PRESCOTT
ENVIRONMENTAL

May 30, 2003

Mr. Qu Qi
NC-DENR, Groundwater Section
Asheville Regional Office
59 Woodfin Place
Asheville, North Carolina 28801-2414

RE: Semi-Annual Groundwater Monitoring Report
Former Parkway Chevrolet, 205 Smoky Mountain Parkway
Asheville, Buncombe County, North Carolina
Groundwater Incident #18332
PEAI Project No. 98-007

Dear Mr. Qi:

Enclosed is a copy of the most recent referenced Groundwater Monitoring Report for the above-referenced project.

If you have any questions, feel free to contact me at (919) 942-8006.

Sincerely,

PRESCOTT ENVIRONMENTAL ASSOCIATES, INC.

Eric W. Kulz
Senior Environmental Scientist/Project Manager

Enclosure

RECEIVED
JUN - 3 2003
GROUNDWATER SECTION
ASHEVILLE REGIONAL OFFICE

POST OFFICE BOX 2555, CHAPEL HILL, NORTH CAROLINA 27515 ☎ (919) 942-8006 ☐ (919) 962-2964 info@prescotteny.com

PRESCOTT
ENVIRONMENTAL

May 30, 2003

RECEIVED
JUN - 3 2003
GROUNDWATER SECTION
ASHEVILLE REGIONAL OFFICE

Mr. Jan Chenowith
Young Realty Company, L.P.
7399 Shadeland Avenue, PMB #166
Indianapolis, Indiana 46250

RE: Semi-Annual Groundwater Monitoring
Parkway Chevrolet, 205 Smoky Mountain Parkway
Asheville, Buncombe County, North Carolina
Groundwater Incident #18332
PEAI Project No. 98-007

Dear Mr. Chenowith:

Prescott Environmental Associates, Inc. (PEAI) has completed this Semi-Annual Groundwater Monitoring Report for the Parkway Chevrolet Property (the Site) in accordance with the Work Plan submitted to the North Carolina Department of Environment and Natural Resources, Groundwater Section, Asheville Regional Office. The field activities were completed on Wednesday, October 16, 2002. These environmental services were authorized by Mr. Jan Chenowith, Young Realty Company, LP, representing the former owner/operator of the dealership at the Site. The purpose of this project was to determine the extent of volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) in groundwater.

Figure 1 shows the physical location of the Site, and Figure 2 is a Site Plan which shows the groundwater monitoring well locations. Table 1 presents the laboratory analytical results.

The areas where groundwater monitoring wells are located include the following:

- Eastern Side of Main Service Area - one shallow well to 30 feet (MW-1);
- South Side of Auto Detailing Shop Building - one shallow well to 40 feet (MW-2A); and,
- West Side of Parts Dept. Building - one shallow well to 25 feet (MW-3).

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Groundwater Sampling

The wells were properly purged and developed prior to sampling. The samples were collected using a disposable polyethylene bailer and new nylon line. Groundwater samples were tranferred from the bailer to clean, labeled sample bottles which were immediately placed in a cooler with ice. The samples were transported via overnight service (Federal Express) to Compuchem, Inc. in Cary, North Carolina under chain-of-custody documentation.

Volatile organic compound analysis detected the presence of tetrachloroethene in MW-1 at 0.7 micrograms per liter (µg/l) and in MW-3 at 1.6 µg/l (15A NCAC 2L.0202 Groundwater Standard is 0.7 µg/l). No other volatile organic compounds were detected. Semivolatile organic compound analysis did not detect the presence of listed constituents above the method quantitation limit. Tentatively identified compounds (TICs) were detected in all three samples at low concentrations, and were reported as "J" values in the analytical report.

Groundwater Gradient

The groundwater horizontal hydraulic gradient at the Site was determined by surveying the location and elevation of the groundwater monitoring wells to a common benchmark. The survey is accurate to the nearest 0.1 foot horizontally and nearest 0.01 foot vertically. PEAI personnel measured the distance from the static groundwater level to the top of the well casings to an accuracy of 0.01-foot. Using this water level information, PEAI previously compiled a hydraulic gradient map which can be found in a Comprehensive Site Assessment report issued August 5, 1998 (Figure 6). PEAI also calculated the horizontal groundwater gradient across the site to be 0.08 ft/ft for the 8/5/98 event. Based on data collected during previous measuring events, it was concluded that the groundwater gradient trends mainly in a southern direction, toward Smoky Park Highway.

Local Receptors

A receptor survey was previously completed by PEAI to determine if water supply wells are located in the immediate vicinity of the Site. The closest receptor water supply is the water supply well at the Monticello Mobile Home Park, located approximately 750 feet northeast of the subject property. This well is reported to serve approximately 50 mobile homes. Again, the local groundwater flow direction is toward the south, away from this property. The subject Site is also topographically down gradient from the mobile home park. Most properties in the vicinity of the Site are served by the Asheville municipal water supply.

Conclusion and Recommendations

The primary objective of this project was to complete semi-annual groundwater monitoring for evidence of contamination from volatile and semi-volatile organic compounds. The Work Plan for this project was approved prior to the initiation of site activities by the Groundwater Section of the North Carolina Department of Environment and Natural Resources (NC DENR).

This project included the collection of samples from three (3) groundwater monitoring wells on the Site. Tetrachloroethene was detected in MW-1 at 0.7 µg/l and in MW-3 at 1.6 µg/l; the state groundwater standard for tetrachloroethene is 0.7 µg/l. No other volatile organic compounds were detected.

Semivolatile organic compound analysis did not detect the presence of listed constituents above the method quantitation limit. Tentatively identified compounds (TICs) were detected in all three samples at low concentrations, and were reported as "J" values in the analytical report.

The source of the tetrachloroethene is not known at this time. It has been detected during other recent sampling events. Additional sampling and analysis events should be completed to verify the existence of this compound and to provide continuing groundwater monitoring at the Site.

PEAI appreciates the opportunity to be of service to Young Realty Company, LP/Parkway Chevrolet. A copy of this document will be submitted to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, Groundwater Section, Asheville Regional Office. Should you have any questions or comments regarding the contents of this report, please feel free to contact PEAI at your earliest opportunity.

Respectfully,

PRESCOTT ENVIRONMENTAL ASSOCIATES, INC.

Eric W. Kulz
Senior Environmental Scientist/Project Manager

Thomas R. Will, LG # 1164
Consulting Licensed Geologist

NORTH CAROLINA LICENSED SEAL 1164 GEOLOGIST THOMAS ROBERT WILL

Attachments

ATTACHMENTS

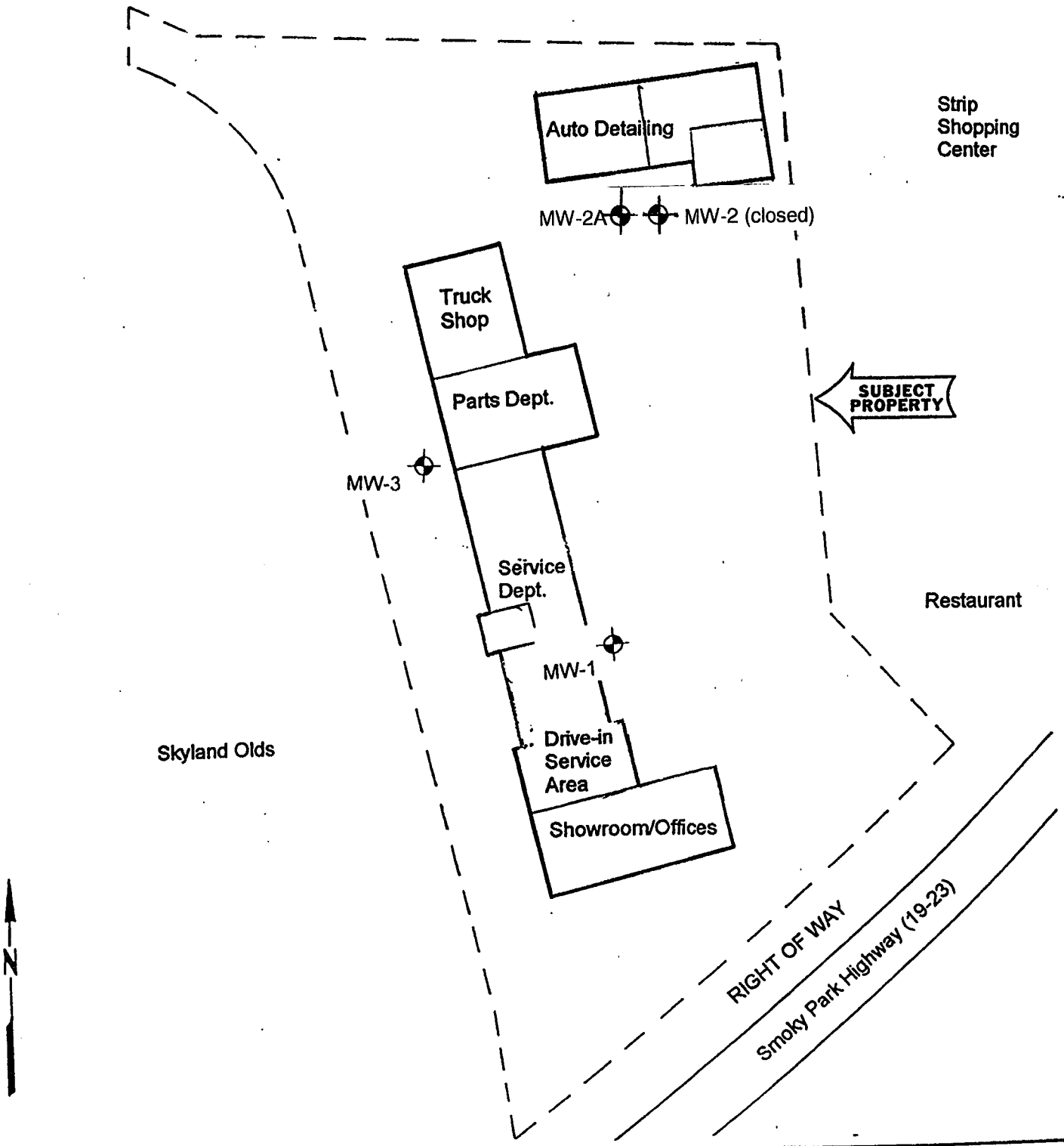
ATTACHMENT A

FIGURES

PRESCOTT ENVIRONMENTAL ASSOCIATES, INC.
POST OFFICE BOX 2555
CHAPEL HILL, NORTH CAROLINA 27515-2555
(919) 942-8006 PHONE (919) 967-4953 FACSIMILE

Project:	Job No:	Figure No: 1
Groundwater Monitoring Event Parkway Chevrolet 205 Smoky Park Highway	98-007	Site Map
	Drawn By: CRG	Date: 3/23/98
Asheville, NC	Checked By: DPG	Scale: 1"=2000'

Carolina Truck & Body



PRESCOTT ENVIRONMENTAL ASSOCIATES, INC.
POST OFFICE BOX 2555
CHAPEL HILL, NORTH CAROLINA 27515-2555
(919) 942-8006 PHONE (919) 967-4953 FACSIMILE

Project: Groundwater Monitoring Event Quarterly Groundwater Monitoring	Job No: 98-007	Figure No: 2 Site Base Map/Layout
	Drawn By: CRG	Date: 3/8/98
	Checked By: DPG	Scale: 1" = 128'

ATTACHMENT B

TABLES

TABLE 1

Semi-Annual
Groundwater Monitoring
Laboratory Analytical Results

Former Parkway Chevrolet Facility
205 Smoky Park Highway
Asheville, Buncombe County, NC

Sample I.D.	Date/Time	Monitoring Well	Lab Results
W-1A	05/08/03 - 3:10	MW-1	502.2 - **Tetrachloroethene - 0.7 ug/L** 625+10 - BQL[1,2]
W-2A	05/08/03 - 3:16	MW-2A	502.2 - BQL 625 + 10 - BQL[1,2]
W-3	05/08/03 - 3:35	MW-3	502.2 - **Tetrachloroethene - 1.6 ug/L** 625 + 10 - BQL[1,2]

[1]BQL - Below Quantitation Limit (625 Listed Compounds)
[2]Note - very low concentrations of tentatively identified compounds (TICs) were detected in all three groundwater samples (TICs).
Bold indicates constituents detected above 15A NCAC 2L .0202 Groundwater Standard.

ATTACHMENT C

LABORATORY ANALYTICAL REPORT

COMPUCHEM
a division of Liberty Analytical Corp.

May 22, 2003

DOUG GUILD
PRESCOTT ENV.
308 W. Rosemary Street
STE 306
CHAPEL HILL, NC 27516

Subject:
Report of Data – Project: PARKWAY 98-007 Quote #: Q2558 SDG #: V2558

Attn.: DOUG GUILD

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

SAMPLENUM	CLIENTID	QUOTENUMREF	LOGINNUM	MATNUM	ACCTNUM	PROJECTNUM	RECEIVEDATE
V2558-1	W-1A	Q2558	V2558	WA	PRESCOTT ENV.	PARKWAY 98-007	5/9/03
V2558-2	W-2A	Q2558	V2558	WA	PRESCOTT ENV.	PARKWAY 98-007	5/9/03
V2558-3	W-3A	Q2558	V2558	WA	PRESCOTT ENV.	PARKWAY 98-007	5/9/03

COMPUCHEM
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513
1-800-833-5097

CHAIN-OF-CUSTODY RECORD

No. 066068

Project Name: PARKWAY CHEVROLET
Carrier: FEDEX
Airbill No. 9397 1648 3900
Sampler Name: DPG / FWK

Client Address: PRESCOTT ENV.
308 W. ROSEMARY ST. STE 304
CHAPEL HILL, NC 27516
Sampler Signature: [signature]

Point-of-Contact: DOUG GUILD
Telephone No.: (919) 942-8006
Sampling complete? Y or N (see Note 1)
Project-specific (PS) or Batch (B) QC? B

BOX #1: 1. Surface Water; 2. Ground Water; 3. Leachate; 4. Rinsate; 5. Soil / Sediment / Sludge; 6. Trip Blank; 7. Oil; 8. Waste; 9. Other_____

BOX #2: A. HCl + Ice; B. HNO3 + Ice; C. NaOH + Ice; D. H2SO4 + Ice; E. Unpreserved; F. Ice Only; G. Other_____; H. NaHSO4 + Ice; I. ZnAc+NaOH + Ice

BOX #3: F. Filtered; U. Unfiltered

H. High; M. Medium; L. Low

Box #5: C. CLP 3/90; S. SW-846; W. CWA 600-series; O. Other_____; T. TCLP

Sample ID (9 characters maximum)	Date: Year:	Time	Box #1 Matrix	Box #2 Preservative	Box #3 Filtered / Unfiltered	Box #4 Expected Conc.	Box #5 Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA 502.2	SVOC 625+10	Pesticide	PCB	Herbicide	Metals / Mercury	Cyanide	TOC / TOX	O&G / TPH	Remarks / Comments (see Notes 2 & 3)
W-1A	5/8	3:10	GW	HCl/ice	U	L		5		3	2								
W-2A	5/8	3:16	GW	HCl/ice	U	L		5		3	2								
W-3A	5/8	3:35	GW	HCl/ice	U	L		5		3	2								PH confirmed by lab upon receipt [illegible] 5/9/03
	/	:																	trip blank not listed on COC
	/	:																	
	/	:																	
	/	:																	
	/	:																	
	/	:																	
	/	:																	

Clients Special Instructions: STANDARD TURNAROUND

Temperature 4.0 °C

Lab: Received in Good Condition? Y or N **Describe Problems, if any:**

#1 Relinquished By: (Sig) [signature]	Date: 5/9	#2 Relinquished By: (Sig)	Date:	#3 Relinquished By: (Sig)	Date:
Company Name:	Time:	Company Name:	Time:	Company Name:	Time:
#1 Received By: (Sig) [signature]	Date: 5/9/03	#2 Received By: (Sig)	Date:	#3 Received By: (Sig)	Date:
Company Name: CompuChem	Time: 1035	Company Name:	Time:	Company Name:	Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.
Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

FINAL REPORT OF ANALYSES

COMPUCHEM
Attn: DIANE BYRD
501 MADISON AVENUE
CARY, NC 27513-

REPORT DATE: 05/21/03

SAMPLE NUMBER- 207222 SAMPLE ID- W-1A
DATE SAMPLED- 05/08/03
DATE RECEIVED- 05/09/03 SAMPLER- NOT SPECIFIED
TIME RECEIVED- 1350 DELIVERED BY- CHRIS BRAND

SAMPLE MATRIX- GW
TIME SAMPLED- 1510
RECEIVED BY- ALT

PROJECT NAME : PARKWAY CHEVY

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
VOLATILE ORGANIC COMPOUNDS	502.2	05/13/03	JBR			
BENZENE	502.2			< 0.5	ug/L	0.5
BROMOBENZENE	502.2			< 0.5	ug/L	0.5
BROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMODICHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMOFORM	502.2			< 0.5	ug/L	0.5
BROMOMETHANE	502.2			< 0.5	ug/L	0.5
n-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
sec-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
tert-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
CARBON TETRACHLORIDE	502.2			< 0.5	ug/L	0.5
CHLOROBENZENE	502.2			< 0.5	ug/L	0.5
CHLOROETHANE	502.2			< 0.5	ug/L	0.5
CHLOROFORM	502.2			< 0.5	ug/L	0.5
CHLOROMETHANE	502.2			< 0.5	ug/L	0.5
2-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
4-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
DIBROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMO-3-CHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMOETHANE	502.2			< 0.5	ug/L	0.5
DIBROMOMETHANE	502.2			< 0.5	ug/L	0.5

P.O. Box 12298 • Research Triangle Park, NC 27709
Telephone (919) 467-3090

Shipping: 102-A Woodwinds Industrial Court • Cary, NC 27511
Fax (919) 467-3515

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207222

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
1,2-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,4-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
DICHLORODIFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1 DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
cis-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
trans-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
2,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
cis-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
trans-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
ETHYLBENZENE	502.2			< 0.5	ug/L	0.5
HEXACHLOROBUTADIENE	502.2			< 0.5	ug/L	0.5
ISOPROPYLBENZENE	502.2			< 0.5	ug/L	0.5
p-ISOPROPYLTOLUENE	502.2			< 0.5	ug/L	0.5
METHYLENE CHLORIDE	502.2			< 0.5	ug/L	0.5
NAPHTHALENE	502.2			< 0.5	ug/L	0.5
n-PROPYLBENZENE	502.2			< 0.5	ug/L	0.5
STYRENE	502.2			< 0.5	ug/L	0.5
1,1,1,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
TETRACHLOROETHENE	502.2			0.7	ug/L	0.5
TOLUENE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,2,4-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,1,1-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207222

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
TRICHLOROETHENE	502.2			< 0.5	ug/L	0.5
TRICHLOROFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2,4-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
1,3,5-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
VINYL CHLORIDE	502.2			< 0.5	ug/L	0.5
o-XYLENE	502.2			< 0.5	ug/L	0.5
m,p-XYLENES	502.2			< 0.5	ug/L	0.5
2-BROMO-1-CHLOROPROPANE	502.2			88.2	percent	-
FLUOROBENZENE	502.2			91.7	percent	-

PQL = Practical Quantitation Limit
Results followed by the letter J are estimated concentrations.

NC DENR CERTIFICATIONS: DWQ - 96; PUBLIC WATER SUPPLY - 37724

LABORATORY DIRECTOR R.L.N

P.O. Box 12298 • Research Triangle Park, NC 27709
Telephone (919) 467-3090

Shipping: 102-A Woodwinds Industrial Court • Cary, NC 27511
Fax (919) 467-3515

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

FINAL REPORT OF ANALYSES

COMPUCHEM
Attn: DIANE BYRD
501 MADISON AVENUE
CARY, NC 27513-

REPORT DATE: 05/21/03

SAMPLE NUMBER- 207223 SAMPLE ID- W-2A
DATE SAMPLED- 05/08/03
DATE RECEIVED- 05/09/03 SAMPLER- NOT SPECIFIED
TIME RECEIVED- 1350 DELIVERED BY- CHRIS BRAND

SAMPLE MATRIX- GW
TIME SAMPLED- 1516
RECEIVED BY- ALT

PROJECT NAME : PARKWAY CHEVY

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
VOLATILE ORGANIC COMPOUNDS	502.2	05/13/03	JBR			
BENZENE	502.2			< 0.5	ug/L	0.5
BROMOBENZENE	502.2			< 0.5	ug/L	0.5
BROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMODICHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMOFORM	502.2			< 0.5	ug/L	0.5
BROMOMETHANE	502.2			< 0.5	ug/L	0.5
n-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
sec-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
tert-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
CARBON TETRACHLORIDE	502.2			< 0.5	ug/L	0.5
CHLOROBENZENE	502.2			< 0.5	ug/L	0.5
CHLOROETHANE	502.2			< 0.5	ug/L	0.5
CHLOROFORM	502.2			< 0.5	ug/L	0.5
CHLOROMETHANE	502.2			< 0.5	ug/L	0.5
2-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
4-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
DIBROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMO-3-CHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMOETHANE	502.2			< 0.5	ug/L	0.5
DIBROMOMETHANE	502.2			< 0.5	ug/L	0.5

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Fax (919) 467-3515

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207223

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
1,2-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,4-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
DICHLORODIFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1 DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
cis-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
trans-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
2,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
cis-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
trans-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
ETHYLBENZENE	502.2			< 0.5	ug/L	0.5
HEXACHLOROBUTADIENE	502.2			< 0.5	ug/L	0.5
ISOPROPYLBENZENE	502.2			< 0.5	ug/L	0.5
p-ISOPROPYLTOLUENE	502.2			< 0.5	ug/L	0.5
METHYLENE CHLORIDE	502.2			< 0.5	ug/L	0.5
NAPHTHALENE	502.2			< 0.5	ug/L	0.5
n-PROPYLBENZENE	502.2			< 0.5	ug/L	0.5
STYRENE	502.2			< 0.5	ug/L	0.5
1,1,1,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
TETRACHLOROETHENE	502.2			< 0.5	ug/L	0.5
TOLUENE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,2,4-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,1,1-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207223

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
TRICHLOROETHENE	502.2			< 0.5	ug/L	0.5
TRICHLOROFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2,4-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
1,3,5-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
VINYL CHLORIDE	502.2			< 0.5	ug/L	0.5
o-XYLENE	502.2			< 0.5	ug/L	0.5
m,p-XYLENES	502.2			< 0.5	ug/L	0.5
2-BROMO-1-CHLOROPROPANE	502.2			85.8	percent	-
FLUOROBENZENE	502.2			92.2	percent	-

PQL = Practical Quantitation Limit
Results followed by the letter J are estimated concentrations.

NC DENR CERTIFICATIONS: DWQ - 96; PUBLIC WATER SUPPLY - 37724

LABORATORY DIRECTOR _____

P.O. Box 12298 • Research Triangle Park, NC 27709
Telephone (919) 467-3090

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Fax (919) 467-3515

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

FINAL REPORT OF ANALYSES

COMPUCHEM
Attn: DIANE BYRD
501 MADISON AVENUE
CARY, NC 27513-

REPORT DATE: 05/21/03

SAMPLE NUMBER- 207224 SAMPLE ID- W-3A
DATE SAMPLED- 05/08/03
DATE RECEIVED- 05/09/03 SAMPLER- NOT SPECIFIED
TIME RECEIVED- 1350 DELIVERED BY- CHRIS BRAND

SAMPLE MATRIX- GW
TIME SAMPLED- 1535
RECEIVED BY- ALT

PROJECT NAME : PARKWAY CHEVY

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
VOLATILE ORGANIC COMPOUNDS	502.2	05/13/03	JBR			
BENZENE	502.2			< 0.5	ug/L	0.5
BROMOBENZENE	502.2			< 0.5	ug/L	0.5
BROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMODICHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMOFORM	502.2			< 0.5	ug/L	0.5
BROMOMETHANE	502.2			< 0.5	ug/L	0.5
n-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
sec-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
tert-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
CARBON TETRACHLORIDE	502.2			< 0.5	ug/L	0.5
CHLOROBENZENE	502.2			< 0.5	ug/L	0.5
CHLOROETHANE	502.2			< 0.5	ug/L	0.5
CHLOROFORM	502.2			< 0.5	ug/L	0.5
CHLOROMETHANE	502.2			< 0.5	ug/L	0.5
2-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
4-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
DIBROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMO-3-CHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMOETHANE	502.2			< 0.5	ug/L	0.5
DIBROMOMETHANE	502.2			< 0.5	ug/L	0.5

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 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207224

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
1,2-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,4-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
DICHLORODIFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1 DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
cis-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
trans-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
2,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
cis-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
trans-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
ETHYLBENZENE	502.2			< 0.5	ug/L	0.5
HEXACHLOROBUTADIENE	502.2			< 0.5	ug/L	0.5
ISOPROPYLBENZENE	502.2			< 0.5	ug/L	0.5
p-ISOPROPYLTOLUENE	502.2			< 0.5	ug/L	0.5
METHYLENE CHLORIDE	502.2			< 0.5	ug/L	0.5
NAPHTHALENE	502.2			< 0.5	ug/L	0.5
n-PROPYLBENZENE	502.2			< 0.5	ug/L	0.5
STYRENE	502.2			< 0.5	ug/L	0.5
1,1,1,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
TETRACHLOROETHENE	502.2			1.6	ug/L	0.5
TOLUENE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,2,4-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,1,1-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207224

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
TRICHLOROETHENE	502.2			< 0.5	ug/L	0.5
TRICHLOROFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2,4-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
1,3,5-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
VINYL CHLORIDE	502.2			< 0.5	ug/L	0.5
o-XYLENE	502.2			< 0.5	ug/L	0.5
m,p-XYLENES	502.2			< 0.5	ug/L	0.5
2-BROMO-1-CHLOROPROPANE	502.2			91.0	percent	-
FLUOROBENZENE	502.2			92.6	percent	-

PQL = Practical Quantitation Limit
Results followed by the letter J are estimated concentrations.

NC DENR CERTIFICATIONS: DWQ - 96; PUBLIC WATER SUPPLY - 37724

LABORATORY DIRECTOR A.L.K.

CHEMICAL & ENVIRONMENTAL TECHNOLOGY, INC.

ENVIRONMENTAL ANALYTICAL SERVICES

FINAL REPORT OF ANALYSES

COMPUCHEM
Attn: DIANE BYRD
501 MADISON AVENUE
CARY, NC 27513-

REPORT DATE: 05/21/03

SAMPLE NUMBER- 207225 SAMPLE ID- TRIP BLANK SAMPLE MATRIX- GW
DATE SAMPLED- 05/08/03
DATE RECEIVED- 05/09/03 SAMPLER- NOT SPECIFIED RECEIVED BY- ALT
TIME RECEIVED- 1350 DELIVERED BY- CHRIS BRAND

 PROJECT NAME : PARKWAY CHEVY

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
VOLATILE ORGANIC COMPOUNDS	502.2	05/13/03	JBR			
BENZENE	502.2			< 0.5	ug/L	0.5
BROMOBENZENE	502.2			< 0.5	ug/L	0.5
BROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMODICHLOROMETHANE	502.2			< 0.5	ug/L	0.5
BROMOFORM	502.2			< 0.5	ug/L	0.5
BROMOMETHANE	502.2			< 0.5	ug/L	0.5
n-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
sec-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
tert-BUTYLBENZENE	502.2			< 0.5	ug/L	0.5
CARBON TETRACHLORIDE	502.2			< 0.5	ug/L	0.5
CHLOROBENZENE	502.2			< 0.5	ug/L	0.5
CHLOROETHANE	502.2			< 0.5	ug/L	0.5
CHLOROFORM	502.2			< 0.5	ug/L	0.5
CHLOROMETHANE	502.2			< 0.5	ug/L	0.5
2-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
4-CHLOROTOLUENE	502.2			< 0.5	ug/L	0.5
DIBROMOCHLOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMO-3-CHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2-DIBROMOETHANE	502.2			< 0.5	ug/L	0.5
DIBROMOMETHANE	502.2			< 0.5	ug/L	0.5

P.O. Box 12298 • Research Triangle Park, NC 27709
Telephone (919) 467-3090
Shipping: 102-A Woodwinds Industrial Court • Cary, NC 27511
Fax (919) 467-3515

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207225

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
1,2-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,4-DICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
DICHLORODIFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1 DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
cis-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
trans-1,2-DICHLOROETHENE	502.2			< 0.5	ug/L	0.5
1,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,3-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
2,2-DICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,1-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
cis-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
trans-1,3-DICHLOROPROPENE	502.2			< 0.5	ug/L	0.5
ETHYLBENZENE	502.2			< 0.5	ug/L	0.5
HEXACHLOROBUTADIENE	502.2			< 0.5	ug/L	0.5
ISOPROPYLBENZENE	502.2			< 0.5	ug/L	0.5
p-ISOPROPYLTOLUENE	502.2			< 0.5	ug/L	0.5
METHYLENE CHLORIDE	502.2			< 0.5	ug/L	0.5
NAPHTHALENE	502.2			< 0.5	ug/L	0.5
n-PROPYLBENZENE	502.2			< 0.5	ug/L	0.5
STYRENE	502.2			< 0.5	ug/L	0.5
1,1,1,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2,2-TETRACHLOROETHANE	502.2			< 0.5	ug/L	0.5
TETRACHLOROETHENE	502.2			< 0.5	ug/L	0.5
TOLUENE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,2,4-TRICHLOROBENZENE	502.2			< 0.5	ug/L	0.5
1,1,1-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5
1,1,2-TRICHLOROETHANE	502.2			< 0.5	ug/L	0.5

 PROJECT NAME : PARKWAY CHEVY

CONTINUATION OF DATA FOR SAMPLE NUMBER 207225

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	PQL
TRICHLOROETHENE	502.2			< 0.5	ug/L	0.5
TRICHLOROFLUOROMETHANE	502.2			< 0.5	ug/L	0.5
1,2,3-TRICHLOROPROPANE	502.2			< 0.5	ug/L	0.5
1,2,4-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
1,3,5-TRIMETHYLBENZENE	502.2			< 0.5	ug/L	0.5
VINYL CHLORIDE	502.2			< 0.5	ug/L	0.5
o-XYLENE	502.2			< 0.5	ug/L	0.5
m,p-XYLENES	502.2			< 0.5	ug/L	0.5
2-BROMO-1-CHLOROPROPANE	502.2			81.1	percent	-
FLUOROBENZENE	502.2			90.5	percent	-

PQL = Practical Quantitation Limit
Results followed by the letter J are estimated concentrations.

NC DENR CERTIFICATIONS: DWQ - 96; PUBLIC WATER SUPPLY - 37724

LABORATORY DIRECTOR _____

P.O. Box 12298 • Research Triangle Park, NC 27709
Telephone (919) 467-3090

Shipping: 102-A Woodwinds Industrial Court • Cary, NC 27511
Fax (919) 467-3515

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG V2558

SAMPLE IDENTIFICATION: W1-A, W-2A, W-3A

The three water samples listed above arrived at the laboratory intact, properly refrigerated, with proper documentation, in sealed shipping containers, on May 9, 2003 and were scheduled for the requested analysis of the semivolatile fraction. Method 625 was used to analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for this SDG are included in the sample data sections.

Extraction and analysis holding time requirements were met for these samples. There were no semivolatile Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in these samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All samples met QC recovery criteria for surrogates. All of the internal standards met response and retention time criteria. The associated method blanks met all quality control criteria. The associated LCS met all QC criteria.

I certify that this 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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Richard M. Henson
Technical Director
May 19, 2003

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer

Robert E. Meierer
Vice President

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-1A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-1

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-1B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)ether	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-1A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-1

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-1B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-66-7	1,2-Diphenylhydrazine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	100	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W-1A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-1

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-1B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALCOHOL	7.77	10	J
2.	123-79-5	HEXANEDIOIC ACID, DIOCTYL ES	23.83	47	NJ
3.	4733-39-5	1,10-PHENANTHROLINE, 2,9-DIM	29.83	16	NJ
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-2A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-2B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)ether	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-2A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-2B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-66-7	1,2-Diphenylhydrazine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	100	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W-2A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-2B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALCOHOL	7.77	7	J
2.		UNKNOWN CARBOXYLIC ACID	23.83	27	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-3A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-3

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-3B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)ether	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-3A

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: V2558-3

Sample wt/vol: 500 (g/mL) ML Lab File ID: V2558-3B60

Level: (low/med) LOW Date Received: 05/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-66-7	1,2-Diphenylhydrazine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	100	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCSIK

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: WG24226-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: WG24226-2JB60

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	35	
108-95-2	Phenol	31	
111-44-4	Bis(2-chloroethyl)ether	38	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	39	
39638-32-9	bis(2-Chloroisopropyl)ether	44	
621-64-7	N-Nitroso-di-N-propylamine	44	
67-72-1	Hexachloroethane	37	
98-95-3	Nitrobenzene	46	
78-59-1	Isophorone	47	
88-75-5	2-Nitrophenol	42	
105-67-9	2,4-Dimethylphenol	41	
111-91-1	Bis(2-chloroethoxy)methane	43	
120-83-2	2,4-Dichlorophenol	42	
120-82-1	1,2,4-Trichlorobenzene	40	
91-20-3	Naphthalene	43	
87-68-3	Hexachlorobutadiene	38	
59-50-7	4-Chloro-3-methylphenol	46	
77-47-4	Hexachlorocyclopentadiene	39	
88-06-2	2,4,6-Trichlorophenol	47	
91-58-7	2-Chloronaphthalene	48	
131-11-3	Dimethylphthalate	41	
606-20-2	2,6-Dinitrotoluene	48	
208-96-8	Acenaphthylene	49	
83-32-9	Acenaphthene	47	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	33	
121-14-2	2,4-Dinitrotoluene	48	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	44	
86-73-7	Fluorene	48	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCSIK

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

Matrix: (soil/water) WATER Lab Sample ID: WG24226-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: WG24226-2JB60

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	47	
86-30-6	N-Nitrosodiphenylamine (1)	49	
122-66-7	1,2-Diphenylhydrazine	51	
101-55-3	4-Bromophenyl-phenylether	44	
118-74-1	Hexachlorobenzene	48	
87-86-5	Pentachlorophenol	51	
85-01-8	Phenanthrene	50	
120-12-7	Anthracene	49	
84-74-2	Di-n-butylphthalate	48	
206-44-0	Fluoranthene	48	
92-87-5	Benzidine	100	U
129-00-0	Pyrene	50	
85-68-7	Butylbenzylphthalate	48	
117-81-7	bis(2-ethylhexyl)Phthalate	48	
91-94-1	3,3'-Dichlorobenzidine	62	
56-55-3	Benzo(a)Anthracene	48	
218-01-9	Chrysene	48	
117-84-0	Di-n-octylphthalate	46	
205-99-2	Benzo(b)fluoranthene	47	
207-08-9	Benzo(k)fluoranthene	46	
50-32-8	Benzo(a)pyrene	46	
193-39-5	Indeno(1,2,3-c,d)pyrene	47	
53-70-3	Dibenzo(a,h)anthracene	47	
191-24-2	Benzo(g,h,i)perylene	49	

(1) - Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

	EPA SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SBLKIK	56	49	71	74	68	84			0
02	W-1A	41	40	75	73	41	68			0
03	W-2A	49	42	67	66	65	49			0
04	W-3A	42	39	56	54	56	49			0
05	SLCSIK	41	36	52	56	60	60			0
06										
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		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(21-100)
S2 (PHL)	= Phenol-d5	(10- 94)
S3 (NBZ)	= Nitrobenzene-d5	(35-114)
S4 (FBP)	= 2-Fluorobiphenyl	(43-116)
S5 (TBP)	= 2,4,6-Tribromophenol	(10-123)
S6 (TPH)	= Terphenyl-d14	(33-141)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SLCSIK

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	80	31	39	5-112
Bis(2-chloroethyl)ether	80	38	48	12-158
2-Chlorophenol	80	39	49	23-134
1,3-Dichlorobenzene	80	37	46	1-172
1,4-Dichlorobenzene	80	38	48	20-124
1,2-Dichlorobenzene	80	39	49	32-129
bis(2-Chloroisopropyl)e	80	44	55	36-166
N-Nitroso-di-N-prop.(1)	80	44	55	1-230
Hexachloroethane	80	37	46	40-113
Nitrobenzene	80	46	58	35-180
Isophorone	80	47	59	21-196
2-Nitrophenol	80	42	52	29-182
2,4-Dimethylphenol	80	41	51	32-119
Bis(2-chloroethoxy)meth	80	43	54	33-184
2,4-Dichlorophenol	80	42	52	39-135
1,2,4-Trichlorobenzene	80	40	50	44-142
Naphthalene	80	43	54	21-133
Hexachlorobutadiene	80	38	48	24-116
4-Chloro-3-methylphenol	80	46	58	22-147
2,4,6-Trichlorophenol	80	47	59	37-144
2-Chloronaphthalene	80	48	60	60-118
Dimethylphthalate	80	41	51	1-112
2,6-Dinitrotoluene	80	48	60	50-158
Acenaphthylene	80	49	61	33-145
Acenaphthene	80	47	59	47-145
2,4-Dinitrophenol	80	42	52	1-191
4-Nitrophenol	80	33	41	1-132
2,4-Dinitrotoluene	80	48	60	39-139

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III SV-1

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SLCSIK

Lab Name: COMPUCHEM Contract: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: V2558

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Diethylphthalate	80	46	58	1-114
4-Chlorophenyl-phenylet	80	44	55	25-158
Fluorene	80	48	60	59-121
4,6-Dinitro-2-methylphe	80	47	59	1-181
4-Bromophenyl-phenyleth	80	44	55	53-127
Hexachlorobenzene	80	48	60	1-152
Pentachlorophenol	80	51	64	14-176
Phenanthrene	80	50	62	54-120
Anthracene	80	49	61	27-133
Di-n-butylphthalate	80	48	60	1-118
Fluoranthene	80	48	60	26-137
Pyrene	80	50	62	52-115
Butylbenzylphthalate	80	48	60	1-152
bis(2-ethylhexyl)Phthal	80	48	60	8-158
3,3'-Dichlorobenzidine	80	62	78	1-262
Benzo(a)Anthracene	80	48	60	33-143
Chrysene	80	48	60	17-168
Di-n-octylphthalate	80	46	58	4-146
Benzo(b)fluoranthene	80	47	59	24-159
Benzo(k)fluoranthene	80	46	58	11-162
Benzo(a)pyrene	80	46	58	17-163
Indeno(1,2,3-c,d)pyrene	80	47	59	1-171
Dibenzo(a,h)anthracene	80	47	59	1-227
Benzo(g,h,i)perylene	80	49	61	1-219

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: