130056
m&p-Xylene	< .002	mg/l	10/21/03 10:05	WG130056
Methyl tert-butyl ether	< .001	mg/l	10/21/03 10:05	WG130056
Methylene chloride	< .005	mg/l	10/21/03 10:05	WG130056
Naphthalene	< .005	mg/l	10/21/03 10:05	WG130056
o-Xylene	< .001	mg/l	10/21/03 10:05	WG130056
Tetrachloroethene	< .001	mg/l	10/21/03 10:05	WG130056
Toluene	< .005	mg/l	10/21/03 10:05	WG130056
trans-1,2-Dichloroethene	< .001	mg/l	10/21/03 10:05	WG130056
trans-1,3-Dichloropropene	< .001	mg/l	10/21/03 10:05	WG130056
Trichloroethene	< .001	mg/l	10/21/03 10:05	WG130056
Trichlorofluoromethane	< .001	mg/l	10/21/03 10:05	WG130056
Vinyl chloride	< .001	mg/l	10/21/03 10:05	WG130056
1,1,1-Trichloroethane	< .001	mg/l	10/23/03 12:55	WG130494
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/23/03 12:55	WG130494
1,1,2-Trichloroethane	< .001	mg/l	10/23/03 12:55	WG130494
1,1-Dichloroethane	< .001	mg/l	10/23/03 12:55	WG130494
1,1-Dichloroethene	< .001	mg/l	10/23/03 12:55	WG130494
1,2-Dibromoethane	< .001	mg/l	10/23/03 12:55	WG130494
1,2-Dichlorobenzene	< .001	mg/l	10/23/03 12:55	WG130494
1,2-Dichloroethane	< .001	mg/l	10/23/03 12:55	WG130494
1,2-Dichloropropane	< .001	mg/l	10/23/03 12:55	WG130494
1,3-Dichlorobenzene	< .001	mg/l	10/23/03 12:55	WG130494
1,4-Dichlorobenzene	< .001	mg/l	10/23/03 12:55	WG130494
2-Chloroethyl vinyl ether	< .001	mg/l	10/23/03 12:55	WG130494
Benzene	< .001	mg/l	10/23/03 12:55	WG130494
Bromodichloromethane	< .001	mg/l	10/23/03 12:55	WG130494
Bromoform	< .001	mg/l	10/23/03 12:55	WG130494
Bromomethane	< .001	mg/l	10/23/03 12:55	WG130494
Carbon Tetrachloride	< .001	mg/l	10/23/03 12:55	WG130494
Chlorobenzene	< .001	mg/l	10/23/03 12:55	WG130494
Chlorodibromomethane	< .001	mg/l	10/23/03 12:55	WG130494
Chloroethane	< .001	mg/l	10/23/03 12:55	WG130494

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Mr. Mike Dwyer
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Raleigh, NC 27607

Quality Assurance Report
Level II

L131827

October 28, 2003

Chloroform	< .005	mg/l	10/23/03 12:55	WG130494

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chloromethane	< .001	mg/l	10/23/03 12:55	WG130494
cis-1,2-Dichloroethene	< .001	mg/l	10/23/03 12:55	WG130494
cis-1,3-Dichloropropene	< .001	mg/l	10/23/03 12:55	WG130494
Di-isopropyl ether	< .001	mg/l	10/23/03 12:55	WG130494
Dichlorodifluoromethane	< .001	mg/l	10/23/03 12:55	WG130494
Ethylbenzene	< .001	mg/l	10/23/03 12:55	WG130494
m&p-Xylene	< .002	mg/l	10/23/03 12:55	WG130494
Methyl tert-butyl ether	< .001	mg/l	10/23/03 12:55	WG130494
Methylene chloride	< .005	mg/l	10/23/03 12:55	WG130494
Naphthalene	< .005	mg/l	10/23/03 12:55	WG130494
o-Xylene	< .001	mg/l	10/23/03 12:55	WG130494
Tetrachloroethene	< .001	mg/l	10/23/03 12:55	WG130494
Toluene	< .005	mg/l	10/23/03 12:55	WG130494
trans-1,2-Dichloroethene	< .001	mg/l	10/23/03 12:55	WG130494
trans-1,3-Dichloropropene	< .001	mg/l	10/23/03 12:55	WG130494
Trichloroethene	< .001	mg/l	10/23/03 12:55	WG130494
Trichlorofluoromethane	< .001	mg/l	10/23/03 12:55	WG130494
Vinyl chloride	< .001	mg/l	10/23/03 12:55	WG130494

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/l	.02	0.0208	104.	71-122	WG130056
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0200	100.	78-120	WG130056
1,1,2-Trichloroethane	mg/l	.02	0.0198	99.1	82-117	WG130056
1,1-Dichloroethane	mg/l	.02	0.0215	107.	59-135	WG130056
1,1-Dichloroethene	mg/l	.02	0.0235	117.	60-166	WG130056
1,2-Dibromoethane	mg/l	.02	0.0211	106.	79-121	WG130056
1,2-Dichlorobenzene	mg/l	.05	0.0192	38.4	83-113	WG130056
1,2-Dichloroethane	mg/l	.02	0.0219	110.	81-122	WG130056
1,2-Dichloropropane	mg/l	.02	0.0206	103.	74-125	WG130056
1,3-Dichlorobenzene	mg/l	.05	0.0205	41.0	80-124	WG130056
1,4-Dichlorobenzene	mg/l	.05	0.0197	39.4	84-115	WG130056
2-Chloroethyl vinyl ether	mg/l	.1	0.0562	56.2	15-161	WG130056
Benzene	mg/l	.02	0.0214	107.	75-133	WG130056
Bromodichloromethane	mg/l	.02	0.0187	93.4	76-117	WG130056
Bromoform	mg/l	.02	0.0160	79.9	72-125	WG130056
Bromomethane	mg/l	.02	0.0214	107.	25-170	WG130056
Carbon Tetrachloride	mg/l	.02	0.0198	99.1	65-127	WG130056
Chlorobenzene	mg/l	.02	0.0200	99.9	79-117	WG130056
Chlorodibromomethane	mg/l	.02	0.0171	85.4	76-115	WG130056
Chloroethane	mg/l	.02	0.0175	87.5	37-130	WG130056
Chloroform	mg/l	.02	0.0203	101.	70-119	WG130056
Chloromethane	mg/l	.02	0.00910	45.5	39-109	WG130056
cis-1,2-Dichloroethene	mg/l	.02	0.0190	94.8	72-128	WG130056
cis-1,3-Dichloropropene	mg/l	.02	0.0232	116.	86-137	WG130056
Di-isopropyl ether	mg/l	.02	0.0211	106.	54-147	WG130056
Dichlorodifluoromethane	mg/l	.02	0.00706	35.3	14-133	WG130056
Ethylbenzene	mg/l	.02	0.0203	102.	75-117	WG130056
m&p-Xylene	mg/l	.04	0.0409	102.	76-126	WG130056
Methyl tert-butyl ether	mg/l	.02	0.0189	94.4	57-149	WG130056
Methylene chloride	mg/l	.02	0.0218	109.	60-127	WG130056
Naphthalene	mg/l	.05	0.0203	40.5	51-127	WG130056
o-Xylene	mg/l	.02	0.0200	99.8	73-123	WG130056
Tetrachloroethene	mg/l	.02	0.0207	104.	71-132	WG130056
Toluene	mg/l	.02	0.0199	99.5	68-122	WG130056
trans-1,2-Dichloroethene	mg/l	.02	0.0233	116.	65-141	WG130056
trans-1,3-Dichloropropene	mg/l	.02	0.0224	112.	82-132	WG130056
Trichloroethene	mg/l	.02	0.0216	108.	81-129	WG130056

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Tax I.D. 62-0814289

Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131827

October 28, 2003

Trichlorofluoromethane	mg/l	.02	0.0143	71.4	46-94	WG130056

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Vinyl chloride	mg/l	.02	0.0142	71.0	40-95	WG130056
,1,1-Trichloroethane	mg/l	.02	0.0216	108.	71-122	WG130494
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0193	96.7	78-120	WG130494
1,1,2-Trichloroethane	mg/l	.02	0.0194	96.8	82-117	WG130494
1,1-Dichloroethane	mg/l	.02	0.0210	105.	59-135	WG130494
,1-Dichloroethene	mg/l	.02	0.0238	119.	60-166	WG130494
,2-Dibromoethane	mg/l	.02	0.0213	106.	79-121	WG130494
1,2-Dichlorobenzene	mg/l	.05	0.0190	37.9	83-113	WG130494
1,2-Dichloroethane	mg/l	.02	0.0192	96.0	81-122	WG130494
,2-Dichloropropane	mg/l	.02	0.0201	101.	74-125	WG130494
,3-Dichlorobenzene	mg/l	.05	0.0217	43.4	80-124	WG130494
,4-Dichlorobenzene	mg/l	.05	0.0197	39.3	84-115	WG130494
2-Chloroethyl vinyl ether	mg/l	.1	0.113	113.	15-161	WG130494
Benzene	mg/l	.02	0.0204	102.	75-133	WG130494
romodichloromethane	mg/l	.02	0.0200	100.	76-117	WG130494
romoform	mg/l	.02	0.0219	109.	72-125	WG130494
romomethane	mg/l	.02	0.0656	328.	25-170	WG130494
Carbon Tetrachloride	mg/l	.02	0.0227	113.	65-127	WG130494
Chlorobenzene	mg/l	.02	0.0216	108.	79-117	WG130494
hlorodibromomethane	mg/l	.02	0.0214	107.	76-115	WG130494
hloroethane	mg/l	.02	0.0172	85.9	37-130	WG130494
hloroform	mg/l	.02	0.0218	109.	70-119	WG130494
Chloromethane	mg/l	.02	0.0162	80.8	39-109	WG130494
cis-1,2-Dichloroethene	mg/l	.02	0.0193	96.6	72-128	WG130494
is-1,3-Dichloropropene	mg/l	.02	0.0275	137.	86-137	WG130494
i-isopropyl ether	mg/l	.02	0.0175	87.3	54-147	WG130494
Dichlorodifluoromethane	mg/l	.02	0.0128	64.1	14-133	WG130494
Ethylbenzene	mg/l	.02	0.0220	110.	75-117	WG130494
m&p-Xylene	mg/l	.04	0.0442	111.	76-126	WG130494
ethyl tert-butyl ether	mg/l	.02	0.0174	87.0	57-149	WG130494
ethylene chloride	mg/l	.02	0.0221	111.	60-127	WG130494
Naphthalene	mg/l	.05	0.0149	29.8	51-127	WG130494
o-Xylene	mg/l	.02	0.0215	108.	73-123	WG130494
etrachloroethene	mg/l	.02	0.0214	107.	71-132	WG130494
oluene	mg/l	.02	0.0205	102.	68-122	WG130494
rans-1,2-Dichloroethene	mg/l	.02	0.0243	121.	65-141	WG130494
trans-1,3-Dichloropropene	mg/l	.02	0.0254	127.	82-132	WG130494
Trichloroethene	mg/l	.02	0.0216	108.	81-129	WG130494
richlorofluoromethane	mg/l	.02	0.0161	80.7	46-94	WG130494
inyl chloride	mg/l	.02	0.0166	83.1	40-95	WG130494

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
,1,1-Trichloroethane	mg/l	0.0212	0.0208	1.95	28	R176242-5	WG130056
1,1,2,2-Tetrachloroethane	mg/l	0.0195	0.0200	2.58	10	R176242-5	WG130056
1,1,2-Trichloroethane	mg/l	0.0196	0.0198	1.17	16	R176242-5	WG130056
1,1-Dichloroethane	mg/l	0.0218	0.0215	1.20	17	R176242-5	WG130056
,1-Dichloroethene	mg/l	0.0245	0.0235	4.38	36	R176242-5	WG130056
,2-Dibromoethane	mg/l	0.0208	0.0211	1.48	19	R176242-5	WG130056
1,2-Dichlorobenzene	mg/l	0.0193	0.0192	0.675	16	R176242-5	WG130056
1,2-Dichloroethane	mg/l	0.0219	0.0219	0.00	13	R176242-5	WG130056
,2-Dichloropropane	mg/l	0.0210	0.0206	1.92	14	R176242-5	WG130056
,3-Dichlorobenzene	mg/l	0.0205	0.0205	0.244	25	R176242-5	WG130056
,4-Dichlorobenzene	mg/l	0.0198	0.0197	0.455	18	R176242-5	WG130056
2-Chloroethyl vinyl ether	mg/l	0.0557	0.0562	0.965	25	R176242-5	WG130056
Benzene	mg/l	0.0217	0.0214	1.63	20	R176242-5	WG130056
romodichloromethane	mg/l	0.0189	0.0187	1.17	13	R176242-5	WG130056

ENVIRONMENTAL
SCIENCE CORP.

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Quality Assurance Report
Level II

L131827

October 28, 2003

Bromoform	mg/l	0.0163	0.0160	1.80	18	R176242-5	WG130056

Analyte	Units	Laboratory Control Sample LCSD Res	Ref Res	Duplicate RPD	Limit	Ref Samp	Batch
Bromomethane	mg/l	0.0184	0.0214	15.4	20	R176242-5	WG130056
Carbon Tetrachloride	mg/l	0.0205	0.0198	3.42	36	R176242-5	WG130056
Chlorobenzene	mg/l	0.0202	0.0200	1.10	21	R176242-5	WG130056
Chlorodibromomethane	mg/l	0.0171	0.0171	0.00	17	R176242-5	WG130056
Chloroethane	mg/l	0.0161	0.0175	8.46	25	R176242-5	WG130056
Chloroform	mg/l	0.0208	0.0203	2.73	26	R176242-5	WG130056
Chloromethane	mg/l	0.0092	0.0091	1.74	31	R176242-5	WG130056
cis-1,2-Dichloroethene	mg/l	0.0194	0.0190	2.45	18	R176242-5	WG130056
cis-1,3-Dichloropropene	mg/l	0.0232	0.0232	0.0430	17	R176242-5	WG130056
Di-isopropyl ether	mg/l	0.0217	0.0211	2.80	48	R176242-5	WG130056
Dichlorodifluoromethane	mg/l	0.0072	0.0070	3.21	28	R176242-5	WG130056
Ethylbenzene	mg/l	0.0205	0.0203	0.784	25	R176242-5	WG130056
m&p-Xylene	mg/l	0.0412	0.0409	0.706	22	R176242-5	WG130056
Methyl tert-butyl ether	mg/l	0.0188	0.0189	0.265	34	R176242-5	WG130056
Methylene chloride	mg/l	0.0221	0.0218	1.27	16	R176242-5	WG130056
Naphthalene	mg/l	0.0188	0.0203	7.74	39	R176242-5	WG130056
o-Xylene	mg/l	0.0200	0.0200	0.0501	20	R176242-5	WG130056
Tetrachloroethene	mg/l	0.0207	0.0207	0.0483	32	R176242-5	WG130056
Toluene	mg/l	0.0203	0.0199	2.04	17	R176242-5	WG130056
trans-1,2-Dichloroethene	mg/l	0.0236	0.0233	1.20	27	R176242-5	WG130056
trans-1,3-Dichloropropene	mg/l	0.0225	0.0224	0.312	16	R176242-5	WG130056
Trichloroethene	mg/l	0.0219	0.0216	1.24	25	R176242-5	WG130056
Trichlorofluoromethane	mg/l	0.0145	0.0143	1.18	41	R176242-5	WG130056
Vinyl chloride	mg/l	0.0145	0.0142	2.37	36	R176242-5	WG130056
1,1,1-Trichloroethane	mg/l	0.0229	0.0216	5.76	28	R176514-5	WG130494
1,1,2,2-Tetrachloroethane	mg/l	0.0194	0.0193	0.310	10	R176514-5	WG130494
1,1,2-Trichloroethane	mg/l	0.0201	0.0194	3.90	16	R176514-5	WG130494
1,1-Dichloroethane	mg/l	0.0218	0.0210	3.88	17	R176514-5	WG130494
1,1-Dichloroethene	mg/l	0.0256	0.0238	6.96	36	R176514-5	WG130494
1,2-Dibromoethane	mg/l	0.0200	0.0213	5.96	19	R176514-5	WG130494
1,2-Dichlorobenzene	mg/l	0.0196	0.0190	3.22	16	R176514-5	WG130494
1,2-Dichloroethane	mg/l	0.0204	0.0192	6.01	13	R176514-5	WG130494
1,2-Dichloropropane	mg/l	0.0206	0.0201	2.11	14	R176514-5	WG130494
1,3-Dichlorobenzene	mg/l	0.0210	0.0217	3.14	25	R176514-5	WG130494
1,4-Dichlorobenzene	mg/l	0.0209	0.0197	5.92	18	R176514-5	WG130494
2-Chloroethyl vinyl ether	mg/l	0.0688	0.113	48.3	25	R176514-5	WG130494
Benzene	mg/l	0.0214	0.0204	4.92	20	R176514-5	WG130494
Bromodichloromethane	mg/l	0.0205	0.0200	2.47	13	R176514-5	WG130494
Bromoform	mg/l	0.0222	0.0219	1.32	18	R176514-5	WG130494
Bromomethane	mg/l	0.0509	0.0656	25.2	20	R176514-5	WG130494
Carbon Tetrachloride	mg/l	0.0241	0.0227	6.12	36	R176514-5	WG130494
Chlorobenzene	mg/l	0.0205	0.0216	5.28	21	R176514-5	WG130494
Chlorodibromomethane	mg/l	0.0204	0.0214	4.73	17	R176514-5	WG130494
Chloroethane	mg/l	0.0183	0.0172	6.54	25	R176514-5	WG130494
Chloroform	mg/l	0.0227	0.0218	4.27	26	R176514-5	WG130494
Chloromethane	mg/l	0.0160	0.0162	0.996	31	R176514-5	WG130494
cis-1,2-Dichloroethene	mg/l	0.0204	0.0193	5.54	18	R176514-5	WG130494
cis-1,3-Dichloropropene	mg/l	0.0283	0.0275	2.90	17	R176514-5	WG130494
Di-isopropyl ether	mg/l	0.0186	0.0175	6.43	48	R176514-5	WG130494
Dichlorodifluoromethane	mg/l	0.0136	0.0128	5.98	28	R176514-5	WG130494
Ethylbenzene	mg/l	0.0211	0.0220	4.27	25	R176514-5	WG130494
m&p-Xylene	mg/l	0.0438	0.0442	1.00	22	R176514-5	WG130494
Methyl tert-butyl ether	mg/l	0.0183	0.0174	4.77	34	R176514-5	WG130494
Methylene chloride	mg/l	0.0221	0.0221	0.0904	16	R176514-5	WG130494
Naphthalene	mg/l	0.0180	0.0149	18.5	39	R176514-5	WG130494
o-Xylene	mg/l	0.0207	0.0215	3.74	20	R176514-5	WG130494
Tetrachloroethene	mg/l	0.0210	0.0214	1.84	32	R176514-5	WG130494
Toluene	mg/l	0.0218	0.0205	6.34	17	R176514-5	WG130494

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trans-1,2-Dichloroethene	mg/l	0.0261	0.0243	7.15	27	R176514-5	WG130494

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
trans-1,3-Dichloropropene	mg/l	0.0255	0.0254	0.433	16	R176514-5	WG130494
Trichloroethene	mg/l	0.0225	0.0216	4.35	25	R176514-5	WG130494
Trichlorofluoromethane	mg/l	0.0167	0.0161	3.35	41	R176514-5	WG130494
Vinyl chloride	mg/l	0.0174	0.0166	4.36	36	R176514-5	WG130494

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0228	0.00	0.02	114.	46-143	L131721-12	WG130056
1,1,2,2-Tetrachloroethane	mg/l	0.0208	0.00	0.02	104.	70-116	L131721-12	WG130056
1,1,2-Trichloroethane	mg/l	0.0211	0.00	0.02	106.	70-122	L131721-12	WG130056
1,1-Dichloroethane	mg/l	0.0235	0.00	0.02	118.	47-138	L131721-12	WG130056
1,1-Dichloroethene	mg/l	0.0272	0.00	0.02	136.	56-162	L131721-12	WG130056
1,2-Dibromoethane	mg/l	0.0224	0.00	0.02	112.	74-121	L131721-12	WG130056
1,2-Dichlorobenzene	mg/l	0.0211	0.00	0.02	105.	65-119	L131721-12	WG130056
1,2-Dichloroethane	mg/l	0.0238	0.00	0.02	119.	48-148	L131721-12	WG130056
1,2-Dichloropropane	mg/l	0.0220	0.00	0.02	110.	66-122	L131721-12	WG130056
1,3-Dichlorobenzene	mg/l	0.0227	0.00	0.02	113.	62-122	L131721-12	WG130056
1,4-Dichlorobenzene	mg/l	0.0219	0.00	0.02	110.	60-123	L131721-12	WG130056
2-Chloroethyl vinyl ether	mg/l	0.0577	0.00	0.1	57.7	0-100	L131721-12	WG130056
Benzene	mg/l	0.0233	0.00	0.02	117.	66-127	L131721-12	WG130056
Bromodichloromethane	mg/l	0.0202	0.00	0.02	101.	57-126	L131721-12	WG130056
Bromoform	mg/l	0.0172	0.00	0.02	85.8	52-130	L131721-12	WG130056
Bromomethane	mg/l	0.0204	0.00	0.02	102.	17-150	L131721-12	WG130056
Carbon Tetrachloride	mg/l	0.0221	0.00	0.02	110.	42-141	L131721-12	WG130056
Chlorobenzene	mg/l	0.0216	0.00	0.02	108.	66-125	L131721-12	WG130056
Chlorodibromomethane	mg/l	0.0181	0.00	0.02	90.5	58-123	L131721-12	WG130056
Chloroethane	mg/l	0.0184	0.00	0.02	92.2	29-131	L131721-12	WG130056
Chloroform	mg/l	0.0225	0.00	0.02	112.	46-136	L131721-12	WG130056
Chloromethane	mg/l	0.0165	0.00	0.02	82.7	26-120	L131721-12	WG130056
cis-1,2-Dichloroethene	mg/l	0.0209	0.00	0.02	105.	59-133	L131721-12	WG130056
cis-1,3-Dichloropropene	mg/l	0.0251	0.00	0.02	126.	77-132	L131721-12	WG130056
Di-isopropyl ether	mg/l	0.0233	0.00	0.02	116.	41-135	L131721-12	WG130056
Dichlorodifluoromethane	mg/l	0.0111	0.00	0.02	55.5	13-113	L131721-12	WG130056
Ethylbenzene	mg/l	0.0219	0.00	0.02	109.	61-123	L131721-12	WG130056
m,p-Xylene	mg/l	0.0443	0.00	0.04	111.	71-127	L131721-12	WG130056
Methyl tert-butyl ether	mg/l	0.0207	0.00	0.02	103.	56-144	L131721-12	WG130056
Methylene chloride	mg/l	0.0277	0.00	0.02	138.	55-123	L131721-12	WG130056
Naphthalene	mg/l	0.0203	0.00	0.02	101.	39-122	L131721-12	WG130056
o-Xylene	mg/l	0.0213	0.00	0.02	107.	70-126	L131721-12	WG130056
Tetrachloroethene	mg/l	0.0228	0.00	0.02	114.	49-144	L131721-12	WG130056
Toluene	mg/l	0.0220	0.00	0.02	110.	59-123	L131721-12	WG130056
trans-1,2-Dichloroethene	mg/l	0.0255	0.00	0.02	127.	53-145	L131721-12	WG130056
trans-1,3-Dichloropropene	mg/l	0.0243	0.00	0.02	122.	69-125	L131721-12	WG130056
Trichloroethene	mg/l	0.0238	0.00	0.02	119.	61-141	L131721-12	WG130056
Trichlorofluoromethane	mg/l	0.0165	0.00	0.02	82.3	24-113	L131721-12	WG130056
Vinyl chloride	mg/l	0.0170	0.00	0.02	85.1	26-110	L131721-12	WG130056
1,1,1-Trichloroethane	mg/l	0.0217	0.00	0.02	108.	46-143	L131967-14	WG130494
1,1,2,2-Tetrachloroethane	mg/l	0.0191	0.00	0.02	95.4	70-116	L131967-14	WG130494
1,1,2-Trichloroethane	mg/l	0.0188	0.00	0.02	93.8	70-122	L131967-14	WG130494
1,1-Dichloroethane	mg/l	0.0206	0.00	0.02	103.	47-138	L131967-14	WG130494
1,1-Dichloroethene	mg/l	0.0235	0.00	0.02	117.	56-162	L131967-14	WG130494
1,2-Dibromoethane	mg/l	0.0200	0.00	0.02	99.9	74-121	L131967-14	WG130494
1,2-Dichlorobenzene	mg/l	0.0171	0.00	0.02	85.4	65-119	L131967-14	WG130494
1,2-Dichloroethane	mg/l	0.0193	0.00	0.02	96.6	48-148	L131967-14	WG130494
1,2-Dichloropropane	mg/l	0.0209	0.00	0.02	104.	66-122	L131967-14	WG130494
1,3-Dichlorobenzene	mg/l	0.0191	0.00	0.02	95.4	62-122	L131967-14	WG130494
1,4-Dichlorobenzene	mg/l	0.0170	0.00	0.02	85.1	60-123	L131967-14	WG130494

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2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.1	0.0	0-100	L131967-14	WG130494

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/l	0.0199	0.00	0.02	99.6	66-127	L131967-14	WG130494
romodichloromethane	mg/l	0.0199	0.00	0.02	99.5	57-126	L131967-14	WG130494
romoform	mg/l	0.0211	0.00	0.02	106.	52-130	L131967-14	WG130494
romomethane	mg/l	0.0274	0.00	0.02	137.	17-150	L131967-14	WG130494
Carbon Tetrachloride	mg/l	0.0220	0.00	0.02	110.	42-141	L131967-14	WG130494
Chlorobenzene	mg/l	0.0193	0.00	0.02	96.4	66-125	L131967-14	WG130494
hlorodibromomethane	mg/l	0.0199	0.00	0.02	99.3	58-123	L131967-14	WG130494
hloroethane	mg/l	0.0165	0.00	0.02	82.4	29-131	L131967-14	WG130494
hloroform	mg/l	0.0202	0.00	0.02	101.	46-136	L131967-14	WG130494
Chloromethane	mg/l	0.0139	0.00	0.02	69.7	26-120	L131967-14	WG130494
is-1,2-Dichloroethene	mg/l	0.0239	0.00	0.02	119.	59-133	L131967-14	WG130494
is-1,3-Dichloropropene	mg/l	0.0255	0.00	0.02	128.	77-132	L131967-14	WG130494
i-isopropyl ether	mg/l	0.0180	0.00	0.02	90.1	41-135	L131967-14	WG130494
Dichlorodifluoromethane	mg/l	0.0124	0.00	0.02	62.2	13-113	L131967-14	WG130494
Ethylbenzene	mg/l	0.0197	0.00	0.02	98.3	61-123	L131967-14	WG130494
&p-Xylene	mg/l	0.0400	0.00	0.04	100.	71-127	L131967-14	WG130494
ethyl tert-butyl ether	mg/l	0.0177	0.00	0.02	88.6	56-144	L131967-14	WG130494
ethylene chloride	mg/l	0.0220	0.0008	0.02	106.	55-123	L131967-14	WG130494
Naphthalene	mg/l	0.0139	0.00	0.02	69.6	39-122	L131967-14	WG130494
o-Xylene	mg/l	0.0194	0.00	0.02	97.2	70-126	L131967-14	WG130494
etrachloroethene	mg/l	0.0192	0.00	0.02	96.0	49-144	L131967-14	WG130494
oluene	mg/l	0.0199	0.00	0.02	99.4	59-123	L131967-14	WG130494
rans-1,2-Dichloroethene	mg/l	0.0232	0.00	0.02	116.	53-145	L131967-14	WG130494
trans-1,3-Dichloropropene	mg/l	0.0227	0.00	0.02	113.	69-125	L131967-14	WG130494
Trichloroethene	mg/l	0.0222	0.00	0.02	111.	61-141	L131967-14	WG130494
richlorofluoromethane	mg/l	0.0154	0.00	0.02	77.0	24-113	L131967-14	WG130494
inyl chloride	mg/l	0.0159	0.00	0.02	79.5	26-110	L131967-14	WG130494

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
,1,1-Trichloroethane	mg/l	0.0217	0.0228	4.81	28	109.	L131721-12	WG130056
1,1,2,2-Tetrachloroethane	mg/l	0.0207	0.0208	0.145	10	104.	L131721-12	WG130056
1,1,2-Trichloroethane	mg/l	0.0205	0.0211	2.79	16	103.	L131721-12	WG130056
1,1-Dichloroethane	mg/l	0.0226	0.0235	4.12	17	113.	L131721-12	WG130056
,1-Dichloroethene	mg/l	0.0256	0.0272	5.88	36	128.	L131721-12	WG130056
,2-Dibromoethane	mg/l	0.0218	0.0224	2.49	19	109.	L131721-12	WG130056
1,2-Dichlorobenzene	mg/l	0.0203	0.0211	3.92	16	101.	L131721-12	WG130056
1,2-Dichloroethane	mg/l	0.0231	0.0238	3.24	13	115.	L131721-12	WG130056
,2-Dichloropropane	mg/l	0.0213	0.0220	3.14	14	107.	L131721-12	WG130056
,3-Dichlorobenzene	mg/l	0.0214	0.0227	5.85	25	107.	L131721-12	WG130056
,4-Dichlorobenzene	mg/l	0.0206	0.0219	6.11	18	103.	L131721-12	WG130056
2-Chloroethyl vinyl ether	mg/l	0.0604	0.0577	4.57	25	60.4	L131721-12	WG130056
Benzene	mg/l	0.0226	0.0233	3.23	20	113.	L131721-12	WG130056
romodichloromethane	mg/l	0.0195	0.0202	3.47	13	97.6	L131721-12	WG130056
romoform	mg/l	0.0171	0.0172	0.643	18	85.3	L131721-12	WG130056
romomethane	mg/l	0.0190	0.0204	6.76	20	95.1	L131721-12	WG130056
Carbon Tetrachloride	mg/l	0.0212	0.0221	3.97	36	106.	L131721-12	WG130056
Chlorobenzene	mg/l	0.0205	0.0216	5.23	21	102.	L131721-12	WG130056
hlorodibromomethane	mg/l	0.0176	0.0181	2.86	17	87.9	L131721-12	WG130056
hloroethane	mg/l	0.0174	0.0184	5.75	25	87.1	L131721-12	WG130056
hloroform	mg/l	0.0210	0.0225	6.62	26	105.	L131721-12	WG130056
Chloromethane	mg/l	0.0159	0.0165	3.63	31	79.7	L131721-12	WG130056
is-1,2-Dichloroethene	mg/l	0.0198	0.0209	5.25	18	99.2	L131721-12	WG130056
s-1,3-Dichloropropene	mg/l	0.0241	0.0251	4.06	17	121.	L131721-12	WG130056
-isopropyl ether	mg/l	0.0224	0.0233	3.72	48	112.	L131721-12	WG130056
Dichlorodifluoromethane	mg/l	0.0107	0.0111	3.95	28	53.4	L131721-12	WG130056
Ethylbenzene	mg/l	0.0207	0.0219	5.65	25	103.	L131721-12	WG130056
&p-Xylene	mg/l	0.0418	0.0443	5.76	22	105.	L131721-12	WG130056

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Mr. Mike Dwyer
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Raleigh, NC 27607

Quality Assurance Report
Level II

L131827

October 28, 2003

Methyl tert-butyl ether	mg/l	0.0203	0.0207	1.90	16	102.	L131721-12	WG130056

Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Methylene chloride	mg/l	0.0263	0.0277	5.26	16	131.	L131721-12	WG130056
Naphthalene	mg/l	0.0208	0.0203	2.58	39	104.	L131721-12	WG130056
o-Xylene	mg/l	0.0203	0.0213	4.95	20	101.	L131721-12	WG130056
Tetrachloroethene	mg/l	0.0217	0.0228	5.00	32	108.	L131721-12	WG130056
Toluene	mg/l	0.0207	0.0220	5.90	17	104.	L131721-12	WG130056
trans-1,2-Dichloroethene	mg/l	0.0244	0.0255	4.34	27	122.	L131721-12	WG130056
trans-1,3-Dichloropropene	mg/l	0.0237	0.0243	2.71	16	118.	L131721-12	WG130056
Trichloroethene	mg/l	0.0229	0.0238	4.11	25	114.	L131721-12	WG130056
Trichlorofluoromethane	mg/l	0.0159	0.0165	3.59	41	79.4	L131721-12	WG130056
Vinyl chloride	mg/l	0.0169	0.0170	0.590	36	84.6	L131721-12	WG130056
1,1,1-Trichloroethane	mg/l	0.0227	0.0217	4.37	28	113.	L131967-14	WG130494
1,1,2,2-Tetrachloroethane	mg/l	0.0197	0.0191	3.15	10	98.5	L131967-14	WG130494
1,1,2-Trichloroethane	mg/l	0.0196	0.0188	4.33	16	97.9	L131967-14	WG130494
1,1-Dichloroethane	mg/l	0.0208	0.0206	0.772	17	104.	L131967-14	WG130494
1,1-Dichloroethene	mg/l	0.0241	0.0235	2.69	36	120.	L131967-14	WG130494
1,2-Dibromoethane	mg/l	0.0207	0.0200	3.44	19	103.	L131967-14	WG130494
1,2-Dichlorobenzene	mg/l	0.0182	0.0171	6.63	16	91.2	L131967-14	WG130494
1,2-Dichloroethane	mg/l	0.0202	0.0193	4.36	13	101.	L131967-14	WG130494
1,2-Dichloropropane	mg/l	0.0209	0.0209	0.0479	14	104.	L131967-14	WG130494
1,3-Dichlorobenzene	mg/l	0.0196	0.0191	2.64	25	97.9	L131967-14	WG130494
1,4-Dichlorobenzene	mg/l	0.0180	0.0170	5.60	18	90.0	L131967-14	WG130494
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.00	25	0.00	L131967-14	WG130494
Benzene	mg/l	0.0209	0.0199	4.85	20	105.	L131967-14	WG130494
Bromodichloromethane	mg/l	0.0200	0.0199	0.502	13	100.	L131967-14	WG130494
Bromoform	mg/l	0.0231	0.0211	8.82	18	115.	L131967-14	WG130494
Bromomethane	mg/l	0.0317	0.0274	14.7	20	159.	L131967-14	WG130494
Carbon Tetrachloride	mg/l	0.0237	0.0220	7.27	36	118.	L131967-14	WG130494
Chlorobenzene	mg/l	0.0202	0.0193	4.61	21	101.	L131967-14	WG130494
Chlorodibromomethane	mg/l	0.0209	0.0199	4.96	17	104.	L131967-14	WG130494
Chloroethane	mg/l	0.0171	0.0165	3.99	25	85.7	L131967-14	WG130494
Chloroform	mg/l	0.0211	0.0202	4.02	26	105.	L131967-14	WG130494
Chloromethane	mg/l	0.0148	0.0139	5.99	31	74.0	L131967-14	WG130494
cis-1,2-Dichloroethene	mg/l	0.0230	0.0239	3.54	18	115.	L131967-14	WG130494
cis-1,3-Dichloropropene	mg/l	0.0253	0.0255	0.865	17	127.	L131967-14	WG130494
Di-isopropyl ether	mg/l	0.0184	0.0180	1.92	48	91.8	L131967-14	WG130494
Dichlorodifluoromethane	mg/l	0.0131	0.0124	5.48	28	65.7	L131967-14	WG130494
Ethylbenzene	mg/l	0.0209	0.0197	5.97	25	104.	L131967-14	WG130494
m&p-Xylene	mg/l	0.0417	0.0400	4.09	22	104.	L131967-14	WG130494
Methyl tert-butyl ether	mg/l	0.0183	0.0177	3.11	16	91.4	L131967-14	WG130494
Methylene chloride	mg/l	0.0226	0.0220	2.87	16	109.	L131967-14	WG130494
Naphthalene	mg/l	0.0159	0.0139	13.4	39	79.6	L131967-14	WG130494
o-Xylene	mg/l	0.0207	0.0194	6.09	20	103.	L131967-14	WG130494
Tetrachloroethene	mg/l	0.0202	0.0192	4.93	32	101.	L131967-14	WG130494
Toluene	mg/l	0.0198	0.0199	0.504	17	98.9	L131967-14	WG130494
trans-1,2-Dichloroethene	mg/l	0.0242	0.0232	4.17	27	121.	L131967-14	WG130494
trans-1,3-Dichloropropene	mg/l	0.0227	0.0227	0.0441	16	113.	L131967-14	WG130494
Trichloroethene	mg/l	0.0228	0.0222	2.76	25	114.	L131967-14	WG130494
Trichlorofluoromethane	mg/l	0.0160	0.0154	3.70	41	79.9	L131967-14	WG130494
Vinyl chloride	mg/l	0.0167	0.0159	5.15	36	83.7	L131967-14	WG130494

Batch number /Run number / Sample number cross reference

WG130056: R176242: L131827-03
WG130494: R176514: L131827-01 02
WG130385: R176786: L131827-01 02 03
* See Attachment B of standard report for list of qualifiers.
* Calculations are performed prior to rounding of reported values .

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6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131827

October 28, 2003

ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Qu[redacted]tu[redacted]nv[redacted]nm[redacted]al Inc.

6001 Chapel Hill Road. Suite 108
Raleigh,NC 27607

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mike Dwyer
Email: mdwyer@QUANTUMCOs.c
Project Description: Nello Teer
City/State Collected: NC
Phone: (919) 852-3595
FAX: (919) 852-1997
Client Project #: 0013-94-012
Lab Project #: OUANTUM-001394012
Collected by (print): DAMS
Site/Facility ID#:
P.O.#:
Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___Same Day.....200%
___Next Day.....100%
___Two Day.....50%

Date Results Needed
Email? __No X Yes
FAX? No Yes

CoCode: OUANTUM (lab use only)
Template/Prelogin: T18182/ P94679
Cooler #: 10/2 Ham
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV610 1L-Amb-NoPres	V601/602 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
BW-8	G	GW		10/20/03	1015	4	X	X		L131827-01
BW-3	G	GW		↓	1025	4	X	X		02
BW-1	G	GW		↓	1200	4	X	X		03
		GW				4	X	X		
		GW				4	X	X		
		GW				4	X	X		
		GW				4	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/20/03	1215	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Wilson
Temp: 3.4°C Bottles Received: 12
Date: 10/21/03 Time: 9:00

Condition: (lab use only) OK
pH Checked: NCF:

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-20D

Collected By : Mike Dwyer
Collection Date : 10/16/03 11:00

ESC Sample # : L131536-01

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/23/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/23/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/23/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/23/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/23/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/23/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/23/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/23/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/23/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/23/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-20D

Collected By : Mike Dwyer
Collection Date : 10/16/03 11:00

ESC Sample # : L131536-01

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/23/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

ESC Sample # : L131536-02

Site ID :

Project # : 0013-94-012

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-28D

Collected By : Mike Dwyer
Collection Date : 10/16/03 12:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/23/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/23/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/23/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1-Dichloroethane	9.9	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1-Dichloroethene	4.0	1.0	ug/l	601/602MS	10/23/03	1
cis-1,2-Dichloroethene	2.9	1.0	ug/l	601/602MS	10/23/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/23/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/23/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/23/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/23/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/23/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/23/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/23/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/23/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/23/03	1
Vinyl chloride	1.2	1.0	ug/l	601/602MS	10/23/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/23/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-28D

Collected By : Mike Dwyer
Collection Date : 10/16/03 12:15

ESC Sample # : L131536-02

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/23/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

ESC Sample # : L131536-03

Site ID :

Project # : 0013-94-012

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-13

Collected By : Mike Dwyer
Collection Date : 10/16/03 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	10/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	10/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethane	4.5	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1-Dichloroethene	1.6	1.0	ug/l	601/602MS	10/21/03	1
cis-1,2-Dichloroethene	1.6	1.0	ug/l	601/602MS	10/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	10/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	10/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	10/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	10/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	10/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	10/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	10/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	10/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	10/21/03	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

October 23,2003

Date Received : October 17, 2003
Description : Nello Teer

Sample ID : MW-13

Collected By : Mike Dwyer
Collection Date : 10/16/03 12:45

ESC Sample # : L131536-03

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
m&p-Xylene	BDL	2.0	ug/l	601/602MS	10/21/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	10/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	10/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	10/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	10/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	10/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	10/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	10/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	10/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	10/23/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L131536-01	Bromomethane	J4
	cis-1,3-Dichloropropene	J4
	Methylene chloride	J4
L131536-02	Anthracene	V3
	Benzo(a)anthracene	V3
	Chrysene	V3
	Fluoranthene	V3
	Phenanthrene	V3
	Pyrene	V3
L131536-03	Bromomethane	J4J3
	Trichlorofluoromethane	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
J3	The associated batch QC was outside the established quality control range for precision.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	79-126
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	81-114
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	65-129
					83-119
					82-116
					72-126

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131536

October 23, 2003

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1-Trichloroethane	< .001	mg/l	10/20/03 10:06	WG129919
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/20/03 10:06	WG129919
1,1,2-Trichloroethane	< .001	mg/l	10/20/03 10:06	WG129919
1,1-Dichloroethane	< .001	mg/l	10/20/03 10:06	WG129919
1,1-Dichloroethene	< .001	mg/l	10/20/03 10:06	WG129919
1,2-Dibromoethane	< .001	mg/l	10/20/03 10:06	WG129919
1,2-Dichlorobenzene	< .001	mg/l	10/20/03 10:06	WG129919
1,2-Dichloroethane	< .001	mg/l	10/20/03 10:06	WG129919
1,2-Dichloropropane	< .001	mg/l	10/20/03 10:06	WG129919
1,3-Dichlorobenzene	< .001	mg/l	10/20/03 10:06	WG129919
1,4-Dichlorobenzene	< .001	mg/l	10/20/03 10:06	WG129919
2-Chloroethyl vinyl ether	< .001	mg/l	10/20/03 10:06	WG129919
Benzene	< .001	mg/l	10/20/03 10:06	WG129919
Bromodichloromethane	< .001	mg/l	10/20/03 10:06	WG129919
Bromoform	< .001	mg/l	10/20/03 10:06	WG129919
Bromomethane	< .001	mg/l	10/20/03 10:06	WG129919
Carbon Tetrachloride	< .001	mg/l	10/20/03 10:06	WG129919
Chlorobenzene	< .001	mg/l	10/20/03 10:06	WG129919
Chlorodibromomethane	< .001	mg/l	10/20/03 10:06	WG129919
Chloroethane	< .001	mg/l	10/20/03 10:06	WG129919
Chloroform	< .005	mg/l	10/20/03 10:06	WG129919
Chloromethane	< .001	mg/l	10/20/03 10:06	WG129919
cis-1,2-Dichloroethene	< .001	mg/l	10/20/03 10:06	WG129919
cis-1,3-Dichloropropene	< .001	mg/l	10/20/03 10:06	WG129919
Di-isopropyl ether	< .001	mg/l	10/20/03 10:06	WG129919
Dichlorodifluoromethane	< .001	mg/l	10/20/03 10:06	WG129919
Ethylbenzene	< .001	mg/l	10/20/03 10:06	WG129919
m&p-Xylene	< .002	mg/l	10/20/03 10:06	WG129919
Methyl tert-butyl ether	< .001	mg/l	10/20/03 10:06	WG129919
Methylene chloride	< .005	mg/l	10/20/03 10:06	WG129919
Naphthalene	< .005	mg/l	10/20/03 10:06	WG129919
o-Xylene	< .001	mg/l	10/20/03 10:06	WG129919
Tetrachloroethene	< .001	mg/l	10/20/03 10:06	WG129919
Toluene	< .005	mg/l	10/20/03 10:06	WG129919
trans-1,2-Dichloroethene	< .001	mg/l	10/20/03 10:06	WG129919
trans-1,3-Dichloropropene	< .001	mg/l	10/20/03 10:06	WG129919
Trichloroethene	< .001	mg/l	10/20/03 10:06	WG129919
Trichlorofluoromethane	< .001	mg/l	10/20/03 10:06	WG129919
Vinyl chloride	< .001	mg/l	10/20/03 10:06	WG129919
1,1,1-Trichloroethane	< .001	mg/l	10/21/03 18:26	WG130205
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/21/03 18:26	WG130205
1,1,2-Trichloroethane	< .001	mg/l	10/21/03 18:26	WG130205
1,1-Dichloroethane	< .001	mg/l	10/21/03 18:26	WG130205
1,1-Dichloroethene	< .001	mg/l	10/21/03 18:26	WG130205
1,2-Dibromoethane	< .001	mg/l	10/21/03 18:26	WG130205
1,2-Dichlorobenzene	< .001	mg/l	10/21/03 18:26	WG130205
1,2-Dichloroethane	< .001	mg/l	10/21/03 18:26	WG130205
1,2-Dichloropropane	< .001	mg/l	10/21/03 18:26	WG130205
1,3-Dichlorobenzene	< .001	mg/l	10/21/03 18:26	WG130205
1,4-Dichlorobenzene	< .001	mg/l	10/21/03 18:26	WG130205
2-Chloroethyl vinyl ether	< .001	mg/l	10/21/03 18:26	WG130205
Benzene	< .001	mg/l	10/21/03 18:26	WG130205
Bromodichloromethane	< .001	mg/l	10/21/03 18:26	WG130205
Bromoform	< .001	mg/l	10/21/03 18:26	WG130205
Bromomethane	< .001	mg/l	10/21/03 18:26	WG130205
Carbon Tetrachloride	< .001	mg/l	10/21/03 18:26	WG130205
Chlorobenzene	< .001	mg/l	10/21/03 18:26	WG130205
Chlorodibromomethane	< .001	mg/l	10/21/03 18:26	WG130205
Chloroethane	< .001	mg/l	10/21/03 18:26	WG130205

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Raleigh, NC 27607

Quality Assurance Report
Level II

L131536

October 23, 2003

Chloroform	< .005	mg/l	10/21/03 18:26	WG130205

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chloromethane	< .001	mg/l	10/21/03 18:26	WG130205
cis-1,2-Dichloroethene	< .001	mg/l	10/21/03 18:26	WG130205
cis-1,3-Dichloropropene	< .001	mg/l	10/21/03 18:26	WG130205
Di-isopropyl ether	< .001	mg/l	10/21/03 18:26	WG130205
Dichlorodifluoromethane	< .001	mg/l	10/21/03 18:26	WG130205
Ethylbenzene	< .001	mg/l	10/21/03 18:26	WG130205
m&p-Xylene	< .002	mg/l	10/21/03 18:26	WG130205
Methyl tert-butyl ether	< .001	mg/l	10/21/03 18:26	WG130205
Methylene chloride	< .005	mg/l	10/21/03 18:26	WG130205
Naphthalene	< .005	mg/l	10/21/03 18:26	WG130205
o-Xylene	< .001	mg/l	10/21/03 18:26	WG130205
Tetrachloroethene	< .001	mg/l	10/21/03 18:26	WG130205
Toluene	< .005	mg/l	10/21/03 18:26	WG130205
trans-1,2-Dichloroethene	< .001	mg/l	10/21/03 18:26	WG130205
trans-1,3-Dichloropropene	< .001	mg/l	10/21/03 18:26	WG130205
Trichloroethene	< .001	mg/l	10/21/03 18:26	WG130205
Trichlorofluoromethane	< .001	mg/l	10/21/03 18:26	WG130205
Vinyl chloride	< .001	mg/l	10/21/03 18:26	WG130205
1-Methylnaphthalene	< .01	ppm	10/22/03 17:35	WG130217
2-Methylnaphthalene	< .01	ppm	10/22/03 17:35	WG130217
Acenaphthene	< .01	ppm	10/22/03 17:35	WG130217
Acenaphthylene	< .01	ppm	10/22/03 17:35	WG130217
Anthracene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(a)anthracene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(a)pyrene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(b)fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(g,h,i)perylene	< .01	ppm	10/22/03 17:35	WG130217
Benzo(k)fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Chrysene	< .01	ppm	10/22/03 17:35	WG130217
Dibenz(a,h)anthracene	< .01	ppm	10/22/03 17:35	WG130217
Fluoranthene	< .01	ppm	10/22/03 17:35	WG130217
Fluorene	< .01	ppm	10/22/03 17:35	WG130217
Indeno(1,2,3-cd)pyrene	< .01	ppm	10/22/03 17:35	WG130217
Naphthalene	< .01	ppm	10/22/03 17:35	WG130217
Phenanthrene	< .01	ppm	10/22/03 17:35	WG130217
Pyrene	< .01	ppm	10/22/03 17:35	WG130217
1,1,1-Trichloroethane	< .001	mg/l	10/22/03 12:26	WG130351
1,1,2,2-Tetrachloroethane	< .001	mg/l	10/22/03 12:26	WG130351
1,1,2-Trichloroethane	< .001	mg/l	10/22/03 12:26	WG130351
1,1-Dichloroethane	< .001	mg/l	10/22/03 12:26	WG130351
1,1-Dichloroethene	< .001	mg/l	10/22/03 12:26	WG130351
1,2-Dibromoethane	< .001	mg/l	10/22/03 12:26	WG130351
1,2-Dichlorobenzene	< .001	mg/l	10/22/03 12:26	WG130351
1,2-Dichloroethane	< .001	mg/l	10/22/03 12:26	WG130351
1,2-Dichloropropane	< .001	mg/l	10/22/03 12:26	WG130351
1,3-Dichlorobenzene	< .001	mg/l	10/22/03 12:26	WG130351
1,4-Dichlorobenzene	< .001	mg/l	10/22/03 12:26	WG130351
2-Chloroethyl vinyl ether	< .001	mg/l	10/22/03 12:26	WG130351
Benzene	< .001	mg/l	10/22/03 12:26	WG130351
Bromodichloromethane	< .001	mg/l	10/22/03 12:26	WG130351
Bromoform	< .001	mg/l	10/22/03 12:26	WG130351
Bromomethane	< .001	mg/l	10/22/03 12:26	WG130351
Carbon Tetrachloride	< .001	mg/l	10/22/03 12:26	WG130351
Chlorobenzene	< .001	mg/l	10/22/03 12:26	WG130351
Chlorodibromomethane	< .001	mg/l	10/22/03 12:26	WG130351
Chloroethane	< .001	mg/l	10/22/03 12:26	WG130351
Chloroform	< .005	mg/l	10/22/03 12:26	WG130351

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October 23, 2003

Chloromethane	< .001	mg/l	10/22/03 12:26	WG130351

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
cis-1,2-Dichloroethene	< .001	mg/l	10/22/03 12:26	WG130351
cis-1,3-Dichloropropene	< .001	mg/l	10/22/03 12:26	WG130351
Di-isopropyl ether	< .001	mg/l	10/22/03 12:26	WG130351
Dichlorodifluoromethane	< .001	mg/l	10/22/03 12:26	WG130351
Ethylbenzene	< .001	mg/l	10/22/03 12:26	WG130351
m&p-Xylene	< .002	mg/l	10/22/03 12:26	WG130351
Methyl tert-butyl ether	< .001	mg/l	10/22/03 12:26	WG130351
Methylene chloride	< .005	mg/l	10/22/03 12:26	WG130351
Naphthalene	< .005	mg/l	10/22/03 12:26	WG130351
o-Xylene	< .001	mg/l	10/22/03 12:26	WG130351
Tetrachloroethene	< .001	mg/l	10/22/03 12:26	WG130351
Toluene	< .005	mg/l	10/22/03 12:26	WG130351
trans-1,2-Dichloroethene	< .001	mg/l	10/22/03 12:26	WG130351
trans-1,3-Dichloropropene	< .001	mg/l	10/22/03 12:26	WG130351
Trichloroethene	< .001	mg/l	10/22/03 12:26	WG130351
Trichlorofluoromethane	< .001	mg/l	10/22/03 12:26	WG130351
Vinyl chloride	< .001	mg/l	10/22/03 12:26	WG130351

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/l	.02	0.0213	106.	71-122	WG129919
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0204	102.	78-120	WG129919
1,1,2-Trichloroethane	mg/l	.02	0.0206	103.	82-117	WG129919
1,1-Dichloroethane	mg/l	.02	0.0192	96.1	59-135	WG129919
1,1-Dichloroethene	mg/l	.02	0.0240	120.	60-166	WG129919
1,2-Dibromoethane	mg/l	.02	0.0219	110.	79-121	WG129919
1,2-Dichlorobenzene	mg/l	.05	0.0197	39.3	83-113	WG129919
1,2-Dichloroethane	mg/l	.02	0.0211	105.	81-122	WG129919
1,2-Dichloropropane	mg/l	.02	0.0182	90.8	74-125	WG129919
1,3-Dichlorobenzene	mg/l	.05	0.0227	45.4	80-124	WG129919
1,4-Dichlorobenzene	mg/l	.05	0.0203	40.5	84-115	WG129919
2-Chloroethyl vinyl ether	mg/l	.1	0.0778	77.8	15-161	WG129919
Benzene	mg/l	.02	0.0185	92.7	75-133	WG129919
Bromodichloromethane	mg/l	.02	0.0196	98.0	76-117	WG129919
Bromoform	mg/l	.02	0.0215	107.	72-125	WG129919
Bromomethane	mg/l	.02	0.0292	146.	25-170	WG129919
Carbon Tetrachloride	mg/l	.02	0.0211	106.	65-127	WG129919
Chlorobenzene	mg/l	.02	0.0219	109.	79-117	WG129919
Chlorodibromomethane	mg/l	.02	0.0212	106.	76-115	WG129919
Chloroethane	mg/l	.02	0.0128	63.8	37-130	WG129919
Chloroform	mg/l	.02	0.0219	109.	70-119	WG129919
Chloromethane	mg/l	.02	0.0136	68.0	39-109	WG129919
cis-1,2-Dichloroethene	mg/l	.02	0.0181	90.3	72-128	WG129919
cis-1,3-Dichloropropene	mg/l	.02	0.0218	109.	86-137	WG129919
Di-isopropyl ether	mg/l	.02	0.0168	83.9	54-147	WG129919
Dichlorodifluoromethane	mg/l	.02	0.0143	71.6	14-133	WG129919
Ethylbenzene	mg/l	.02	0.0209	105.	75-117	WG129919
m&p-Xylene	mg/l	.04	0.0432	108.	76-126	WG129919
Methyl tert-butyl ether	mg/l	.02	0.0177	88.4	57-149	WG129919
Methylene chloride	mg/l	.02	0.0191	95.3	60-127	WG129919
Naphthalene	mg/l	.05	0.0153	30.5	51-127	WG129919
o-Xylene	mg/l	.02	0.0217	108.	73-123	WG129919
Tetrachloroethene	mg/l	.02	0.0236	118.	71-132	WG129919
Toluene	mg/l	.02	0.0195	97.3	68-122	WG129919
trans-1,2-Dichloroethene	mg/l	.02	0.0222	111.	65-141	WG129919
trans-1,3-Dichloropropene	mg/l	.02	0.0222	111.	82-132	WG129919
Trichloroethene	mg/l	.02	0.0218	109.	81-129	WG129919
Trichlorofluoromethane	mg/l	.02	0.0170	84.8	46-94	WG129919

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Vinyl chloride	mg/l	.02	0.0151	75.4	40-95	WG129919

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/l	.02	0.0219	110.	71-122	WG130205
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0188	94.1	78-120	WG130205
1,1,2-Trichloroethane	mg/l	.02	0.0193	96.6	82-117	WG130205
1,1-Dichloroethane	mg/l	.02	0.0210	105.	59-135	WG130205
1,1-Dichloroethene	mg/l	.02	0.0238	119.	60-166	WG130205
1,2-Dibromoethane	mg/l	.02	0.0204	102.	79-121	WG130205
1,2-Dichlorobenzene	mg/l	.05	0.0185	36.9	83-113	WG130205
1,2-Dichloroethane	mg/l	.02	0.0202	101.	81-122	WG130205
1,2-Dichloropropane	mg/l	.02	0.0197	98.4	74-125	WG130205
1,3-Dichlorobenzene	mg/l	.05	0.0200	40.1	80-124	WG130205
1,4-Dichlorobenzene	mg/l	.05	0.0192	38.5	84-115	WG130205
2-Chloroethyl vinyl ether	mg/l	.1	0.0689	68.9	15-161	WG130205
Benzene	mg/l	.02	0.0212	106.	75-133	WG130205
Bromodichloromethane	mg/l	.02	0.0193	96.6	76-117	WG130205
Bromoform	mg/l	.02	0.0227	114.	72-125	WG130205
Bromomethane	mg/l	.02	0.0451	226.	25-170	WG130205
Carbon Tetrachloride	mg/l	.02	0.0221	110.	65-127	WG130205
Chlorobenzene	mg/l	.02	0.0198	99.1	79-117	WG130205
Chlorodibromomethane	mg/l	.02	0.0202	101.	76-115	WG130205
Chloroethane	mg/l	.02	0.0170	85.1	37-130	WG130205
Chloroform	mg/l	.02	0.0207	104.	70-119	WG130205
Chloromethane	mg/l	.02	0.0154	77.1	39-109	WG130205
cis-1,2-Dichloroethene	mg/l	.02	0.0195	97.4	72-128	WG130205
cis-1,3-Dichloropropene	mg/l	.02	0.0258	129.	86-137	WG130205
Di-isopropyl ether	mg/l	.02	0.0176	88.1	54-147	WG130205
Dichlorodifluoromethane	mg/l	.02	0.0122	61.0	14-133	WG130205
Ethylbenzene	mg/l	.02	0.0206	103.	75-117	WG130205
m&p-Xylene	mg/l	.04	0.0418	105.	76-126	WG130205
Methyl tert-butyl ether	mg/l	.02	0.0171	85.3	57-149	WG130205
Methylene chloride	mg/l	.02	0.0240	120.	60-127	WG130205
Naphthalene	mg/l	.05	0.0144	28.8	51-127	WG130205
o-Xylene	mg/l	.02	0.0196	97.9	73-123	WG130205
Tetrachloroethene	mg/l	.02	0.0202	101.	71-132	WG130205
Toluene	mg/l	.02	0.0196	98.2	68-122	WG130205
trans-1,2-Dichloroethene	mg/l	.02	0.0242	121.	65-141	WG130205
trans-1,3-Dichloropropene	mg/l	.02	0.0238	119.	82-132	WG130205
Trichloroethene	mg/l	.02	0.0212	106.	81-129	WG130205
Trichlorofluoromethane	mg/l	.02	0.0156	78.0	46-94	WG130205
Vinyl chloride	mg/l	.02	0.0159	79.3	40-95	WG130205
1-Methylnaphthalene	ppm	.05	0.0389	77.9	51-109	WG130217
2-Methylnaphthalene	ppm	.05	0.0417	83.4	40-106	WG130217
Acenaphthene	ppm	.05	0.0433	86.5	50-125	WG130217
Acenaphthylene	ppm	.05	0.0455	90.9	51-136	WG130217
Anthracene	ppm	.05	0.0507	101.	54-126	WG130217
Benzo(a)anthracene	ppm	.05	0.0533	107.	54-123	WG130217
Benzo(a)pyrene	ppm	.05	0.0575	115.	59-127	WG130217
Benzo(b)fluoranthene	ppm	.05	0.0607	121.	57-132	WG130217
Benzo(g,h,i)perylene	ppm	.05	0.0540	108.	39-161	WG130217
Benzo(k)fluoranthene	ppm	.05	0.0533	107.	54-127	WG130217
Chrysene	ppm	.05	0.0533	107.	53-125	WG130217
Dibenz(a,h)anthracene	ppm	.05	0.0550	110.	43-170	WG130217
Fluoranthene	ppm	.05	0.0489	97.9	50-126	WG130217
Fluorene	ppm	.05	0.0468	93.6	50-126	WG130217
Indeno(1,2,3-cd)pyrene	ppm	.05	0.0533	107.	42-155	WG130217
Naphthalene	ppm	.05	0.0409	81.8	51-127	WG130217
Phenanthrene	ppm	.05	0.0524	105.	54-122	WG130217
Pyrene	ppm	.05	0.0535	107.	50-127	WG130217

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October 23, 2003

1,1,1-Trichloroethane	mg/l	.02	0.0182	90.8	71-122	WG130351

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0198	98.9	78-120	WG130351
1,1,2-Trichloroethane	mg/l	.02	0.0207	103.	82-117	WG130351
1,1-Dichloroethane	mg/l	.02	0.0188	93.8	59-135	WG130351
1,1-Dichloroethene	mg/l	.02	0.0202	101.	60-166	WG130351
1,2-Dibromoethane	mg/l	.02	0.0214	107.	79-121	WG130351
1,2-Dichlorobenzene	mg/l	.05	0.0204	40.9	83-113	WG130351
1,2-Dichloroethane	mg/l	.02	0.0219	110.	81-122	WG130351
1,2-Dichloropropane	mg/l	.02	0.0211	106.	74-125	WG130351
1,3-Dichlorobenzene	mg/l	.05	0.0210	41.9	80-124	WG130351
1,4-Dichlorobenzene	mg/l	.05	0.0203	40.5	84-115	WG130351
2-Chloroethyl vinyl ether	mg/l	.1	0.119	119.	15-161	WG130351
Benzene	mg/l	.02	0.0201	101.	75-133	WG130351
Bromodichloromethane	mg/l	.02	0.0190	95.2	76-117	WG130351
Bromoform	mg/l	.02	0.0210	105.	72-125	WG130351
Bromomethane	mg/l	.02	0.0117	58.3	25-170	WG130351
Carbon Tetrachloride	mg/l	.02	0.0176	87.9	65-127	WG130351
Chlorobenzene	mg/l	.02	0.0194	96.9	79-117	WG130351
Chlorodibromomethane	mg/l	.02	0.0189	94.5	76-115	WG130351
Chloroethane	mg/l	.02	0.0137	68.7	37-130	WG130351
Chloroform	mg/l	.02	0.0196	98.0	70-119	WG130351
Chloromethane	mg/l	.02	0.0129	64.7	39-109	WG130351
cis-1,2-Dichloroethene	mg/l	.02	0.0184	92.2	72-128	WG130351
cis-1,3-Dichloropropene	mg/l	.02	0.0239	119.	86-137	WG130351
Di-isopropyl ether	mg/l	.02	0.0205	103.	54-147	WG130351
Dichlorodifluoromethane	mg/l	.02	0.00642	32.1	14-133	WG130351
Ethylbenzene	mg/l	.02	0.0192	96.1	75-117	WG130351
m&p-Xylene	mg/l	.04	0.0397	99.1	76-126	WG130351
Methyl tert-butyl ether	mg/l	.02	0.0186	92.8	57-149	WG130351
Methylene chloride	mg/l	.02	0.0223	112.	60-127	WG130351
Naphthalene	mg/l	.05	0.0207	41.4	51-127	WG130351
o-Xylene	mg/l	.02	0.0192	96.0	73-123	WG130351
Tetrachloroethene	mg/l	.02	0.0194	96.9	71-132	WG130351
Toluene	mg/l	.02	0.0188	93.8	68-122	WG130351
trans-1,2-Dichloroethene	mg/l	.02	0.0217	109.	65-141	WG130351
trans-1,3-Dichloropropene	mg/l	.02	0.0230	115.	82-132	WG130351
Trichloroethene	mg/l	.02	0.0186	93.0	81-129	WG130351
Trichlorofluoromethane	mg/l	.02	0.0123	61.6	46-94	WG130351
Vinyl chloride	mg/l	.02	0.0123	61.7	40-95	WG130351

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0234	0.0213	9.66	28	R176047-5	WG129919
1,1,2,2-Tetrachloroethane	mg/l	0.0194	0.0204	5.08	10	R176047-5	WG129919
1,1,2-Trichloroethane	mg/l	0.0202	0.0206	2.31	16	R176047-5	WG129919
1,1-Dichloroethane	mg/l	0.0207	0.0192	7.32	17	R176047-5	WG129919
1,1-Dichloroethene	mg/l	0.0269	0.0240	11.1	36	R176047-5	WG129919
1,2-Dibromoethane	mg/l	0.0223	0.0219	1.81	19	R176047-5	WG129919
1,2-Dichlorobenzene	mg/l	0.0186	0.0197	5.38	16	R176047-5	WG129919
1,2-Dichloroethane	mg/l	0.0219	0.0211	4.14	13	R176047-5	WG129919
1,2-Dichloropropane	mg/l	0.0192	0.0182	5.36	14	R176047-5	WG129919
1,3-Dichlorobenzene	mg/l	0.0230	0.0227	1.44	25	R176047-5	WG129919
1,4-Dichlorobenzene	mg/l	0.0188	0.0203	7.31	18	R176047-5	WG129919
2-Chloroethyl vinyl ether	mg/l	0.0792	0.0778	1.86	25	R176047-5	WG129919
Benzene	mg/l	0.0199	0.0185	7.28	20	R176047-5	WG129919
Bromodichloromethane	mg/l	0.0203	0.0196	3.46	13	R176047-5	WG129919
Bromoform	mg/l	0.0209	0.0215	2.59	18	R176047-5	WG129919
Bromomethane	mg/l	0.0360	0.0292	20.9	20	R176047-5	WG129919
Carbon Tetrachloride	mg/l	0.0229	0.0211	8.01	36	R176047-5	WG129919

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131536

October 23, 2003

Chlorobenzene	mg/l	0.0219	0.0219	0.137	21	R176047-5	WG129919

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
Chlorodibromomethane	mg/l	0.0205	0.0212	3.12	17	R176047-5	WG129919
Chloroethane	mg/l	0.0154	0.0128	18.6	25	R176047-5	WG129919
Chloroform	mg/l	0.0234	0.0219	6.67	26	R176047-5	WG129919
Chloromethane	mg/l	0.0148	0.0136	8.59	31	R176047-5	WG129919
cis-1,2-Dichloroethene	mg/l	0.0201	0.0181	10.4	18	R176047-5	WG129919
cis-1,3-Dichloropropene	mg/l	0.0231	0.0218	5.87	17	R176047-5	WG129919
Di-isopropyl ether	mg/l	0.0181	0.0168	7.74	48	R176047-5	WG129919
Dichlorodifluoromethane	mg/l	0.0159	0.0143	10.7	28	R176047-5	WG129919
Ethylbenzene	mg/l	0.0220	0.0209	4.98	25	R176047-5	WG129919
m&p-Xylene	mg/l	0.0447	0.0432	3.30	22	R176047-5	WG129919
Methyl tert-butyl ether	mg/l	0.0186	0.0177	5.24	34	R176047-5	WG129919
Methylene chloride	mg/l	0.0209	0.0191	9.40	16	R176047-5	WG129919
Naphthalene	mg/l	0.0141	0.0153	8.05	39	R176047-5	WG129919
o-Xylene	mg/l	0.0217	0.0217	0.0461	20	R176047-5	WG129919
Tetrachloroethene	mg/l	0.0239	0.0236	1.18	32	R176047-5	WG129919
Toluene	mg/l	0.0206	0.0195	5.59	17	R176047-5	WG129919
trans-1,2-Dichloroethene	mg/l	0.0246	0.0222	10.4	27	R176047-5	WG129919
trans-1,3-Dichloropropene	mg/l	0.0227	0.0222	2.54	16	R176047-5	WG129919
Trichloroethene	mg/l	0.0235	0.0218	7.65	25	R176047-5	WG129919
Trichlorofluoromethane	mg/l	0.0189	0.0170	11.0	41	R176047-5	WG129919
Vinyl chloride	mg/l	0.0168	0.0151	10.6	36	R176047-5	WG129919
1,1,1-Trichloroethane	mg/l	0.0235	0.0219	6.87	28	R176291-5	WG130205
1,1,2,2-Tetrachloroethane	mg/l	0.0196	0.0188	4.06	10	R176291-5	WG130205
1,1,2-Trichloroethane	mg/l	0.0205	0.0193	5.93	16	R176291-5	WG130205
1,1-Dichloroethane	mg/l	0.0219	0.0210	4.24	17	R176291-5	WG130205
1,1-Dichloroethene	mg/l	0.0257	0.0238	7.52	36	R176291-5	WG130205
1,2-Dibromoethane	mg/l	0.0206	0.0204	1.27	19	R176291-5	WG130205
1,2-Dichlorobenzene	mg/l	0.0196	0.0185	5.89	16	R176291-5	WG130205
1,2-Dichloroethane	mg/l	0.0206	0.0202	2.25	13	R176291-5	WG130205
1,2-Dichloropropane	mg/l	0.0211	0.0197	7.06	14	R176291-5	WG130205
1,3-Dichlorobenzene	mg/l	0.0212	0.0200	5.58	25	R176291-5	WG130205
1,4-Dichlorobenzene	mg/l	0.0202	0.0192	5.02	18	R176291-5	WG130205
2-Chloroethyl vinyl ether	mg/l	0.0709	0.0689	2.96	25	R176291-5	WG130205
Benzene	mg/l	0.0216	0.0212	1.82	20	R176291-5	WG130205
Bromodichloromethane	mg/l	0.0209	0.0193	7.72	13	R176291-5	WG130205
Bromoform	mg/l	0.0230	0.0227	1.14	18	R176291-5	WG130205
Bromomethane	mg/l	0.0422	0.0451	6.66	20	R176291-5	WG130205
Carbon Tetrachloride	mg/l	0.0238	0.0221	7.29	36	R176291-5	WG130205
Chlorobenzene	mg/l	0.0208	0.0198	4.64	21	R176291-5	WG130205
Chlorodibromomethane	mg/l	0.0208	0.0202	2.78	17	R176291-5	WG130205
Chloroethane	mg/l	0.0176	0.0170	3.47	25	R176291-5	WG130205
Chloroform	mg/l	0.0218	0.0207	5.03	26	R176291-5	WG130205
Chloromethane	mg/l	0.0157	0.0154	1.86	31	R176291-5	WG130205
cis-1,2-Dichloroethene	mg/l	0.0206	0.0195	5.49	18	R176291-5	WG130205
cis-1,3-Dichloropropene	mg/l	0.0290	0.0258	11.4	17	R176291-5	WG130205
Di-isopropyl ether	mg/l	0.0185	0.0176	4.93	48	R176291-5	WG130205
Dichlorodifluoromethane	mg/l	0.0127	0.0122	4.33	28	R176291-5	WG130205
Ethylbenzene	mg/l	0.0215	0.0206	4.14	25	R176291-5	WG130205
m&p-Xylene	mg/l	0.0439	0.0418	4.74	22	R176291-5	WG130205
Methyl tert-butyl ether	mg/l	0.0185	0.0171	8.21	34	R176291-5	WG130205
Methylene chloride	mg/l	0.0257	0.0240	6.93	16	R176291-5	WG130205
Naphthalene	mg/l	0.0174	0.0144	19.1	39	R176291-5	WG130205
o-Xylene	mg/l	0.0211	0.0196	7.52	20	R176291-5	WG130205
Tetrachloroethene	mg/l	0.0217	0.0202	7.26	32	R176291-5	WG130205
Toluene	mg/l	0.0226	0.0196	13.9	17	R176291-5	WG130205
trans-1,2-Dichloroethene	mg/l	0.0257	0.0242	6.14	27	R176291-5	WG130205
trans-1,3-Dichloropropene	mg/l	0.0262	0.0238	9.65	16	R176291-5	WG130205
Trichloroethene	mg/l	0.0231	0.0212	8.85	25	R176291-5	WG130205

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October 23, 2003

Trichlorofluoromethane	mg/l	0.0167	0.0156	6.69	41	R176291-5	WG130205

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
Vinyl chloride	mg/l	0.0174	0.0159	9.20	36	R176291-5	WG130205
1-Methylnaphthalene	ppm	0.0397	0.0389	1.86	21	R176348-3	WG130217
2-Methylnaphthalene	ppm	0.0415	0.0417	0.336	20	R176348-3	WG130217
Acenaphthene	ppm	0.0460	0.0433	6.12	21	R176348-3	WG130217
Acenaphthylene	ppm	0.0473	0.0455	3.97	21	R176348-3	WG130217
Anthracene	ppm	0.0504	0.0507	0.653	20	R176348-3	WG130217
Benzo(a)anthracene	ppm	0.0556	0.0533	4.19	20	R176348-3	WG130217
Benzo(a)pyrene	ppm	0.0541	0.0575	6.08	22	R176348-3	WG130217
Benzo(b)fluoranthene	ppm	0.0564	0.0607	7.30	24	R176348-3	WG130217
Benzo(g,h,i)perylene	ppm	0.0491	0.0540	9.59	33	R176348-3	WG130217
Benzo(k)fluoranthene	ppm	0.0542	0.0533	1.56	23	R176348-3	WG130217
Chrysene	ppm	0.0571	0.0533	6.78	21	R176348-3	WG130217
Dibenz(a,h)anthracene	ppm	0.0483	0.0550	12.9	28	R176348-3	WG130217
Fluoranthene	ppm	0.0439	0.0489	10.9	21	R176348-3	WG130217
Fluorene	ppm	0.0508	0.0468	8.18	22	R176348-3	WG130217
Indeno(1,2,3-cd)pyrene	ppm	0.0480	0.0533	10.5	29	R176348-3	WG130217
Naphthalene	ppm	0.0405	0.0409	0.983	39	R176348-3	WG130217
Phenanthrene	ppm	0.0496	0.0524	5.49	22	R176348-3	WG130217
Pyrene	ppm	0.0595	0.0535	10.6	24	R176348-3	WG130217
1,1,1-Trichloroethane	mg/l	0.0192	0.0182	5.36	28	R176276-5	WG130351
1,1,2,2-Tetrachloroethane	mg/l	0.0214	0.0198	7.63	10	R176276-5	WG130351
1,1,2-Trichloroethane	mg/l	0.0213	0.0207	3.24	16	R176276-5	WG130351
1,1-Dichloroethane	mg/l	0.0198	0.0188	5.39	17	R176276-5	WG130351
1,1-Dichloroethene	mg/l	0.0206	0.0202	1.72	36	R176276-5	WG130351
1,2-Dibromoethane	mg/l	0.0227	0.0214	5.67	19	R176276-5	WG130351
1,2-Dichlorobenzene	mg/l	0.0197	0.0204	3.64	16	R176276-5	WG130351
1,2-Dichloroethane	mg/l	0.0223	0.0219	1.76	13	R176276-5	WG130351
1,2-Dichloropropane	mg/l	0.0216	0.0211	2.34	14	R176276-5	WG130351
1,3-Dichlorobenzene	mg/l	0.0216	0.0210	3.05	25	R176276-5	WG130351
1,4-Dichlorobenzene	mg/l	0.0200	0.0203	1.14	18	R176276-5	WG130351
2-Chloroethyl vinyl ether	mg/l	0.117	0.119	1.44	25	R176276-5	WG130351
Benzene	mg/l	0.0206	0.0201	2.11	20	R176276-5	WG130351
Bromodichloromethane	mg/l	0.0197	0.0190	3.25	13	R176276-5	WG130351
Bromoform	mg/l	0.0224	0.0210	6.13	18	R176276-5	WG130351
Bromomethane	mg/l	0.0121	0.0117	3.54	20	R176276-5	WG130351
Carbon Tetrachloride	mg/l	0.0190	0.0176	8.03	36	R176276-5	WG130351
Chlorobenzene	mg/l	0.0204	0.0194	5.38	21	R176276-5	WG130351
Chlorodibromomethane	mg/l	0.0200	0.0189	5.81	17	R176276-5	WG130351
Chloroethane	mg/l	0.0141	0.0137	2.87	25	R176276-5	WG130351
Chloroform	mg/l	0.0198	0.0196	1.22	26	R176276-5	WG130351
Chloromethane	mg/l	0.0126	0.0129	2.43	31	R176276-5	WG130351
cis-1,2-Dichloroethene	mg/l	0.0189	0.0184	2.41	18	R176276-5	WG130351
cis-1,3-Dichloropropene	mg/l	0.0250	0.0239	4.66	17	R176276-5	WG130351
Di-isopropyl ether	mg/l	0.0212	0.0205	3.26	48	R176276-5	WG130351
Dichlorodifluoromethane	mg/l	0.0060	0.0064	5.60	28	R176276-5	WG130351
Ethylbenzene	mg/l	0.0201	0.0192	4.73	25	R176276-5	WG130351
m&p-Xylene	mg/l	0.0411	0.0397	3.57	22	R176276-5	WG130351
Methyl tert-butyl ether	mg/l	0.0191	0.0186	2.82	34	R176276-5	WG130351
Methylene chloride	mg/l	0.0229	0.0223	2.61	16	R176276-5	WG130351
Naphthalene	mg/l	0.0224	0.0207	7.79	39	R176276-5	WG130351
o-Xylene	mg/l	0.0199	0.0192	3.73	20	R176276-5	WG130351
Tetrachloroethene	mg/l	0.0195	0.0194	0.823	32	R176276-5	WG130351
Toluene	mg/l	0.0199	0.0188	5.65	17	R176276-5	WG130351
trans-1,2-Dichloroethene	mg/l	0.0218	0.0217	0.505	27	R176276-5	WG130351
trans-1,3-Dichloropropene	mg/l	0.0245	0.0230	6.35	16	R176276-5	WG130351
Trichloroethene	mg/l	0.0197	0.0186	5.59	25	R176276-5	WG130351
Trichlorofluoromethane	mg/l	0.0127	0.0123	3.43	41	R176276-5	WG130351

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Quality Assurance Report
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October 23, 2003

Vinyl chloride	mg/l	0.0126	0.0123	1.93	36	R176276-5	WG130351

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0228	0.00	0.02	114.	46-143	L131507-02	WG129919
1,1,2,2-Tetrachloroethane	mg/l	0.0188	0.00	0.02	94.2	70-116	L131507-02	WG129919
1,1,2-Trichloroethane	mg/l	0.0189	0.00	0.02	94.7	70-122	L131507-02	WG129919
1,1-Dichloroethane	mg/l	0.0207	0.00	0.02	103.	47-138	L131507-02	WG129919
1,1-Dichloroethene	mg/l	0.0258	0.00	0.02	129.	56-162	L131507-02	WG129919
1,2-Dibromoethane	mg/l	0.0211	0.00	0.02	106.	74-121	L131507-02	WG129919
1,2-Dichlorobenzene	mg/l	0.0185	0.00	0.05	36.9	65-119	L131507-02	WG129919
1,2-Dichloroethane	mg/l	0.0226	0.00	0.02	113.	48-148	L131507-02	WG129919
1,2-Dichloropropane	mg/l	0.0191	0.00	0.02	95.5	66-122	L131507-02	WG129919
1,3-Dichlorobenzene	mg/l	0.0216	0.00	0.05	43.1	62-122	L131507-02	WG129919
1,4-Dichlorobenzene	mg/l	0.0186	0.00	0.05	37.3	60-123	L131507-02	WG129919
2-Chloroethyl vinyl ether	mg/l	0.0770	0.00	0.1	77.0	0-100	L131507-02	WG129919
Benzene	mg/l	0.0198	0.00	0.02	98.9	66-127	L131507-02	WG129919
Bromodichloromethane	mg/l	0.0201	0.00	0.02	101.	57-126	L131507-02	WG129919
Bromoform	mg/l	0.0199	0.00	0.02	99.3	52-130	L131507-02	WG129919
Bromomethane	mg/l	0.0349	0.00	0.02	174.	17-150	L131507-02	WG129919
Carbon Tetrachloride	mg/l	0.0221	0.00	0.02	110.	42-141	L131507-02	WG129919
Chlorobenzene	mg/l	0.0211	0.00	0.02	105.	66-125	L131507-02	WG129919
Chlorodibromomethane	mg/l	0.0201	0.00	0.02	101.	58-123	L131507-02	WG129919
Chloroethane	mg/l	0.0144	0.00	0.02	72.1	29-131	L131507-02	WG129919
Chloroform	mg/l	0.0239	0.00	0.02	120.	46-136	L131507-02	WG129919
Chloromethane	mg/l	0.0137	0.00	0.02	68.3	26-120	L131507-02	WG129919
cis-1,2-Dichloroethene	mg/l	0.0199	0.00	0.02	99.4	59-133	L131507-02	WG129919
cis-1,3-Dichloropropene	mg/l	0.0236	0.00	0.02	118.	77-132	L131507-02	WG129919
Di-isopropyl ether	mg/l	0.0184	0.00	0.02	92.1	41-135	L131507-02	WG129919
Dichlorodifluoromethane	mg/l	0.0151	0.00	0.02	75.4	13-113	L131507-02	WG129919
Ethylbenzene	mg/l	0.0205	0.00	0.02	102.	61-123	L131507-02	WG129919
m&p-Xylene	mg/l	0.0412	0.00	0.04	103.	71-127	L131507-02	WG129919
Methyl tert-butyl ether	mg/l	0.0185	0.00	0.02	92.7	56-144	L131507-02	WG129919
Methylene chloride	mg/l	0.0206	0.00	0.02	103.	55-123	L131507-02	WG129919
Naphthalene	mg/l	0.0135	0.00	0.05	27.0	39-122	L131507-02	WG129919
o-Xylene	mg/l	0.0206	0.00	0.02	103.	70-126	L131507-02	WG129919
Tetrachloroethene	mg/l	0.0224	0.00	0.02	112.	49-144	L131507-02	WG129919
Toluene	mg/l	0.0199	0.00	0.02	99.3	59-123	L131507-02	WG129919
trans-1,2-Dichloroethene	mg/l	0.0236	0.00	0.02	118.	53-145	L131507-02	WG129919
trans-1,3-Dichloropropene	mg/l	0.0220	0.00	0.02	110.	69-125	L131507-02	WG129919
Trichloroethene	mg/l	0.0223	0.00	0.02	111.	61-141	L131507-02	WG129919
Trichlorofluoromethane	mg/l	0.0181	0.00	0.02	90.3	24-113	L131507-02	WG129919
Vinyl chloride	mg/l	0.0159	0.00	0.02	79.7	26-110	L131507-02	WG129919
1,1,1-Trichloroethane	mg/l	0.0220	0.00	0.02	110.	46-143	L131851-14	WG130205
1,1,2,2-Tetrachloroethane	mg/l	0.0193	0.00	0.02	96.5	70-116	L131851-14	WG130205
1,1,2-Trichloroethane	mg/l	0.0201	0.00	0.02	100.	70-122	L131851-14	WG130205
1,1-Dichloroethane	mg/l	0.0207	0.00	0.02	104.	47-138	L131851-14	WG130205
1,1-Dichloroethene	mg/l	0.0235	0.00	0.02	117.	56-162	L131851-14	WG130205
1,2-Dibromoethane	mg/l	0.0198	0.00	0.02	98.8	74-121	L131851-14	WG130205
1,2-Dichlorobenzene	mg/l	0.0180	0.00	0.02	89.9	65-119	L131851-14	WG130205
1,2-Dichloroethane	mg/l	0.0199	0.00	0.02	99.4	48-148	L131851-14	WG130205
1,2-Dichloropropane	mg/l	0.0207	0.00	0.02	104.	66-122	L131851-14	WG130205
1,3-Dichlorobenzene	mg/l	0.0196	0.00	0.02	98.1	62-122	L131851-14	WG130205
1,4-Dichlorobenzene	mg/l	0.0182	0.00	0.02	90.8	60-123	L131851-14	WG130205
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.1	0.0	0-100	L131851-14	WG130205
Benzene	mg/l	0.0201	0.00	0.02	101.	66-127	L131851-14	WG130205
Bromodichloromethane	mg/l	0.0202	0.00	0.02	101.	57-126	L131851-14	WG130205
Bromoform	mg/l	0.0215	0.00	0.02	108.	52-130	L131851-14	WG130205
Bromomethane	mg/l	0.0259	0.00	0.02	129.	17-150	L131851-14	WG130205
Carbon Tetrachloride	mg/l	0.0217	0.00	0.02	109.	42-141	L131851-14	WG130205
Chlorobenzene	mg/l	0.0196	0.00	0.02	98.2	66-125	L131851-14	WG130205
Chlorodibromomethane	mg/l	0.0194	0.00	0.02	97.1	58-123	L131851-14	WG130205

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Tax I.D. 62-0814289

Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Quality Assurance Report
Level II

L131536

October 23, 2003

Chloroethane	mg/l	0.0162	0.00	0.02	81.1	29-131	L131851-14	WG130205

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chloroform	mg/l	0.0208	0.00	0.02	104.	46-136	L131851-14	WG130205
Chloromethane	mg/l	0.0131	0.00	0.02	65.4	26-120	L131851-14	WG130205
cis-1,2-Dichloroethene	mg/l	0.0213	0.00	0.02	107.	59-133	L131851-14	WG130205
cis-1,3-Dichloropropene	mg/l	0.0253	0.00	0.02	126.	77-132	L131851-14	WG130205
Di-isopropyl ether	mg/l	0.0177	0.00	0.02	88.6	41-135	L131851-14	WG130205
Dichlorodifluoromethane	mg/l	0.0093	0.00	0.02	46.7	13-113	L131851-14	WG130205
Ethylbenzene	mg/l	0.0202	0.00	0.02	101.	61-123	L131851-14	WG130205
m&p-Xylene	mg/l	0.0413	0.00	0.04	103.	71-127	L131851-14	WG130205
Methyl tert-butyl ether	mg/l	0.0173	0.00	0.02	86.3	56-144	L131851-14	WG130205
Methylene chloride	mg/l	0.0215	0.0011	0.02	102.	55-123	L131851-14	WG130205
Naphthalene	mg/l	0.0145	0.00	0.02	72.5	39-122	L131851-14	WG130205
o-Xylene	mg/l	0.0200	0.00	0.02	100.	70-126	L131851-14	WG130205
Tetrachloroethene	mg/l	0.0197	0.00	0.02	98.6	49-144	L131851-14	WG130205
Toluene	mg/l	0.0206	0.00	0.02	103.	59-123	L131851-14	WG130205
trans-1,2-Dichloroethene	mg/l	0.0236	0.00	0.02	118.	53-145	L131851-14	WG130205
trans-1,3-Dichloropropene	mg/l	0.0225	0.00	0.02	112.	69-125	L131851-14	WG130205
Trichloroethene	mg/l	0.0241	0.00	0.02	120.	61-141	L131851-14	WG130205
Trichlorofluoromethane	mg/l	0.0153	0.00	0.02	76.4	24-113	L131851-14	WG130205
Vinyl chloride	mg/l	0.0142	0.00	0.02	71.0	26-110	L131851-14	WG130205
1,1,1-Trichloroethane	mg/l	0.0193	0.00	0.02	96.4	46-143	L131331-05	WG130351
1,1,2,2-Tetrachloroethane	mg/l	0.0222	0.00	0.02	111.	70-116	L131331-05	WG130351
1,1,2-Trichloroethane	mg/l	0.0219	0.00	0.02	109.	70-122	L131331-05	WG130351
1,1-Dichloroethane	mg/l	0.0180	0.00	0.02	90.0	47-138	L131331-05	WG130351
1,1-Dichloroethene	mg/l	0.0230	0.00	0.02	115.	56-162	L131331-05	WG130351
1,2-Dibromoethane	mg/l	0.0229	0.00	0.02	114.	74-121	L131331-05	WG130351
1,2-Dichlorobenzene	mg/l	0.0204	0.00	0.05	40.8	65-119	L131331-05	WG130351
1,2-Dichloroethane	mg/l	0.0230	0.00	0.02	115.	48-148	L131331-05	WG130351
1,2-Dichloropropane	mg/l	0.0228	0.00	0.02	114.	66-122	L131331-05	WG130351
1,3-Dichlorobenzene	mg/l	0.0224	0.00	0.05	44.9	62-122	L131331-05	WG130351
1,4-Dichlorobenzene	mg/l	0.0200	0.00	0.05	39.9	60-123	L131331-05	WG130351
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.1	0.0	0-100	L131331-05	WG130351
Benzene	mg/l	0.0219	0.00	0.02	110.	66-127	L131331-05	WG130351
Bromodichloromethane	mg/l	0.0203	0.00	0.02	102.	57-126	L131331-05	WG130351
Bromoform	mg/l	0.0236	0.00	0.02	118.	52-130	L131331-05	WG130351
Bromomethane	mg/l	0.0155	0.00	0.02	77.3	17-150	L131331-05	WG130351
Carbon Tetrachloride	mg/l	0.0194	0.00	0.02	97.2	42-141	L131331-05	WG130351
Chlorobenzene	mg/l	0.0213	0.00	0.02	107.	66-125	L131331-05	WG130351
Chlorodibromomethane	mg/l	0.0211	0.00	0.02	106.	58-123	L131331-05	WG130351
Chloroethane	mg/l	0.0155	0.00	0.02	77.5	29-131	L131331-05	WG130351
Chloroform	mg/l	0.0194	0.00	0.02	97.0	46-136	L131331-05	WG130351
Chloromethane	mg/l	0.0162	0.00	0.02	81.0	26-120	L131331-05	WG130351
cis-1,2-Dichloroethene	mg/l	0.0199	0.00	0.02	99.5	59-133	L131331-05	WG130351
cis-1,3-Dichloropropene	mg/l	0.0254	0.00	0.02	127.	77-132	L131331-05	WG130351
Di-isopropyl ether	mg/l	0.0225	0.00	0.02	113.	41-135	L131331-05	WG130351
Dichlorodifluoromethane	mg/l	0.0079	0.00	0.02	39.7	13-113	L131331-05	WG130351
Ethylbenzene	mg/l	0.0208	0.00	0.02	104.	61-123	L131331-05	WG130351
m&p-Xylene	mg/l	0.0412	0.00	0.04	103.	71-127	L131331-05	WG130351
Methyl tert-butyl ether	mg/l	0.0196	0.00	0.02	98.2	56-144	L131331-05	WG130351
Methylene chloride	mg/l	0.0230	0.00	0.02	115.	55-123	L131331-05	WG130351
Naphthalene	mg/l	0.0219	0.00	0.05	43.8	39-122	L131331-05	WG130351
o-Xylene	mg/l	0.0207	0.00	0.02	103.	70-126	L131331-05	WG130351
Tetrachloroethene	mg/l	0.0208	0.00	0.02	104.	49-144	L131331-05	WG130351
Toluene	mg/l	0.0210	0.00	0.02	105.	59-123	L131331-05	WG130351
trans-1,2-Dichloroethene	mg/l	0.0232	0.00	0.02	116.	53-145	L131331-05	WG130351
trans-1,3-Dichloropropene	mg/l	0.0245	0.00	0.02	123.	69-125	L131331-05	WG130351
Trichloroethene	mg/l	0.0218	0.00	0.02	109.	61-141	L131331-05	WG130351
Trichlorofluoromethane	mg/l	0.0135	0.00	0.02	67.5	24-113	L131331-05	WG130351
Vinyl chloride	mg/l	0.0149	0.00	0.02	74.3	26-110	L131331-05	WG130351

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L131536

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Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0228	0.0228	0.219	28	114.	L131507-02	WG129919
1,1,2,2-Tetrachloroethane	mg/l	0.0192	0.0188	2.10	10	96.2	L131507-02	WG129919
1,1,2-Trichloroethane	mg/l	0.0196	0.0189	3.37	16	98.0	L131507-02	WG129919
1,1-Dichloroethane	mg/l	0.0196	0.0207	5.26	17	98.1	L131507-02	WG129919
1,1-Dichloroethene	mg/l	0.0254	0.0258	1.60	36	127.	L131507-02	WG129919
1,2-Dibromoethane	mg/l	0.0212	0.0211	0.425	19	106.	L131507-02	WG129919
1,2-Dichlorobenzene	mg/l	0.0181	0.0185	1.80	16	36.3	L131507-02	WG129919
1,2-Dichloroethane	mg/l	0.0222	0.0226	1.61	13	111.	L131507-02	WG129919
1,2-Dichloropropane	mg/l	0.0180	0.0191	6.21	14	89.8	L131507-02	WG129919
1,3-Dichlorobenzene	mg/l	0.0218	0.0216	1.11	25	43.6	L131507-02	WG129919
1,4-Dichlorobenzene	mg/l	0.0184	0.0186	1.08	18	36.9	L131507-02	WG129919
2-Chloroethyl vinyl ether	mg/l	0.0737	0.0770	4.38	25	73.7	L131507-02	WG129919
Benzene	mg/l	0.0191	0.0198	3.29	20	95.7	L131507-02	WG129919
Bromodichloromethane	mg/l	0.0194	0.0201	3.54	13	97.2	L131507-02	WG129919
Bromoform	mg/l	0.0207	0.0199	4.05	18	103.	L131507-02	WG129919
Bromomethane	mg/l	0.0317	0.0349	9.71	20	158.	L131507-02	WG129919
Carbon Tetrachloride	mg/l	0.0216	0.0221	2.38	36	108.	L131507-02	WG129919
Chlorobenzene	mg/l	0.0213	0.0211	1.32	21	107.	L131507-02	WG129919
Chlorodibromomethane	mg/l	0.0202	0.0201	0.545	17	101.	L131507-02	WG129919
Chloroethane	mg/l	0.0142	0.0144	1.26	25	71.2	L131507-02	WG129919
Chloroform	mg/l	0.0235	0.0239	1.77	26	117.	L131507-02	WG129919
Chloromethane	mg/l	0.0137	0.0137	0.511	31	68.7	L131507-02	WG129919
cis-1,2-Dichloroethene	mg/l	0.0186	0.0199	6.50	18	93.1	L131507-02	WG129919
cis-1,3-Dichloropropene	mg/l	0.0222	0.0236	6.29	17	111.	L131507-02	WG129919
Di-isopropyl ether	mg/l	0.0176	0.0184	4.33	48	88.2	L131507-02	WG129919
Dichlorodifluoromethane	mg/l	0.0149	0.0151	1.34	28	74.4	L131507-02	WG129919
Ethylbenzene	mg/l	0.0210	0.0205	2.60	25	105.	L131507-02	WG129919
m&p-Xylene	mg/l	0.0413	0.0412	0.121	22	103.	L131507-02	WG129919
Methyl tert-butyl ether	mg/l	0.0182	0.0185	1.80	16	91.0	L131507-02	WG129919
Methylene chloride	mg/l	0.0198	0.0206	4.16	16	98.8	L131507-02	WG129919
Naphthalene	mg/l	0.0136	0.0135	0.663	39	27.2	L131507-02	WG129919
o-Xylene	mg/l	0.0205	0.0206	0.437	20	103.	L131507-02	WG129919
Tetrachloroethene	mg/l	0.0222	0.0224	0.583	32	111.	L131507-02	WG129919
Toluene	mg/l	0.0198	0.0199	0.404	17	98.9	L131507-02	WG129919
trans-1,2-Dichloroethene	mg/l	0.0231	0.0236	2.06	27	115.	L131507-02	WG129919
trans-1,3-Dichloropropene	mg/l	0.0223	0.0220	1.22	16	111.	L131507-02	WG129919
Trichloroethene	mg/l	0.0225	0.0223	1.25	25	113.	L131507-02	WG129919
Trichlorofluoromethane	mg/l	0.0174	0.0181	3.90	41	86.9	L131507-02	WG129919
Vinyl chloride	mg/l	0.0149	0.0159	6.81	36	74.5	L131507-02	WG129919
1,1,1-Trichloroethane	mg/l	0.0225	0.0220	2.65	28	113.	L131851-14	WG130205
1,1,2,2-Tetrachloroethane	mg/l	0.0216	0.0193	11.2	10	108.	L131851-14	WG130205
1,1,2-Trichloroethane	mg/l	0.0209	0.0201	4.10	16	105.	L131851-14	WG130205
1,1-Dichloroethane	mg/l	0.0216	0.0207	4.16	17	108.	L131851-14	WG130205
1,1-Dichloroethene	mg/l	0.0245	0.0235	4.34	36	122.	L131851-14	WG130205
1,2-Dibromoethane	mg/l	0.0219	0.0198	10.1	19	109.	L131851-14	WG130205
1,2-Dichlorobenzene	mg/l	0.0193	0.0180	7.13	16	96.6	L131851-14	WG130205
1,2-Dichloroethane	mg/l	0.0210	0.0199	5.34	13	105.	L131851-14	WG130205
1,2-Dichloropropane	mg/l	0.0214	0.0207	3.47	14	107.	L131851-14	WG130205
1,3-Dichlorobenzene	mg/l	0.0213	0.0196	8.07	25	106.	L131851-14	WG130205
1,4-Dichlorobenzene	mg/l	0.0190	0.0182	4.26	18	94.8	L131851-14	WG130205
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.00	25	0.00	L131851-14	WG130205
Benzene	mg/l	0.0215	0.0201	6.63	20	108.	L131851-14	WG130205
Bromodichloromethane	mg/l	0.0219	0.0202	8.11	13	110.	L131851-14	WG130205
Bromoform	mg/l	0.0237	0.0215	9.51	18	118.	L131851-14	WG130205
Bromomethane	mg/l	0.0220	0.0259	16.5	20	110.	L131851-14	WG130205
Carbon Tetrachloride	mg/l	0.0232	0.0217	6.42	36	116.	L131851-14	WG130205
Chlorobenzene	mg/l	0.0205	0.0196	4.19	21	102.	L131851-14	WG130205
Chlorodibromomethane	mg/l	0.0211	0.0194	8.20	17	105.	L131851-14	WG130205
Chloroethane	mg/l	0.0170	0.0162	4.70	25	85.0	L131851-14	WG130205

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Chloroform	mg/l	0.0215	0.0208	3.40	26	108.	L131851-14	WG130205

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Chloromethane	mg/l	0.0130	0.0131	0.306	31	65.2	L131851-14	WG130205
cis-1,2-Dichloroethene	mg/l	0.0202	0.0213	5.55	18	101.	L131851-14	WG130205
cis-1,3-Dichloropropene	mg/l	0.0291	0.0253	14.1	17	146.	L131851-14	WG130205
Di-isopropyl ether	mg/l	0.0188	0.0177	5.70	48	93.8	L131851-14	WG130205
Dichlorodifluoromethane	mg/l	0.0095	0.0093	2.01	28	47.7	L131851-14	WG130205
Ethylbenzene	mg/l	0.0215	0.0202	6.62	25	108.	L131851-14	WG130205
m&p-Xylene	mg/l	0.0430	0.0413	3.98	22	108.	L131851-14	WG130205
Methyl tert-butyl ether	mg/l	0.0186	0.0173	7.48	16	93.0	L131851-14	WG130205
Methylene chloride	mg/l	0.0220	0.0215	2.34	16	104.	L131851-14	WG130205
Naphthalene	mg/l	0.0171	0.0145	16.7	39	85.7	L131851-14	WG130205
o-Xylene	mg/l	0.0213	0.0200	6.34	20	107.	L131851-14	WG130205
Tetrachloroethene	mg/l	0.0208	0.0197	5.57	32	104.	L131851-14	WG130205
Toluene	mg/l	0.0220	0.0206	6.24	17	110.	L131851-14	WG130205
trans-1,2-Dichloroethene	mg/l	0.0244	0.0236	3.21	27	122.	L131851-14	WG130205
trans-1,3-Dichloropropene	mg/l	0.0258	0.0225	13.7	16	129.	L131851-14	WG130205
Trichloroethene	mg/l	0.0226	0.0241	6.52	25	113.	L131851-14	WG130205
Trichlorofluoromethane	mg/l	0.0155	0.0153	1.17	41	77.3	L131851-14	WG130205
Vinyl chloride	mg/l	0.0150	0.0142	5.42	36	74.9	L131851-14	WG130205
1,1,1-Trichloroethane	mg/l	0.0174	0.0193	10.4	28	86.9	L131331-05	WG130351
1,1,2,2-Tetrachloroethane	mg/l	0.0184	0.0222	18.9	10	92.0	L131331-05	WG130351
1,1,2-Trichloroethane	mg/l	0.0197	0.0219	10.6	16	98.4	L131331-05	WG130351
1,1-Dichloroethane	mg/l	0.0164	0.0180	9.49	17	81.8	L131331-05	WG130351
1,1-Dichloroethene	mg/l	0.0206	0.0230	10.8	36	103.	L131331-05	WG130351
1,2-Dibromoethane	mg/l	0.0205	0.0229	10.9	19	103.	L131331-05	WG130351
1,2-Dichlorobenzene	mg/l	0.0194	0.0204	5.13	16	38.7	L131331-05	WG130351
1,2-Dichloroethane	mg/l	0.0195	0.0230	16.4	13	97.6	L131331-05	WG130351
1,2-Dichloropropane	mg/l	0.0207	0.0228	9.62	14	103.	L131331-05	WG130351
1,3-Dichlorobenzene	mg/l	0.0204	0.0224	9.62	25	40.8	L131331-05	WG130351
1,4-Dichlorobenzene	mg/l	0.0183	0.0200	8.63	18	36.6	L131331-05	WG130351
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.00	25	0.00	L131331-05	WG130351
Benzene	mg/l	0.0197	0.0219	10.6	20	98.6	L131331-05	WG130351
Bromodichloromethane	mg/l	0.0186	0.0203	8.99	13	93.0	L131331-05	WG130351
Bromoform	mg/l	0.0199	0.0236	16.9	18	99.6	L131331-05	WG130351
Bromomethane	mg/l	0.0116	0.0155	28.7	20	57.9	L131331-05	WG130351
Carbon Tetrachloride	mg/l	0.0176	0.0194	9.88	36	88.1	L131331-05	WG130351
Chlorobenzene	mg/l	0.0190	0.0213	11.4	21	95.1	L131331-05	WG130351
Chlorodibromomethane	mg/l	0.0188	0.0211	11.7	17	93.9	L131331-05	WG130351
Chloroethane	mg/l	0.0136	0.0155	12.7	25	68.2	L131331-05	WG130351
Chloroform	mg/l	0.0177	0.0194	9.11	26	88.5	L131331-05	WG130351
Chloromethane	mg/l	0.0138	0.0162	15.9	31	69.1	L131331-05	WG130351
cis-1,2-Dichloroethene	mg/l	0.0181	0.0199	9.42	18	90.5	L131331-05	WG130351
cis-1,3-Dichloropropene	mg/l	0.0232	0.0254	9.09	17	116.	L131331-05	WG130351
Di-isopropyl ether	mg/l	0.0197	0.0225	13.5	48	98.3	L131331-05	WG130351
Dichlorodifluoromethane	mg/l	0.0069	0.0079	14.0	28	34.5	L131331-05	WG130351
Ethylbenzene	mg/l	0.0192	0.0208	7.66	25	96.1	L131331-05	WG130351
m&p-Xylene	mg/l	0.0379	0.0412	8.47	22	94.7	L131331-05	WG130351
Methyl tert-butyl ether	mg/l	0.0166	0.0196	16.6	16	83.1	L131331-05	WG130351
Methylene chloride	mg/l	0.0204	0.0230	11.8	16	102.	L131331-05	WG130351
Naphthalene	mg/l	0.0212	0.0219	3.35	39	42.3	L131331-05	WG130351
o-Xylene	mg/l	0.0190	0.0207	8.57	20	95.0	L131331-05	WG130351
Tetrachloroethene	mg/l	0.0186	0.0208	10.8	32	93.2	L131331-05	WG130351
Toluene	mg/l	0.0186	0.0210	12.4	17	92.9	L131331-05	WG130351
trans-1,2-Dichloroethene	mg/l	0.0203	0.0232	13.6	27	101.	L131331-05	WG130351
trans-1,3-Dichloropropene	mg/l	0.0220	0.0245	11.0	16	110.	L131331-05	WG130351
Trichloroethene	mg/l	0.0196	0.0218	10.9	25	97.9	L131331-05	WG130351
Trichlorofluoromethane	mg/l	0.0122	0.0135	9.79	41	61.2	L131331-05	WG130351
Vinyl chloride	mg/l	0.0133	0.0149	11.2	36	66.5	L131331-05	WG130351

ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Quantum Environmental Inc.
Mr. Mike Dwyer
6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

Quality Assurance Report
Level II

L131536

October 23, 2003

Batch number /Run number / Sample number cross reference

WG129919: R176047: L131536-03
WG130351: R176276: L131536-02
WG130205: R176291: L131536-01
WG130217: R176348: L131536-01 02 03

* See Attachment B of standard report for list of qualifiers.
* Calculations are performed prior to rounding of reported values .

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Level II

L131536

October 23, 2003

ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Quantum Environmental
6001 Chapel hill Rd
Raleigh NC 27607

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
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Phone (800) 767-5859
FAX (615) 758-5859

Report: Mike Dwyer
Project name: Nello Teer
Phone: 919-852-3595
FAX: 919-852-1997
Client Project #: 0013-94-012
ESC Key:
Collected by: (print): Mike Dwyer
Site/Facility ID#:
P.O.#:
Collected by (signature):

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
FAX? __No__Yes

CoCode: (lab use only)
Template/Prelogin
Cooler #:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	601/602 MS	610							Remarks/Contaminant	Sample # (lab only)
MW-20D	G	GW		10/16/03	1100	4	X	X								L131536-01
MW-28D	G	GW		10/16/03	1215	4	X	X								02
MW-13	G	GW		10/16/03	1245	4	X	X								03

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐		Condition: (lab use only)
	10/16/03	1400				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1C	Bottles Received: 10	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-17-03	Time: 09:30	pH Checked: / NCF: YES

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No.: L131536

Date: 10-17-03

Evaluated by: Jasen

Client: Quantum Env.

Non-Conformance (check applicable items)

____	Chain of Custody is missing	____	Login Clarification Needed
____	Improper container type	____	Improper preservation
____	Chain of custody is incomplete	____	Container lid not in tact
____	Parameter(s) past holding time	____	Improper temperature
____	Broken container(s) **see below**	✓	Broken container: sufficient sample volume remains for analysis requested

____ Insufficient packing material around container

____ Insufficient packing material inside cooler

✓ Improper handling by carrier (FedEx / UPS / Courier)

____ Sample was frozen

Comments: MW-20D = One 1-Liter Amber received broken

MW-13 = One Vial received broken.

Login Instructions:

TSR Initials: _____

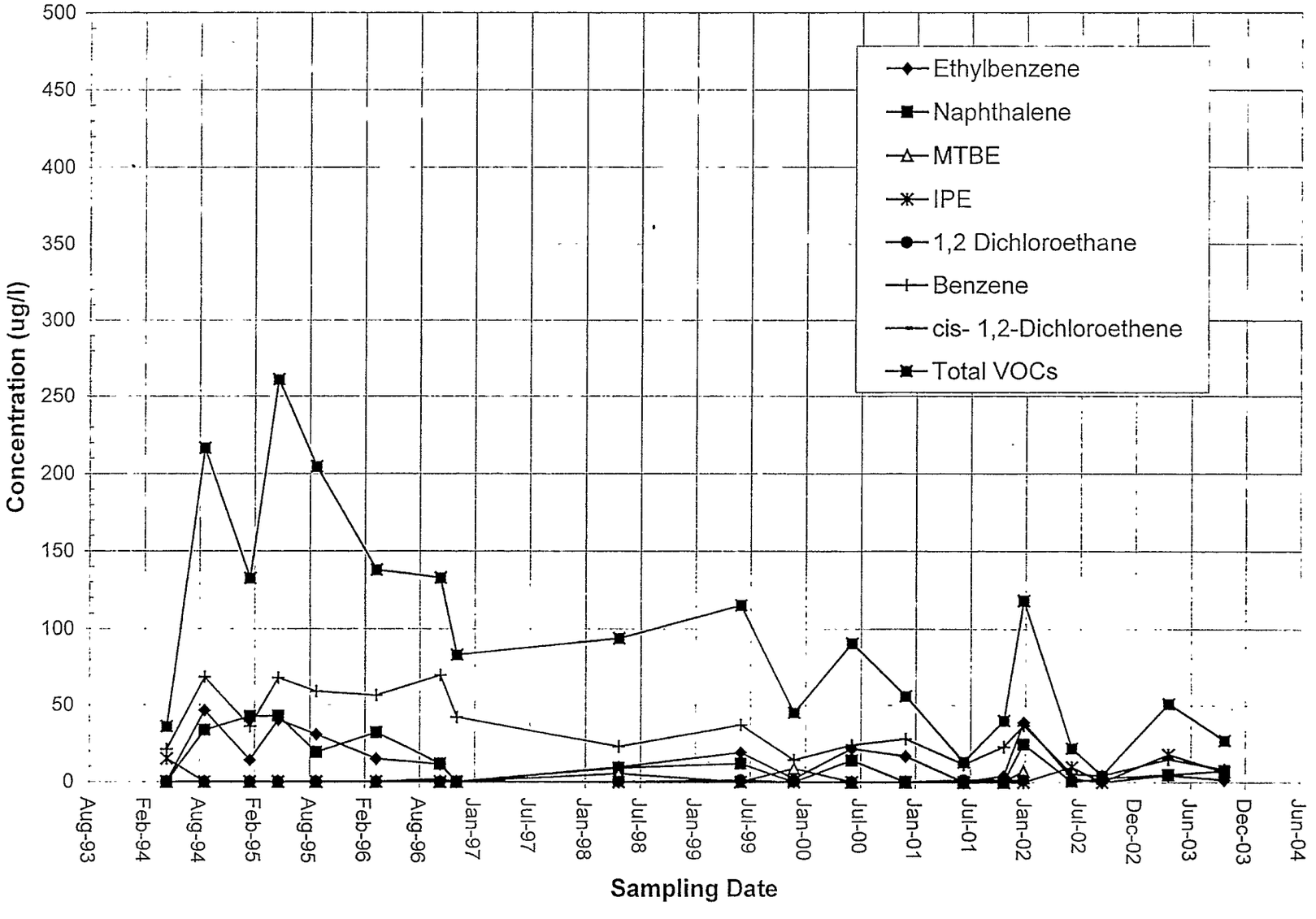
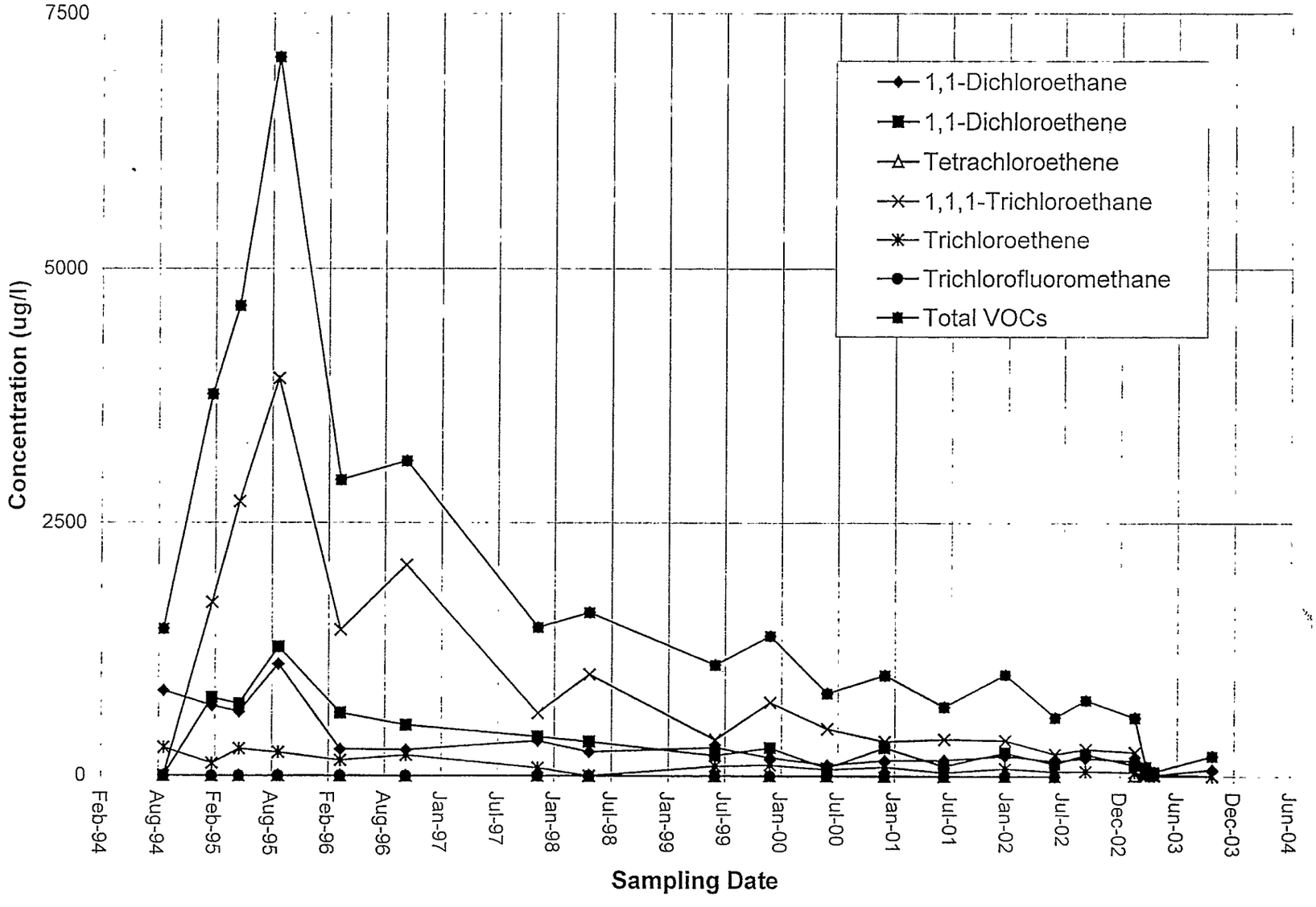
Client informed by call / email / fax / voice mail date: _____ time: _____

Client contact: _____

Appendix C

Charts of Groundwater Concentrations Versus Time for MW-23 and MW-25

MW-23 Historic Groundwater Monitoring Results.



MW-25 Historic Groundwater Monitoring Results.