Quarterly Monitoring Report
Fourth Quarter 2002
Utility Manufacturing Company
700 Main Street
Westbury, New York
02103

February 2003

Prepared for:

Utility Manufacturing Company
700 Main Street
Westbury, New York 11590

Prepared by:

CA RICH CONSULTANTS, INC.
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February 13, 2003

NYSDEC
50 Wolf Road
Albany, New York 12233-7010

Attention: Jeffrey Dyber, P.E.

Re: **Quarterly Monitoring Report**
Fourth Quarter 2002
Utility Manufacturing Company
700 Main Street
Westbury, New York

Dear Mr. Dyber:

Attached is our Quarterly Monitoring Report for the above-referenced site. In accordance with the IRM Work Plan, we have achieved the termination criteria in both the soil vapor and air sparging systems. As such, the remediation system has remained off since the December 2002 sampling round.

A separate Post-Remediation Monitoring Plan will be forwarded to the Department. If there are any questions regarding this Report, please do not hesitate to call our office.

Sincerely,

CA RICH CONSULTANTS, INC.

Linda Ross
Project Geologist

Eric A. Weinstock
Associate

cc: Audie Kranz
Miriam Villani, Esq.
Alali Tamuno, Esq.
Jacqueline Nealson

Attachments

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Utility Manufacturing Company
700 Main Street
Westbury, New York
Site Number: 130043H

1.0 INTRODUCTION

The following Quarterly Monitoring Report was prepared by CA RICH Consultants, Inc. (CA RICH) on behalf of the Utility Manufacturing Company (Utility). This document was prepared in accordance with an Order on Consent, Index Number W1-0795-97-06. For the purposes of this document, the contaminants of concern are perchloroethene (a.k.a. PCE or tetrachloroethene); trichloroethene (TCE); 1,1,1-trichloroethane (TCA) and their degradation products.

The report addresses the remediation of an area of the Upper Glacial Aquifer located in the southwest portion of the property. The estimated thickness of the Upper Glacial Formation at this location is 100 feet and the depth to the water table is approximately 55 feet.

A series of previous investigations were performed at this Site by both the NYSDEC and Utility. A detailed summary of these previous investigations is described in the Remedial Investigation prepared for this Site. The following is a partial list of these previous investigations.

Investigation	Date
NYS Superfund Contract, Site Investigation Report New Cassel Industrial Area (Ref. 1)	February 1995
NYS Superfund Contract, MultiSite PSA Report New Cassel Industrial Area (Ref. 2)	March 1996
NYS Superfund Contract, MultiSite PSA Report New Cassel Industrial Area (Ref. 3)	March 1997
Focused Remedial Investigation, Utility Manufacturing/ Wonder King, Anson Environmental, Ltd. (Ref. 4)	January 1999
On-Site Groundwater Investigation, Utility Manufacturing/ Wonder King, Anson Environmental, Ltd. (Ref. 5)	December 2000
Interim Remedial Measures Report , Utility Manufacturing Company, 700 Main Street, Westbury, New York (Ref. 6)	December 2001

2.0 PHYSICAL SITE CHARACTERISTICS

2.1 Site History

The Utility Manufacturing / Wonder King Site consists of a parcel approximately one acre in size. The property contains one building that was constructed in 1967. The ground surface around three sides of the building is improved with pavement. A narrow unpaved area exists on the west side of the building. A Site Plan is included as Figure 1.

Utility is a chemical blending and packaging plant that has operated at this facility since 1976. The company distributes a variety of cleaning and lubricating products for commercial and industrial customers. The building is constructed with a concrete slab on grade and there are no known floor drains within the structure. Raw materials are stored in above ground tanks within the facility that are registered and inspected periodically. There are also two 4,000-gallon underground storage tanks below the rear of the property that store tetrahydrafuran and acetone.

The services of Safety Kleen are used to provide mineral spirits for use in cleaning silk screens in the plant. Safety Kleen disposes of the used mineral spirits and provides the plant with new product on a contract basis. This is the only chemical waste generated at this Facility.

2.2 Geologic Setting

Utility is situated upon the glacial outwash soil deposits of Long Island at an elevation of approximately 120 feet above mean sea level. The Upper Glacial Formation at this Site includes a layer of clay that occurs at a depth of approximately 38 to 40 feet below grade in the rear of the parking lot. The configuration of this "40-foot" clay layer based on References 4 and 5 is included in the IRM Work Plan (Ref. 6). Based upon field measurements from the five wells installed during the Remedial Investigation, the regional direction of shallow groundwater flow is to the southwest. The depth of the water table occurring within the underlying Upper Glacial Formation is approximately 55 feet below land surface.

The Upper Glacial Formation is underlain at a depth of approximately 100 feet by the Magothy Formation, the principal water supply aquifer for most of Nassau County. The Magothy Formation is, in turn, underlain by the Raritan Formation. The Raritan Formation is composed of the upper Raritan Clay, a regional confining layer, followed by the more permeable Lloyd Sand. The Lloyd Sand sits directly upon crystalline bedrock.

2.3 Evaluation of Previous Groundwater Sample Analyses

Based on the Remedial Investigation (RI), Site wells MW- 1, 2 and 3 are located along the upgradient property boundary of the facility and monitor the quality of the groundwater entering the property. Well MW-4 is installed to monitor perched groundwater that collects on the surface of the "40-foot" clay layer discussed earlier. Well MW-5 is a water table well that monitors the area with the highest levels of VOCs identified at the Site. The location of these wells are illustrated on Figure 1. A summary of the May, 1998 RI results for PCE, TCE and TCA are tabulated below:

Compound (in ppb)	Well Numbers MW-1	MW-2	MW-3	MW-4	MW-5
PCE	12.2	148	142	118	876
TCE	ND	ND	11.4	52.1	69.6
TCA	ND	ND	ND	ND	24.4

3.0 GROUNDWATER MONITORING PROCEDURES

During the course of work at this Site, numerous wells were installed at different points in time. For the purposes of this Report, the groundwater analytical results from the November 2001 IRM will serve as a starting point with regard to plotting the data versus time. As part of the IRM, a series of compliance wells were designated. The network of monitoring wells consists of the following:

• MW-1	• MW-6
• MW-2	• MDCW-7S
• MW-3	• MDCW-7I
• MW-4	• MDCW-7D
• MW-5R	

A map illustrating the locations of these wells is presented on Figure 1. On November 13, 2001 CA RICH returned to these compliance wells and collected a final round of pre-start up samples to serve as a base line for the remediation system.

CA RICH performed the fourth quarter 2002 round of groundwater sampling on December 19, 2002. Three casing volumes of groundwater were purged from each of these wells using a Groundfos™ groundwater sampling pump. Two 40 mil vials were then filled directly from the pump discharge and placed in a cooler with ice packs. The purge water was containerized. All samples were transported under chain-of-custody documentation by an overnight courier to Chemtech Laboratories in New Jersey.

The results of the sampling program are presented on a well-by-well basis on Tables 1 through 9. In addition to the tabular presentation, plots for the concentration of tertachloroethene verses time are also included.

As shown on the data plots, the air sparging system has resulted in a significant improvement in the quality of the groundwater below this Site since the operation of the equipment was initiated. The concentration of tertachloroethene in the Site wells decreased to 13 ug/l or less in all of the wells during the past quarter. It should be noted that the 13 ug/l was detected in upgradient well MW-3. The next highest concentration was 8.6 ug/l in well MW-4.

The multi-depth cluster well (MDCW-7) is located along the southwestern property line. The shallow well at this location, MDCW-7S, decreased in tetrachloroethene concentration from 31 ug/l to 3.3 ug/l. The intermediate depth well (well MDCW-7I) once again showed non detect for tetrachloroethene (less than 1 ug/l). The tetrachloroethene reading for well MDCW-7D remained non detect. Well MW-2 was dry due to a regional lowering of the water table. The replacement well for MW-5 (Well MW-5R) was installed on September 11, 2002 and also displayed no detection for tetrachloroethene (less than 1 ug/l). All the on-site wells, MW-4, 5R, 6, 7s, 7i and 7d contained tetrachloroethene at levels less than the 13 ug/l concentration detected in upgradient well MW-3.

4.0 SOIL VAPOR MONITORING PROCEDURES

On December 19, 2002, one soil vapor sample was collected from the SVE blower discharge using a SKC™ 0.1 to 1.0 liter per minute field rotameter and two SKC Anasorb CSC sorbent tubes connected in series. The sampling equipment was connected to a sample port located between the blower discharge and the first carbon unit. In addition to the sorbent tube samples, field readings were also measured using an HNU meter with a 10.2 ev bulb.

Results of the soil vapor sampling program are summarized on Table 10. In addition, plots of the sorbent tube laboratory results and the HNU readings verses days in operation are included. The initial sample collected during the November 15, 2001 pilot test contained 97,000 ug/m^3 of total VOCs – 53,000 ug/m^3 of which were tetrachloroethene. These concentrations decreased steadily during the first quarter of operation, to a VOC total of 5,400 ug/m^3 and 4,100 ug/m^3 of tetrachloroethene. During the fourth quarter of operation, the concentrations decreased to a VOC total of 900 ug/m^3 with no detection of tetrachloroethene.

5.0 REMEDIATION SYSTEM EQUIPMENT TERMINATION CRITERIA

The following monitoring schedule has been developed in our IRM Work Plan for the operation of the SVE unit and the AS system. Evaluation of historical plots of the data generated during the operation of this equipment will be used to determine when it is appropriate to shut off the remediation equipment.

5.1 SVE Unit Monitoring and Termination Criteria

Once the SVE equipment was installed and was ready to be placed into operation, an initial "base line" soil vapor sample of the untreated vapor stream between the exhaust side of the blower and the inlet side of the carbon canisters was collected on November 15, 2001 using absorbent tubes. The sample tubes were sent to an ELAP-approved laboratory for analysis of halogenated volatile organics including PCE, TCE & TCA and their degradation products using GC methodologies. In addition, a 10.2ev HNU™ was also used to screen the amount of VOCs in the untreated vapor stream. Complete laboratory results are attached.

Total VOC measurements using a Photo Ionization Detector (PID) and sorbent tube samples are currently being collected on a quarterly frequency. As the operation of the SVE unit progresses, the PID and sorbent tube data will be plotted versus time of operation on a graph. Once the levels of total VOCs in the SVE wells decreases to a near constant or asymptotic concentration, operation of the system will be suspended. Graphs of the concentration of total VOCs versus time will be compiled after each round of quarterly monitoring.

The SVE also serves to capture off-gassing contaminants from the AS system. Therefore, regardless of the criteria described above, the SVE system will remain in operation as long as the AS system described in the next section is in operation.

As of the date of this Report, the SVE system has achieved the termination criteria.

5.2 AS System Monitoring and Termination Criteria

The on-Site multi-depth well cluster (MW-7s, i & d), and well MW-5 will serve as compliance points for the operation of this remediation system. Wells MW-1 & 3 will serve as up-gradient monitoring points. Prior to start up of the AS system, "base line" samples were collected from these compliance wells.

The samples from upgradient monitoring wells MW-1 & 3 serve to determine the quality of ground water entering the property from upgradient areas. Once placed in full operation, the compliance wells will be sampled on a quarterly basis and analyzed for halogenated volatile organics using EPA method 8010 or 8021. Graphs of the concentration of PCE versus time will be compiled after each round of quarterly monitoring. The system will be kept in operation until the concentration of PCE, TCE, TCA and their degradation products meets the following criteria.

The AS/SVE system will remain in operation until the groundwater samples from the compliance wells indicate that: 1) they meet the Standards, Criteria and Guidance (SCGs) for PCE, TCE, TCA and their degradation products; 2) the data shows that PCE, TCE, TCA and their degradation products have reached an asymptotic condition and the system is no longer effectively removing the contaminants of concern; or, 3) the concentration of PCE, TCE, TCA and their degradation products in the downgradient compliance wells is equal to or less than the concentrations in the up-gradient monitoring wells.

According to Tables 1 through 9, the concentration of PCE, TCE, TCA and their degradation products appear to have reached an asymptotic condition. In addition, the concentration of PCE in the on-site compliance wells is less than the concentrations in the upgradient monitoring well, MW-3. As such, the Termination Criteria for the AS system has been achieved and the system has remained off since the December 2002 sampling round.

6.0 CONCLUSION

The AS/SVE system remained in "pulsed" operation throughout the fourth quarter of 2002 with no down time. The concentration of tertachloroethene in all of the Site wells ranged from a high of 13 ug/l in upgradient well MW-3 to no detection. As outlined in the IRM Work Plan, the termination criteria for this Site have been achieved. The system will remain off and a Post-Remediation Monitoring Plan will be prepared.

An NYSDEC, ASP Category B deliverable package was performed on the December 2002 sampling round. The data package is attached to this Report.

7.0 REFERENCES

1. NYSDEC (February 1995), NYS Superfund Contract, Site Investigation Report, New Cassel Industrial Area.

2. NYSDEC, (March 1996), NYS Superfund Contract, MultiSite PSA Report, New Cassel Industrial Area.

3. NYSDEC, (March 1997), NYS Superfund Contract, MultiSite PSA Report, New Cassel Industrial Area.

4. Anson Environmental, Ltd., (January 1999), Focused Remedial Investigation, Utility Manufacturing/Wonder King,

5. Anson Environmental, Ltd , (December 2000), On-Site Groundwater Investigation, Utility Manufacturing/Wonder King.

6. CA RICH, (December 2001), Interim Remedial Measures Report, Utility Manufacturing Company, 700 Main Street, Westbury, New York

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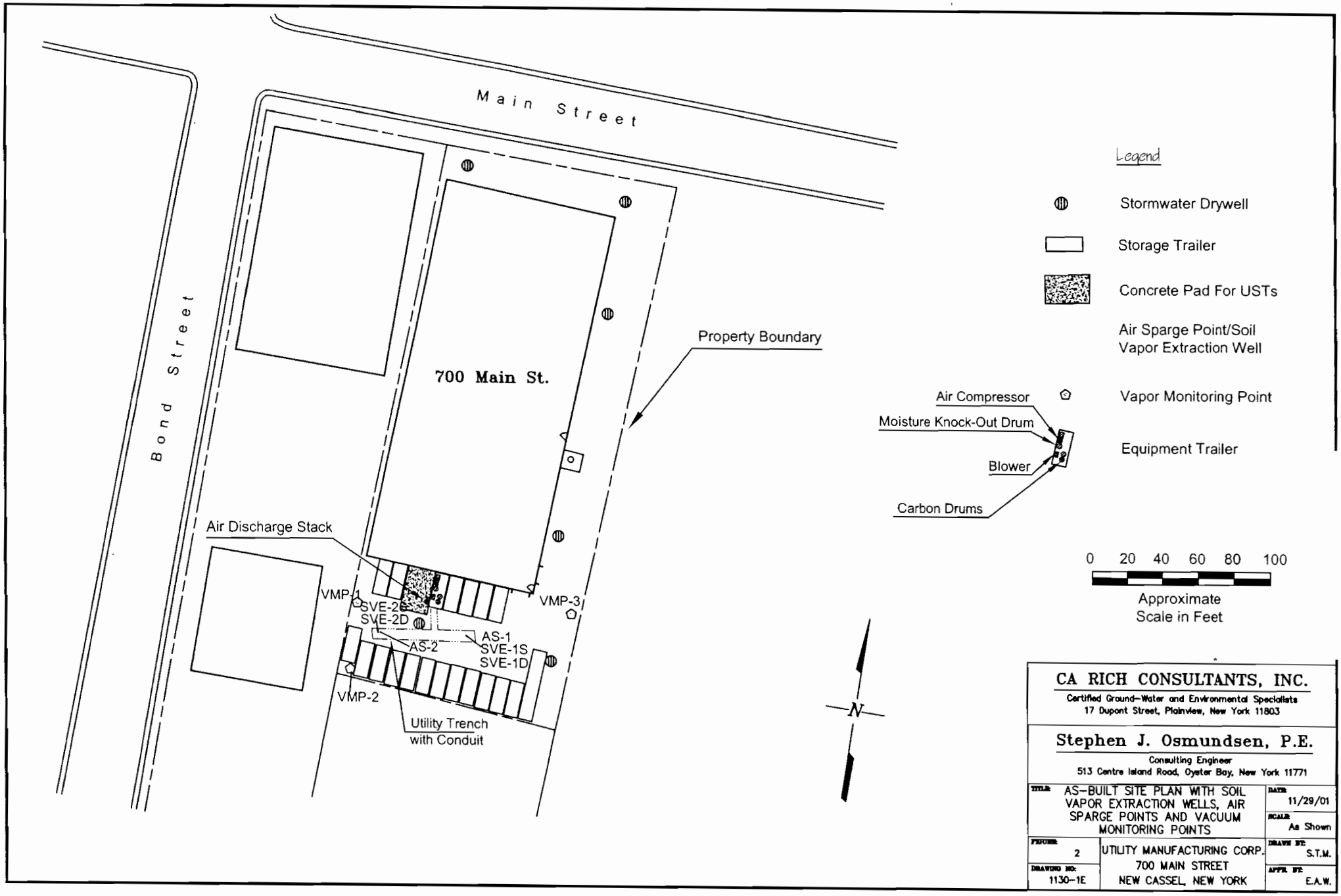
FIGURES



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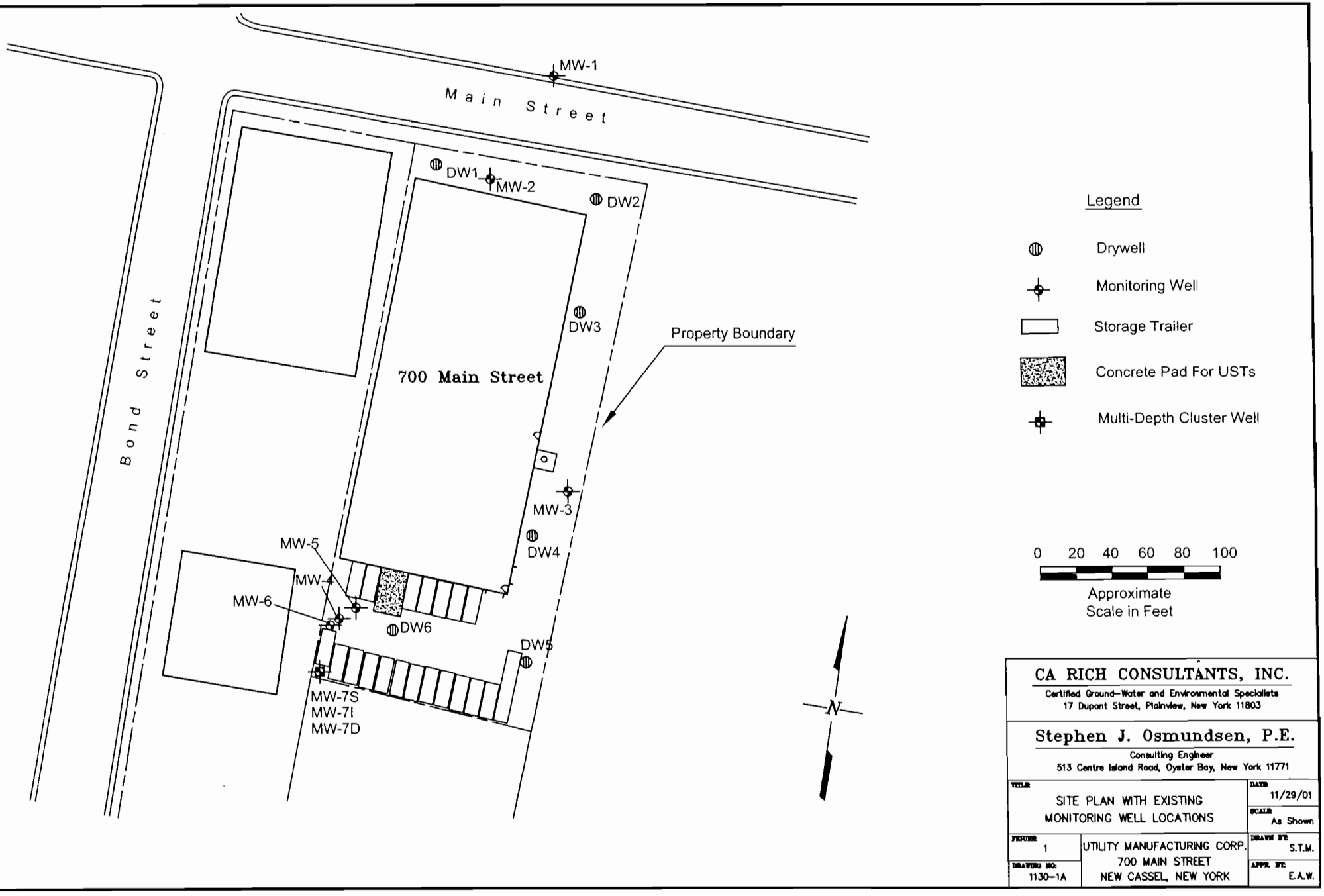
Certified Ground-Water and Environmental Specialists
17 Dupont Street, Plainview, New York 11803

Stephen J. Osmundsen, P.E.
Consulting Engineer
513 Centre Island Road, Oyster Bay, New York 11771

TITLE: AS-BUILT SITE PLAN WITH SOIL VAPOR EXTRACTION WELLS, AIR SPARGE POINTS AND VACUUM MONITORING POINTS		DATE: 11/29/01
		SCALE: As Shown
FIGURE: 2	UTILITY MANUFACTURING CORP. 700 MAIN STREET NEW CASSEL, NEW YORK	DRAWN BY: S.T.M.
DRAWING NO: 1130-1E		APPR. BY: E.A.W.



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513 Centre Island Road, Oyster Bay, New York 11771

TITLE: SITE PLAN WITH EXISTING MONITORING WELL LOCATIONS		DATE: 11/29/01
		SCALE: As Shown
FIGURE: 1	UTILITY MANUFACTURING CORP.	DRAWN BY: S.T.M.
DRAWING NO: 1130-1A	700 MAIN STREET NEW CASSEL, NEW YORK	APPR. BY: E.A.W.

TABLES

Table 1
Summary of Analytical Detections in Well MW-1
Utility Manufacturing, Westbury, NY

Well ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	55 to 60	55 to 60	55 to 60	55 to 60	55 to 60					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	5.4	2.8	1.7	3.9	2.0					5.00
Trichloroethene	ND	ND	ND	ND	ND					5.00
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	ND	ND	ND	ND	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

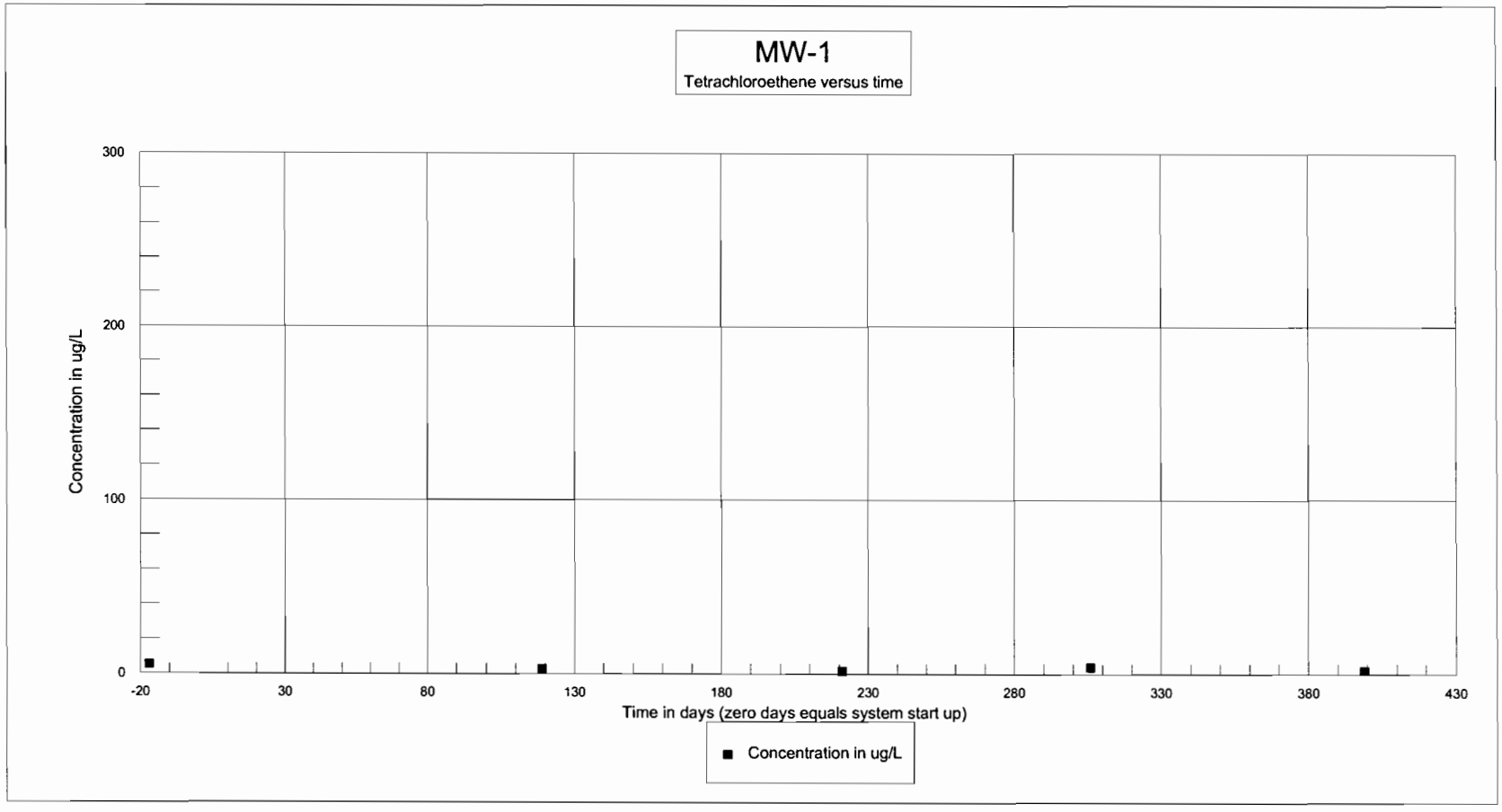

MW-1
Tetrachloroethene versus time
300
200
100
0
Concentration in ug/L
-20
30
80
130
180
230
280
330
380
430
Time in days (zero days equals system start up)
Concentration in ug/L

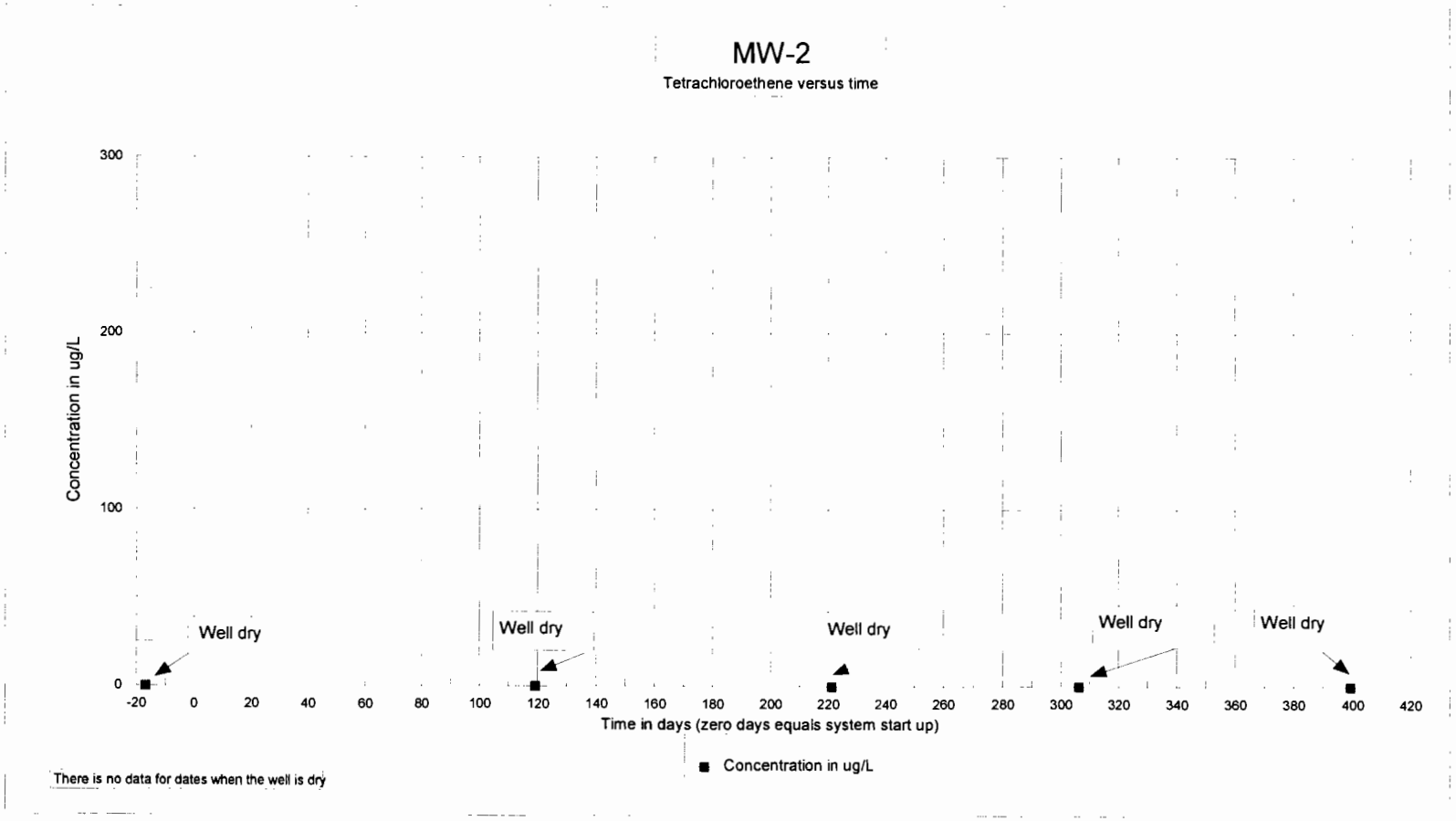
Table 2
Summary of Analytical Detections in Well MW-2
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	dry	dry	dry	dry	dry					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	dry	dry	dry	dry	dry					5.00
Trichloroethene	dry	dry	dry	dry	dry					5.00
cis-1,2-Dichloroethene	dry	dry	dry	dry	dry					5.00
trans-1,2-Dichloroethene	dry	dry	dry	dry	dry					5.00
Vinyl Choride	dry	dry	dry	dry	dry					2.00
1,1,1 Trichloroethane	dry	dry	dry	dry	dry					5.00
1,1Dichloroethane	dry	dry	dry	dry	dry					5.00
Chloroethane	dry	dry	dry	dry	dry					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.



CA RICH Consultants, Inc.

Users\Eric\SS\Utility\O&M-D

Table 3
Summary of Analytical Detections in Well MW-3
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	55 to 70	55 to 70	55 to 70	55 to 70	55 to 70					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	49	14	15	20	13					5.00
Trichloroethene	2.9	ND	ND	ND	ND					5.00
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	3.1	ND	ND	ND	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

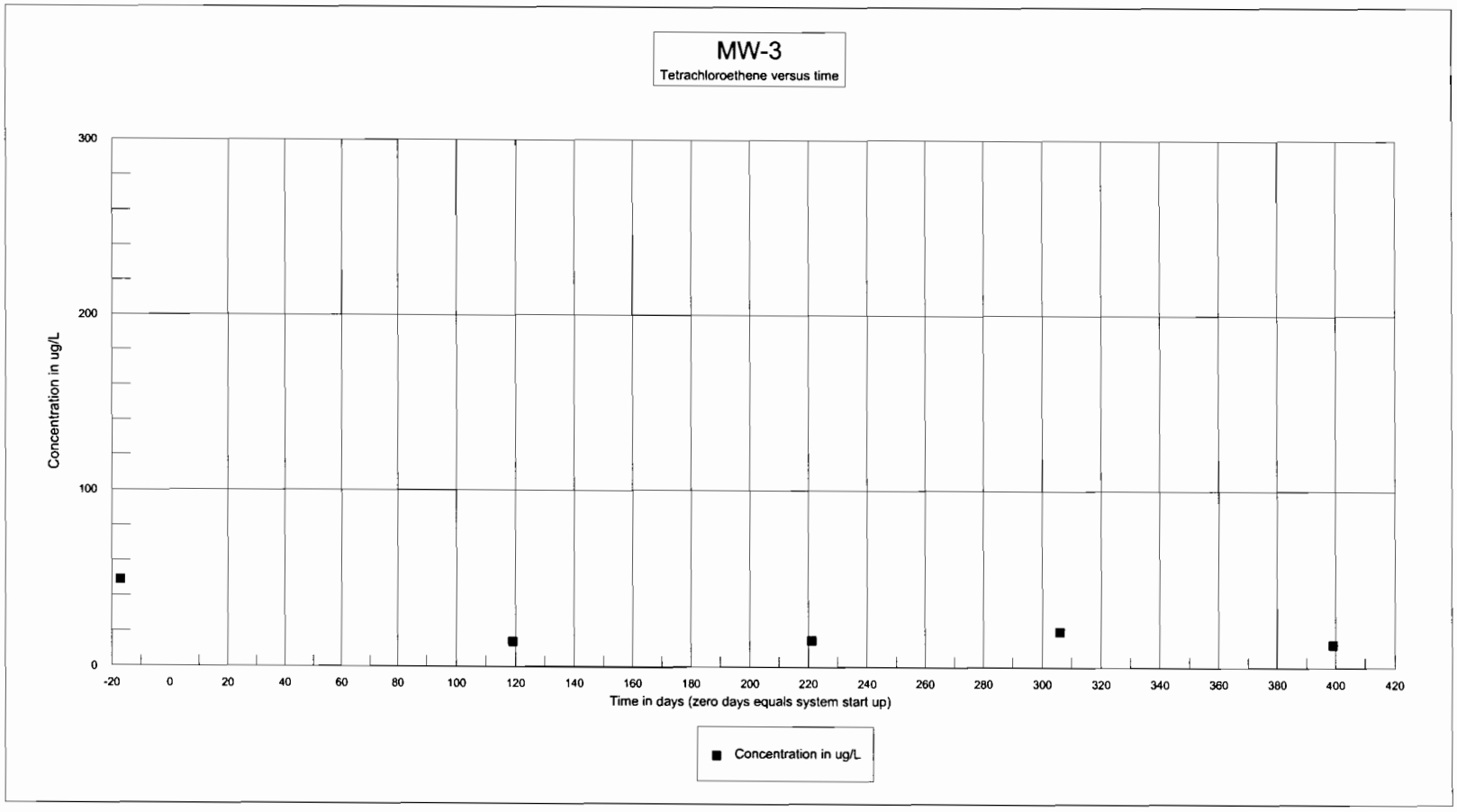

MW-3
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L

Table 4
Summary of Analytical Detections in Well MW-4
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	dry	dry	29 to 39	29 to 39	29 to 39					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	dry	dry	1.4	5.8	8.6					5.00
Trichloroethene	dry	dry	1.4	4.6	2.8					5.00
cis-1,2-Dichloroethene	dry	dry	ND	ND	ND					5.00
trans-1,2-Dichloroethene	dry	dry	ND	ND	ND					5.00
Vinyl Choride	dry	dry	ND	ND	ND					2.00
1,1,1 Trichloroethane	dry	dry	ND	ND	ND					5.00
1,1Dichloroethane	dry	dry	ND	ND	ND					5.00
Chloroethane	dry	dry	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

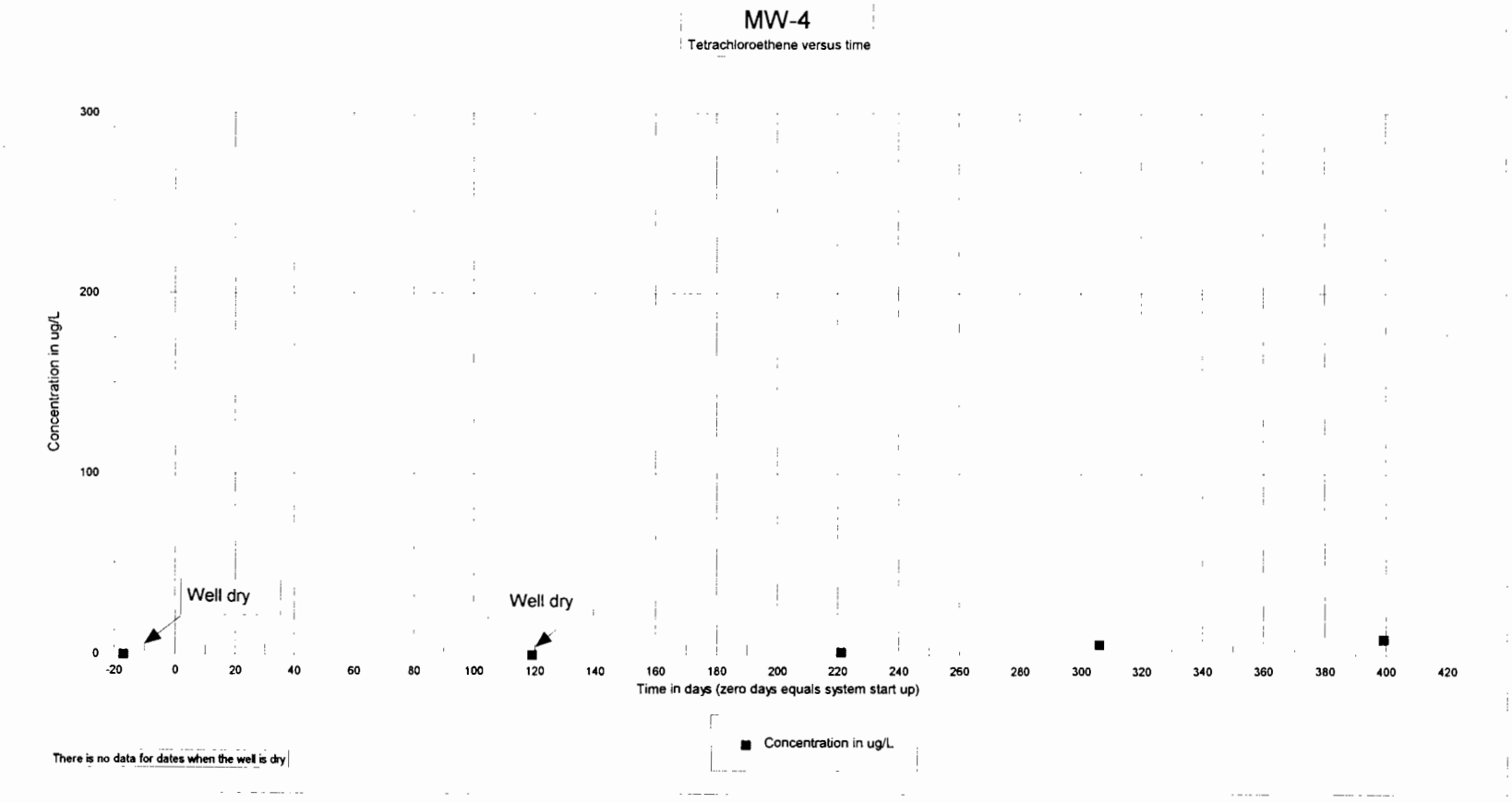

MW-4
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
Well dry
Well dry
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L
There is no data for dates when the well is dry

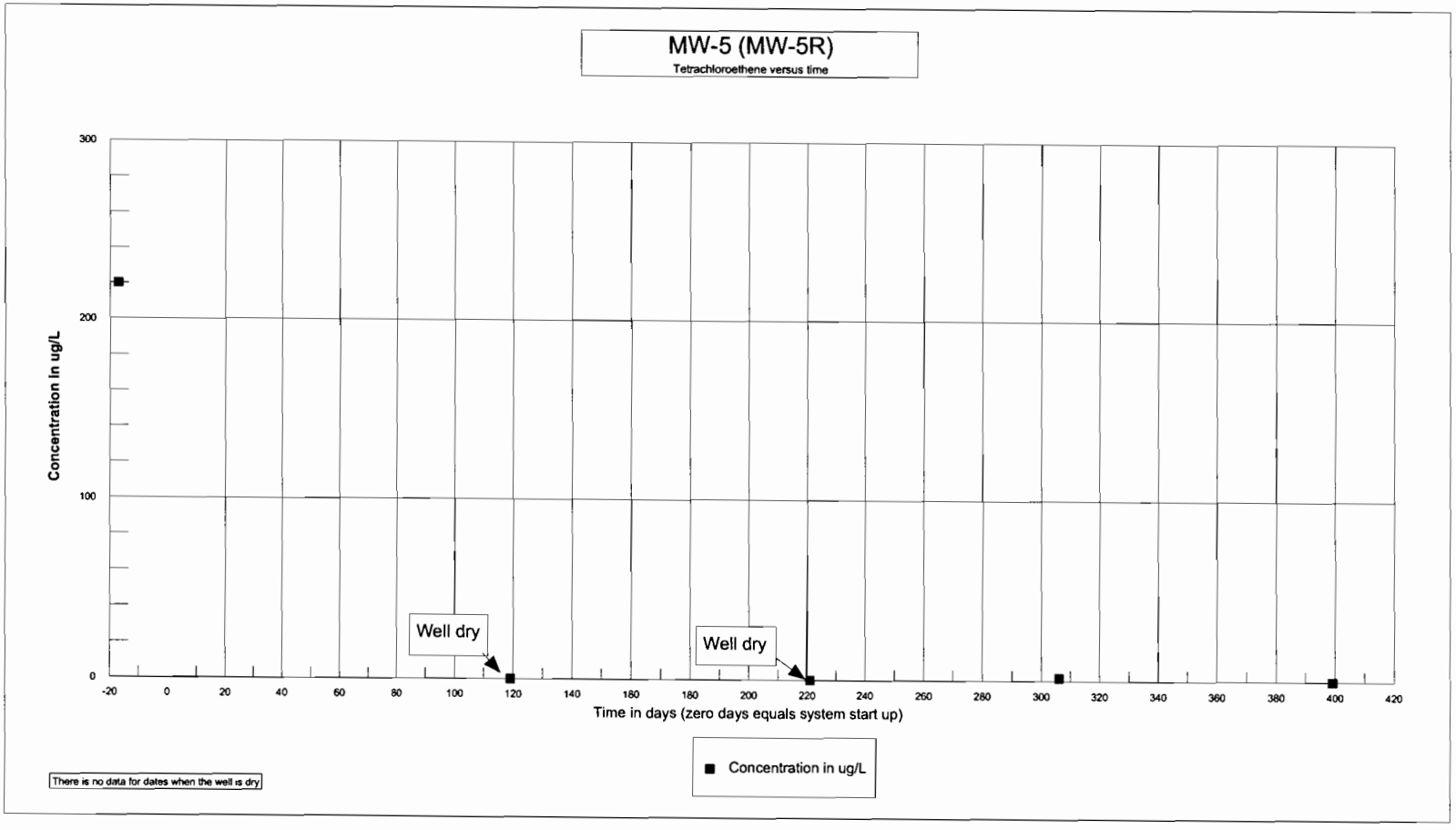
Table 5
Summary of Analytical Detections in Well MW-5 (MW-5R)
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-5	MW-5	MW-5	MW-5R	MW-5R	MW-5R	MW-5R	MW-5R	MW-5R	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	55 to 61.5	dry	dry	59 to 70	59 to 70					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	220	dry	dry	1.6	ND					5.00
Trichloroethene	24	dry	dry	ND	ND					5.00
cis-1,2-Dichloroethene	25	dry	dry	ND	ND					5.00
trans-1,2-Dichloroethene	ND	dry	dry	ND	ND					5.00
Vinyl Choride	ND	dry	dry	ND	ND					2.00
1,1,1 Trichloroethane	10	dry	dry	ND	ND					5.00
1,1Dichloroethane	ND	dry	dry	ND	ND					5.00
Chloroethane	ND	dry	dry	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.



CA RICH Consultants, Inc.

Users\Eric\SS\Utility\O&M-D

Table 6
Summary of Analytical Detections in Well MW-6
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	55 to 95	55 to 95	55 to 95	55 to 95	55 to 95					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021) Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	40	46	8.6	12	5.9					5.00
Trichloroethene	4	3.7	ND	1.1	ND					5.00
cis-1,2-Dichloroethene	8.9	13	4.1	5.8	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	1.5	2.4	ND	ND	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

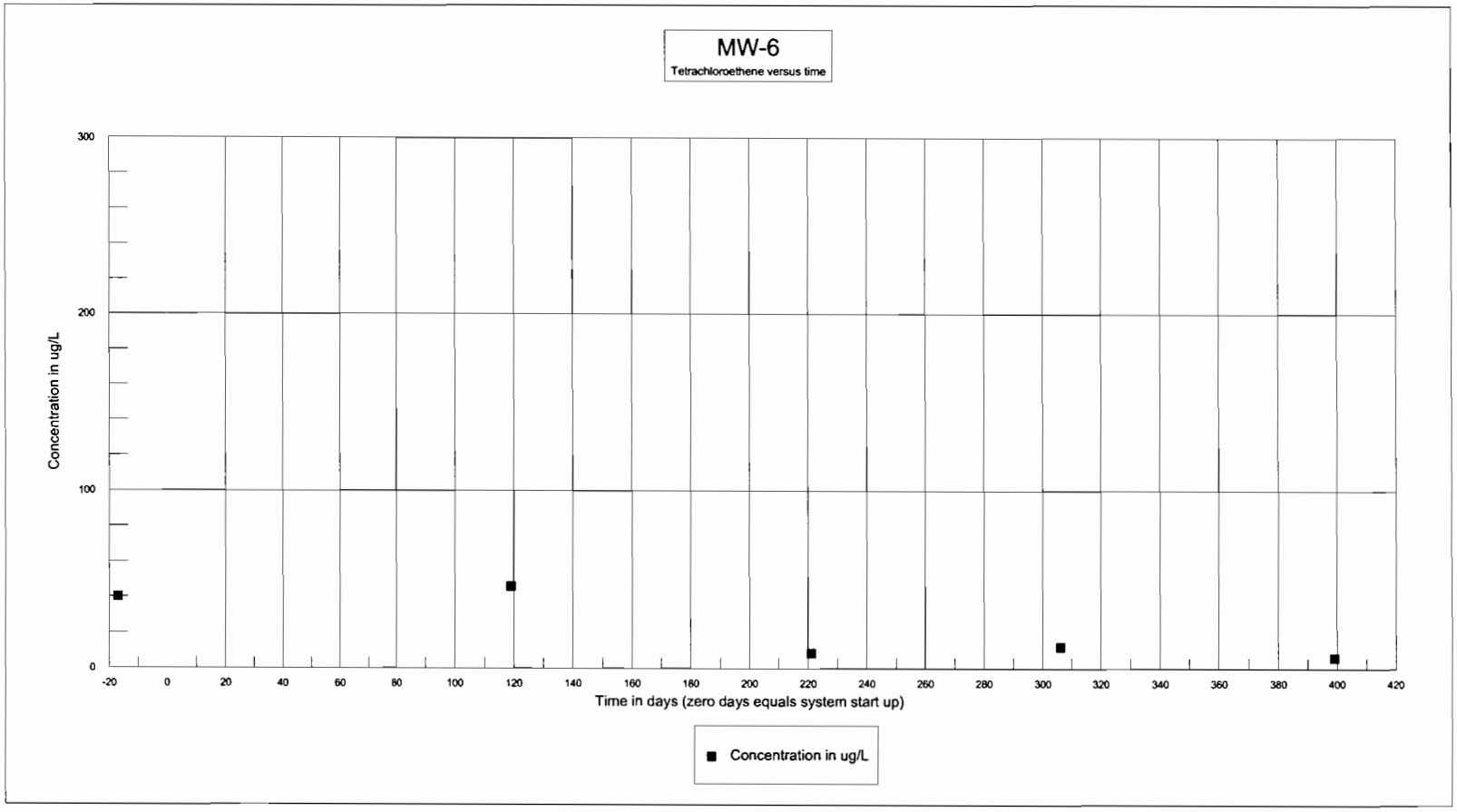

MW-6
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L

Table 7
Summary of Analytical Detections in Well MW-7S
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	55 to70	55 to70	55 to70	55 to70	55 to70					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021) Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	ND	31	8.6	5.6	3.3					5.00
Trichloroethene	ND	2.7	ND	ND	ND					5.00
cis-1,2-Dichloroethene	ND	7.1	2.9	ND	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	ND	1.5	ND	ND	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

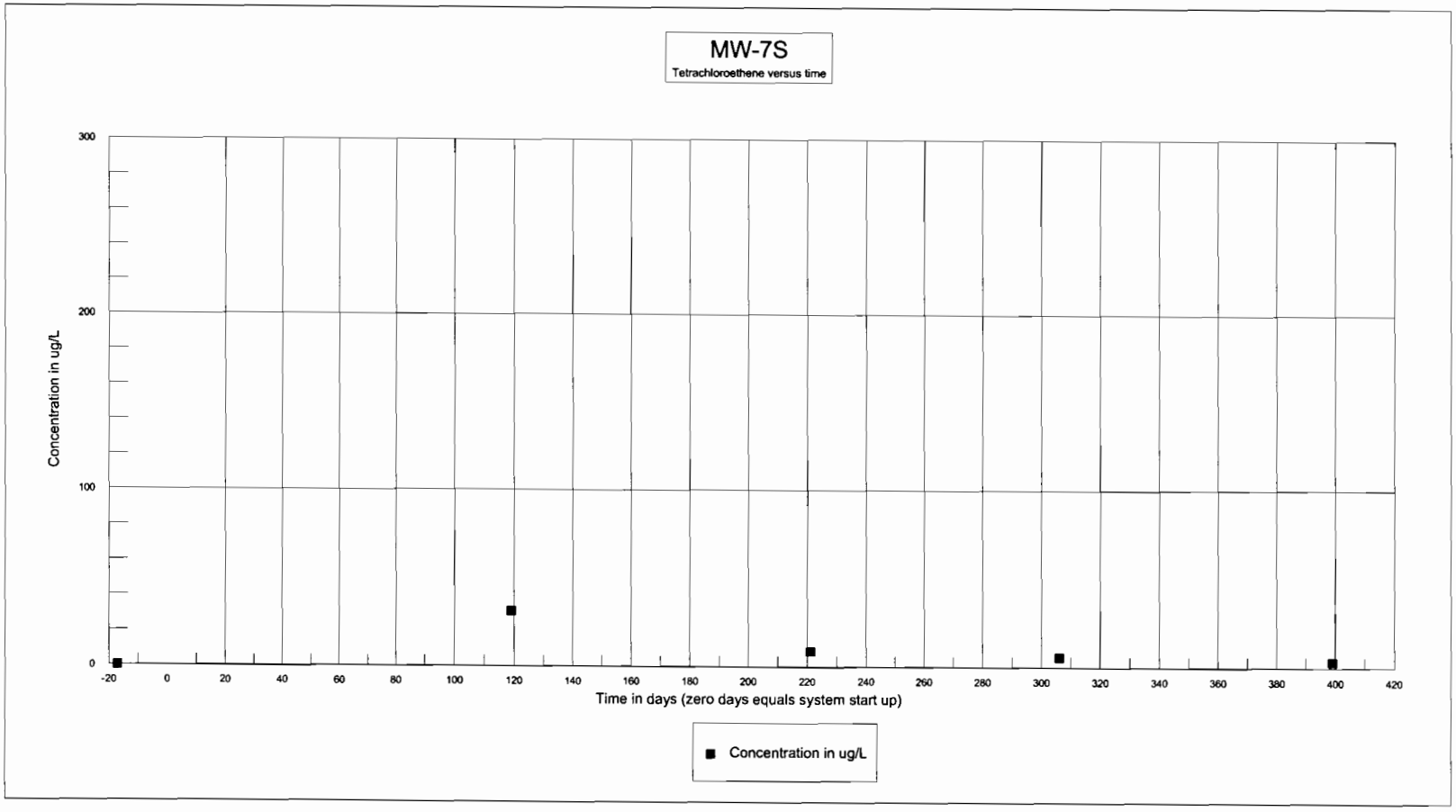

MW-7S
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L

Table 8
Summary of Analytical Detections in Well MW-7I
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW--7I	MW--7I	MW--7I	MW--7I	MW--7I	MW--7I	MW--7I	MW--7I	MW--7I	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Sample depth in feet	78 to 88	78 to 88	78 to 88	78 to 88	78 to 88					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	260	ND	ND	ND	ND					5.00
Trichloroethene	30	ND	ND	ND	ND					5.00
cis-1,2-Dichloroethene	32	ND	ND	ND	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	19	ND	ND	ND	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

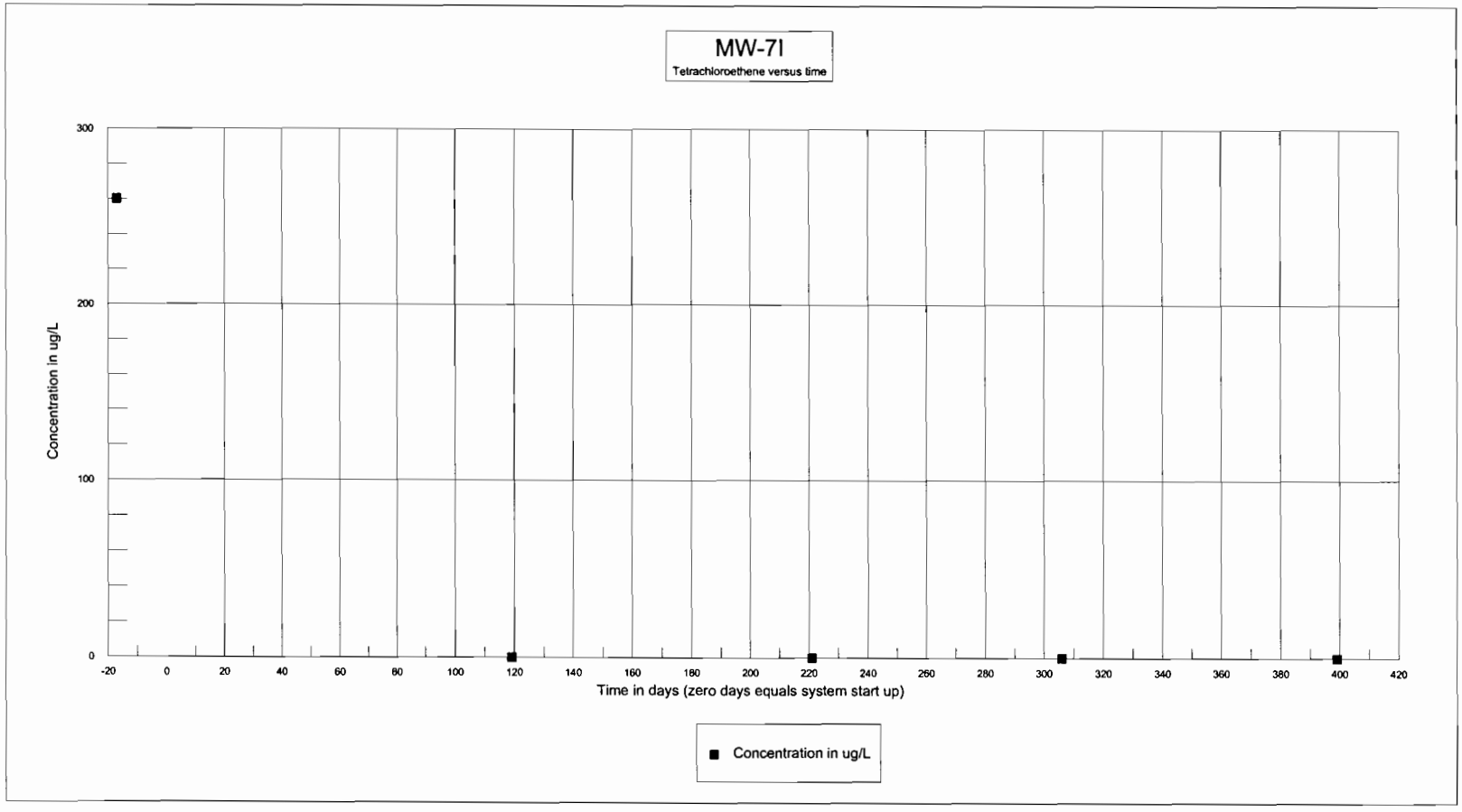

MW-7I
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L

Table 9
Summary of Analytical Detections in Well MW-7D
for Volatile Organics Compounds in Groundwater
Utility Manufacturing, Westbury, NY

Well ID	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	NYSDEC
Comments/Calendar Quarter	Baseline Data	1 Qtr 2002	2 Qtr 2002	3 Qtr 2002	4 Qtr 2002	1 Qtr 2003	2 Qtr 2003	3 Qtr 2003	4 Qtr 2003	TOGS*
Depth in feet	95 to 105	95 to 105	95 to 105	95 to 105	95 to 105					values
Date Sampled	10/29/2001	03/14/2002	06/24/2002	09/17/2002	12/19/2002					
Days since system start up	-17	119	221	306	399					
Days since initial sample	0	136	238	323	416					
Volatile Organics (EPA METHOD 8021)										
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tetrachloroethene	ND	ND	ND	ND	ND					5.00
Trichloroethene	ND	ND	ND	ND	ND					5.00
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND					5.00
Vinyl Choride	ND	ND	ND	ND	ND					2.00
1,1,1 Trichloroethane	2.6	1.2	1.6	2.5	ND					5.00
1,1Dichloroethane	ND	ND	ND	ND	ND					5.00
Chloroethane	ND	ND	ND	ND	ND					5.00

Notes:
ND: Indicates compound analyzed but not detected at laboratory detection level.
ug/L: micrograms per liter or parts per billion.
Date of system start up: 11/15/2001

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values; June 1998

Prepared by CA Rich Consultants Inc.

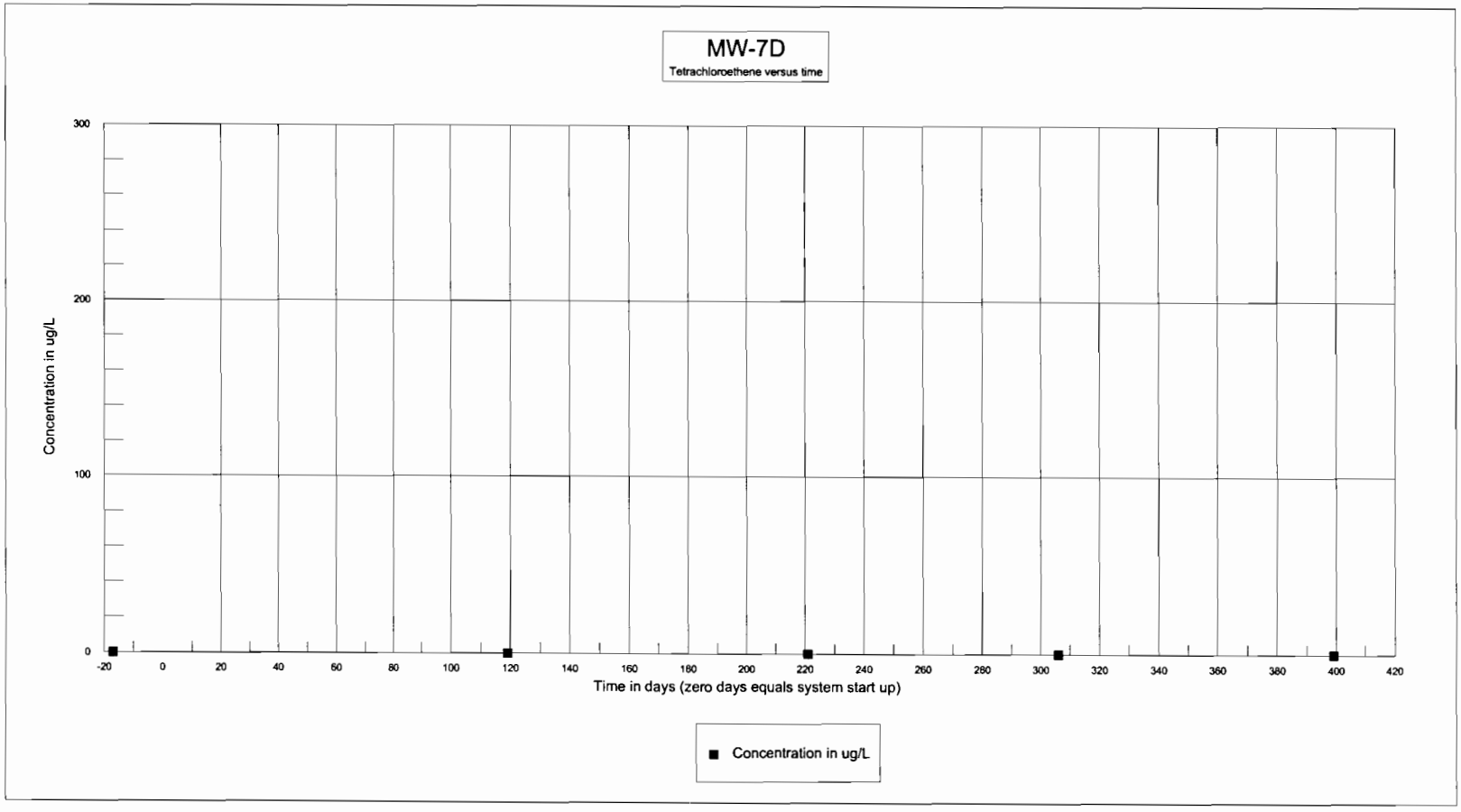
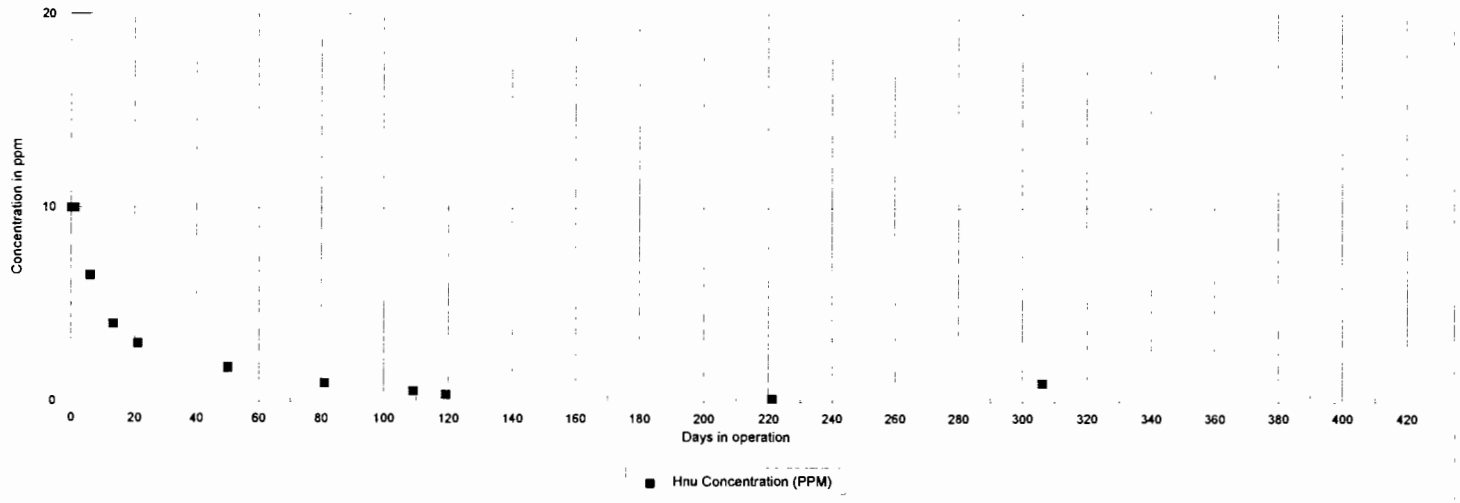

MW-7D
Tetrachloroethene versus time
Concentration in ug/L
300
200
100
0
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
Time in days (zero days equals system start up)
Concentration in ug/L

Table 10
Soil Vapor Extraction Readings
Utility Manufacturing Company
700 Main Street, Westbury, NY

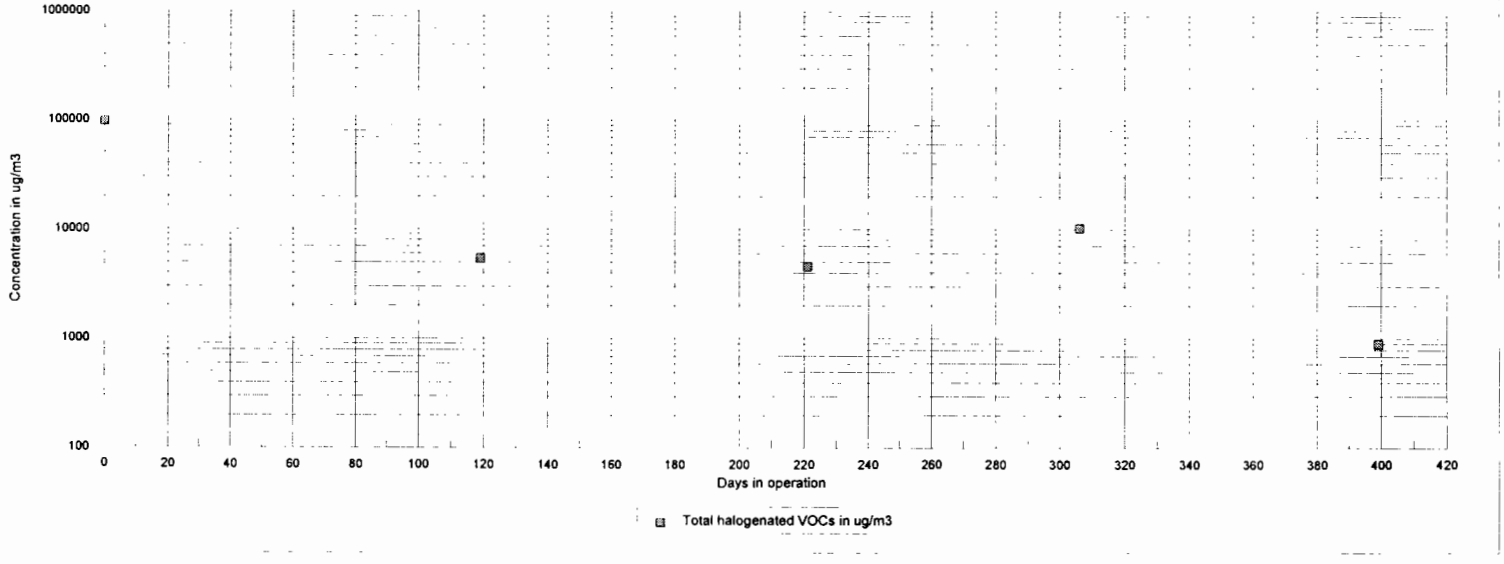
Date	Number of Days in Operation	HNU Before Carbon*	PCE Before Carbon**	TCE Before Carbon**	DCE Before Carbon**	TCA Before Carbon**	Total VOCs Before Carbon**	Comments
11/15/2001	0	10	53,000	14,000	22,000	8,000	97,000	Pilot Test & System Start-up - tube sample
11/16/2001	1	10						
11/21/2001	6	6.5						
11/28/2001	13	4						
12/06/2001	21	3						
01/04/2002	50	1.8						
02/04/2002	81	1						
03/04/2002	109	0.6						
03/14/2002	119	0.4	4,100	470	370	460	5,400	1st Qtr.2002 Monitoring - tube sample
06/24/2002	221	0.2	3,400	320	380	480	4,580	2 nd Qtr.2002 Monitoring - tube sample
09/17/2002	306	1	6,800	1,100	880	1,500	10,280	3 rd Qtr.2002 Monitoring - tube sample
12/19/2002	399	MM	ND	ND	190	710	900	4th Qtr, 2002 Monitoring - tube sample

Notes: * - HNU field meter with 10.2 ev lamp measures total VOCs in PPM
** - All laboratory analyses reported in ug/m3
NA - Not Applicable.
MM - Meter Malfunctioned

HNU vapor readings versus time of operation



Laboratory vapor readings versus time of operation



APPENDIX A

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

DATA PACKAGE FOR VOLATILE ORGANICS

PROJECT NAME: utility

RICH CONSULTANTS
17 DUPONT STREET
PLAINVIEW, NY 11803
5165768844

CHEMTECH PROJECT NO. **P5650**
ATTENTION: **Mike Yager**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: utility

Order P5650 **CustomerName** Rich Consultants

LAB SAMPLE NO.	CLIENT SAMPLE NO
P5650-01	MW-1
P5650-02	MW-3
P5650-03	MW-4
P5650-04	MW-5
P5650-05	MW-6
P5650-06	MW-7S
P5650-07	MW-7I
P5650-08	MW-7D
P5650-09	MW-5DUP
P5650-10	MW-7IMS
P5650-11	MW-7IMSD
P5650-12	FIELDBLANK
P5650-13	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Martha Guerra Name: Martha Guerra

Date: 11/10/02 Title: QA/QC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: P5650

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non- Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II.	Table of Contents	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hold Time Checks	✓	
VI.	Non-Conformance Summary	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)		✓
X.	Quality Control Summary Reports	✓	
XI.	Surrogate Recovery Summary		✓
XII.	Raw Data Chromatogram, Blank, Samples and QC when applicable		✓
XIII.	Subcontract Data		✓

Martha Arana
QA/QC Data Reviewer

1/10/03
Date

☐ 110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3237

☐ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 10624

NYSDOH Certification No. 11376
NJDEP Certification No. 30012

TABLE OF CONTENTS
PROJECT NUMBER: P5650

5-4A
11/10/03

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

CHAIN OF CUSTODY RECORD

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: P5650

CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: GA RICH CONSULTANTS, INC

ADDRESS: 17 DUPONT STREET

CITY: PLAINVIEW STATE: NY ZIP: 11803

ATTENTION: MICHAEL YAGER

PHONE: 516-576-8844 FAX: 516-576-0093

PROJECT INFORMATION

PROJECT NAME: UTILITY MANUFACTURING

PROJECT NO.: UTILITY 4 LOCATION: RTE 24

PROJECT MANAGER: ERIC WEINSTOCK

E-MAIL:

PHONE: 516-576-8844 FAX: 516-576-0093

BILLING INFORMATION

BILL TO: GA RICH CONSULTANTS

ADDRESS: 17 DUPONT STREET

CITY: PLAINVIEW STATE: NY ZIP: 11803

ATTENTION: MIKE YAGER PHONE: 516-576-8844

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *

HARD COPY: _____ DAYS *

EDD: _____ DAYS *

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP

☐ RESULTS + QC ☒ NYS ASP "B"

☐ NJ REDUCED ☐ NYS ASP "A"

☐ NJ CLP ☐ EDD

☐ EDD FORMAT: _____

ANALYSIS

EPA 8021 HALOS VOC ONLY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A									← Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1	MW-1	WATER		✓	12/19/02	1055	2	2									
2	MW-3					1115	2	2									
3	MW-4					1125	1	1									
4	MW-5					1315	2	2									
5	MW-6					1220	2	2									
6	MW-7S					1355	2	2									
7	MW-7I					1425	2	2									
8	MW-7D					1520	2	2									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
	12/19/02	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY: JPS	DATE/TIME: 12/23/02 10:00	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☑ Temp. of Cooler 4.6

MeOH extractions requires an additional 4oz. jar for percent solid.

Comments:

Page 1 of 2

Shipped Via: Client ☐ Hand Delivered ☑ Overnight Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☑ Yes ☐ No

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

31680

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: P5650

CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CA Rich Consultants

ADDRESS: 17 Dupont Street

CITY: Plainview STATE: NY ZIP: 11803

ATTENTION: Michael Yaser

PHONE: 516-576-8844 FAX: 516-576-0023

PROJECT INFORMATION

PROJECT NAME: Utility Manufacturing

PROJECT NO.: Utility Location South O+M

PROJECT MANAGER: Eric Weinstock

E-MAIL:

PHONE: 516-576-8844 FAX: 516-576-0023

BILLING INFORMATION

BILL TO: CA Rich Consultants PO#:

ADDRESS: 17 Dupont Street

CITY: Plainview STATE: NY ZIP: 11803

ATTENTION: Mike Yaser PHONE: 516-576-8844

DATA TURNAROUND INFORMATION

_____ DAYS *

_____ DAYS *

_____ DAYS *

* TO BE APPROVED BY CHEMTECH

NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ NJ REDUCED
- ☐ NJ CLP
- ☐ EDD FORMAT: _____
- ☐ USEPA CLP
- ☒ NYS ASP "B"
- ☐ NYS ASP "A"
- ☐ EDD

ANALYSIS

1 EPA 8021 Halogenated VOC ONLY | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

PRESERVATIVES

A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

COMMENTS

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

CHEMTECH SAMPLE #	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A 1	2	3	4	5	6	7	8	9
1	MW-5 (DUP)	WATER		✓	12/19/02	1315	2	2								
2	MW-7I (MS)					1425										
3	MW-7I (MSD)					1425										
12	FIELD BLANK					1350										
13	TRIP BLANK	↓		↓	↓	—	↓	↓								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
	12/19/02	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
		2.
RELINQUISHED BY: UPS	DATE/TIME: 12/23/02 1000	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☑ Temp. of Cooler 4-0

MeOH extractions requires an additional 4oz. jar for percent solid.

Comments:

Page 2 of 2

Shipped Via: Client ☐ Hand Delivered ☑ Overnight Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☑ Yes ☐ No

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

31679

Record Of Communication
Login Change Form

Internal Communication

Order Number: P5650	**Today's Date:** **01/10/03**
Client: CA Rich	**Sample Date:** **12/19/02**
Client Contact: **Mike Yager**	**Form Initiated by:** ~~Kurt Hummler~~ DAVELLE JOHNSON
	Project Manager Kurt Hummler
General Comments/Special Instructions: **Report 8010 List**	

Call initiated by: ☐ Client ☐ Chemtech

Login Changes

Sample Number	Add Test	Delete Test	Change TAT

Signature Davelle Johnson **Date** 1·10·03

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

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

B	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W " or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.

M — Method qualifiers

- "P" for ICP instrument
- "A" for Flame AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for flame AA when Microwave Digestion is used
- "FM" for furnace AA when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for automated Cold Vapor AA
- "CA" for MIDI-Distillation Spectrophotometric
- "AS" for Semi -Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- "NR" for analyte not required to be analyzed

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

METHODOLOGY REVIEW & LABORATORY CHRONICLE

CHEMTECH

284 Sheffield Street, Mountainside 07092
Tel: 908-789-8900 Fax: 908-789-8922

LABORATORY CHRONICLE

CLIENT: CA RICH CONSULTANTS, INC.
CLIENT PROJECT: UTILITY
DATE RECEIVED: 12/23/02
LABORATORY PROJECT: P5650

SAMPLE DATE	ANALYSIS DATES	ANALYSIS
12/19/02	1/02/03	GC VOLATILE ORGANIC

CHEMTECH

284 Sheffield Street, Mountainside 07092
Tel: 908-789-8900 Fax: 908-789-8922

METHODOLOGY

Volatile Organic by GC

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition
** Method 8021B

* Indicates reference
** Indicates Methods

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:12013 : NEW YORK LAB ID#: 11376

GC VOA ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT LAB NUMBER: P5650 MATRIX: Water

METHOD: 8018

	YES	NA	NO
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)	✓		
2. Standards Summary Submitted	✓		
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD	✓		
4. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

VOA Fraction _____

Other _____

5. Surrogate Recoveries Meet Criteria	✓		

If not met, list those compounds and their recoveries which fall outside the acceptable ranges

VOA Fraction _____

Other _____

6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria.			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

VOA

Fraction please see MS/MSD table

Other _____

GC VOA ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY(CONTINUED)

	YES	NA	NO
7. Extraction Holding Time Met		✓	

If not met, list number of days exceeded for each sample:

	YES	NA	NO
8. Analysis Holding Time Met		✓	

If not met, list number of days exceeded for each sample:

Additional Comments:

Analyst — Date: 01/10/03

QA REVIEW — Date: 1/10/03

PEER REVIEW CHECKLIST FOR GC DATA

Fraction: Soil Project #: P5605.0

Sample Numbers: 1-13

QA DATA:

ITEM	Completed
Check instrument log for samples in batch. Highlights.	✓
Make sure correct lab numbers are listed on all data.	✓
Check Chain Custody and Login Sheet for project specific information.	✓
Check that all manual integrations are initialed and dated.	✓
Verify that the retention time of every peak of interest meet the criteria for window (RT ±3 times the standard deviation of the mean absolute value or default to 0.03 minutes.)	✓
BLANKS:	
Check quant report for compounds called and quantitation.	✓
Check if any compounds need to be flagged with a J.	✓
Check that blank meets contamination criteria.	✓
Check blank chromatograms to ensure that all peaks are accounted for.	✓
Check that all compounds not called are crossed off, initialed and dated on quantitation reports.	✓
CALIBRATION:	
Check that the proper initial and continuing calibration forms are included.	✓
Compare initial curves to continuing curve to make sure correct curves are included.	
Verify dates on curves.	✓
Verify that extra compound initial calibration and continuing are included.	✓
Verify that a continuous calibration check is run every 12 hrs for 8000 series and CLP and every 24hrs for 600 series	✓
Check that the criteria is met on the initial and continuing calibrations. 20% RSD for initial calibration and 15% for continuing calibration for 8000 series, 25% for CLP and 10% RSD and Table on SOP for continuing for 600 series	✓
Verify a closing check is analyzed for each analytical sequence	✓
Verify that the concentration of the CCC is varied	✓
SURROGATES:	
Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge).	✓
Check that surrogate recoveries meet QC limits listed on the form. Make sure values outside of limits are flagged and tallied.	✓
Check that appropriate action was taken for surrogate recoveries which did not meet QC criteria (samples are re-analyzed to prove matrix interference).	✓
Verify surrogates reported to the quantitation reports.	✓
SPIKES:	
Check that appropriate sample is on the spike recovery form.	✓
Verify that the correct spike sample is being reported for that batch.	✓
Check that the spike recoveries are reported on the appropriate form (i.e. water, soil).	✓
Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied.	✓
Verify spike recoveries to quantitation reports.	✓
Verify that a blank spike was analyzed for each batch of 20 samples.	
Verify that the blank spike meets QC requirements (70-130%)	
If any values outside of QC limits exist on MS/MSD, was Blank Spike used?	

Non-conformances / Comments: _____

SAMPLES:

ITEM	Completed
Check that all manual integrations are initialed , dated and justified.	✓
Check that the correct sample matrix and units are on the result form.	✓
Check quant report for targeted compounds called and verify quantitation (be sure to take moisture and dilutions into account).	✓
Check to ensure that compounds which exceeds the linear range have been. diluted, re-analyzed, and quanted from the dilution.	✓
Check that reporting limits are typical and if not (reason is not apparent) are footnoted.	✓
Verify reporting limits for extra compounds.	✓
Check chromatograms to ensure that all peaks are accounted for.	✓
Check if any of the data requires a footnote.	✓
Check that the samples were analyzed / extracted within their holding time.	✓

Non – Conformance / Comments: _____

Peer Review Signature: Ruth Mangrucka Date: 1-10-03

TECHNICAL SUPERVISOR REVIEW:

ITEM	Completed
Check for compliance with the Method and project specific requirements.	✓
Check the report for completeness.	✓
Check the information in the case narrative.	✓
Check the results for reasonableness.	✓

Technical Supervisor Review Signature: Martha O'Leary Date: 1/10/03

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC VOLATILE ORGANICS

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-1
LAB ID: P5650-01
FILENAME: F:\DATA1\U010121.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.9	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	2.0		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-3
LAB ID: P5650-02
FILENAME: F:\DATA1\U010122.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.0	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	13		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-4
LAB ID: P5650-03
FILENAME: F:\DATA1\U010123.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.9	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	2.8		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	8.6		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U = UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

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GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-5
LAB ID: P5650-04
FILENAME: F:\DATA1\U010124.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	4.5	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
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E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

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GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-6
LAB ID: P5650-05
FILENAME: F:\DATA1\U010125.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.3	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	5.9		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7S
LAB ID: P5650-06
FILENAME: F:\DATA1\U010126.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.6	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	3.3		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7I
LAB ID: P5650-07
FILENAME: F:\DATA1\U010127.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	4.6	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U = UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7D
LAB ID: P5650-08
FILENAME: F:\DATA1\U010128.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	U		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U = UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-5DUP
LAB ID: P5650-09
FILENAME: F:\DATA1\U010210.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	U		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U = UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: FIELDBLANK
LAB ID: P5650-12
FILENAME: F:\DATA1\U010205.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	2.0		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: TRIPBLANK
LAB ID: P5650-13
FILENAME: F:\DATA1\U010206.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U		1.0
74-87-3	CHLOROMETHANE	U		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	2.2		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D – DILUTION
E – EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

CHEMTECH

QUALITY CONTROL SUMMARY REPORTS

GC VOLATILE ORGANICS

GC VOLATILES
SURROGATE SUMMARY FORM

PROJECT UTILITY
Matrix WATER
Analyst PHM

LAB SAMPLE ID	LAB FILENAME	DATE ANALYZED	TIME ANALYZED	1,4-DCB % REC		BCB % REC	
VBA0101W2	\U010120.RAW	1/2/03	1:21	102%		74%	
VBA0102W2	\U010204.RAW	1/2/03	15:07	70%		79%	
BSA0102W1	\U010209.RAW	1/2/03	18:54	95%		90%	
P5650-10MS	\U010207.RAW	1/2/03	17:24	87%		77%	
P5650-11MSD	\U010208.RAW	1/2/03	18:09	98%		103%	
P5650-01	\U010121.RAW	1/2/03	2:06	101%		62%	
P5650-02	\U010122.RAW	1/2/03	2:52	92%		58%	
P5650-03	\U010123.RAW	1/2/03	3:37	67%		68%	
P5650-04	\U010124.RAW	1/2/03	4:22	114%		74%	
P5650-05	\U010125.RAW	1/2/03	5:08	111%		84%	
P5650-06	\U010126.RAW	1/2/03	5:53	93%		74%	
P5650-07	\U010127.RAW	1/2/03	6:38	93%		60%	
P5650-08	\U010128.RAW	1/2/03	7:23	97%		76%	
P5650-09	\U010210.RAW	1/2/03	19:40	77%		68%	
P5650-12	\U010205.RAW	1/2/03	15:52	78%		56%	
P5650-13	\U010206.RAW	1/2/03	16:38	130%		92%	

1.4 DCB = 1,4 Dichlorobutane (LIMITS: 40-160)
BCB = Bromochlorobenzene (LIMITS: 40-185)
* Values outside of QC limits

Method 8010

Method Blank

Batch:F:\DATA1\V010102.SEQ
Matrix:Water

Filename: F:\DATA1\U010120.RAW
Date: 1/2/03

CAS #	COMPOUNDS	RESULTS (ug/L)	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U	1.0
74-87-3	CHLOROMETHANE	U	1.0
75-01-4	VINYL CHLORIDE	U	1.0
74-97-5	BROMOMETHANE	U	1.0
75-00-3	CHLOROETHANE	U	1.0
75-69-4	TRICHLOROFLOUROMETHANE	U	1.0
75-35-4	1,1 DICHLOROETHENE	U	1.0
75-09-2	METHYLENE CHLORIDE	5.2	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U	1.0
75-34-3	1,1 DICHLOROETHANE	U	1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHE	U	2.0
67-66-3	CHLOROFORM	U	1.0
74-97-5	BROMOCHLOROMETHANE	U	1.0
71-55-6	1,1,1 TRICHLOROETHANE	U	1.0
563-58-6	1,1 DICHLOROPROPENE	U	1.0
56-23-5	CARBON TETRACHLORIDE	U	1.0
107-06-2	1,2 DICHLOROETHANE	U	1.0
79-01-6	TRICHLOROETHENE	U	1.0
78-87-5	1,2 DICHLOROPROPANE	U	1.0
75-27-4	BROMODICHLOROMETHANE	U	1.0
74-95-3	DIBROMOMETHANE	U	1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U	1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U	1.0
630-20-6	1,1,2-TRICHLOROETHANE	U	1.0
142-28-9	1,3 DICHLOROPROPANE	U	1.0
127-18-4	TETRACHLOROETHENE	U	1.0
75-27-4	DIBROMOCHLOROMETHANE	U	1.0
106-93-4	1,2 DIBROMOETHANE	U	1.0
108-90-7	CHLOROBENZENE	U	1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U	1.0
75-25-2	BROMOFORM	U	1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U	1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U	1.0
108-86-1	BROMOBENZENE	U	1.0
95-49-8	2, CHLOROTOLUENE	U	1.0
106-34-4	4, CHLOROTOLUENE	U	1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U	1.0
87-68-3	HEXACHLOROBUTADIENE	U	1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U	1.0

MDL - Method Detection Limit
U - Undetected below MDL
COMMENTS:

Method 8010

Method Blank

Filename: F:\DATA1\U010204.RAW

Batch:F:\DATA1\V010203.SEQ

Date: 1/2/03

Matrix:Water

CAS #	COMPOUNDS	RESULTS (ug/L)	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U	1.0
74-87-3	CHLOROMETHANE	U	1.0
75-01-4	VINYL CHLORIDE	U	1.0
74-97-5	BROMOMETHANE	U	1.0
75-00-3	CHLOROETHANE	U	1.0
75-69-4	TRICHLOROFLOUROMETHANE	U	1.0
75-35-4	1,1 DICHLOROETHENE	U	1.0
75-09-2	METHYLENE CHLORIDE	U	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U	1.0
75-34-3	1,1 DICHLOROETHANE	U	1.0
	2,2-DCPRPA+CIS-1,2DICHLOROETHE	U	2.0
67-66-3	CHLOROFORM	U	1.0
74-97-5	BROMOCHLOROMETHANE	U	1.0
71-55-6	1,1,1 TRICHLOROETHANE	U	1.0
563-58-6	1,1 DICHLOROPROPENE	U	1.0
56-23-5	CARBON TETRACHLORIDE	U	1.0
107-06-2	1,2 DICHLOROETHANE	U	1.0
79-01-6	TRICHLOROETHENE	U	1.0
78-87-5	1,2 DICHLOROPROPANE	U	1.0
75-27-4	BROMODICHLOROMETHANE	U	1.0
74-95-3	DIBROMOMETHANE	U	1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U	1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U	1.0
630-20-6	1,1,2-TRICHLOROETHANE	U	1.0
142-28-9	1,3 DICHLOROPROPANE	U	1.0
127-18-4	TETRACHLOROETHENE	U	1.0
75-27-4	DIBROMOCHLOROMETHANE	U	1.0
106-93-4	1,2 DIBROMOETHANE	U	1.0
108-90-7	CHLOROBENZENE	U	1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U	1.0
75-25-2	BROMOFORM	U	1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U	1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U	1.0
108-86-1	BROMOBENZENE	U	1.0
95-49-8	2, CHLOROTOLUENE	U	1.0
106-34-4	4, CHLOROTOLUENE	U	1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U	1.0
87-68-3	HEXACHLOROBUTADIENE	U	1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U	1.0

MDL - Method Detection Limit
U - Undetected below MDL
COMMENTS:

QC Spike - 50 ppb std

Batch:QCV220W

Filename:F:\DATA1\U010209.RAW

Date: 1/2/03

CAS #	Analyte	Spike Added PPB	Sample Conc	% Rec	Lower Limits	Upper Limits	Flag
75-71-8	DICHLORODIFLUOROMETHANE	50	44	89	50	150	
74-87-3	CHLOROMETHANE	50	25	51	50	150	
75-01-4	VINYL CHLORIDE	50	51	102	50	150	
74-97-5	BROMOMETHANE	50	54	108	50	150	
75-00-3	CHLOROETHANE	50	45	89	50	150	
75-69-4	TRICHLOROFLOUROMETHANE	50	57	114	50	150	
75-35-4	1,1 DICHLOROETHENE	50	55	111	50	150	
75-09-2	METHYLENE CHLORIDE	50	53	107	50	150	
156-60-5	TRANS-1,2-DICHLOROETHENE	50	55	111	50	150	
75-34-3	1,1 DICHLOROETHANE	50	44	88	50	150	
	2,2-DCPRPA+CIS-1,2DICHLOROE	100	92	92	50	150	
67-66-3	CHLOROFORM	50	45	90	50	150	
74-97-5	BROMOCHLOROMETHANE	50	50	101	50	150	
71-55-6	1,1,1 TRICHLOROETHANE	50	47	94	50	150	
563-58-6	1,1 DICHLOROPROPENE	50	49	98	50	150	
56-23-5	CARBON TETRACHLORIDE	50	49	98	50	150	
107-06-2	1,2 DICHLOROETHANE	50	47	93	50	150	
79-01-6	TRICHLOROETHENE	50	45	90	50	150	
78-87-5	1,2 DICHLOROPROPANE	50	44	88	50	150	
75-27-4	BROMODICHLOROMETHANE	50	46	93	50	150	
74-95-3	DIBROMOMETHANE	50	48	95	50	150	
10061-02-6	CIS 1,3 DICHLOROPROPENE	50	50	99	50	150	
10061-02-6	TRANS 1,3 DICHLOROPROPENE	50	54	107	50	150	
630-20-6	1,1,2-TRICHLOROETHANE	50	52	104	50	150	
142-28-9	1,3 DICHLOROPROPANE	50	46	93	50	150	
127-18-4	TETRACHLOROETHENE	50	49	98	50	150	
75-27-4	DIBROMOCHLOROMETHANE	50	58	117	50	150	
106-93-4	1,2 DIBROMOETHANE	50	53	107	50	150	
108-90-7	CHLOROBENZENE	50	56	112	50	150	
630-20-6	1,1,1,2 TETRACHLOROETHANE	50	55	110	50	150	
75-25-2	BROMOFORM	50	46	92	50	150	
79-34-5	1,1,2,2 TETRACHLOROETHANE	50	45	91	50	150	
96-18-4	1,2,3 TRICHLOROPROPANE	50	44	87	50	150	
108-86-1	BROMOBENZENE	50	43	86	50	150	
95-49-8	2, CHLOROTOLUENE	50	50	100	50	150	
106-34-4	4, CHLOROTOLUENE	50	43	86	50	150	
96-12-8	1,2-DIBROMO-3-CHLOROPROPAN	50	49	98	50	150	
87-68-3	HEXACHLOROBUTADIENE	50	48	96	50	150	
87-61-6	1,2,3 TRICHLOROBENZENE	50	56	113	50	150	

QC MS/MSD 50PPB Spike

Sample spiked: P5650-07
Date: 1/2/03

Filename MS:U010207
Filename MSD:U010208
Sample ID:U010127

Batch:QCV220W
Matrix:WATER

CAS #	Analyte	Spike Added	Sample Conc	MS Conc PPB	% Rec	Flag	MSD Conc PPB	% Rec	MSD Flag	RPD	RPD Flag	Lower Limits	Upper Limits	RPD Limits
75-71-8	DICHLORODIFLUOROMETHANE	50	0	33	66		43	87		26	*	50	150	<20%
74-87-3	CHLOROMETHANE	50	0	21	42	*	24	47	*	12		50	150	<20%
75-01-4	VINYL CHLORIDE	50	0	48	96		57	115		18		50	150	<20%
74-97-5	BROMOMETHANE	50	0	50	101		66	131		26	*	50	150	<20%
75-00-3	CHLOROETHANE	50	0	43	85		48	96		12		50	150	<20%
75-69-4	TRICHLOROFLOUROMETHANE	50	0	50	100		63	126		23	*	50	150	<20%
75-35-4	1,1 DICHLOROETHENE	50	0	47	94		55	110		17		50	150	<20%
75-09-2	METHYLENE CHLORIDE	50	5	44	79		52	96		19		50	150	<20%
156-60-5	TRANS-1,2-DICHLOROETHENE	50	0	40	80		61	121		41	*	50	150	<20%
75-34-3	1,1 DICHLOROETHANE	50	0	40	80		57	115		35	*	50	150	<20%
	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	100	0	81	81		99	99		20		50	150	<20%
67-66-3	CHLOROFORM	50	0	41	82		49	98		17		50	150	<20%
74-97-5	BROMOCHLOROMETHANE	50	0	50	100		50	101		1		50	150	<20%
71-55-6	1,1,1 TRICHLOROETHANE	50	0	45	89		48	97		8		50	150	<20%
563-58-6	1,1 DICHLOROPROPENE	50	0	42	85		49	97		14		50	150	<20%
56-23-5	CARBON TETRACHLORIDE	50	0	46	91		50	100		9		50	150	<20%
107-06-2	1,2 DICHLOROETHANE	50	0	55	110		37	74		39	*	50	150	<20%
79-01-6	TRICHLOROETHENE	50	0	39	78		50	99		24	*	50	150	<20%
78-87-5	1,2 DICHLOROPROPANE	50	0	39	78		46	91		15		50	150	<20%
75-27-4	BROMODICHLOROMETHANE	50	0	47	94		59	118		22	*	50	150	<20%
74-95-3	DIBROMOMETHANE	50	0	30	60		37	74		21	*	50	150	<20%
10061-02-6	CIS 1,3 DICHLOROPROPENE	50	0	41	82		51	102		21	*	50	150	<20%
10061-02-6	TRANS 1,3 DICHLOROPROPENE	50	0	41	83		57	115		32	*	50	150	<20%
630-20-6	1,1,2-TRICHLOROETHANE	50	0	40	80		60	120		40	*	50	150	<20%
142-28-9	1,3 DICHLOROPROPANE	50	0	38	75		55	110		38	*	50	150	<20%
127-18-4	TETRACHLOROETHENE	50	0	37	74		55	111		40	*	50	150	<20%
75-27-4	DIBROMOCHLOROMETHANE	50	0	42	84		75	149		56	*	50	150	<20%
106-93-4	1,2 DIBROMOETHANE	50	0	46	92		70	141		41	*	50	150	<20%
108-90-7	CHLOROBENZENE	50	0	46	92		61	121		27	*	50	150	<20%
630-20-6	1,1,1,2 TETRACHLOROETHANE	50	0	37	73		50	100		31	*	50	150	<20%
75-25-2	BROMOFORM	50	0	47	94		58	115		20	*	50	150	<20%
79-34-5	1,1,2,2 TETRACHLOROETHANE	50	0	37	74		51	101		31	*	50	150	<20%
96-18-4	1,2,3 TRICHLOROPROPANE	50	0	34	67		47	95		34	*	50	150	<20%
108-86-1	BROMOBENZENE	50	0	31	62		45	90		37	*	50	150	<20%
95-49-8	2, CHLOROTOLUENE	50	0	36	71		50	100		33	*	50	150	<20%
106-34-4	4, CHLOROTOLUENE	50	0	31	62		40	80		25	*	50	150	<20%
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	50	0	35	69		50	99		35	*	50	150	<20%
87-68-3	HEXACHLOROBUTADIENE	50	0	29	58		36	72		21	*	50	150	<20%
87-61-6	1,2,3 TRICHLOROBENZENE	50	0	31	62		41	81		27	*	50	150	<20%

* Denotes compound outside control criteria

CHEMTECH

284 Sheffield ST. Mountainside, NJ 07092
Tel: 908-789-8900

END OF ANALYTICAL RESULTS

APPENDIX B

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.226000.00 12/26/02

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock PO#:

SOURCE OF SAMPLE: Utility Manfacturing, Utility 4th Qtr O+M
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/19/02 RECEIVED:12/19/02
TIME COL'D:1300
MATRIX:Air SAMPLE: Utility 12/19/02

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Chloromethane	ug/m3	< 50		12/20/02	50	EPA8260
Bromomethane	ug/m3	< 50		12/20/02	50	EPA8260
Dichlordifluomethane	ug/m3	< 50		12/20/02	50	EPA8260
Vinyl Chloride	ug/m3	< 50		12/20/02	50	EPA8260
Chloroethane	ug/m3	< 50		12/20/02	50	EPA8260
Methylene Chloride	ug/m3	< 50		12/20/02	50	EPA8260
Trichlorofluomethane	ug/m3	< 50		12/20/02	50	EPA8260
1,1 Dichloroethene	ug/m3	< 50		12/20/02	50	EPA8260
1 1 Dichloroethane	ug/m3	< 50		12/20/02	50	EPA8260
1 2 Dichloroethene	ug/m3	190		12/20/02	100	EPA8260
Chloroform	ug/m3	< 50		12/20/02	50	EPA8260
1,2 Dichloroethane	ug/m3	< 50		12/20/02	50	EPA8260
1 1 Trichloroethane	ug/m3	710		12/20/02	50	EPA8260
Carbon Tetrachloride	ug/m3	< 50		12/20/02	50	EPA8260
Bromodichloromethane	ug/m3	< 50		12/20/02	50	EPA8260
1 2 Dichloropropane	ug/m3	< 50		12/20/02	50	EPA8260
t-1,3Dichloropropene	ug/m3	< 50		12/20/02	50	EPA8260
Trichloroethylene	ug/m3	< 50		12/20/02	50	EPA8260
Chlorodibromomethane	ug/m3	< 50		12/20/02	50	EPA8260
1 2 Trichloroethane	ug/m3	< 50		12/20/02	50	EPA8260
c-1,3Dichloropropene	ug/m3	< 50		12/20/02	50	EPA8260
2chloroethvinylether	ug/m3	< 50		12/20/02	50	EPA8260
Bromoform	ug/m3	< 50		12/20/02	50	EPA8260
1,22Tetrachloroethane	ug/m3	< 50		12/20/02	50	EPA8260
Tetrachloroethene	ug/m3	< 50		12/20/02	50	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS: Volume sampled: 4 Liters.

DIRECTOR

rn = 45613 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.226000.00 12/26/02

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock PO#:

SOURCE OF SAMPLE: Utility Manfacturing, Utility 4th Qtr O+M
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/19/02 RECEIVED:12/19/02
TIME COL'D:1300
MATRIX:Air SAMPLE: Utility 12/19/02

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Chlorobenzene	ug/m3	< 50		12/20/02	50	EPA8260
1.3 Dichlorobenzene (v)	ug/m3	< 50		12/20/02	50	EPA8260
1 2 Dichlorobenzene (v)	ug/m3	< 50		12/20/02	50	EPA8260
1,4 Dichlorobenzene (v)	ug/m3	< 50		12/20/02	50	EPA8260

cc:

LRL=Laboratory Reporting Limit

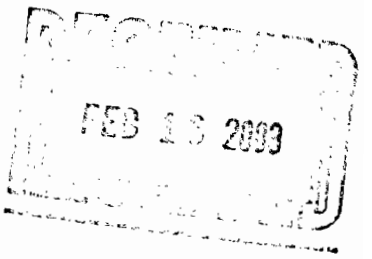
REMARKS: Volume sampled: 4 Liters.
NIOSH Sorbent tube collection.

DIRECTOR

rn = 45614 NYSDOH ID # 10320

APPENDIX C

Premier Environmental Services.



DATA USABILTY SUMMARY REPORT (DUSR) OF THE UTILITY MANUFACTURING SITE

ORGANIC ANALYSES IN AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP
MOUNTAINSIDE, NJ

REPORT NUMBER: P5650

February, 2003

Prepared for
C.A. Rich Consultants, Inc.
Plainview, New York

Prepared by
Premier Environmental Services
2815 Covered Bridge Road
Merrick, New York 11566
(516)223-9761

NYS DEC Data Usability Summary Report

DATA VALIDATION FOR:	**Volatile Organic Analyses**
SITE:	**Utility Manufacturing**
CONTRACT LAB:	**Chemtech Consulting Group Mountainside, New Jersey**
REVIEWER:	**Renee Cohen**
DATE REVIEW COMPLETED:	**February, 2003**
MATRIX:	**Aqueous**

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment is for nine (9) aqueous samples, one (1) Field Blank and one (1) Trip Blank sample. The samples were collected on December 19, 2002 and shipped to Chemtech located in Mountainside, New Jersey. The samples were received via overnight service at the laboratory on December 23, 2002. The cooler temperature was within QC limits upon receipt. The samples were analyzed for Volatile Organic Analytes (EPA Method 8021), as specified on the Chain of Custody (COC) documentation.

A cross-reference between Field Sample ID and Laboratory Sample ID is located in Table 1 of this report. A copy of definitions that may be used to qualify data results are located in Appendix A of this report. Copies of qualified data result pages are located in Appendix B of this report and a copy of Chain of Custody (COC) documentation associated with sampling event is located in Appendix C.

ORGANIC DATA ASSESSMENT

1. OVERVIEW:

The nine (9) aqueous, one (1) Field Blank and one (1) Trip Blank sample were analyzed as per the Chain of Custody (COC) documentation. The samples were analyzed using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8021. As per the change order in the data report, the Method 8010 analyte list was to be reported. Proper custody transfer of the samples was documented in the laboratory reports. Cooler temperature was within QC limits. Sample preservation was checked prior to analysis. All samples in this data set were properly preserved.

2. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous samples is 14 days from collection.

The preserved groundwater samples associated with this data set were analyzed within ten (10) days of VTSR.

3. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.

Each sample was spiked with the surrogate compounds 1,4-Dichlorobutane and Bromochlorobenzene. In house-surrogate recovery limits were utilized by the laboratory. The percent recovery of each surrogate met QC criteria in all field and QC samples associated with each data set.

4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

The laboratory performed aqueous MS/MSD analysis on sample MW-7I. The MS/MSD were spiked with each of the Volatile Organic Compounds reported. The recovery of all analytes met in house QC criteria with the exception of Chloromethane (42%/47%). A number of RPD's did not meet QC criteria. All of the spike recoveries of these analytes met QC criteria.

Data qualification was not made based on the data associated with the MS/MSD sample analysis.

ORGANIC DATA ASSESSMENT

5. BLANK SPIKE ANALYSIS:

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

The laboratory performed one blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the blank spike sample met QC criteria.

6. BLANK CONTAMINATION:

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

A) Method Blank contamination

Two (2) method blank analyses are associated with this data set. The method blank (V010102) was free from contamination of all analytes with the exception of Methylene Chloride (5.2 ug/L). The Methylene Chloride in samples associated with method blank V010102 has been negated in associated field samples. The method blank (V010203) was free from contamination. Methylene Choride is a common laboratory contaminant. The concentrations reported in the field samples were within acceptable limits.

Qualified data result pages are located in Appendix B of this report.

B) Field Blank contamination

The Field Blank sample contained Methylene Chloride at a concentration of 2.0 ug/l. The Methylene Chloride in the field samples associated with this data set has been negated. Qualified data result pages are located in Appendix B of this report.

C) Trip Blank contamination

The Trip Blank sample contained Methylene Chloride at a concentration of 2.2 ug/L. The Methylene Chloride in field samples associated with this data set has been negated. Qualified data result pages are located in Appendix B of this report.

ORGANIC DATA ASSESSMENT

7. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

One calibration curve is associated with these sample analyses. The laboratory performed an initial six (6) point multi level calibration using the standards 5 ppb through 75 ppb on January 1, 2002. The %RSD of all compounds met QC criteria with the exception of Dichlorodifluoromethane (30%), Chloromethane (56%), Bromomethane (27%), 1,3-Dichloropropane (21%), 1,2-Dibromomethane (27%) and Bromoform (27%). The correlation coefficient of each of these analytes met QC criteria. Two (2) continuing calibration standards are associated with the samples in this data set. The continuing calibrations standard analyzed 1/2/03 (U010202) met QC criteria for all analytes with the exception of Dichlorodifluoromethane (21%), Chloromethane (25%) and 1,1,2,2-Tetrachloroethane (29%). The continuing calibrations standard analyzed 1/2/03 (U010211) met QC criteria for all analytes with the exception of Dichlorodifluoromethane (28%), Chloromethane (26%), Bromomethane (30%), Bromoform (29%) and 1,1,2,2-Tetrachloroethane (18%).

Due to the %D outlier (>15%), data qualifiers have been added to the associated field samples. These analytes were not detected, therefore, the qualifier "UJ" estimated was added. Qualified data result pages are located in Appendix B of this report.

8. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC by using the analyte's relative retention time (RRT) for qualitative identification. Quantitative concentrations are determined with the use of external standard technique from the initial multilevel calibration curve. Samples associated with this data set were reported from the Hall detector. Compounds were reported from the primary detector that were above the laboratory method detection limit.

The samples in this data set were analyzed without dilution. All samples were reported in accordance with the cited method. The laboratory reported all positive results above the method detection limits. The correct quantitation and identification criteria were used for all reported analytes.

ORGANIC DATA ASSESSMENT

9. FIELD DUPLICATE ANALYSIS:

Field duplicate sample analysis was performed on sample MW-5 in this data set. A review of the duplicate sample data is presented below.

Sample ID: MW-5 (P5650-4)/MW-5DUP (P5650-9)

Analyte	Result ug/L	Result ug/L	Relative Percent Difference (RPD)
Methylene Chloride	4.5 B	ND	NC

ND denotes not detected
NC denotes not calculated

Target analytes with the exception of Methylene Chloride are not detected. The Methylene Chloride detected in this sample is most likely attributed to laboratory contamination.

10. OVERALL ASSESSMENT:

Analytical QC criteria was met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Methylene Chloride was detected in a number of the Field samples and QC samples associated with this data set. Methylene Chloride is a common laboratory contaminant. The concentration of Methylene Chloride reported in each of the samples was within the QC criteria allowed by the validation guidelines. The data provided for this data set is acceptable for use, with the noted data qualifiers.

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TABLE 1

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Premier Environmental Services.

CLIENT SAMPLE ID	LABORATORY SAMPLE ID
MW-1	P5640-1
MW-3	P5640-2
MW-4	P5640-3
MW-5	P5640-4
MW-6	P5640-5
MW-7S	P5650-6
MW-7I	P5650-7
MW-7D	P5650-8
MW-5DUP	P5650-9
MW-7IMS	P5650-10
MW-7IMSD	P5650-11
FIELD BLANK	P5650-12
TRIP BLANK	P5650-13

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APPENDIX A

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DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identiifed" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K – The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL – The analyte was not detected, and the reported quantitation limit is probably higher than reported.

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APPENDIX B

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GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-1
LAB ID: P5650-01
FILENAME: F:\DATA1\U010121.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.9 U	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	2.0		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

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GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-3
LAB ID: P5650-02
FILENAME: F:\DATA1\U010122.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.0 ~~3.0~~ U	~~B~~ U	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	13		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
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E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

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Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-4
LAB ID: P5650-03
FILENAME: F:\DATA1\U010123.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.9 U	~~B~~	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	2.8		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	8.6		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

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B = PRESENT IN THE ASSOCIATED BLANK

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Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-5
LAB ID: P5650-04
FILENAME: F:\DATA1\U010124.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	4.5 U	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

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B = PRESENT IN THE ASSOCIATED BLANK

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DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-6
LAB ID: P5650-05
FILENAME: F:\DATA1\U010125.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.3 U	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	5.9		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7S
LAB ID: P5650-06
FILENAME: F:\DATA1\U010126.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	3.6 U	B	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	3.3		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7I
LAB ID: P5650-07
FILENAME: F:\DATA1\U010127.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	4.6 U	~~B~~	1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-7D
LAB ID: P5650-08
FILENAME: F:\DATA1\U010128.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	U		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
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E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: MW-5DUP
LAB ID: P5650-09
FILENAME: F:\DATA1\U010210.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	U		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

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U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: FIELDBLANK
LAB ID: P5650-12
FILENAME: F:\DATA1\U010205.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	2.0 U		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
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B = PRESENT IN THE ASSOCIATED BLANK

Chemtech

GC Volatiles
DETECTOR: HALL

Tabulated Analytical Report
Method 8010

CLIENT: RICH CONSULTANTS
PROJECT: UTILITY
SAMPLE ID: TRIPBLANK
LAB ID: P5650-13
FILENAME: F:\DATA1\U010206.RAW
BATCH: LB22149

MATRIX: AQUEOUS
DATE ANALYZED: 1/2/03
ANALYST: PHM
DILUTION: 1
PROJECT#: P5650

CAS #	COMPOUNDS	RESULTS (ug/L)	QUALIFIERS	MDL (ug/L)
75-71-8	DICHLORODIFLUOROMETHANE	U UJ		1.0
74-87-3	CHLOROMETHANE	U UJ		1.0
75-01-4	VINYL CHLORIDE	U		1.0
74-97-5	BROMOMETHANE	U UJ		1.0
75-00-3	CHLOROETHANE	U		1.0
75-69-4	TRICHLOROFLOUROMETHANE	U		1.0
75-35-4	1,1 DICHLOROETHENE	U		1.0
75-09-2	METHYLENE CHLORIDE	2.2		1.0
156-60-5	TRANS-1,2-DICHLOROETHENE	U		1.0
75-34-3	1,1 DICHLOROETHANE	U		1.0
594-20-7/156-59-2	2,2-DCPRPA+CIS-1,2DICHLOROETHENE	U		2.0
67-66-3	CHLOROFORM	U		1.0
74-97-5	BROMOCHLOROMETHANE	U		1.0
71-55-6	1,1,1 TRICHLOROETHANE	U		1.0
563-58-6	1,1 DICHLOROPROPENE	U		1.0
56-23-5	CARBON TETRACHLORIDE	U		1.0
107-06-2	1,2 DICHLOROETHANE	U		1.0
79-01-6	TRICHLOROETHENE	U		1.0
78-87-5	1,2 DICHLOROPROPANE	U		1.0
75-27-4	BROMODICHLOROMETHANE	U		1.0
74-95-3	DIBROMOMETHANE	U		1.0
10061-02-6	CIS 1,3 DICHLOROPROPENE	U		1.0
10061-02-6	TRANS 1,3 DICHLOROPROPENE	U		1.0
630-20-6	1,1,2-TRICHLOROETHANE	U		1.0
142-28-9	1,3 DICHLOROPROPANE	U UJ		1.0
127-18-4	TETRACHLOROETHENE	U		1.0
75-27-4	DIBROMOCHLOROMETHANE	U		1.0
106-93-4	1,2 DIBROMOETHANE	U UJ		1.0
108-90-7	CHLOROBENZENE	U		1.0
630-20-6	1,1,1,2 TETRACHLOROETHANE	U		1.0
75-25-2	BROMOFORM	U UJ		1.0
79-34-5	1,1,2,2 TETRACHLOROETHANE	U UJ		1.0
96-18-4	1,2,3 TRICHLOROPROPANE	U		1.0
108-86-1	BROMOBENZENE	U		1.0
95-49-8	2, CHLOROTOLUENE	U		1.0
106-34-4	4, CHLOROTOLUENE	U		1.0
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	U		1.0
87-68-3	HEXACHLOROBUTADIENE	U		1.0
87-61-6	1,2,3 TRICHLOROBENZENE	U		1.0

MDL = METHOD DETECTION LIMIT
U =UNDETECTED BELOW MDL
D = DILUTION
E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW
B = PRESENT IN THE ASSOCIATED BLANK

Premier Environmental Services.

APPENDIX C

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
(516) 223-9761 • FAX (516) 223-0983

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

MTE B NO. P5650
CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CA RICH CONSULTANTS, INC
ADDRESS: 17 DUPONT STREET
CITY: PLAINVIEW STATE: NY ZIP: 11803
ATTENTION: MICHAEL YAESER
PHONE: 516-576-8844 FAX: 516-576-0093

PROJECT INFORMATION

PROJECT NAME: UTILITY MANUFACTURING
PROJECT NO.: UTILITY 4 LOCATION: DIX HILLS
PROJECT MANAGER: ERIC WEINSTOCK
E-MAIL:
PHONE: 516-576-8844 FAX: 516-576-0093

BILLING INFORMATION

BILL TO: CA RICH CONSULTANTS
ADDRESS: 17 DUPONT STREET
CITY: PLAINVIEW STATE: NY ZIP: 11803
ATTENTION: MIKE YAESER PHONE: 516-576-8844

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☒ NYS ASP "B"
☐ NJ REDUCED ☐ NYS ASP "A"
☐ NJ CLP ☐ EDD
☐ EDD FORMAT: _____

ANALYSIS

EPA 8021 HALOS VOC ONLY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3	4	5	6	7	8	9	COMMENTS
1. 1	MW-1	WATER		✓	12/19/02	1055	2	2									
2. 2	MW-3					1115	2	2									
3. 3	MW-4					1125	1	1									
4. 4	MW-5					1315	2	2									
5. 5	MW-6					1310	2	2									
6. 6	MW-7S					1355	2	2									
7. 7	MW-7I					1425	2	2									
8. 8	MW-7D					1520	2	2									

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. C. Bowe	12/19/02	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	12/23/02 10:00	3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☑ Temp. of Cooler 4.6
MeOH extractions requires an additional 4oz. jar for percent solid.
Comments:

Page 1 of 2

Shipped Via: Client ☐ Hand Delivered ☑ Overnight
Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☑ Yes ☐ No

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: P5650
CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CA RICH CONSULTANTS
ADDRESS: 17 DUPONT STREET
CITY: PLAINVIEW STATE: NY ZIP: 11803
ATTENTION: MICHAEL YAUSER
PHONE: 516.576.8844 FAX: 516.576.0023

PROJECT INFORMATION

PROJECT NAME: UTILITY MANUFACTURING
PROJECT NO.: UTILITY LOCATION O+M
PROJECT MANAGER: ERIC WEINSTOCK
E-MAIL:
PHONE: 516.576.8844 FAX: 516.576.0023

BILLING INFORMATION

BILL TO: CA RICH CONSULTANTS PO#:
ADDRESS: 17 DUPONT STREET
CITY: PLAINVIEW STATE: NY ZIP: 11803
ATTENTION: MIKE YAUSER PHONE: 516.576.8844

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☒ NYS ASP "B"
☐ NJ REDUCED ☐ NYS ASP "A"
☐ NJ CLP ☐ EDD
☐ EDD FORMAT: _____

ANALYSIS

EPA 8021 HALOGENS VOC ONLY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1. 9	MW-5 (DUP)	WATER		✓	12/19/02	1315	2	2										
2. 10	MW-7I (MS)					1425												
3. 11	MW-7I (MSD)					1425												
4. 12	FIELD BLANK					1350												
5. 13	TRIP BLANK	↓		↓	↓	—	↓	↓										
6.																		
7.																		
8.																		

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. C. ROWE	12/19/02	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME: 1000	RECEIVED FOR LAB BY:
3. VPS	12/23/02	3. Sunnyflatly

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☑ Temp. of Cooler 4°C
MeOH extractions requires an additional 4oz. jar for percent solid.
Comments:

Page 2 of 2

Shipped Via: Client ☐ Hand Delivered ☑ Overnight
Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☑ Yes ☐ No

Ver. 9/2002

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

31679

Record Of Communication
Login Change Form

Internal Communication

Order Number: P5650	**Today's Date:** **01/10/03**
Client: CA Rich	**Sample Date:** **12/19/02**
Client Contact: **Mike Yager**	**Form Initiated by:** ~~Kurt Hummler~~ DAVELLE JOHNSON
	Project Manager Kurt Hummler
General Comments/Special Instructions: **Report 8010 List**	

Call initiated by: ☐ Client ☐ Chemtech

Login Changes

Sample Number	Add Test	Delete Test	Change TAT

Signature Davelle Johnson **Date** 1.10.03