FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466

[redacted]

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

GZA MONITORING WELLS

SAMPLE DATES: 08/28/97
P.O.# HH48988

Report reviewed and approved by:

John Paraska
Quality Assurance Supervisor

METHODS

PARAMETER	METHOD	SOURCE
Volatile Compounds(for MW-12 & MW-11)	524.2	7
Volatile Compounds	8260A	2
BTEX	8260A	2

SOURCE

2 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

7 - "Volatile Organic Compounds in Water by Purge and Trap (Capillary) Gas Chromatography/Mass Spectrometry", (Sept. 1986), USEPA, EMSL, Cincinnati, Ohio 45268.

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

09/11/97

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID : / LAB ID / DATE RECEIVED:	MW-12 70829402 08/29/97	MW-11 70829403 08/29/97	MW-13 70829404 08/29/97	MW-10 70829405 08/29/97
		08/28/97	08/28/97	08/28/97	08/28/97
UNITS = MG/L					
TRICHLOROETHYLENE		<0.0005	<0.0005	<0.005	0.38
TETRACHLOROETHANE		<0.0005	<0.0005	<0.005	0.16
1,2-DICHLOROETHENE		0.089	0.0045	0.13	1.1
VINYL CHLORIDE		0.11	0.0039	0.19	0.070
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

Please reference the following page(s) for date and analyst.

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P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-9 70829406 08/29/97	MW-8 70829407 08/29/97	MW-6 70829408 08/29/97	MW-4 70829409 08/29/97
	SAMPLE ID :	MW-9 08/28/97	MW-8 08/28/97	MW-6 08/28/97	MW-4 08/28/97
	UNITS = MG/L				
TRICHLOROETHYLENE		1.4	0.30	1.2	29
TETRACHLOROETHANE		0.027	0.028	2.0	<0.2 D
1,2-DICHLOROETHENE		2.5	2.8	10	100
VINYL CHLORIDE		0.056	0.062	5.3	14
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

Please reference the following page(s) for date and analyst.

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LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-3
08/28/97

LAB ID 70829410
DATE RECEIVED: 08/29/97

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Trichloroethylene	<0.2 D	MG/L	09/03/97	ECKLUND
Tetrachloroethane	<0.2 D	MG/L	09/03/97	ECKLUND
1,2-Dichloroethene	200	MG/L	09/03/97	ECKLUND
Vinyl Chloride	1.9	MG/L	09/03/97	ECKLUND
Benzene	2.8	MG/L	09/03/97	ECKLUND
Toluene	2.1			
Ethylbenzene	1.9			
Xylene	3.2			

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FREE-COL LABORATORIES, LTD.

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09/11/97

TO:

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200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-7
08/28/97

LAB ID 70829411
DATE RECEIVED: 08/29/97

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Trichloroethylene	820	MG/L	09/03/97	ECKLUND
Tetrachloroethane	<0.2 D	MG/L	09/03/97	ECKLUND
1,2-Dichloroethene	22	MG/L	09/03/97	ECKLUND
Vinyl Chloride	1.1	MG/L	09/03/97	ECKLUND
Volatile Set-up	COMPLETE			

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09/11/97

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
08/28/97

LAB ID 70829412
DATE RECEIVED: 08/29/97

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Trichloroethylene	<0.005	MG/L	09/03/97	ECKLUND
Tetrachloroethane	<0.005	MG/L	09/03/97	ECKLUND
1,2-Dichloroethene	<0.005	MG/L	09/03/97	ECKLUND
Vinyl Chloride	<0.010	MG/L	09/03/97	ECKLUND
Benzene	<0.005	MG/L	09/03/97	ECKLUND
Toluene	<0.005			
Ethylbenzene	<0.005			
Xylene	<0.005			

John R Paraska
QUALITY ASSURANCE SUPERVISOR

pc: Mr. Steve Blair, GZA

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

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TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

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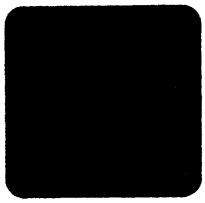

ENVIRONMENTAL
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QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-12 08/28/97	70829402
MW-11 08/28/97	70829403
MW-13 08/28/97	70829404
MW-10 08/28/97	70829405
MW-9 08/28/97	70829406
MW-8 08/28/97	70829407
MW-6 08/28/97	70829408
MW-4 08/28/97	70829409
MW-3 08/28/97	70829410
MW-7 08/28/97	70829411
TRIP BLANK 08/28/97	70829412

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9/4/97 Analyst Echlund

Samples associated with this spiked control:

Sample used as spiked control: 708-29-115 @ 10X

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20			31-187		520
Bromomethane	20			34-207		519
Vinyl chloride	20	21	<5	26-183	105	528
Chloroethane	20			55-168		507
Methylene chloride	20			63-151		521
Acrolein	62			23-183		500
Acrylonitrile	58			52-186		501
1,1-Dichloroethene	20			52-159		513
1,1-Dichloroethane	20			73-144		511
trans-1,2-Dichloroethene	20	19	<2	64-151	95	514
Chloroform	20			68-142		509
1,2-Dichloroethane	20			54-155		512
1,1,1-Trichloroethane	20			59-158		525
Carbon tetrachloride	20			39-147		504
Bromodichloromethane	20			47-148		510
1,2-Dichloropropane	20			67-144		515
trans-1,3-Dichloropropene	20			56-141		517
Trichloroethene	20	20	<2	64-130	100	527
Benzene	20	22	<2	71-142	110	502
Dibromochloromethane	20			29-155		506
1,1,2-Trichloroethane	20			61-146		526
cis-1,3-Dichloropropene	20			46-149		516
2-Chloroethyl vinyl ether	20			7-183		508
Bromoform	20			10-149		503
Tetrachloroethene	20	18	<2	50-160	90	523
1,1,2,2-Tetrachloroethane	20			44-163		522
Toluene	20	21	<2	73-130	105	524
Chlorobenzene	20			72-131		505
Ethyl benzene	20	21	<2	62-139	105	518
1,3-Dichlorobenzene	26			60-161		530
1,2-Dichlorobenzene	26			45-157		529
1,4-Dichlorobenzene	20			36-174		531
Diethyl Benzene	44			71-137		533
Ethyl Ether	35			62-160		532
Xylenes	44	44	<2	72-130	100	534
MEK	20			63-179		536

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9/4/97 Analyst Eckland

Samples associated with this spiked control:

Sample used as spiked control: 708-29-115 @ 10X

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			72-154		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
Cis-1,2-Dichloroethene	20	22	<2		110	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9/4/97 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	
Vinyl Acetate	
2-Hexanone - MBK	
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<2

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9/4/97 Analyst Eckland

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	
Bromomethane	
Vinyl chloride	<5
Chloroethane	
Methylene chloride	
Acrolein	
Acrylonitrile	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<2
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	<2
Benzene	<2
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	<2
1,1,2,2-Tetrachloroethane	
Toluene	<2
Chlorobenzene	
Ethyl benzene	<2
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<2
2-Butanone - MEK	
4-Methyl-2-pentanone	
Acetone	
Syrene	

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9/4/97 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5		223
Bromomethane	20	7.8-39.4		222
Vinyl chloride	20	1.5-41.7	22.4	232
Chloroethane	20	4.6-36.4		209
Methylene chloride	20	11.8-31.3		224
Acrolein	62	4.5-104.4		201
Acrylonitrile	58	13.2-115.2		202
1,1-Dichloroethene	20	11.3-32.1		216
1,1-Dichloroethane	20	15.5-27.8		214
trans-1,2-Dichloroethene	20	13.6-28.3	22.6	217
Chloroform	20	15.7-26.1		211
1,2-Dichloroethane	20	8.1-34.0		215
1,1,1-Trichloroethane	20	12.8-30.1		228
Carbon tetrachloride	20	8.0-27.8		206
Bromodichloromethane	20	9.8-29.7		212
1,2-Dichloropropane	20	14.7-28.2		218
trans-1,3-Dichloropropene	20	12.7-25.6		220
Trichloroethene	20	14.1-27.1	19.8	230
Benzene	20	14.3-27.8	22.4	203
Dibromochloromethane	20	4.8-29.2		208
1,1,2-Trichloroethane	20	14.3-28.2		229
cis-1,3-Dichloropropene	20	10.3-26.8		219
2-Chloroethyl vinyl ether	20	10.1-32.1		210
Bromoform	20	3.0-30.6		205
Tetrachloroethene	20	13.3-28.4	17.2	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1		225
Toluene	20	15.2-25.6	20.3	227
Chlorobenzene	20	11.5-28.6		207
Ethyl benzene	20	13.4-27.6	18.1	221
1,3-Dichlorobenzene	26	18.5-36.7		234
1,2-Dichlorobenzene	26	11.5-41.9		233
1,4-Dichlorobenzene	20	3.7-35.6		235
Diethyl Benzene	44	25.9-62.9		237
Ethyl Ether	35	26.9-49.5		236
Xylene	44	21.0-66.7	43.0	238
MEK	20	9.1-39.4		240
Acetone	20	9.6-38.0		242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9/4/97 Analyst Eckland

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7		243
Tetrahydrofuran	45	34.8-60.3		244
Carbondisulfide	20	11.0-30.4		245
Styrene	20	12.4-30.0		246
Vinyl Acetate	20	11.0-27.5		247
Amyl Acetate	44	14.7-64.6		248
Methyl Butyl Ketone	20	10.3-33.9		249
cis-1,2-DICHLOROETHENE	20		22.5	

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 9/4/97 Analyst Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	708-29-407	92	101	105
	708-29-408	110	99	102
	708-29-409	94	99	98
	708-29-410	98	95	105
	708-29-411	99	106	95

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 9/3/97 Analyst Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	708-29-404	110	100	96
	708-29-405	102	96	96
	708-29-412	101	89	90
	708-29-406	87	100	95

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9/3/97 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5		223
Bromomethane	20	7.8-39.4		222
Vinyl chloride	20	1.5-41.7	23.0	232
Chloroethane	20	4.6-36.4		209
Methylene chloride	20	11.8-31.3		224
Acrolein	62	4.5-104.4		201
Acrylonitrile	58	13.2-115.2		202
1,1-Dichloroethene	20	11.3-32.1		216
1,1-Dichloroethane	20	15.5-27.8		214
trans-1,2-Dichloroethene	20	13.6-28.3	22.4	217
Chloroform	20	15.7-26.1		211
1,2-Dichloroethane	20	8.1-34.0		215
1,1,1-Trichloroethane	20	12.8-30.1		228
Carbon tetrachloride	20	8.0-27.8		206
Bromodichloromethane	20	9.8-29.7		212
1,2-Dichloropropane	20	14.7-28.2		218
trans-1,3-Dichloropropene	20	12.7-25.6		220
Trichloroethene	20	14.1-27.1	21.4	230
Benzene	20	14.3-27.8	23.5	203
Dibromochloromethane	20	4.8-29.2		208
1,1,2-Trichloroethane	20	14.3-28.2		229
cis-1,3-Dichloropropene	20	10.3-26.8		219
2-Chloroethyl vinyl ether	20	10.1-32.1		210
Bromoform	20	3.0-30.6		205
Tetrachloroethene	20	13.3-28.4	17.4	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1		225
Toluene	20	15.2-25.6	21.9	227
Chlorobenzene	20	11.5-28.6		207
Ethyl benzene	20	13.4-27.6	21.7	221
1,3-Dichlorobenzene	26	18.5-36.7		234
1,2-Dichlorobenzene	26	11.5-41.9		233
1,4-Dichlorobenzene	20	3.7-35.6		235
Diethyl Benzene	44	25.9-62.9		237
Ethyl Ether	35	26.9-49.5		236
Xylene	44	21.0-66.7	45.3	238
MEK	20	9.1-39.4		240
Acetone	20	9.6-38.0		242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9/3/97 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7		243
Tetrahydrofuran	45	34.8-60.3		244
Carbondisulfide	20	11.0-30.4		245
Styrene	20	12.4-30.0		246
Vinyl Acetate	20	11.0-27.5		247
Amyl Acetate	44	14.7-64.6		248
Methyl Butyl Ketone	20	10.3-33.9		249
cis-1,2-Dichloroethene	20		20.7	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9/3/97 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	
Bromomethane	
Vinyl chloride	<5
Chloroethane	
Methylene chloride	
Acrolein	
Acrylonitrile	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<2
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	<2
Benzene	<2
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	<2
1,1,2,2-Tetrachloroethane	
Toluene	<2
Chlorobenzene	
Ethyl benzene	<2
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<2
2-Butanone - MEK	
4-Methyl-2-pentanone	
Acetone	
Syrene	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9/3/97 Analyst Eckland

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	
Vinyl Acetate	
2-Hexanone - MBK	
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<2

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9/3/97 Analyst Echlund

Samples associated with this repeat control:

Sample used as repeat control: 708-27-034

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane						820
Bromomethane						819
Vinyl chloride	<250	<250		27	0	828
Chloroethane						807
Methylene chloride				17		821
Acrolein						800
Acrylonitrile						801
1,1-Dichloroethene						813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene	<100	<100		28	0	814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	<100	<100		32	0	827
Benzene	2,300	2,500		49	8.3%	802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene	<100	<100		33	0	823
1,1,2,2-Tetrachloroethane						822
Toluene	950	1,000		38	5.1%	824
Chlorobenzene				24		805
Ethyl benzene	2,000	2,000		5	0	818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone				26		836

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9/3/97 Analyst Ecklund

Samples associated with this repeat control:

Sample used as repeat control: 708-27-034.

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone						
MIBK						
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	<100	<100			~~0~~	
Xylene	7,000	7,500			6.9%	

FREE-COL LABORATORIES, INC.
DRINKING WATER SURROGATE SPIKE RECOVERY INFORMATION

Date 9/8/97 Analyst(s) Ecklund

Target Value = 10.0 ug/L

Units = ug/L

Free-Col I.D.	Bromofluorobenzene	1,2-Dichlorobenzene-d4
Limits =	7.6 to 12.4	7.8 to 12.5
708-29-402	9.0	9.8
708-29-403	10.5	9.9

FREE-COL LABORATORIES, INC.
DRINKING WATER BLANK INFORMATION, VOLATILES

Date 9/8/97 Analyst(s) Erklund

Samples associated with this blank:

PARAMETER	BLANK VALUE
Units = ug/L	
Dichlorodifluoromethane	
Chloromethane	
Vinyl Chloride	<0.5
Bromomethane	
Chloroethane	
Trichlorofluoromethane	
1,1-Dichloroethene	
Methylene Chloride	
Trans-1,2-Dichloroethene	<0.5
1,1-Dichlroethane	
Dichloropropane	
Cis-1,2-Dichloroethene	
Bromochloromethane	
Chloroform	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
1,1-Dichloropropene	
Benzene	
1,2-Dichloroethane	
Trichloroethene	<0.5
1,2-Dichloropropane	
Dibromomethane	
Bromodichloromethane	
Trans-1,3-Dichloropropene	
Toluene	
Cis-1,3-Dichloropropene	
1,1,2-Trichloroethane	
Tetrachloroethene	<0.5
1,3-Dichloropropane	
Dibromochloromethane	

DRINKING WATER BLANK INFORMATION, VOLATILES (page 2)

Date 9/8/97 Analyst(s) Eklund

PARAMETER	BLANK VALUE
units = ug/L	
1,2-Dibromoethane	
Chlorobenzene	
1,1,1,2-Tetrachloroethane	
Ethyl benzene	
m,p-Xylenes	
o-Xylene	
Styrene	
Bromoform	
Isopropyl Benzene	
1,1,2,2-Tetrachloroethane	
Bromobenzene	
1,2,3-Trichloropropane	
N-propyl Benzene	
2-Chlorotoluene	
4-Chlorotoluene	
1,3,5-Trimethylbenzene	
tert-Butylbenzene	
1,2,4-Trimethylbenzene	
sec-Butylbenzene	
1,3-Dichlorobenzene	
p-Isopropyltoluene	
1,4-Dichlorobenzene	
1,2-Dichlorobenzene	
N-Butylbenzene	
1,2,4-Trichlorobenzene.	
Naphthalene	
Hexachlorobutadiene	
1,2,3-Trichlorobenzene	
C15-1,2-Dichloroethene	<0.5

FREE-COL LABORATORIES, INC.
DRINKING WATER REFERENCE CONTROL LIMITS, VOLATILES

Date 9/8/97 Analyst(s) Eklund

Samples associated with this reference control:

Acceptance limits (all compounds): 8.0 to 12.0 ug/L

PARAMETER	TARGET VALUE ug/L	ASSAYED VALUE ug/L
Dichlorodifluoromethane	10	
Chloromethane	10	
Vinyl Chloride	10	10.0
Bromomethane	10	
Chloroethane	10	
Trichlorofluoromethane	10	
1,1-Dichloroethene	10	
Methylene Chloride	10	
Trans-1,2-Dichloroethene	10	9.7
1,1-Dichlroethane	10	
Dichloropropane	10	
Cis-1,2-Dichloroethene	10	
Bromochloromethane	10	
Chloroform	10	
1,1,1-Trichloroethane	10	
Carbon Tetrachloride	10	
1,1-Dichloropropene	10	
Benzene	10	
1,2-Dichloroethane	10	
Trichloroethene	10	9.93
1,2-Dichloropropane	10	
Dibromomethane	10	
Bromodichloromethane	10	
Trans-1,3-Dichloropropene	10	
Toluene	10	
Cis-1,3-Dichloropropene	10	
1,1,2-Trichloroethane	10	
Tetrachloroethene	10	10.1
1,3-Dichloropropane	10	
Dibromochloromethane	10	

DRINKING WATER REFERENCE CONTROL LIMITS, VOLATILES (page 2)

Date 9/8/97 Analyst(s) Ecklund

Acceptance Limits (all compounds) : 8.0 to 12.0 ug/L

PARAMETER	TARGET VALUE ug/L	ASSAYED VALUE ug/L
1,2-Dibromoethane	10	
Chlorobenzene	10	
1,1,1,2-Tetrachloroethane	10	
Ethyl benzene	10	
m,p-Xylenes	20	
o-Xylene	10	
Styrene	10	
Bromoform	10	
Isopropyl Benzene	10	
1,1,2,2-Tetrachloroethane	10	
Bromobenzene	10	
1,2,3-Trichloropropane	10	
N-propyl Benzene	10	
2-Chlorotoluene	10	
4-Chlorotoluene	10	
1,3,5-Trimethylbenzene	10	
tert-Butylbenzene	10	
1,2,4-Trimethylbenzene	10	
sec-Butylbenzene	10	
1,3-Dichlorobenzene	10	
p-Isopropyltoluene	10	
1,4-Dichlorobenzene	10	
1,2-Dichlorobenzene	10	
N-Butylbenzene	10	
1,2,4-Trichlorobenzene	10	
Naphthalene	10	
Hexachlorobutadiene	10	
1,2,3-Trichlorobenzene	10	
Cis-1,2-Dichloroethene	10	10.1

FREE-COL LABORATORIES, INC.
DRINKING WATER SPIKE SAMPLE LIMITS, VOLATILES

Date 9/8/97 Analyst(s) Eckland

Samples associated with this spike control:

Sample used as spike control: 708-29-012

Acceptance limits (all compounds): 80 to 120 %

PARAMETER	SPIKE ADDED ug/L	SPIKED RESULT ug/L	SAMPLE RESULT ug/L	ASSAYED % REC.
Dichlorodifluoromethane	10			
Chloromethane	10			
Vinyl Chloride	10	10.0	<0.5	100 %
Bromomethane	10			
Chloroethane	10			
Trichlorofluoromethane	10			
1,1-Dichloroethene	10			
Methylene Chloride	10			
Trans-1,2-Dichloroethene	10	10.3	<0.5	103 %
1,1-Dichlroethane	10			
Dichloropropane	10			
Cis-1,2-Dichloroethene	10			
Bromochloromethane	10			
Chloroform	10			
1,1,1-Trichloroethane	10			
Carbon Tetrachloride	10			
1,1-Dichloropropene	10			
Benzene	10			
1,2-Dichloroethane	10			
Trichloroethene	10	10.1	<0.5	101 %
1,2-Dichloropropane	10			
Dibromomethane	10			
Bromodichloromethane	10			
Trans-1,3-Dichloropropene	10			
Toluene	10			
Cis-1,3-Dichloropropene	10			
1,1,2-Trichloroethane	10			
Tetrachloroethene	10	9.8	<0.5	98 %
1,3-Dichloropropane	10			
Dibromochloromethane	10			

FREE-COL LABORATORIES, INC.
DRINKING WATER REPEAT SAMPLE LIMITS, VOLATILES

Date 9/8/97 Analyst(s) Eklund

Samples associated with this repeat control:

Sample used as repeat control: 708-29-403

AD = Absolute Difference
RPD = Relative Percent Difference

Units = ug/L

PARAMETER	SAMPLE VALUE	REPEAT VALUE	ACCEPT AD	ACCEPT RPD	ASSAYED AD/RPD
Dichlorodifluoromethane					
Chloromethane					
Vinyl Chloride	3.9	4.4		12%	
Bromomethane					
Chloroethane					
Trichlorofluoromethane					
1,1-Dichloroethene					
Methylene Chloride					
Trans-1,2-Dichloroethene	<0.5	<0.5		0	
1,1-Dichlroethane					
Dichloropropane					
Cis-1,2-Dichloroethene					
Bromochloromethane					
Chloroform					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
1,1-Dichloropropene					
Benzene					
1,2-Dichloroethane					
Trichloroethene	<0.5	<0.5		0	
1,2-Dichloropropane					
Dibromomethane					
Bromodichloromethane					
Trans-1,3-Dichloropropene					
Toluene					
Cis-1,3-Dichloropropene					
1,1,2-Trichloroethane					
Tetrachloroethene	<0.5	<0.5		0	
1,3-Dichloropropane					
Dibromochloromethane					

DRINKING WATER REPEAT LIMITS, VOLATILES (page 2)

Date 9/8/97 Analyst(s) Ecklund

Sample used as repeat control: 708-29-403

PARAMETER units = ug/L	SAMPLE VALUE	REPEAT VALUE	ACCEPT AD	ACCEPT RPD	ASSAYED AD/RPD
1,2-Dibromoethane					
Chlorobenzene					
1,1,1,2-Tetrachloroethane					
Ethyl benzene					
m,p-Xylenes					
o-Xylene					
Styrene					
Bromoform					
Isopropyl Benzene					
1,1,2,2-Tetrachloroethane					
Bromobenzene					
1,2,3-Trichloropropane					
N-propyl Benzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,3,5-Trimethylbenzene					
tert-Butylbenzene					
1,2,4-Trimethylbenzene					
sec-Butylbenzene					
1,3-Dichlorobenzene					
p-Isopropyltoluene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
N-Butylbenzene					
1,2,4-Trichlorobenzene					
Naphthalene					
Hexachlorobutadiene					
1,2,3-Trichlorobenzene					
cis-1,2-Dichloroethene	4.5	4.9			8.5%

DRINKING WATER SPIKE LIMITS, VOLATILES (page 2)

Date 9/8/97 Analyst(s) Ecklund

Sample used as spike control: 703-29-012

Acceptance Limits (all compounds) : 80 to 120 %

PARAMETER	SPIKE ADDED ug/L	SPIKED RESULT ug/L	SAMPLE RESULT ug/L	ASSAYED % REC.
1,2-Dibromoethane	10			
Chlorobenzene	10			
1,1,1,2-Tetrachloroethane	10			
Ethyl benzene	10			
m,p-Xylenes	20			
o-Xylene	10			
Styrene	10			
Bromoform	10			
Isopropyl Benzene	10			
1,1,2,2-Tetrachloroethane	10			
Bromobenzene	10			
1,2,3-Trichloropropane	10			
N-propyl Benzene	10			
2-Chlorotoluene	10			
4-Chlorotoluene	10			
1,3,5-Trimethylbenzene	10			
tert-Butylbenzene	10			
1,2,4-Trimethylbenzene	10			
sec-Butylbenzene	10			
1,3-Dichlorobenzene	10			
p-Isopropyltoluene	10			
1,4-Dichlorobenzene	10			
1,2-Dichlorobenzene	10			
N-Butylbenzene	10			
1,2,4-Trichlorobenzene	10			
Naphthalene	10			
Hexachlorobutadiene	10			
1,2,3-Trichlorobenzene	10			
cis-1,2-Dichloroethene	10	9.9	<0.5	99%

APPENDIX D

NYSDEC Analytical Laboratory Results:

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, New York, 14203-2999
(716) 851-7220

John P. Cahill
Commissioner

October 9, 1997

Ms. Catherine A. Ver
Delphi Harrison Thermal Systems
200 Upper Mountain Road
Lockport, New York 14094

Dear Ms. Ver:

Groundwater Monitoring Results

Please find attached a copy of the analytical results obtained from the split samples collected by the Department on August 28, 1997. The sample numbers with coresponding well designations are as follows:

Sample Number	Well Designation
A60103	MW-3
A60104	MW-4
A60111	MW-11
A60112	MW-12

Should you have any questions regarding these results, please feel free to contact me at 851-7220.

Sincerely yours,

Glenn M May

Glenn M. May, CPG
Engineering Geologist I

Attachments

cc: Mr. Daniel King w/o attachments

RECRA
LabNet

a division of Recra Environmental, Inc.

Virtual Laboratories Everywhere

September 25, 1997

Mr. John Ryan
NYSDEC
50 Wolf Road, Room 305
Albany, NY 12233

RE: Analytical Results

Dear Mr. Ryan:

Please find enclosed results concerning the analyses of the samples recently submitted by your agency. The pertinent information regarding these analyses is listed below:

Case #: SH997
SDG #: 0828
Matrix: Aqueous
Samples Received: 08/29/97
Sample Date: 08/28/97

If you have any questions concerning these data, please contact Mr. Patrick J. Filey, Program Manager, at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide the New York State Department of Environmental Conservation with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA LABNET, INC.

Patrick J. Filey
Program Manager

Kenneth E. Kasperek
Laboratory Director

PJF/KEK/amk
Enclosure: Diskette

I.D. #A97-3025
#NY4A5020-9

cc: Mr. Glenn May - NYSDEC Region 9

This report contains 218 pages which are individually numbered

SAMPLE DATA SUMMARY PACKAGE

SDG NARRATIVE

Laboratory Name: Recra Labnet, Inc.

Laboratory Code: RECNY

Case Number: SH997

SDG Number: 0828

Sample Identifications: SH997 0828 A60103
SH997 0828 A60104
SH997 0828 A60111
SH997 0828 A60112

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Teknivent Datasystem and QA Formsmaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

VOLATILE DATA

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor from ortho-Xylene to calculate the nanogram amount.

Sample A60103 shows the recovery of surrogate 1,2-Dichloroethane-D4 as being outside of the quality control limits. This sample was re-analyzed utilizing a dilution due to the high concentration of several compounds of interest. The diluted sample shows compliant recoveries for all surrogates.

Sample A60104 shows the recoveries of surrogates 1,2-Dichloroethane-D4 and Toluene-D8 as being outside quality control limits. This sample was re-analyzed utilizing a dilution due to the high concentration of several compounds of interest. The diluted sample shows compliant recoveries for all surrogates.

" 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 electronic deliverable has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Kenneth E. Kasperek
Laboratory Director

9/25/97
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA LABNET, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
A60103	A7302501	ASP91	-	-	-	-	-
A60104	A7302502	ASP91	-	-	-	-	-
A60111	A7302503	ASP91	-	-	-	-	-
A60112	A7302504	ASP91	-	-	-	-	-

NYSDEC-1

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: RECRA LABNET, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
A60103	WATER	08/28/97	08/29/97	-	09/02/97
A60104	WATER	08/28/97	08/29/97	-	09/02/97
A60111	WATER	08/28/97	08/29/97	-	09/03/97
A60112	WATER	08/28/97	08/29/97	-	09/03/97

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA LABNET, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
A60103	WATER	ASP91	-	AS REQUIRED	AS REQUIRED
A60104	WATER	ASP91	-	AS REQUIRED	AS REQUIRED
A60111	WATER	ASP91	-	AS REQUIRED	AS REQUIRED
A60112	WATER	ASP91	-	AS REQUIRED	AS REQUIRED

ORGANIC DATA COMMENT PAGE

Laboratory Name: Recra Labnet, Inc.

USEPA Defined Organic Data Qualifiers:

U	-	Indicates compound was analyzed for but not detected.
J	-	Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	-	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	-	This flag is used when the analyte is found in the associated blank as well as in the sample.
E	-	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
D	-	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
T	-	This flag is used when the analyte is found in the associated TCLP extraction blank as well as in the sample.
N	-	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
P	-	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
A	-	This flag indicates that a TIC is a suspected aldol-condensation product.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0008

A60103(MW-3)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302501

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2948

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	1800	E
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	220	E
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	33000	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	8	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2800	E
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	100	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1800	E
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	2900	E
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	3300	E

0009

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

A60103

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302501

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2948

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. ____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKYL BENZENE DERIVATIVE	25.87	25	J
2.	UNKNOWN	26.83	65	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0010

A60103DL (MW-3)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302501DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2975

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20000	U
74-83-9	Bromomethane	20000	U
75-01-4	Vinyl Chloride	20000	U
75-00-3	Chloroethane	20000	U
75-09-2	Methylene Chloride	20000	U
67-64-1	Acetone	20000	U
75-15-0	Carbon Disulfide	20000	U
75-35-4	1,1-Dichloroethene	20000	U
75-34-3	1,1-Dichloroethane	20000	U
540-59-0	1,2-Dichloroethene (total)	150000	D
67-66-3	Chloroform	20000	U
107-06-2	1,2-Dichloroethane	20000	U
78-93-3	2-Butanone	20000	U
71-55-6	1,1,1-Trichloroethane	20000	U
56-23-5	Carbon Tetrachloride	20000	U
75-27-4	Bromodichloromethane	20000	U
78-87-5	1,2-Dichloropropane	20000	U
10061-01-5	cis-1,3-dichloropropene	20000	U
79-01-6	Trichloroethene	20000	U
124-48-1	Dibromochloromethane	20000	U
79-00-5	1,1,2-Trichloroethane	20000	U
71-43-2	Benzene	20000	U
10061-02-6	trans-1,3-dichloropropene	20000	U
75-25-2	Bromoform	20000	U
108-10-1	4-Methyl-2-Pentanone	20000	U
591-78-6	2-Hexanone	20000	U
127-18-4	Tetrachloroethene	20000	U
79-34-5	1,1,2,2-Tetrachloroethane	20000	U
108-88-3	Toluene	20000	U
108-90-7	Chlorobenzene	20000	U
100-41-4	Ethylbenzene	20000	U
100-42-5	Styrene	20000	U
1330-20-7	Total Xylenes	20000	U

0011
EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

A60103DL

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302501DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2975

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0012

A60104 (MW-4)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302502

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2949

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	7000	E
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	300	E
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	23000	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	9400	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	7	J
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	8	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	4	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 0013

A60104

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302502

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2949

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0014

A60104DL (mw-4)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302502DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2976

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. ____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl Chloride	23000	D
75-00-3	Chloroethane	10000	U
75-09-2	Methylene Chloride	10000	U
67-64-1	Acetone	10000	U
75-15-0	Carbon Disulfide	10000	U
75-35-4	1,1-Dichloroethene	10000	U
75-34-3	1,1-Dichloroethane	10000	U
540-59-0	1,2-Dichloroethene (total)	190000	D
67-66-3	Chloroform	10000	U
107-06-2	1,2-Dichloroethane	10000	U
78-93-3	2-Butanone	10000	U
71-55-6	1,1,1-Trichloroethane	10000	U
56-23-5	Carbon Tetrachloride	10000	U
75-27-4	Bromodichloromethane	10000	U
78-87-5	1,2-Dichloropropane	10000	U
10061-01-5	cis-1,3-dichloropropene	10000	U
79-01-6	Trichloroethene	54000	D
124-48-1	Dibromochloromethane	10000	U
79-00-5	1,1,2-Trichloroethane	10000	U
71-43-2	Benzene	10000	U
10061-02-6	trans-1,3-dichloropropene	10000	U
75-25-2	Bromoform	10000	U
108-10-1	4-Methyl-2-Pentanone	10000	U
591-78-6	2-Hexanone	10000	U
127-18-4	Tetrachloroethene	10000	U
79-34-5	1,1,2,2-Tetrachloroethane	10000	U
108-88-3	Toluene	10000	U
108-90-7	Chlorobenzene	10000	U
100-41-4	Ethylbenzene	10000	U
100-42-5	Styrene	10000	U
1330-20-7	Total Xylenes	10000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A60104DL

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302502DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2976

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0016

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

A60111 (MW-11)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302503

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2977

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. ____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	2	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	2	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A60111

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302503

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2977

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A60112 (MW-12)

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302504

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2978

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	100	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	76	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

A60112

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: A7302504

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2978

Level: (low/med) LOW Date Received: 08/29/97

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0023
EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK08

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: VBLK08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2943

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

% Moisture: not dec. ____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK08

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: VBLK08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2943

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

% Moisture: not dec. _____ Date Analyzed: 09/02/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.03	11	J
2.	UNKNOWN	9.22	6	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK09

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: VBLK09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2967

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

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK09

Lab Name: RECRA ENVIRON Contract: C002989

Lab Code: RECNY Case No.: SH997 SAS No.: _____ SDG No.: 0828

Matrix: (soil/water) WATER Lab Sample ID: VBLK09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2967

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

% Moisture: not dec. _____ Date Analyzed: 09/03/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

[redacted]

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

NOV 10

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MONITORING WELLS #12,11,13,10,9,8,6,4,3,7

SAMPLE DATES: 10/10/97
P.O.# HH48988

Report reviewed and approved by:

John Paraska

John Paraska
Quality Assurance Supervisor

FREE-COL LABORATORIES, LTD.
P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/22/97

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-12 10/10/97	MW-11 10/10/97	MW-13 10/10/97	TRIP BLANK 10/10/97
	LAB ID	71013400	71013401	71013402	71013410
	DATE RECEIVED:	10/13/97	10/13/97	10/13/97	10/13/97
UNITS = MG/L					
TRICHLOROETHYLENE		<0.0005	<0.0005	<0.0005	<0.0005
TETRACHLOROETHANE		<0.0005	<0.0005	<0.0005	<0.0005
1,2-DICHLOROETHENE		0.16	0.0032	0.0030	<0.0005
VINYL CHLORIDE		0.17	0.0012	0.0010	<0.0005
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

Volatile Compounds - Method 524.2
"Volatile Organic Compounds in Water by Purge and Trap (Capillary) Gas Chromatography/ Mass Spectrometry", (Sept. 1986), USEPA, EMSL, Cincinnati, Ohio 45268.

DATE AND ANALYST
10/16/97 ECKLUND

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/22/97

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-10 71013403 10/13/97	MW-9 71013404 10/13/97	MW-8 71013405 10/13/97	MW-6 71013406 10/13/97
		10/10/97	10/10/97	10/10/97	10/10/97
	UNITS = MG/L				
TRICHLOROETHYLENE		0.35	1.6	0.35	12
TETRACHLOROETHANE		0.28	0.047	0.018	44
1,2-DICHLOROETHENE		0.76	2.7	4.3	16
VINYL CHLORIDE		0.047	0.12	0.11	5.5
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

DATE AND ANALYST
10/20/97 ECKLUND

Volatile Compounds - Method 8260B
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

FREE-COL LABORATORIES, LTD.

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MEADVILLE, PENNSYLVANIA 16335
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10/22/97

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-4 10/10/97 71013407 10/13/97	MW-3 10/10/97 71013408 10/13/97	MW-7 10/10/97 71013409 10/13/97
UNITS = MG/L				
TRICHLOROETHYLENE		33	<0.2 D	720
TETRACHLOROETHANE		<0.2 D	<0.2 D	<0.2 D
1,2-DICHLOROETHENE		110	230	43
VINYL CHLORIDE		27	4.7	4.8
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE

DATE AND ANALYST
10/20/97 ECKLUND

Volatile Compounds - Method 8260B
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

FREE-COL LABORATORIES, LTD.

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/22/97

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48988

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3	TRIP BLANK
		10/10/97	10/10/97
	LAB ID	71013408 *	71013410 **
	DATE RECEIVED:	10/13/97	10/13/97
UNITS = MG/L			
BENZENE		1.7	<0.0005
TOLUENE		1.0	<0.0005
ETHYLBENZENE		<0.2 D	<0.0005
XYLENE		0.8	<0.0005

* BTEX - Method 8260B
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

DATE AND ANALYST
10/20/97 ECKLUND

** BTEX - Method 524.2
"Volatile Organic Compounds in Water by Purge and Trap (Capillary) Gas Chromatography/ Mass Spectrometry", (Sept. 1986), USEPA, EMSL, Cincinnati, Ohio 45268.

DATE AND ANALYST
10/16/97 ECKLUND

pc: Mr. Steve Blair, GZA

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

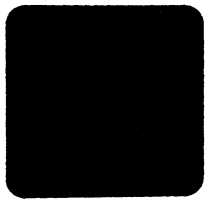
PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
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FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-12 10/10/97	71013400
MW-11 10/10/97	71013401
MW-13 10/10/97	71013402
TRIP BLANK 10/10/97	71013410
MW-10 10/10/97	71013403
MW-9 10/10/97	71013404
MW-8 10/10/97	71013405
MW-6 10/10/97	71013406
MW-4 10/10/97	71013407
MW-3 10/10/97	71013408
MW-7 10/10/97	71013409

FREE-COL LABORATORIES, INC.
DRINKING WATER SURROGATE SPIKE RECOVERY INFORMATION

Date 10/16/97 Analyst(s) Ecklund

Target Value = 10.0 ug/L

Units = ug/L

Free-Col I.D.	Bromofluorobenzene	1,2-Dichlorobenzene-d4
Limits =	7.6 to 12.4	7.8 to 12.5
710-13-400	10.6	11.1
710-13-401	10.9	11.3
710-13-402	10.6	10.6
710-13-410	11.0	10.9

FREE-COL LABORATORIES, INC.
DRINKING WATER REFERENCE CONTROL LIMITS, VOLATILES

Date 10/16/97 Analyst(s) Ecklund

Samples associated with this reference control:

Acceptance limits (all compounds): 8.0 to 12.0 ug/L

PARAMETER	TARGET VALUE ug/L	ASSAYED VALUE ug/L
Dichlorodifluoromethane	10	
Chloromethane	10	
Vinyl Chloride	10	9.7
Bromomethane	10	
Chloroethane	10	
Trichlorofluoromethane	10	
1,1-Dichloroethene	10	
Methylene Chloride	10	
Trans-1,2-Dichloroethene	10	9.3
1,1-Dichlroethane	10	
Dichloropropane	10	
Cis-1,2-Dichloroethene	10	11.0
Bromochloromethane	10	
Chloroform	10	
1,1,1-Trichloroethane	10	
Carbon Tetrachloride	10	
1,1-Dichloropropene	10	
Benzene	10	9.6
1,2-Dichloroethane	10	
Trichloroethene	10	10.0
1,2-Dichloropropane	10	
Dibromomethane	10	
Bromodichloromethane	10	
Trans-1,3-Dichloropropene	10	
Toluene	10	9.9
Cis-1,3-Dichloropropene	10	
1,1,2-Trichloroethane	10	
Tetrachloroethene	10	10.1
1,3-Dichloropropane	10	
Dibromochloromethane	10	

DRINKING WATER REFERENCE CONTROL LIMITS, VOLATILES (page 2)

Date 10/16/97 Analyst(s) Ecklund

Acceptance Limits (all compounds) : 8.0 to 12.0 ug/L

PARAMETER	TARGET VALUE ug/L	ASSAYED VALUE ug/L
1,2-Dibromoethane	10	
Chlorobenzene	10	
1,1,1,2-Tetrachloroethane	10	
Ethyl benzene	10	9.7
m,p-Xylenes	20	19.2
o-Xylene	10	9.7
Styrene	10	
Bromoform	10	
Isopropyl Benzene	10	
1,1,2,2-Tetrachloroethane	10	
Bromobenzene	10	
1,2,3-Trichloropropane	10	
N-propyl Benzene	10	
2-Chlorotoluene	10	
4-Chlorotoluene	10	
1,3,5-Trimethylbenzene	10	
tert-Butylbenzene	10	
1,2,4-Trimethylbenzene	10	
sec-Butylbenzene	10	
1,3-Dichlorobenzene	10	
p-Isopropyltoluene	10	
1,4-Dichlorobenzene	10	
1,2-Dichlorobenzene	10	
N-Butylbenzene	10	
1,2,4-Trichlorobenzene	10	
Naphthalene	10	
Hexachlorobutadiene	10	
1,2,3-Trichlorobenzene	10	

FREE-COL LABORATORIES, INC.
DRINKING WATER BLANK INFORMATION, VOLATILES

Date 10/16/97 Analyst(s) Eckland

Samples associated with this blank:

PARAMETER	BLANK VALUE
Units = ug/L	
Dichlorodifluoromethane	
Chloromethane	
Vinyl Chloride	<0.5
Bromomethane	
Chloroethane	
Trichlorofluoromethane	
1,1-Dichloroethene	
Methylene Chloride	
Trans-1,2-Dichloroethene	<0.5
1,1-Dichlroethane	
Dichloropropane	
Cis-1,2-Dichloroethene	<0.5
Bromochloromethane	
Chloroform	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
1,1-Dichloropropene	
Benzene	<0.5
1,2-Dichloroethane	
Trichloroethene	<0.5
1,2-Dichloropropane	
Dibromomethane	
Bromodichloromethane	
Trans-1,3-Dichloropropene	
Toluene	<0.5
Cis-1,3-Dichloropropene	
1,1,2-Trichloroethane	
Tetrachloroethene	<0.5
1,3-Dichloropropane	
Dibromochloromethane	

DRINKING WATER BLANK INFORMATION, VOLATILES (page 2)

Date 10/16/97 Analyst(s) Ecklund

PARAMETER	BLANK VALUE
units = ug/L	
1,2-Dibromoethane	
Chlorobenzene	
1,1,1,2-Tetrachloroethane	
Ethyl benzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5
Styrene	
Bromoform	
Isopropyl Benzene	
1,1,2,2-Tetrachloroethane	
Bromobenzene	
1,2,3-Trichloropropane	
N-propyl Benzene	
2-Chlorotoluene	
4-Chlorotoluene	
1,3,5-Trimethylbenzene	
tert-Butylbenzene	
1,2,4-Trimethylbenzene	
sec-Butylbenzene	
1,3-Dichlorobenzene	
p-Isopropyltoluene	
1,4-Dichlorobenzene	
1,2-Dichlorobenzene	
N-Butylbenzene	
1,2,4-Trichlorobenzene	
Naphthalene	
Hexachlorobutadiene	
1,2,3-Trichlorobenzene	

FREE-COL LABORATORIES, INC.
DRINKING WATER REPEAT SAMPLE LIMITS, VOLATILES

Date 10/16/97 Analyst(s) Ecklund

Samples associated with this repeat control:

Sample used as repeat control: 710-13-401

AD = Absolute Difference
RPD = Relative Percent Difference

Units = ug/L

PARAMETER	SAMPLE VALUE	REPEAT VALUE	ACCEPT AD	ACCEPT RPD	ASSAYED AD/RPD
Dichlorodifluoromethane					
Chloromethane					
Vinyl Chloride	1.2	1.3			0.1/8%
Bromomethane					
Chloroethane					
Trichlorofluoromethane					
1,1-Dichloroethene					
Methylene Chloride					
Trans-1,2-Dichloroethene	<0.5	<0.5			0
1,1-Dichlroethane					
Dichloropropane					
Cis-1,2-Dichloroethene	3.2	3.0			0.2/6.4%
Bromochloromethane					
Chloroform					
1,1,1-Trichloroethane					
Carbon Tetrachloride					
1,1-Dichloropropene					
Benzene	<0.5	<0.5			0
1,2-Dichloroethane					
Trichloroethene	<0.5	<0.5			0
1,2-Dichloropropane					
Dibromomethane					
Bromodichloromethane					
Trans-1,3-Dichloropropene					
Toluene	<0.5	<0.5			0
Cis-1,3-Dichloropropene					
1,1,2-Trichloroethane					
Tetrachloroethene	<0.5	<0.5			0
1,3-Dichloropropane					
Dibromochloromethane					

DRINKING WATER REPEAT LIMITS, VOLATILES (page 2)

Date 10/16/97 Analyst(s) Echlund

Sample used as repeat control: 710-13-401

units = ug/L

PARAMETER	SAMPLE VALUE	REPEAT VALUE	ACCEPT AD	ACCEPT RPD	ASSAYED AD/RPD
1,2-Dibromoethane					
Chlorobenzene					
1,1,1,2-Tetrachloroethane					
Ethyl benzene	<0.5	<0.5			0
m,p-Xylenes	<0.5	<0.5			0
o-Xylene	<0.5	<0.5			0
Styrene					
Bromoform					
Isopropyl Benzene					
1,1,2,2-Tetrachloroethane					
Bromobenzene					
1,2,3-Trichloropropane					
N-propyl Benzene					
2-Chlorotoluene					
4-Chlorotoluene					
1,3,5-Trimethylbenzene					
tert-Butylbenzene					
1,2,4-Trimethylbenzene					
sec-Butylbenzene					
1,3-Dichlorobenzene					
p-Isopropyltoluene					
1,4-Dichlorobenzene					
1,2-Dichlorobenzene					
N-Butylbenzene					
1,2,4-Trichlorobenzene					
Naphthalene					
Hexachlorobutadiene					
1,2,3-Trichlorobenzene					

FREE-COL LABORATORIES, INC.
DRINKING WATER SPIKE SAMPLE LIMITS, VOLATILES

Date 10/16/97 Analyst(s) Ecklund

Samples associated with this spike control:

Sample used as spike control: 710-13-066

Acceptance limits (all compounds): 80 to 120 %

PARAMETER	SPIKE ADDED ug/L	SPIKED RESULT ug/L	SAMPLE RESULT ug/L	ASSAYED % REC.
Dichlorodifluoromethane	10			
Chloromethane	10			
Vinyl Chloride	10	10.4	<0.5	104
Bromomethane	10			
Chloroethane	10			
Trichlorofluoromethane	10			
1,1-Dichloroethene	10			
Methylene Chloride	10			
Trans-1,2-Dichloroethene	10	10.3	<0.5	103
1,1-Dichlroethane	10			
Dichloropropane	10			
Cis-1,2-Dichloroethene	10	10.4	<0.5	104
Bromochloromethane	10			
Chloroform	10			
1,1,1-Trichloroethane	10			
Carbon Tetrachloride	10			
1,1-Dichloropropene	10			
Benzene	10	10.0	<0.5	100
1,2-Dichloroethane	10			
Trichloroethene	10	9.9	<0.5	99
1,2-Dichloropropane	10			
Dibromomethane	10			
Bromodichloromethane	10			
Trans-1,3-Dichloropropene	10			
Toluene	10	9.9	<0.5	99
Cis-1,3-Dichloropropene	10			
1,1,2-Trichloroethane	10			
Tetrachloroethene	10	9.9	<0.5	99
1,3-Dichloropropane	10			
Dibromochloromethane	10			

DRINKING WATER SPIKE LIMITS, VOLATILES (page 2)

Date 10/16/97 Analyst(s) Eckland

Sample used as spike control: 710-13-066

Acceptance Limits (all compounds) : 80 to 120 %

PARAMETER	SPIKE ADDED ug/L	SPIKED RESULT ug/L	SAMPLE RESULT ug/L	ASSAYED % REC.
1,2-Dibromoethane	10			
Chlorobenzene	10			
1,1,1,2-Tetrachloroethane	10			
Ethyl benzene	10	10.1	<0.5	101
m,p-Xylenes	20	19.7	<0.5	98
o-Xylene	10	10.0	<0.5	100
Styrene	10			
Bromoform	10			
Isopropyl Benzene	10			
1,1,2,2-Tetrachloroethane	10			
Bromobenzene	10			
1,2,3-Trichloropropane	10			
N-propyl Benzene	10			
2-Chlorotoluene	10			
4-Chlorotoluene	10			
1,3,5-Trimethylbenzene	10			
tert-Butylbenzene	10			
1,2,4-Trimethylbenzene	10			
sec-Butylbenzene	10			
1,3-Dichlorobenzene	10			
p-Isopropyltoluene	10			
1,4-Dichlorobenzene	10			
1,2-Dichlorobenzene	10			
N-Butylbenzene	10			
1,2,4-Trichlorobenzene	10			
Naphthalene	10			
Hexachlorobutadiene	10			
1,2,3-Trichlorobenzene	10			

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 10/20/97 Analyst Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	710-13-403	106	104	102
	710-13-404	106	107	105
	710-13-405	107	104	104
	710-13-406	106	101	102
	710-13-407	99	90	94
	710-13-408	101	89	112
	710-13-409	109	110	106

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 10/30/97 Analyst Eckland

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5		223
Bromomethane	20	7.8-39.4		222
Vinyl chloride	20	1.5-41.7	19.0	232
Chloroethane	20	4.6-36.4		209
Methylene chloride	20	11.8-31.3		224
Acrolein	62	4.5-104.4		201
Acrylonitrile	58	13.2-115.2		202
1,1-Dichloroethene	20	11.3-32.1		216
1,1-Dichloroethane	20	15.5-27.8		214
trans-1,2-Dichloroethene	20	13.6-28.3	17.0	217
Chloroform	20	15.7-26.1		211
1,2-Dichloroethane	20	8.1-34.0		215
1,1,1-Trichloroethane	20	12.8-30.1		228
Carbon tetrachloride	20	8.0-27.8		206
Bromodichloromethane	20	9.8-29.7		212
1,2-Dichloropropane	20	14.7-28.2		218
trans-1,3-Dichloropropene	20	12.7-25.6		220
Trichloroethene	20	14.1-27.1	20.5	230
Benzene	20	14.3-27.8	21.8	203
Dibromochloromethane	20	4.8-29.2		208
1,1,2-Trichloroethane	20	14.3-28.2		229
cis-1,3-Dichloropropene	20	10.3-26.8		219
2-Chloroethyl vinyl ether	20	10.1-32.1		210
Bromoform	20	3.0-30.6		205
Tetrachloroethene	20	13.3-28.4	19.9	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1		225
Toluene	20	15.2-25.6	21.4	227
Chlorobenzene	20	11.5-28.6		207
Ethyl benzene	20	13.4-27.6	21.3	221
1,3-Dichlorobenzene	26	18.5-36.7		234
1,2-Dichlorobenzene	26	11.5-41.9		233
1,4-Dichlorobenzene	20	3.7-35.6		235
Diethyl Benzene	44	25.9-62.9		237
Ethyl Ether	35	26.9-49.5		236
Xylene	44	21.0-66.7	46.5	238
MEK	20	9.1-39.4		240
Acetone	20	9.6-38.0		242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 10/20/97 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7		243
Tetrahydrofuran	45	34.8-60.3		244
Carbondisulfide	20	11.0-30.4		245
Styrene	20	12.4-30.0		246
Vinyl Acetate	20	11.0-27.5		247
Amyl Acetate	44	14.7-64.6		248
Methyl Butyl Ketone	20	10.3-33.9		249
cis-1,2-Dichloroethene	20		20.3	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 10/20/97 Analyst Eckelmeyer

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	
Bromomethane	
Vinyl chloride	<2
Chloroethane	
Methylene chloride	
Acrolein	
Acrylonitrile	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<2
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	<2
Benzene	<2
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	<2
1,1,2,2-Tetrachloroethane	
Toluene	<2
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<2
2-Butanone - MEK	
4-Methyl-2-pentanone	
Acetone	
Syrene	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 10/20/97 Analyst Echlund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	
Vinyl Acetate	
2-Hexanone - MBK	
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<2

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 10/20/97 Analyst Eckland
Samples associated with this repeat control:

Sample used as repeat control: 710-17-071
AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = ug/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane						820
Bromomethane						819
Vinyl chloride	<2	<2		27	0	828
Chloroethane						807
Methylene chloride				17		821
Acrolein						800
Acrylonitrile						801
1,1-Dichloroethene						813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene	<2	<2		28	0	814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	<2	<2		32	0	827
Benzene	<2	<2		49	0	802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene	<2	<2		33	0	823
1,1,2,2-Tetrachloroethane						822
Toluene	<2	<2		38	0	824
Chlorobenzene				24		805
Ethyl benzene	<2	<2		5	0	818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone				26		836

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 10/20/97 Analyst Eklund
Samples associated with this repeat control:

Sample used as repeat control: 710-17-071
AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone						
MIBK						
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	<2	<2			0	
Xylene	<2	<2			0	

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 10/20/97 Analyst Eckland
Samples associated with this spiked control:

Sample used as spiked control: 710-17-075

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20			31-187		520
Bromomethane	20			34-207		519
Vinyl chloride	20	19	<2	26-183	95	528
Chloroethane	20			55-168		507
Methylene chloride	20			63-151		521
Acrolein	62			23-183		500
Acrylonitrile	58			52-186		501
1,1-Dichloroethene	20			52-159		513
1,1-Dichloroethane	20			73-144		511
trans-1,2-Dichloroethene	20	24	<2	64-151	120	514
Chloroform	20			68-142		509
1,2-Dichloroethane	20			54-155		512
1,1,1-Trichloroethane	20			59-158		525
Carbon tetrachloride	20			39-147		504
Bromodichloromethane	20			47-148		510
1,2-Dichloropropane	20			67-144		515
trans-1,3-Dichloropropene	20			56-141		517
Trichloroethene	20	20	<2	64-130	100	527
Benzene	20	20	<2	71-142	100	502
Dibromochloromethane	20			29-155		506
1,1,2-Trichloroethane	20			61-146		526
cis-1,3-Dichloropropene	20			46-149		516
2-Chloroethyl vinyl ether	20			7-183		508
Bromoform	20			10-149		503
Tetrachloroethene	20	19	<2	50-160	95	523
1,1,2,2-Tetrachloroethane	20			44-163		522
Toluene	20	20	<2	73-130	100	524
Chlorobenzene	20			72-131		505
Ethyl benzene	20	20	<2	62-139	100	518
1,3-Dichlorobenzene	26			60-161		530
1,2-Dichlorobenzene	26			45-157		529
1,4-Dichlorobenzene	20			36-174		531
Diethyl Benzene	44			71-137		533
Ethyl Ether	35			62-160		532
Xylenes	44	43	<2	72-130	98	534
MEK	20			63-179		536

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 10/20/97 Analyst Ecklund

Samples associated with this spiked control:

Sample used as spiked control: 710-17-075

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			72-154		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
cis-1,2-Dichloroethene	20	20	<2		100	

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

Page 1 of 2

LE DATE: 10/10/97

Sampled by G. Klawinski

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free-Col

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) 439-695-230
CONTACT: Gary Klawinski GZA

YPE: (E CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

LE DESCRIPTION: 1) Please test the following order: MW-12, MW-11, MW-13, MW-10 MW-9, MW-8, MW-6, MW-4, MW-3, MW-7. 2) Method 8240 for Trichloroethene, Tetrachloroethene, total 1,2 Dichloroethenes, and Vinyl chloride only for all samples. 3) Sample MW-3 8240 as noted above and BTEX compounds.

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
Cooler 1	MW-12	9^40	SW-846 Method 8240 (see note 2)	3
	MW-11	9^00		
	MW-13	9^20		
Cooler 2	MW-10	10^00		
	MW-9	10^15		
	MW-8	10^40		
	MW-6	12^30		
	MW-4	1^00		

M DETECTION LEVELS REQUIRED? NYSDEC drinking water level detection limits are required

LE INTERFERENCES: _____

SON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) (HRD PERSONNEL)
[signature] 10/10/97

BOTTLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)

TLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)

BOTTLES RECEIVED BY: (DATE/TIME) (LAB PERSONNEL)
William F Slater 10/13/97 1215

SAMPLE COLLECTED BY:

RECEIVED BY: (DATE, TIME, LAB SIGNATURE)
Susana Walsh 10/13/97 18:00

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

Page 2 of 2

LE DATE: 10/10/97

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

Sampled by C Klavinski

LABORATORY: Frog - col

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) 439-695-2300
CONTACT: Gary Klavinski

62A

LE TYPE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

PLE DESCRIPTION: See note on page 1

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
Godlor R	MW-3	1145	SW-846 Method 8240 (See note 2 and 3)	3
Cooley 1	MW-7	200	↓ (See note 2)	3
			Trip blank prepared by Frog-Col	2

M DETECTION LEVELS REQUIRED? _____

LE INTERFERENCES: _____

SON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) (HRD PERSONNEL)
Sam J Klavinski 10/10/97

BOTTLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)

TLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)

BOTTLES RECEIVED BY: (DATE/TIME) (LAB PERSONNEL)
William F Slater 10/13/97 1215

AMPLE COLLECTED BY:

RECEIVED BY: (DATE, TIME, LAB SIGNATURE)
Susan Walsh 10/13/97 18:00

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1468

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI THERMAL SYSTEMS
GENERAL MOTORS CORPORATION

GROUNDWATER SAMPLES

SAMPLE DATES: 12/01/98
P.O.# ACARD

Report reviewed and approved by:

John Paraska
Quality Assurance Supervisor

METHODS

PARAMETER	METHOD	SOURCE
Acid Digestion Prep	3005A	2
Methane	8015	2
Carbon, Total Organic	9060	2
Alkalinity	2320 B	20
Chloride	325.3	1
Nitrogen, Ammonia	350.2	1
Nitrate	353.2	22
Nitrite	353.2	22
Sulfate	9038	2
Sulfide	376.1	1
Calcium	7140	2
Iron ICP	6010 B	2
Magnesium	7450	2
Manganese	7460	2
Sodium ICP	6010 B	2
Potassium ICP	6010 B	2
Volatile Compounds	8260 B	2

SOURCE

1 - "Methods for Chemical Analysis of Water & Wastes", U.S. Environmental Protection Agency, EPA-600/4-79-020. Revised 1983.

2 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Update III, December, 1996.

20 - "Standard Methods for the Examination of Water and Wastewater", 18th Edition.

22 - "Methods for Chemical Analysis of Water & Wastes", U.S. Environmental Protection Agency, EPA-600/100. Revised 1993.

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-12	MW-11
		12/01/98	12/01/98
	LAB ID	81202414	81202415
	DATE RECEIVED:	12/02/98	12/02/98
1,2-DICHLOROETHENE MG/L		0.047	0.013
VOLATILE SET-UP		COMPLETE	COMPLETE
VINYL CHLORIDE MG/L		0.088	0.0046
METHANE MG/L		0.5	0.01
ACID DIGESTION PREP		COMPLETE	COMPLETE
T.O.C. MG/L		7	17
ALKALINITY MG/L		284	275
NH3-N DISTILLED MG/L		0.94	0.58
CHLORIDE MG/L		294	188
NO3-N MG/L		0.48	0.17
NO2-N MG/L		<0.05	<0.05
SULFATE MG/L		73	110
SULFIDE MG/L		0.2	0.2

Please reference the following page(s) for date and analyst.

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW-12	MW-11
		12/01/98	12/01/98
	LAB ID	81202414	81202415
	DATE RECEIVED:	12/02/98	12/02/98
TRICHLOROETHYLENE	MG/L	<0.0005	<0.0005
PERCHLOROETHYLENE	MG/L	<0.0005	<0.0005

Please reference the following page(s) for date and analyst.

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-10
12/01/98

LAB ID 81202416
DATE RECEIVED: 12/02/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
1,2-Dichloroethene	1.3	MG/L	12/08/98	ECKLUND
Volatile Set-up	COMPLETE			
Vinyl Chloride	0.11	MG/L	12/08/98	ECKLUND
Methane	0.23	MG/L	12/08/98	WILLIAMS
Acid Digestion Preparation	COMPLETE		12/03/98	CONLEY
Carbon, Total Organic	11	MG/L	12/08/98	PEARSON
Alkalinity	320	MG/L	12/09/98	ADSIT
Nitrogen,Ammonia (distilled)	0.32	MG/L	12/14/98	L. PARASKA/ J. PARASKA
Chloride	1,220	MG/L	12/07/98	ADSIT/ VROBEL
Nitrogen, Nitrate	0.19	MG/L	12/04/98	PEARSON
Nitrogen, Nitrite	<0.05	MG/L	12/02/98	PEARSON

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EMAIL: freecol@toolcity.net

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LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-10
12/01/98

LAB ID 81202416
DATE RECEIVED: 12/02/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Sulfate	270	MG/L	12/09/98	KOZAKOVSKY
Sulfide	0.2	MG/L	12/09/98	L. PARASKA/ ADSIT
Trichloroethylene	0.46	MG/L	12/08/98	ECKLUND
Perchloroethylene	0.016	MG/L	12/08/98	ECKLUND

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FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/16/98

TO:

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ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
12/01/98

LAB ID 81202417
DATE RECEIVED: 12/02/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
1,2-Dichloroethene	<0.0005	MG/L	12/08/98	ECKLUND
Volatile Set-up	COMPLETE			
Vinyl Chloride	<0.0005	MG/L	12/08/98	ECKLUND
Trichloroethylene	<0.0005	MG/L	12/08/98	ECKLUND
Perchloroethylene	<0.0005	MG/L	12/08/98	ECKLUND

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FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-12	MW-11
		12/01/98	12/01/98
		DIGESTION	DIGESTION
	LAB ID	81202418	81202419
	DATE RECEIVED:	12/02/98	12/02/98
CALCIUM MG/L		119	122
IRON ICP MG/L		7.48	1.00
MAGNESIUM MG/L		26.8	39.0
MANGANESE MG/L		4.41	0.11
SODIUM ICP MG/L		183	116
POTASSIUM ICP MG/L		4.10	8.88

Please reference the following page(s) for date and analyst.

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200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-10
12/01/98
DIGESTION
LAB ID 81202420
DATE RECEIVED: 12/02/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Calcium	310	MG/L	12/09/98	PRUTZMAN
Iron ICP	1.95	MG/L	12/04/98	BAKER
Magnesium	54.6	MG/L	12/10/98	PRUTZMAN
Manganese	2.30	MG/L	12/04/98	PRUTZMAN
Sodium ICP	584	MG/L	12/11/98	PRUTZMAN
Potassium ICP	13.4	MG/L	12/10/98	PRUTZMAN

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FREE-COL LABORATORIES, LTD.

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EMAIL: freecol@toolcity.net

12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER			
	SAMPLE ID :	MW-12	MW-11
		12/01/98	12/01/98
		FIELD FILT	FIELD FILT
	LAB ID	81202421	81202422
	DATE RECEIVED:	12/02/98	12/02/98
CALCIUM (DISS.) MG/L		104	97.3
IRON ICP (DISS.) MG/L		4.01	0.26
MAGNESIUM (DISS.) MG/L		25.3	36.4
MANGANESE (DISS.) MG/L		4.40	0.08
SODIUM ICP DISS.MG/L		197	129
POTASSIUM (DISS)MG/L		3.81	10.1

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, LTD.

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12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-10
12/01/98
FIELD FILT
LAB ID 81202423
DATE RECEIVED: 12/02/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Calcium (diss.)	305	MG/L	12/03/98	PRUTZMAN
Iron ICP (diss.)	0.76	MG/L	12/04/98	BAKER
Magnesium (diss.)	85.5	MG/L	12/10/98	PRUTZMAN
Manganese (diss.)	2.07	MG/L	12/04/98	PRUTZMAN
Sodium ICP (diss.)	645	MG/L	12/11/98	PRUTZMAN
Potassium (diss.)	13.2	MG/L	12/10/98	PRUTZMAN

Some of the dissolved metal values in this report exceed the digested metal values for the same sample. These variations are within normal analytical limits.

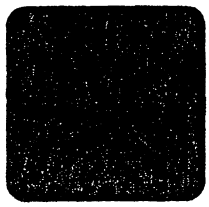
John R Paraska

QUALITY ASSURANCE SUPERVISOR

pc: GZA

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1468



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

Delphi Harrison Thrm. Sys. Sample Identification	Free-Col ID
MW-12 12/01/98	81202414
MW-11 12/01/98	81202415
MW-10 12/01/98	81202416
TRIP BLANK 12/01/98	81202417
MW-12 12/01/98 DIGESTION	81202418
MW-11 12/01/98 DIGESTION	81202419
MW-10 12/01/98 DIGESTION	81202420
MW-12 12/01/98 FIELD FILT	81202421
MW-11 12/01/98 FIELD FILT	81202422
MW-10 12/01/98 FIELD FILT	81202423
MW-6 12/02/98 DIGESTION	81202424

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 12/8/98 Analyst Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	812-02-414	101	102	99
	812-02-415	94	99	93
	812-02-416	103	97	102
	812-02-417	93	98	97

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 12/3/98 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5		223
Bromomethane	20	7.8-39.4		222
Vinyl chloride	20	1.5-41.7	18.5	232
Chloroethane	20	4.6-36.4		209
Methylene chloride	20	11.8-31.3		224
Acrolein	62	4.5-104.4		201
Acrylonitrile	58	13.2-115.2		202
1,1-Dichloroethene	20	11.3-32.1		216
1,1-Dichloroethane	20	15.5-27.8		214
trans-1,2-Dichloroethene	20	13.6-28.3	20.5	217
Chloroform	20	15.7-26.1		211
1,2-Dichloroethane	20	8.1-34.0		215
1,1,1-Trichloroethane	20	12.8-30.1		228
Carbon tetrachloride	20	8.0-27.8		206
Bromodichloromethane	20	9.8-29.7		212
1,2-Dichloropropane	20	14.7-28.2		218
trans-1,3-Dichloropropene	20	12.7-25.6		220
Trichloroethene	20	14.1-27.1	21.1	230
Benzene	20	14.3-27.8		203
Dibromochloromethane	20	4.8-29.2		208
1,1,2-Trichloroethane	20	14.3-28.2		229
cis-1,3-Dichloropropene	20	10.3-26.8		219
2-Chloroethyl vinyl ether	20	10.1-32.1		210
Bromoform	20	3.0-30.6		205
Tetrachloroethene	20	13.3-28.4	17.5	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1		225
Toluene	20	15.2-25.6		227
Chlorobenzene	20	11.5-28.6		207
Ethyl benzene	20	13.4-27.6		221
1,3-Dichlorobenzene	26	18.5-36.7		234
1,2-Dichlorobenzene	26	11.5-41.9		233
1,4-Dichlorobenzene	20	3.7-35.6		235
Diethyl Benzene	44	25.9-62.9		237
Ethyl Ether	35	26.9-49.5		236
Xylene	44	21.0-66.7		238
MEK	20	9.1-39.4		240
Acetone	20	9.6-38.0		242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 12/8/98 Analyst Eckland

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7		243
Tetrahydrofuran	45	34.8-60.3		244
Carbondisulfide	20	11.0-30.4		245
Styrene	20	12.4-30.0		246
Vinyl Acetate	20	11.0-27.5		247
Amyl Acetate	44	14.7-64.6		248
Methyl Butyl Ketone	20	10.3-33.9		249
cis-1,2-DCE	20		21.4	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 12/8/98 Analyst Eckland

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	
Bromomethane	
Vinyl chloride	<2
Chloroethane	
Methylene chloride	
Acrolein	
Acrylonitrile	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<2
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	<2
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	<2
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	
2-Butanone - MEK	
4-Methyl-2-pentanone	
Acetone	
Syrene	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 12/8/98 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	
Vinyl Acetate	
2-Hexanone - MBK	
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<2

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 12/8/98 Analyst Eckhardt

Samples associated with this spiked control:

Sample used as spiked control: 812-03-110

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20			31-187		520
Bromomethane	20			34-207		519
Vinyl chloride	20	19	<2	26-183	95	528
Chloroethane	20			55-168		507
Methylene chloride	20			63-151		521
Acrolein	62			23-183		500
Acrylonitrile	58			52-186		501
1,1-Dichloroethene	20			52-159		513
1,1-Dichloroethane	20			73-144		511
trans-1,2-Dichloroethene	20	21	<2	64-151	105	514
Chloroform	20			68-142		509
1,2-Dichloroethane	20			54-155		512
1,1,1-Trichloroethane	20			59-158		525
Carbon tetrachloride	20			39-147		504
Bromodichloromethane	20			47-148		510
1,2-Dichloropropane	20			67-144		515
trans-1,3-Dichloropropene	20			56-141		517
Trichloroethene	20	23	<2	64-130	115	527
Benzene	20			71-142		502
Dibromochloromethane	20			29-155		506
1,1,2-Trichloroethane	20			61-146		526
cis-1,3-Dichloropropene	20			46-149		516
2-Chloroethyl vinyl ether	20			7-183		508
Bromoform	20			10-149		503
Tetrachloroethene	20	17	<2	50-160	85	523
1,1,2,2-Tetrachloroethane	20			44-163		522
Toluene	20			73-130		524
Chlorobenzene	20			72-131		505
Ethyl benzene	20			62-139		518
1,3-Dichlorobenzene	26			60-161		530
1,2-Dichlorobenzene	26			45-157		529
1,4-Dichlorobenzene	20			36-174		531
Diethyl Benzene	44			71-137		533
Ethyl Ether	35			62-160		532
Xylenes	44			72-130		534
MEK	20			63-179		536

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 12/8/98 Analyst Eckland

Samples associated with this spiked control:

Sample used as spiked control: 812-03-110

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			72-154		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
CIS-1,2-DCE	20	23	<2		115	

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 12/8/98 Analyst Ecklund

Samples associated with this repeat control:

Sample used as repeat control: 812-02-414

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane						820
Bromomethane						819
Vinyl chloride	88	84		27	4.6%	828
Chloroethane						807
Methylene chloride				17		821
Acrolein						800
Acrylonitrile						801
1,1-Dichloroethene						813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene	<0.5	<0.5		28	0	814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	<0.5	<0.5		32	0	827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene	<0.5	<0.5		33	0	823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone				26		836

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 12/8/98 Analyst Ecklund
Samples associated with this repeat control:

Sample used as repeat control: 812-02-414
AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone						
MIBK						
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	47	45			4.3 %	
Xylene						
Vinyl Acetate						

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

page 1 of 2

TE: 12/1/98

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~438~~ 685-2300
CONTACT: Gary Klawinski (62A)

Samples collected by Tom Seider / Gary Klawinski

LABORATORY: Free-Col

PE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE.
9) OTHER _____

ESCRIPTION: Groundwater Samples

E #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE ~~LOT #~~ (OPTIONAL)
	MW-12	11^12	See attached table	
	MW-11	13^40	"	
	MW-10	15^50	"	
	Trip Blank		with first cooler, See attached table	

JM DETECTION LEVELS REQUIRED? NYSDEC Drinking water level detection limits required.

BLE INTERFERENCES: _____

ON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]
12/1/98

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
Bill Slater 12/2/98 10:40 Am

E COLLECTED BY:

RECEIVED BY: [DATE, TIME, LAB SIGNATURE]
Joni Watt 12-2-98

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI THERMAL SYSTEMS
GENERAL MOTORS CORPORATION

GROUNDWATER SAMPLES

SAMPLE DATES: 12/02/98
P.O.# ACARD

Report reviewed and approved by:

John Paraska
Quality Assurance Supervisor

METHODS

PARAMETER	METHOD	SOURCE
Acid Digestion Prep	3005A	2
Methane	8015	2
Carbon, Total Organic	9060	2
Alkalinity	2320 B	20
Chloride	325.3	1
Nitrogen, Ammonia	350.2	1
Nitrate	353.2	22
Nitrite	353.2	22
Sulfate	9038	2
Sulfide	376.1	1
Calcium	7140	2
Iron ICP	6010 B	2
Magnesium	7450	2
Manganese	7460	2
Sodium ICP	6010 B	2
Potassium ICP	6010 B	2
Volatile Compounds	8260 B	2

SOURCE

1 - "Methods for Chemical Analysis of Water & Wastes", U.S. Environmental Protection Agency, EPA-600/4-79-020. Revised 1983.

2 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Update III, December, 1996.

20 - "Standard Methods for the Examination of Water and Wastewater", 18th Edition.

22 - "Methods for Chemical Analysis of Water & Wastes", U.S. Environmental Protection Agency, EPA-600/100. Revised 1993.

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3S	MW-4	MW-6
		12/03/98	12/02/98	12/02/98
	LAB ID	81203400	81203401	81203402
	DATE RECEIVED:	12/03/98	12/03/98	12/03/98
1,2-DICHLOROETHENE MG/L		240	110	16
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE
VINYL CHLORIDE MG/L		2.3	12	0.76
METHANE MG/L		0.1	2.9	0.84
ACID DIGESTION PREP		COMPLETE	COMPLETE	COMPLETE
T.O.C. MG/L		28	19	9
ALKALINITY MG/L		487	354	319
NH3-N DISTILLED MG/L		0.26	1.23	0.45
CHLORIDE MG/L		173	986	897
NO3-N MG/L		0.41	0.30	0.22
NO2-N MG/L		<0.05	<0.05	<0.05
SULFATE MG/L		2	120	160
SULFIDE MG/L		0.3	0.2	0.2

Please reference the following page(s) for date and analyst.

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID :	MW-3S	MW-4	MW-6
			12/03/98	12/02/98	12/02/98
		LAB ID	81203400	81203401	81203402
		DATE RECEIVED:	12/03/98	12/03/98	12/03/98
TRICHLOROETHYLENE	MG/L		0.73	21	18
PERCHLOROETHYLENE	MG/L		<0.02 D	<0.2 D	60
BENZENE	MG/L		1.7	<0.2 D	*
TOLUENE	MG/L		1.2	<0.2 D	*
ETHYLBENZENE	MG/L		1.2	<0.2 D	*
XYLENE	MG/L		1.8	<0.2 D	*

*NOT REQUIRED

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-7	MW-8	MW-9
		12/03/98	12/02/98	12/02/98
	LAB ID	81203403	81203404	81203405
	DATE RECEIVED:	12/03/98	12/03/98	12/03/98
1,2-DICHLOROETHENE MG/L		55	1.6	2.5
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE
VINYL CHLORIDE MG/L		4.2	0.062	0.030
METHANE MG/L		0.06	0.09	0.04
ACID DIGESTION PREP		COMPLETE	COMPLETE	COMPLETE
T.O.C. MG/L		36	12	3
ALKALINITY MG/L		376	300	309
NH3-N DISTILLED MG/L		1.43	0.40	0.23
CHLORIDE MG/L		944	138	640
NO3-N MG/L		0.29	<0.05	0.25
NO2-N MG/L		<0.05	<0.05	<0.05
SULFATE MG/L		200	550	680
SULFIDE MG/L		0.4	0.2	<0.1

Please reference the following page(s) for date and analyst.

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW-7	MW-8	MW-9
		12/03/98	12/02/98	12/02/98
	LAB ID	81203403	81203404	81203405
	DATE RECEIVED:	12/03/98	12/03/98	12/03/98
TRICHLOROETHYLENE	MG/L	570	0.22	1.9
PERCHLOROETHYLENE	MG/L	<0.2 D	0.012	0.066

Please reference the following page(s) for date and analyst.

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/13/98

TO:

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200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : DUP#1
12/02/98

LAB ID 81203406
DATE RECEIVED: 12/03/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
1,2-Dichloroethene	120	MG/L	12/09/98	ECKLUND
Volatile Set-up	COMPLETE			
Vinyl Chloride	13	MG/L	12/09/98	ECKLUND
Methane	5.5	MG/L	12/08/98	WILLIAMS
Acid Digestion Preparation	COMPLETE		12/04/98	LINZ
Carbon, Total Organic	8	MG/L	12/08/98	PEARSON
Alkalinity	368	MG/L	12/09/98	ADSIT
Nitrogen,Ammonia (distilled)	1.57	MG/L	12/10/98	L. PARASKA
Chloride	971	MG/L	12/07/98	ADSIT/ VROBEL
Nitrogen, Nitrate	0.05	MG/L	12/04/98	PEARSON
Nitrogen, Nitrite	<0.05	MG/L	12/03/98	PEARSON

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : DUP#1
12/02/98

LAB ID 81203406
DATE RECEIVED: 12/03/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Sulfate	120	MG/L	12/09/98	KOZAKOVSKY
Sulfide	0.2	MG/L	12/09/98	L. PARASKA/ ADSIT
Trichloroethylene	20	MG/L	12/09/98	ECKLUND
Perchloroethylene	<0.2 D	MG/L	12/09/98	ECKLUND

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/13/98

TO:

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ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK

LAB ID 81203407
DATE RECEIVED: 12/03/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
1,2-Dichloroethene	<0.0005	MG/L	12/09/98	ECKLUND
Vinyl Chloride	<0.0005	MG/L	12/09/98	ECKLUND
Trichloroethylene	<0.0005	MG/L	12/09/98	ECKLUND
Perchloroethylene	<0.0005	MG/L	12/09/98	ECKLUND
Benzene	<0.0005	MG/L	12/09/98	ECKLUND
Toluene	<0.0005			
Ethylbenzene	<0.0005			
Xylene	<0.0005			

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200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID : / LAB ID / DATE RECEIVED:	MW-3S 12/03/98 DIGESTION 81203408 12/03/98	MW-4 12/02/98 DIGESTION 81203409 12/03/98	MW-6 12/02/98 DIGESTION 81203410 12/03/98
CALCIUM MG/L		238	503	161
IRON ICP MG/L		7.31	0.58	7.98
MAGNESIUM MG/L		35.6	105	35.6
MANGANESE MG/L		1.31	0.40	0.48
SODIUM ICP MG/L		67.1	282	619
POTASSIUM ICP MG/L		5.46	13.3	9.64

Please reference the following page(s) for date and analyst.

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P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID : / LAB ID / DATE RECEIVED:	MW-7 12/03/98 DIGESTION 81203411 12/03/98	MW-8 12/02/98 DIGESTION 81203412 12/03/98	MW-9 12/02/98 DIGESTION 81203413 12/03/98
CALCIUM MG/L		382	215	330
IRON ICP MG/L		0.14	0.33	0.33
MAGNESIUM MG/L		118	76	89
MANGANESE MG/L		<0.01	0.31	1.74
SODIUM ICP MG/L		288	102	444
POTASSIUM ICP MG/L		20.5	6.31	5.52

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TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
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LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : DUP.#1
12/02/98
DIGESTION
LAB ID 81203414
DATE RECEIVED: 12/03/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Calcium	431	MG/L	12/09/98	PRUTZMAN
Iron ICP	0.59	MG/L	12/09/98	BAKER
Magnesium	107	MG/L	12/10/98	PRUTZMAN
Manganese	0.39	MG/L	12/07/98	PRUTZMAN
Sodium ICP	282	MG/L	12/11/98	PRUTZMAN
Potassium ICP	13.2	MG/L	12/09/98	PRUTZMAN

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LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3S	MW-4	MW-6
		12/03/98	12/02/98	12/02/98
		FLD.FILTER	FLD.FILTER	FLD.FILTER
	LAB ID	81203415	81203416	81203417
	DATE RECEIVED:	12/03/98	12/03/98	12/03/98
CALCIUM (DISS.) MG/L		223	443	156
IRON ICP (DISS.) MG/L		6.84	0.51	1.13
MAGNESIUM (DISS.) MG/L		31.8	106	28.8
MANGANESE (DISS.) MG/L		1.17	0.32	0.29
SODIUM ICP DISS.MG/L		66.5	293	638
POTASSIUM (DISS)MG/L		4.71	12.8	9.51

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LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-7 12/03/98 FLD.FILTER 81203418 12/03/98	MW-8 12/02/98 FLD.FILTER 81203419 12/03/98	MW-9 12/02/98 FLD.FILTER 81203420 12/03/98
CALCIUM (DISS.) MG/L		375	227	300
IRON ICP (DISS.) MG/L		0.02	0.17	<0.01
MAGNESIUM (DISS.) MG/L		136	78	84.5
MANGANESE (DISS.) MG/L		<0.01	0.32	0.93
SODIUM ICP DISS.MG/L		351	114	445
POTASSIUM (DISS)MG/L		23.0	6.67	5.91

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

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12/16/98

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : DUP.#1
12/02/98
FLD.FILTER
LAB ID 81203421
DATE RECEIVED: 12/03/98

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Calcium (diss.)	335	MG/L	12/09/98	PRUTZMAN
Iron ICP (diss.)	0.52	MG/L	12/04/98	BAKER
Magnesium (diss.)	100	MG/L	12/10/98	PRUTZMAN
Manganese (diss.)	0.34	MG/L	12/04/98	PRUTZMAN
Sodium ICP (diss.)	306	MG/L	12/11/98	PRUTZMAN
Potassium (diss.)	13.5	MG/L	12/09/98	PRUTZMAN

Some of the dissolved metal values in this report exceed the digested metal values for the same sample. These variations are within normal analytical limits.

John R Paraska

QUALITY ASSURANCE SUPERVISOR

pc: GZA

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

Page 1 of 2

DATE: 12/2/98

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

Samples Collected by Tom Seider / Daniel Troy

LABORATORY: Frec-Col

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 625-2300
CONTACT: Gary Klawinski (GZA)

TYPE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

LE DESCRIPTION: Groundwater Samples

AMPLED	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE ~~LOT #~~ ~~(OPTIONAL)~~
12/2/98	MW-9	0810	See attached table	
12/2/98	MW-4	1010	"	
12/2/98	MW-8	1130	"	
12/2/98	MW-6	1240	"	
12/2/98	Dup#1	—	"	
12/2/98	Trip Blank			
12/3/98	MW-35	1100	See attached table	
12/3/98	MW-7	1200	"	

M DETECTION LEVELS REQUIRED? NYSDEC Drinking Water level detection limits required.

SI LE INTERFERENCES: _____

SON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

TLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]
2. Kelly M. Watson 12/3/98 1437

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
Bill Slate 12/3/98 1437

SAMPLE COLLECTED BY:

RECEIVED BY: [DATE, TIME, LAB SIGNATURE]
Laura Gibson 12/3 17:35

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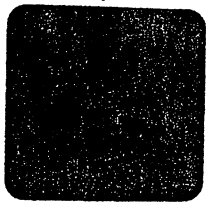
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466



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CODE KEYS FOR ANALYTICAL REPORT FORMS

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%.

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%.

WF: Will Follow

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit but greater than zero.

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Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

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QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

Delphi Harrison Thrm. Sys. Sample Identification	Free-Col ID
MW-3S 12/03/98	81203400
MW-4 12/02/98	81203401
MW-6 12/02/98	81203402
MW-7 12/03/98	81203403
MW-8 12/02/98	81203404
MW-9 12/02/98	81203405
DUP#1 12/02/98	81203406
TRIP BLANK	81203407
MW-3S 12/03/98 DIGESTION	81203408
MW-4 12/02/98 DIGESTION	81203409
MW-6 12/02/98 DIGESTION	81203410
MW-7 12/03/98 DIGESTION	81203411
MW-8 12/02/98 DIGESTION	81203412
MW-9 12/02/98 DIGESTION	81203413
DUP. #1 12/02/98 DIGESTION	81203414
MW-3S 12/03/98 FLD. FILTER	81203415
MW-4 12/02/98 FLD. FILTER	81203416
MW-6 12/02/98 FLD. FILTER	81203417

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Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1468

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QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

Delphi Harrison Thrm. Sys. Sample Identification	Free-Col ID
MW-7 12/03/98 FLD. FILTER	81203418
MW-8 12/02/98 FLD. FILTER	81203419
MW-9 12/02/98 FLD. FILTER	81203420
DUP. #1 12/02/98 FLD. FILTER	81203421

QUALITY CONTROL DATA I

12/8/98→

PARAMETER: Alkalinity ANALYST: G. Adsit DATE: 12/10/98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits						
20	15 to 30	23	22	23	20	✓	
200	191 to 208	198	200	✓			

PREPARATION REFERENCE CONTROL Units: mg/L

Target: _____ Acceptance Limits: _____ to _____

Assayed Value: _____, _____, _____

Date Prepped: _____, _____, _____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 4 Acceptable RPD: 5.6 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-02-014	62	62	0	— ✓ %
812-03-049	64 ✓	61 ✓	3	0 %
812-05-002	62	62	0	— %
812-07-027	64	63	1	— %
812-08-026	62	64	2	—

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: _____ % to _____ %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery

BLANK Units: mg/L Lab Blank: 3 ✓

Results: _____, _____, _____, _____, _____ Date Prepped: 12/8/98

DETECTION LIMIT Units: mg/L

Limit Value: 2 Assayed Value: 3, 3, 3, 2

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Ammonia Nitrogen ANALYST: LSP DATE: 12/10/98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
2	1.37 to 2.73	_____,	_____,	_____,	_____,	_____
_____	7.28 to 11.74	9.76,	9.85,	11.6,	_____,	_____

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits		Assayed Value:			
10	7.2	to 10.1	9.12,	_____,	_____	
			Date Prepped:	12/8/98,	_____,	_____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L from ISE probe reading

Acceptable AD: 0.06 Acceptable RPD: 20.1 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-01-400	0.40 (1.67)	0.36	0.04	_____ %
811-23-083	0.11	0.11	0	_____ %
_____	_____	_____	_____	_____ %
_____	_____	_____	_____	_____ %

SPIKE CONTROL Units: mg/L from I.S.E. probe reading

Acceptable Limits for Percent Recovery: 72 % to 128 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-400	10	9.92	0.26	97
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

BLANK Units: mg/L Lab Blank: 0.05

Results: _____, _____, _____, _____, _____ Date Prepped: 12/8/98

DETECTION LIMIT Units: mg/L

Limit Value: 0.03 Assayed Value: 0.03, _____, _____

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Calcium ANALYST: [signature] DATE: 12-9-98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
1	0.89 to 1.12	1.00	1.02			
10	8.91 to 10.93	9.95				

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
10	6.45 to 10.69	9.17		
		Date Prepped:	12-3-98	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.1 Acceptable RPD: 2.5 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-02-418 (5X)	23.77	23.72	0.05	— %
812-04-074 (3X)	23.06	23.36	0.30	1.3 %
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 59 % to 121 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-02-421 (20X)	9.82	23.72	16.75	99
812-03-414 (20X)	9.82	30.46	21.55	91

BLANK Units: mg/L Lab Blank: <0.05

Results: 0.01, 0.00, 0.00, , Date Prepped: 12-3-98

DETECTION LIMIT Units: mg/L

Limit Value: 0.05 Assayed Value: 0.05, ,

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Chloride ANALYST: G. Adsit / R. Vrdoljak DATE: 12-7-98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
60	56.6 to 61.7	57.7	57.7	57.7	✓	
	to					

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits		Assayed Value:		
	to		Date Prepped:		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 1 Acceptable RPD: 16.4 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
811-23-083	13.1	13.1	0 ✓	— %
811-24-033	22.6	22.6	0 ✓	— %
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 84 % to 120 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
811-23-083	10	23.6	13.1 ✓	105 ✓

BLANK Units: mg/L Lab Blank: <0.5

Results: , , , , Date Prepped:

DETECTION LIMIT Units: mg/L

Limit Value: 0.5 Assayed Value: 0.5 , ,

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Iron ICP ANALYST: BAKER DATE: 12-4-9

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
5.00	4.75 to 5.25	4.97	4.78	5.05	4.91	4.84
	to	4.88				

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
5.00	4.50 to 5.50	4.93		
		Date Prepped:	12-3-98	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.02 Acceptable RPD: 17.6 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-01-022	4.66	4.57	0.09	2.0 %
812-02-047	1.35	1.37	0.02	— %
812-02-408	0.79	0.76	0.03	3.9 %
812-03-021	0.11	0.11	0.00	— %
812-03-415	0.84	0.77	0.07	1.0

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 85 % to 109 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-01-052	4.99	5.87	1.06	96
812-02-087	4.99	5.20	0.422	96
812-02-409	4.99	7.57	2.56	100
812-03-416	4.99	5.33	0.509	97

BLANK Units: mg/L Lab Blank: <0.01

Results: 0.008, 0.009, 0.010, 0.013, 0.004 Date Prepped: 12-3-98

DETECTION LIMIT Units: mg/L

Limit Value: 0.01 Assayed Value: 0.010

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Manganese ANALYST: V Hutzman DATE: 12-7-98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
0.2	0.15 to 0.25	0.18	0.19	0.18		
10	9.29 to 10.83					

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
5	4.56 to 5.81	5.61		
		Date Prepped:	12-4-98	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.02 Acceptable RPD: 12.8 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-03-408	1.31	1.33	0.02	— %
818-04-041 (2x)	4.47	4.52	0.05	1.1 %
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 89 % to 113 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-068	4.96	4.85	-0.01	99

BLANK Units: mg/L Lab Blank: <0.01

Results: 0.00, 0.00, 0.00, , Date Prepped: 12-4-98

DETECTION LIMIT Units: mg/L

Limit Value: 0.01 Assayed Value: 0.01, ,

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(814) 724-6242
LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Magnesium ANALYST: V Hutzman DATE: 12-10-98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
1	0.90 to 1.11	0.95	0.97	0.95	0.97	
	to					

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
1	0.90 to 1.20	1.00	1.02	
		Date Prepped:	12/3/98	12/4/98

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.06 Acceptable RPD: 4.8 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-02-418 (10X)	2.68	2.62	0.06	— %
812-03-412 (50X)	1.52	1.49	0.03	— %
812-03-424	0.13	0.15	0.02	— %
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 84 % to 121 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-410	0.96	2.72	1.78	98
812-03-419 (50X)	0.96	2.57	1.56	105

BLANK Units: mg/L Lab Blank: <0.03 <0.03

Results: 0.00, 0.00, 0.00, 0.00, Date Prepped: 12/3/98 12/4/98

DETECTION LIMIT Units: mg/L

Limit Value: 0.03 Assayed Value: 0.03

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(814) 724-6242
LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Methane ANALYST: Alice Williams DATE: 12/8/97

REFERENCE CONTROL UNITS: ppm

Target	Acceptance Limits			
15.0	12.2	to 18.1	15, 16.6, ____, ____	
____	____	to ____	____, ____, ____, ____	
____	____	to ____	____, ____, ____, ____	

PREPARATION REFERENCE CONTROL Units: ____

Target	Acceptance Limits		Assayed Value:	Date Prepped:
____	____	to ____	____, ____, ____	____, ____, ____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: ppm Acceptable AD: 10 Acceptable RPD: 12 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-03-401 10X dil	100	100	—	____ %
____	____	____	____	____ %
____	____	____	____	____ %
____	____	____	____	____ %
____	____	____	____	____ %

SPIKE CONTROL Units: ppm
Acceptable Limits for Percent Recovery: 25 % to 158 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-117 17X dil	5.9	105.1 diluted too much	103.7	240% %
____	____	____	____	____ %
H2O spike	~~5.88~~ 14.3	14.3	<5	100% %
____	____	____	____	____ %

BLANK Units: ppm Lab Blank Air

Results: <5, ____, ____, ____ Date Prepped ____

DETECTION LIMIT Units: ppm

Limit Value: 5 Assayed Value: 4.7, ____, ____

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(814) 724-6242
LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Nitrite Nitrogen ANALYST: PEARSON DATE: 12/3/98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits						
0.1	0.08	to 0.10	0.09	0.10	0.10		
		to					

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits		Assayed Value:		
		to	Date Prepped:		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.1 Acceptable RPD: 7.2 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
				%
812-03-402	<0.05	<0.05	—	%
				%
812-03-406	<0.05	<0.05	—	%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 84 % to 124 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-3093	0.50	0.53	<0.05	106

BLANK Units: mg/L Lab Blank: <0.05

Results: , , , , Date Prepped:

DETECTION LIMIT Units: mg/L

Limit Value: 0.05 Assayed Value: 0.05 , ,

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Nitrate Nitrogen ANALYST: PEARSON DATE: 12/4/98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits		
0.8	0.76 to 0.89	0.82, 0.80, 0.80, 0.80, 0.80	✓
	to	0.81	

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits		
	to	Assayed Value:	
	to	Date Prepped:	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.1 Acceptable RPD: 9.4 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
811-19-080 (10X)	1.17	1.15	0.02	✓
811-25-075 (10X)	1.12	1.10	0.02	%
812-02-416	0.19	0.18	0.01	%
812-03-400	0.41	0.37	0.04	%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 83 % to 126 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
811-23-092	0.50	0.56	0.06	100 ✓
812-01-034	0.50	0.57	<0.05	114
812-02-415	0.50	0.71	0.17	108

BLANK Units: mg/L Lab Blank: <0.05

Results: , , , , Date Prepped:

DETECTION LIMIT Units: mg/L

Limit Value: 0.05 Assayed Value: 0.05 , ,

1.00/1.00 x100 = 100% COLUMN EFFICIENCY

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QUALITY CONTROL DATA I

PARAMETER: Potassium - ICP **ANALYST:** [signature] **DATE:** 12-9 98 / 12-10-98

REFERENCE CONTROL **Units:** mg/L

Target	Acceptance Limits					
5.00	4.75 to 5.25	24.6	25.0	24.6	24.1	
25.0	23.75 to 26.25					

PREPARATION REFERENCE CONTROL **Units:** mg/L

Target	Acceptance Limits	Assayed Value:			Date Prepped:		
5.00	4.50 to 5.50	4.50			12-3-98		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.2 **Acceptable RPD:** Not Est. %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-02-418	4.1	3.9	0.2	— %
812-03-419	6.7	6.6	0.1	— %
				%
				%

SPIKE CONTROL **Units:** mg/L

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-02-419	9.85	18.6	8.88	99
812-03-420	9.85	16.7	5.91	110

BLANK **Units:** mg/L **Lab Blank:** <0.1

Results: 0.036, -0.014, -0.030, -0.083, _____ **Date Prepped:** 12/3/98

DETECTION LIMIT **Units:** mg/L

Limit Value: 0.1 **Assayed Value:** 0.085, _____, _____

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LIMITS IN EFFECT AS OF JULY 1, 1998

QUALITY CONTROL DATA I

PARAMETER: Sodium - ICP **ANALYST:** V Rawson **DATE:** 12-11-9

REFERENCE CONTROL **Units:** mg/L

Target	Acceptance Limits	
50.0	47.5 to 52.5	48.0, 48.9, 51.8, 49.5, 47.5
	to	

PREPARATION REFERENCE CONTROL **Units:** mg/L

Target	Acceptance Limits		
		Assayed Value:	9.96, 9.29,
		Date Prepped:	12/3/98, 12/10/98,

REPEAT CONTROL **AD = Absolute Difference** **RPD = Relative Percent Difference**

Units: mg/L

Acceptable AD: 0.6 **Acceptable RPD:** Not Est. %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-02-418	183	178	5.0	2.8 %
812-03-419	114	113	1.0	0.9 %
812-08-050	78.1	75.0	3.1	4.0 %
812-02-420(10x)	58.4	55.4	3.0	5.3 %

SPIKE CONTROL **Units:** mg/L

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-08-057	9.96	23.5	13.2	103
812-09-033	9.96	22.5	13.5	90
812-03-420(10x)	9.96	53.3	44.5	88

BLANK **Units:** mg/L **Lab Blank:** <0.3 <0.3

Results: 0.006, 0.025, 0.029, 0.028, 0.098 **Date Prepped:** 12/3/98 12/10/98

DETECTION LIMIT **Units:** mg/L

Limit Value: 0.3 **Assayed Value:** 0.232, ,

Sensitivity Check : 300 mg/l

$\frac{295}{300} \times 100 = 98\%$

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LIMITS IN EFFECT AS OF JULY 1, 1998

QUALITY CONTROL DATA I

PARAMETER: Sulfate – Spectronic 401 ANALYST: KozaKousky DATE: 12-9-98

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	
25	21.2 to 29.3	27.8, 24.6, 27.6, _____, _____
_____	_____ to _____	_____, _____, _____, _____, _____

PREPARATION REFERENCE CONTROL Units: _____

Target	Acceptance Limits	
		Assayed Value: _____, _____, _____
_____	_____ to _____	Date Prepped: _____, _____, _____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 2 Acceptable RPD: 8.5 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-24-034	25.	24	1	— %
812-03-406 (5x)	24	24	0	— %
_____	_____	_____	_____	_____ %
_____	_____	_____	_____	_____ %

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 71 % to 129 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-04-016 (5x)	10.	28	20	80
812-03-403 (10x)	10	28	20	80
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

BLANK Units: mg/L Lab Blank: <1

Results: _____, _____, _____, _____, _____ Date Prepped: 12-9-98

DETECTION LIMIT Units: mg/L

Limit Value: 1 Assayed Value: 1.0, _____, _____

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Sulfide - Direct ANALYST: Pamela Gelat DATE: 12/9/96

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits									
10	6.96 to 12.0	10.00								
	to									

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits		Assayed Value:		
10	0.3 to 9.6		Date Prepped:		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.2 Acceptable RPD: 76.2 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
812-03-405	<0.1	<0.1	—	— %
				%
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: ____ % to ____ %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
812-03-404	10	9.2	0.2	90

BLANK Units: mg/L Lab Blank: ____

Results: ____ Date Prepped: ____

DETECTION LIMIT Units: mg/L

Limit Value: 0.1 Assayed Value: 0.08

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: TOC ANALYST: BILL PEARSON DATE: 12/8/98

REFERENCE CONTROL UNITS: mg/L

Target	Acceptance Limits			
10	8 to 12	9		
	36 to 44	38	38	✓
	to			

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits	Assayed Value:		
	to	Date Prepped:		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/L Acceptable AD: 2 Acceptable RPD: 21.7 %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
					%
812-03-401		19	19	0	✓ %
					%
812-03-406		8	8	0	✓ %

SPIKE CONTROL Units: mg/L
Acceptable Limits for Percent Recovery: 78 % to 121 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
					%
812-03-402		20	27	9	90 % ✓
8b					%
					%

BLANK Units: mg/L Lab Blank <1

Result: <1, <1, <1, Date Prepped

DETECTION LIMIT Units: mg/L

Limit Value: 1 Assayed Value: 1

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LIMITS IN EFFECT AS OF JUNE 2, 1997

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
SURROGATE SPIKE INFORMATION

Date 12/9/98 Analyst Echlund

Target Value = 0.050 mg/L
Units = mg/L

Free-Col ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Fluorobenzene
(Limits)	0.042-0.057	0.043-0.061	0.041-0.063	0.044-0.058
(File #)	700	701	702	708
812-01-406	0.049	0.047	0.047	-
812-01-407	0.051	0.047	0.048	-
812-08-406	0.050	0.049	0.050	-
812-08-407	0.049	0.046	0.047	-

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 12/9/98 Analyst Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	812-03-400	102	102	101
	812-03-401	100	99	93
	812-03-402	104	98	101
	812-03-403	104	92	97
	812-03-404	108	97	102
	812-03-405	97	90	94
	812-03-406	102	93	94
	812-03-407	100	99	101
	812-04-417	107	97	99
	812-04-418	96	97	99

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 12/9/98 Analyst Eckland
Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	18.4	223
Bromomethane	20	7.8-39.4	20.9	222
Vinyl chloride	20	1.5-41.7	19.1	232
Chloroethane	20	4.6-36.4	19.0	209
Methylene chloride	20	11.8-31.3	19.4	224
Acrolein	62	4.5-104.4	57.8	201
Acrylonitrile	58	13.2-115.2	55.7	202
1,1-Dichloroethene	20	11.3-32.1	19.7	216
1,1-Dichloroethane	20	15.5-27.8	20.3	214
trans-1,2-Dichloroethene	20	13.6-28.3	20.0	217
Chloroform	20	15.7-26.1	19.8	211
1,2-Dichloroethane	20	8.1-34.0	20.8	215
1,1,1-Trichloroethane	20	12.8-30.1	21.0	228
Carbon tetrachloride	20	8.0-27.8	19.9	206
Bromodichloromethane	20	9.8-29.7	20.2	212
1,2-Dichloropropane	20	14.7-28.2	21.2	218
trans-1,3-Dichloropropene	20	12.7-25.6	20.9	220
Trichloroethene	20	14.1-27.1	21.1	230
Benzene	20	14.3-27.8	21.2	203
Dibromochloromethane	20	4.8-29.2	19.4	208
1,1,2-Trichloroethane	20	14.3-28.2	20.5	229
cis-1,3-Dichloropropene	20	10.3-26.8	20.1	219
2-Chloroethyl vinyl ether	20	10.1-32.1	20.5	210
Bromoform	20	3.0-30.6	19.6	205
Tetrachloroethene	20	13.3-28.4	21.0	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	21.2	225
Toluene	20	15.2-25.6	21.1	227
Chlorobenzene	20	11.5-28.6	20.3	207
Ethyl benzene	20	13.4-27.6	20.8	221
1,3-Dichlorobenzene	26	18.5-36.7	27.1	234
1,2-Dichlorobenzene	26	11.5-41.9	26.9	233
1,4-Dichlorobenzene	20	3.7-35.6	21.5	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.5	—	236
Xylene	44	21.0-66.7	45.1	238
MEK	20	9.1-39.4	19.4	240
Acetone	20	9.6-38.0	19.6	242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 12/9/98 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	19.6	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	18.8	245
Styrene	20	12.4-30.0	19.9	246
Vinyl Acetate	20	11.0-27.5	19.7	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	19.6	249
cis-1,2-DCE	20		20.3	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 12/9/98 Analyst Eckland

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	<2
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Acrolein	<10
Acrylonitrile	<10
1,1-Dichloroethene	<2
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	
2-Butanone - MEK	<10
4-Methyl-2-pentanone	<10
Acetone	<10
Syrene	<2

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 12/9/98 Analyst Ecklund
Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<10
2-Hexanone - MBK	<10
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	<2
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<2
Dichlorodifluoromethane	<2

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 12/9/98 Analyst Eckland

Samples associated with this repeat control:

Sample used as repeat control: 812-08-406

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<2	<2			0	820
Bromomethane						819
Vinyl chloride				27		828
Chloroethane						807
Methylene chloride				17		821
Acrolein	<10	<10				800
Acrylonitrile	<10	<10				801
1,1-Dichloroethene	<2	<2				813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	3	3		32	0	827
Benzene	<2	<2		49	0	802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone	-	-		26	-	836

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 12/9/98 Analyst Edelund
Samples associated with this repeat control:

Sample used as repeat control: 812-08-406
AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane	<2	<2			0	
Methyl Ethyl Ketone						
MIBK						
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane	<2	<2			0	
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	7	8			1	
Xylene						
Vinyl Acetate						

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 12/9/98 Analyst Eckelund
Samples associated with this spiked control:

Sample used as spiked control: 812-08-406

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	21	<2	31-187	105	520
Bromomethane	20	22		34-207	110	519
Vinyl chloride	20	18		26-183	90	528
Chloroethane	20	18		55-168	90	507
Methylene chloride	20	17		63-151	85	521
Acrolein	62	39	<10	23-183	63	500
Acrylonitrile	58	58	<10	52-186	100	501
1,1-Dichloroethene	20	20	<2	52-159	100	513
1,1-Dichloroethane	20	21		73-144	105	511
trans-1,2-Dichloroethene	20	20		64-151	100	514
Chloroform	20	20		68-142	100	509
1,2-Dichloroethane	20	20		54-155	100	512
1,1,1-Trichloroethane	20	24		59-158	120	525
Carbon tetrachloride	20	16		39-147	80	504
Bromodichloromethane	20	20		47-148	100	510
1,2-Dichloropropane	20	23		67-144	115	515
trans-1,3-Dichloropropene	20	21		56-141	105	517
Trichloroethene	20	22	3	64-130	95	527
Benzene	20	21	<2	71-142	105	502
Dibromochloromethane	20	16		29-155	80	506
1,1,2-Trichloroethane	20	21		61-146	105	526
cis-1,3-Dichloropropene	20	20		46-149	100	516
2-Chloroethyl vinyl ether	20	23		7-183	115	508
Bromoform	20	19		10-149	95	503
Tetrachloroethene	20	17		50-160	85	523
1,1,2,2-Tetrachloroethane	20	22		44-163	110	522
Toluene	20	21		73-130	105	524
Chlorobenzene	20	22		72-131	110	505
Ethyl benzene	20	23		62-139	115	518
1,3-Dichlorobenzene	26	26		60-161	100	530
1,2-Dichlorobenzene	26	26		45-157	100	529
1,4-Dichlorobenzene	20	22		36-174	110	531
Diethyl Benzene	44	—		71-137	—	533
Ethyl Ether	35	—		62-160	—	532
Xylenes	44	48		72-130	109	534
MEK	20	—	—	63-179	—	536

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 12/9/98 Analyst Eckblund

Samples associated with this spiked control:

Sample used as spiked control: 812-08-406

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			72-154		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
CIS-1,2-DCE	20	26	7		95	
Dichlorodifluoromethane	20	20	<2		100	
Trichlorofluoromethane	20	20	<2		100	

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

Page 1 of 2

DATE: 12/2/98

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 605-2300
CONTACT: Gary Klawinski (GGZA)

Samples Collected by Tom Seider / Daniel Troy

LABORATORY: Free-Col

SAMPLE TYPE: (CIRCLE) 1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL 5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE 9) OTHER _____

SAMPLE DESCRIPTION: Groundwater Samples

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
12/2/98	MW-9	0810	See attached table	
12/2/98	MW-4	1010	"	
12/2/98	MW-8	1130	"	
12/2/98	MW-6	1240	"	
12/2/98	Dup #1	—	"	
12/2/98	Trip Blank			
12/3/98	MW-3S	1100	see attached table	
12/3/98	MW-7	1200	"	

SPECIAL DETECTION LEVELS REQUIRED? NYSDEC Drinking Water level detection limits required.

POSSIBLE INTERFERENCES: _____

REASON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

BOTTLES RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]	BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]
BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]	BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
Michael M. Watson 12/3/98 1437	Bill Slater 12/3/98 1437
SAMPLE COLLECTED BY:	RECEIVED BY: [DATE, TIME, LAB SIGNATURE]

DELPHI HARRISON THERMAL SYSTEMS
GENERAL MOTORS CORPORATION

GROUNDWATER SAMPLES
DAY 1
MW9, MW10, MW11,
MW12, MW13

10/05-06/99

P.O.# ACARD

Report reviewed and approved by:

John Paraska
Quality Assurance Supervisor

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/26/99

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW9 10/06/99 LAB ID 91006400 DATE RECEIVED: 10/06/99	MW10 10/06/99 91006401 10/06/99	MW11 10/05/99 91006402 10/06/99	MW12 10/06/99 91006403 10/06/99
PERCHLOROETHYLENE	MG/L	0.062	0.24	<0.0005	<0.0005
1,2-DICHLOROETHENE	MG/L	1.5	0.72	0.010	0.027
VINYL CHLORIDE	MG/L	0.091	0.20	0.0019	0.032
TRANS-1,2-DICHLOROE*	MG/L	0.008	0.002	<0.0005	<0.0005
METHANE	MG/L	0.02	0.14	0.05	0.36
ACID DIGESTION PREP		COMPLETE	COMPLETE	COMPLETE	COMPLETE
BENZENE	MG/L	<0.002 D	<0.002 D	<0.0005	<0.0005
TOLUENE	MG/L	<0.002 D	<0.002 D	<0.0005	<0.0005
ETHYLBENZENE	MG/L	<0.002 D	<0.002 D	<0.0005	<0.0005
XYLENE	MG/L	<0.002 D	<0.002 D	<0.0005	<0.0005
T.O.C. MG/L		24	24	20	30
ALKALINITY MG/L		330	280	270	300
NH3-N DISTILLED MG/L		0.20	0.29	0.76	0.90
CHLORIDE MG/L		963	1,010	192	342
NO3-N MG/L		0.46	0.15	0.05	0.27

*TRANS-1,2-DICHLOROETHENE

Please reference the following page(s) for date and analyst.

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

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ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID :	MW9 10/06/99	MW10 10/06/99	MW11 10/05/99	MW12 10/06/99
		LAB ID	91006400	91006401	91006402	91006403
		DATE RECEIVED:	10/06/99	10/06/99	10/06/99	10/06/99
NO2-N MG/L			<0.05	0.10	<0.05	<0.05
SULFATE MG/L			520	240	210	66
SULFIDE MG/L			<0.1	<0.1	0.5	0.2
CIS-1,2-DICHLOROETH*	MG/L		1.5	0.72	0.010	0.027
TRICHLOROETHYLENE	MG/L		1.2	0.23	<0.0005	<0.0005

*CIS-1,2-DICHLOROETHENE

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ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW13
10/06/99

LAB ID 91006404
DATE RECEIVED: 10/06/99

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Perchloroethylene	0.058	MG/L	10/18/99	ECKLUND
1,2-Dichloroethene	1.6	MG/L	10/18/99	ECKLUND
Vinyl Chloride	0.11	MG/L	10/18/99	ECKLUND
Trans-1,2-Dichloroethene	0.008	MG/L	10/18/99	ECKLUND
Methane	0.02	MG/L	10/12/99	WILLIAMS
Acid Digestion Preparation	COMPLETE		10/08/99	LINZ
Benzene	<0.002 D	MG/L	10/18/99	ECKLUND
Toluene	<0.002 D			
Ethylbenzene	<0.002 D			
Xylene	<0.002 D			
Carbon, Total Organic	27	MG/L	10/12/99	PEARSON
Alkalinity	340	MG/L	10/12/99	HAYES
Nitrogen,Ammonia (distilled)	0.14	MG/L	10/13/99	HAYES

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW13
10/06/99

LAB ID 91006404
DATE RECEIVED: 10/06/99

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Chloride	833	MG/L	10/22/99	ADSIT
Nitrogen, Nitrate	0.63	MG/L	10/06/99	PEARSON
Nitrogen, Nitrite	<0.05	MG/L	10/06/99	PEARSON
Sulfate	490	MG/L	10/22/99	KOZAKOVSKY
Sulfide	<0.1	MG/L	10/11/99	HAYES
CIS-1,2-DICHLOROETHENE	1.6	MG/L	10/18/99	ECKLUND
Trichloroethylene	1.4	MG/L	10/18/99	ECKLUND

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
10/05/99

LAB ID 91006405
DATE RECEIVED: 10/06/99

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Perchloroethylene	<0.0005	MG/L	10/18/99	ECKLUND
1,2-Dichloroethene	<0.0005	MG/L	10/18/99	ECKLUND
Vinyl Chloride	<0.0005	MG/L	10/18/99	ECKLUND
Trans-1,2-Dichloroethene	<0.0005	MG/L	10/18/99	ECKLUND
Benzene	<0.0005	MG/L	10/18/99	ECKLUND
Toluene	<0.0005			
Ethylbenzene	<0.0005			
Xylene	<0.0005			
CIS-1,2-DICHLOROETHENE	<0.0005	MG/L	10/18/99	ECKLUND
Trichloroethylene	<0.0005	MG/L	10/18/99	ECKLUND

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID : / LAB ID / DATE RECEIVED:	MW9 10/06/99 DIGESTION 91006406 10/06/99	MW10 10/06/99 DIGESTION 91006407 10/06/99	MW11 10/05/99 DIGESTION 91006408 10/06/99	MW12 10/06/99 DIGESTION 91006409 10/06/99
CALCIUM MG/L ICP		250	39.8	93.4	104
IRON ICP MG/L		0.20	0.73	0.34	<0.01
MAGNESIUM ICP MG/L		63.8	9.94	46.4	27.8
MANGANESE ICP MG/L		1.36	0.99	0.06	<0.01
SODIUM ICP MG/L		476	33.2	180	166
POTASSIUM ICP MG/L		4.6	18.8	10.9	4.9

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EMAIL: freecol@toolcity.net

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P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW13
10/06/99
DIGESTION
LAB ID 91006410
DATE RECEIVED: 10/06/99

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Calcium ICP	252	MG/L	10/12/99	BAKER
Iron ICP	0.20	MG/L	10/08/99	BAKER
Magnesium ICP	72	MG/L	10/12/99	BAKER
Manganese ICP	1.46	MG/L	10/08/99	BAKER
Sodium ICP	478	MG/L	10/12/99	BAKER
Potassium ICP	5.0	MG/L	10/12/99	BAKER

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ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW9 10/06/99 FIELD FILT LAB ID 91006411 DATE RECEIVED: 10/06/99	MW10 10/06/99 FIELD FILT 91006412 10/06/99	MW11 10/05/99 FIELD FILT 91006413 10/06/99	MW12 10/06/99 FIELD FILT 91006414 10/06/99
IRON ICP (DISS.)	MG/L	0.02	0.04	0.30	3.66
MAGNESIUM ICP (DISS)	MG/L	89	102	103	31.6
MANGANESE ICP (DISS)	MG/L	0.99	1.12	0.08	4.90
SODIUM ICP (DISS.)	MG/L	535	635	695	226
POTASSIUM (DISS.) ICP	MG/L	26.5	10.1	27	5.3
CALCIUM ICP (DISS.)	MG/L	283	254	150	126

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ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW13
10/06/99
FIELD FILT
LAB ID 91006415
DATE RECEIVED: 10/06/99

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Iron ICP (Diss.) MG/L	0.02	MG/L	10/08/99	BAKER
Magnesium ICP (Diss.) MG/L	86	MG/L	10/12/99	BAKER
Manganese ICP (Diss.) MG/L	0.94	MG/L	10/08/99	BAKER
Sodium ICP (Diss.) MG/L	560	MG/L	10/12/99	BAKER
Potassium ICP (Diss.) MG/L	5.6	MG/L	10/12/99	BAKER
Calcium ICP (Diss.) MG/L	284	MG/L	10/12/99	BAKER

Some of the dissolved metal values in this report exceed the digested metal values for the same sample. These variations are within normal analytical limits.

John R Paraska

QUALITY ASSURANCE SUPERVISOR

PC: GZA

METHODS

PARAMETER	METHOD	SOURCE
ACID DIGESTION PREP	3005A	2
ALKALINITY	2320 B	20
CALCIUM ICP	7140	2
CARBON, TOTAL ORGANIC	9060	2
CHLORIDE	325.3 mod.	1
IRON ICP	6010B	2
MAGNESIUM ICP	6010B	2
MANGANESE ICP	6010B	2
METHANE	8015 mod.	2
NITROGEN, AMMONIA (DISTILLED)	350.2 mod.	1
NITROGEN, NITRATE	353.2	1
NITROGEN, NITRITE	353.2	1
POTASSIUM ICP	6010B	2
SODIUM ICP	6010B	2
SULFATE	9038	2
SULFIDE	376.1	1
VOLATILE COMPOUNDS	8260	2

SOURCE

1 - "Methods for Chemical Analysis of Water & Wastes", U.S. Environmental Protection Agency, EPA-600/4-79-020. Revised 1983.

2 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Update III, December, 1996.

20 - "Standard Methods for the Examination of Water and Wastewater", 18th Edition.

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1468

ENVIRONMENTAL
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CODE KEYS FOR ANALYTICAL REPORT FORMS

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%.

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%.

WF: Will Follow

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit but greater than zero.

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Meadville, Pennsylvania 16335-0557
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FAX: Area Code 814/333-1466

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QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

Delphi Harrison Thrm. Sys. Sample Identification	Free-Col ID
MW9 10/06/99	91006400
MW10 10/06/99	91006401
MW11 10/05/99	91006402
MW12 10/06/99	91006403
MW13 10/06/99	91006404
TRIP BLANK 10/05/99	91006405
MW9 10/06/99 DIGESTION	91006406
MW10 10/06/99 DIGESTION	91006407
MW11 10/05/99 DIGESTION	91006408
MW12 10/06/99 DIGESTION	91006409
MW13 10/06/99 DIGESTION	91006410
MW9 10/06/99 FIELD FILT.	91006411
MW10 10/06/99 FIELD FILT.	91006412
MW11 10/05/99 FIELD FILT.	91006413
MW12 10/06/99 FIELD FILT.	91006414
MW13 10/06/99 FIELD FILT.	91006415

QUALITY CONTROL DATA I

PARAMETER: Alkalinity ANALYST: K Hayes DATE: 10-11-99 — 10/13

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits		
20	15 to 30	23, 24, 24, 25, 23, 25, 24, 24	
200	191 to 208	197, 202, ____, ____, ____	

PREPARATION REFERENCE CONTROL Units: mg/L

Target: ____ Acceptance Limits: ____ to ____ Assayed Value: ____, ____, ____

Date Prepped: ____, ____, ____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 4 Acceptable RPD: 5.6 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
910-05-032	58	59	1	—
910-02-017	58	59	1	—
910-02-031	59	59	0	— %
910-10-003	80	80	0	—
910-04-033	59	58	1	— %
910-06-136	59	59	0	— %
910-06-047	57	58	1	— %
910-04-007	80	82	2	—
910-08-129	59	58	1	—

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: ____ % to ____ %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery

BLANK Units: mg/L Lab Blank: 3

Results: ____, ____, ____, ____, ____ Date Prepped: ____

DETECTION LIMIT Units: mg/L

Limit Value: 2 Assayed Value: 2.4, 2.8, 3.0

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Ammonia Nitrogen ANALYST: K. Hayes DATE: 10/13/

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
2	1.37 to 2.73					
10	7.28 to 11.74	9.45	8.65	7.95		

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits		Assayed Value:		
10	7.2 to 10.1	Date Prepped:	10/12/99		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L from ISE probe reading

Acceptable AD: 0.06 Acceptable RPD: 20.1 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
910-06-109 (1.68x)	0.07	0.06	0.01	— %
910-06-430	<0.03	<0.03	0	— %
				%
				%

SPIKE CONTROL Units: mg/L from I.S.E. probe reading

Acceptable Limits for Percent Recovery: 72 % to 128 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
910-06-109	10	9.29	0.13	92
910-08-051	10	10.05	0.24	98

BLANK Units: mg/L Lab Blank: 0.06

Results: , , , , Date Prepped: 10/12/99

DETECTION LIMIT Units: mg/L

Limit Value: 0.03 Assayed Value: 0.028 , ,

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: CALCIUM ICP ANALYST: BAKER DATE: 10-12-99

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits					
25.0	23.7	to 26.3				
50.0	47.5	to 52.5	49.7	49.8	47.7	48.7
		to	49.6			

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits		Assayed Value:		
5.00	4.50	to 5.50	5.50		
		Date Prepped:	10-8-99		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/l Acceptable AD: 0.02 Acceptable RPD: ____ %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
10-04-022		22.6	23.6	0.1	4.3 %
10-07-002		29.3	29.0	0.3	1.0 %
10-07-407		39.8	38.9	0.9	2.3 %
10-07-148		21.6	21.5	0.1	0.5 %

SPIKE CONTROL Units: mg/l
Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
9[illegible]-06-444		21.8	39.9	20.1	91 %
910-07-403		21.8	45.2	22.6	104 %
9[illegible]-07-147		21.8	29.7	11.8	86 %
9[illegible]-07-149		21.8	33.9	14.0	91 %

BLANK Units: mg/l Lab Blank <0.02

Result: 0.000, 0.024, 0.011 0.013 0.015 Date Prepped 10-8-99

DETECTION LIMIT Units: mg/l

Limit Value: 0.02 Assayed Value: 0.029, ____, ____

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QUALITY CONTROL DATA I

PARAMETER: Chloride ANALYST: G. Adsit DATE: 10/22/99

CALIBRATION CHECK Units: mg/L

Target	Acceptance Limits					
60	55.9 to 61.6	56.9 ✓	59.5	59.0		
	to					

LABORATORY CONTROL SAMPLE Units:

Target	Acceptance Limits			
	to	Assayed Value:		
	to	Date Prepped:		

DUPLICATE/REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 1 Acceptable RPD: 8.3 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
910-07-416 (2x)	71.9 ✓	71.9 ✓	—	— %
910-07-420	20.2	20.2	—	— %
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 94 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
910-07-416 (2x)	10	81.8	71.9	99 ✓

BLANK Units: mg/L Method Blank: <0.5

Results: , , , , Date Prepped: ~~10/22/99~~ 10/21/99 1500

REPORTING LIMIT Units: mg/L

Limit Value: 0.5 Assayed Value: 1.0 ✓ , ,

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LIMITS IN EFFECT AS OF OCTOBER 22, 1999

QUALITY CONTROL DATA I

PARAMETER: IRON ICP ANALYST: Baker DATE: 10-8-99

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits			
25.0	23.7 to 26.3	____, ____, ____, ____		
5.00	4.75 to 5.25	4.89, 4.87, 5.05, 5.02		
____	____ to ____	4.93, ____, ____, ____		

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits	Assayed Value:		
5.00	4.50 to 5.50	Date Prepped:	10-7-99, ____, ____	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/l Acceptable AD: 0.02 Acceptable RPD: ____ %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
909-16-066		0.13	0.14	0.01	—
910-05-098		12.6	12.2	0.4	%
910-06-161		0.14	0.13	0.01	%
910-06-106		0.06	0.06	0.00	— %

SPIKE CONTROL Units: mg/l
Acceptable Limits for Percent Recovery: 85 % to 109 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
910-05-095	1	4.87	5.05	0.155	101 %
910-06-028		4.87	5.30	0.848	91 %
910-06-415		4.87	4.93	0.015	101 %
910-07-060		4.97	5.13	-0.04	105 %

BLANK Units: mg/l Lab Blank <0.01

Result: 0.001, 0.006, 0.005 0.005 0.000 Date Prepped 10-7-99

DETECTION LIMIT Units: mg/l

Limit Value: 0.01 Assayed Value: 0.014, ____, ____

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QUALITY CONTROL DATA I

PARAMETER: MAGNESIUM ICP ANALYST: BAKER DATE: 10-12-9

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits			
25.0	23.7	to 26.3	25.4, 25.4, 24.0, 25.4	
5.00	4.75	to 5.25	25.2, ____, ____, ____	
____	____	to ____	____, ____, ____, ____	

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits		Assayed Value:		
5.00	4.50	to 5.50	Date Prepped:	10-8-99, ____, ____	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/l Acceptable AD: 0.06 Acceptable RPD: ____ %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
10-04-022	____	5.00	5.27	0.27	5.3 %
10-07-002	____	6.05	6.12	0.07	1.2 %
10-07-407	____	9.94	9.24	0.7	7.3 %
10-07-148	____	4.81	4.79	0.02	— %

SPIKE CONTROL Units: mg/l
Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
10-06-444	____	20.3	24.8	6.98	88 %
10-07-403	____	20.3	26.6	7.05	96 %
10-07-147	____	20.3	24.0	4.36	97 %
10-07-149	____	20.3	28.4	7.92	101 %

BLANK Units: mg/l Lab Blank <0.03

Result: 0.000, 0.007, 0.004 0.003 0.004 Date Prepped 10-8-99

DETECTION LIMIT Units: mg/l

Limit Value: 0.03 Assayed Value: 0.033, ____, ____

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QUALITY CONTROL DATA I

PARAMETER: MANGANESE ICP ANALYST: Baker DATE: 10-8-99

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits			
25.0	23.7 to 26.3			
5.00	4.75 to 5.25	4.94	4.90	4.99	5.05
	to	4.96			

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits		Assayed Value:	Date Prepped:
5.00	4.50	to 5.50	4.95	10-7-99

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/l Acceptable AD: 0.02 Acceptable RPD: _____ %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
9709-16-066		<0.01	<0.01		—
9910-05-098		0.51	0.50	0.01	—
10-06-161		0.03	0.03	0.00	— %
9910-06-106		0.02	0.02	0.00	— %

SPIKE CONTROL Units: mg/l
Acceptable Limits for Percent Recovery: 88 % to 112 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
9910-05-095		4.94	4.98	0.025	100 %
9910-06-028		4.94	4.90	0.198	95 %
9910-06-415		4.94	5.58	0.936	94 %
9910-07-060		4.94	5.16	0.002	104 %

BLANK Units: mg/l Lab Blank <0.01

Result: 0.000, 0.000 -0.001 0.001 0.000 Date Prepped 10-7-99

DETECTION LIMIT Units: mg/l

Limit Value: 0.01 Assayed Value: 0.012, _____, _____

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QUALITY CONTROL DATA I

PARAMETER: Methane ANALYST: Alice Williams DATE: 10-11-97

REFERENCE CONTROL UNITS: ~~mg/L~~ ppm

Target	Acceptance Limits		
15.0	12.2 to 18.1	14.2	
	to	13.1, 15.2	
	to		

SEPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits	Assayed Value:
	to	Date Prepped:

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: ~~mg/L~~ ppm Acceptable AD: 10 Acceptable RPD: 12 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
9[illegible]-06-403	85	75		%
10x				%
[illegible]-06-404	53	55 after wash		%
9[illegible]-07-417 10x	123	116		%
				%

SPIKE CONTROL Units: ppm

Acceptable Limits for Percent Recovery: 25 % to 158 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
[illegible]-06-404	19.6	56.5	53	189% out %
[illegible]-11-127	16.8	13.1	<5	78% %
				%
				%

BLANK Units: ~~mg/L~~ ppm Lab Blank

Results: <5 Date Prepped

DETECTION LIMIT Units: ~~mg/L~~ ppm

Limit Value: 5 Assayed Value: 6.2, , 5.3-5.4

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Nitrate/Nitrite Nitrogen ANALYST: BILL PEARSON DATE: 10/6/99

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
0.8	0.72 to 0.89	0.82	0.80	0.81	0.80	0.79
	to	0.73				

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
1.00	to	1.53 - 0.83 =	0.70	
		Date Prepped:	10/6/99	

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.1 Acceptable RPD: 13.1 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
909-30-138 (10X)	1.05	1.00	0.05	%
910-06-030	1.43	1.37	0.06	%
910-05-011 (5X)	0.66	0.68	0.02	%
910-05-039 (10X)	0.85	0.83	0.02	%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 79 % to 126 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
910-04-026	0.50	0.72	0.17	110
909-30-180	0.50	0.82	0.35	94

BLANK Units: mg/L Lab Blank: <0.05

Results: , , , , Date Prepped:

DETECTION LIMIT Units: mg/L

Limit Value: 0.05 Assayed Value: 0.08 , 0.07 ,

1.00 / 1.02 x100 = 98% COLUMN EFFICIENCY

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LIMITS IN EFFECT AS OF JUNE 2, 1997

PARAMETER: Nitrite Nitrogen ANALYST: BILL PEARSON DATE: 10/6/9

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	
0.1	0.08 to 0.10	0.10, 0.11, ____, ____, ____
____	____ to ____	____, ____, ____, ____, ____

PREPARATION REFERENCE CONTROL Units: ____

Target	Acceptance Limits	
		Assayed Value: ____, ____, ____
____	____ to ____	Date Prepped: ____, ____, ____

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.1 Acceptable RPD: 7.2 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
____	____	____	____	____ %
____	____	____	____	____ %
____	____	____	____	____ %
910-06-439	<0.05	<0.05	—	____ %

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 84 % to 124 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
____	____	____	____	____
____	____	____	____	____
____	____	____	____	____
910-06-030	0.50	0.50	<0.05	100

BLANK Units: mg/L Lab Blank: <0.05

Results: ____, ____, ____, ____, ____ Date Prepped: ____

DETECTION LIMIT Units: mg/L

Limit Value: 0.05 Assayed Value: 0.05, ____, ____

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: POTASSIUM ANALYST: BAKER DATE: 10-12-99

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits			
25.0	23.7 to 26.3	25.2,	24.9,	24.0, 25.7
	to	25.1,		
	to			

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits		Assayed Value:		
5.00	4.50 to 5.50	Date Prepped:	10-8-99,		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/l Acceptable AD: 0.4 Acceptable RPD: ____ %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
10-04-022		1.3	1.5	0.2	— %
10-07-002		18.8	18.7	0.1	— %
10-07-407		18.8	18.4	0.4	— %
10-07-148		4.8	4.7	0.1	— %

SPIKE CONTROL Units: mg/l

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
10-06-444		19.7	20.6	1.55	97 %
10-07-403		19.7	31.5	13.2	93 %
10-07-147		19.7	20.9	0.809	102 %
10-07-149		19.7	26.0	6.39	100 %

BLANK Units: mg/l Lab Blank < 0.2

Results: 0.049, 0.063, 0.101 0.120 0.022 Date Prepped 10-8-99

DETECTION LIMIT Units: mg/l

Limit Value: 0.2 Assayed Value: 0.196, ____, ____

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QUALITY CONTROL DATA I

PARAMETER: SODIUM ICP ANALYST: BAKER DATE: 10-12-99

REFERENCE CONTROL UNITS: mg/l

Target	Acceptance Limits			
100.0	95.0	to	105.0	100.0, 99.3, 96.2, 102
50.0	47.5	to	52.5	101, , ,
		to		, , ,

PREPARATION REFERENCE CONTROL Units: mg/l

Target	Acceptance Limits			Assayed Value:	Date Prepped:
10.0	9.0	to	11.0	9.59, ,	10-8-99, ,

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/l Acceptable AD: 0.6 Acceptable RPD: %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
10-04-022		7.3	7.7	0.4	— %
10-07-002		42.6	42.3	0.3	— %
10-07-007		33.2	34.4	1.2	3.6 %
10-07-148		8.02	7.95	0.07	— %

SPIKE CONTROL Units: mgl
Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
10-06-444		19.5	31.6	14.8	86 %
10-07-147		19.5	23.5	4.09	115 %
10-07-149		19.5	26.4	5.27	103 %
10-07-144		19.5	23.2	3.32	102 %

BLANK Units: mgl Lab Blank <0.3

Result: -0.009, 0.145, 0.076 0.073 0.119 Date Prepped 10-8-99

DETECTION LIMIT Units: mg/l

Known Value: 0.3 Assayed Value: 0.333, ,

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QUALITY CONTROL DATA I

PARAMETER: Sulfate – Spectronic 401 ANALYST: Kozakowsky DATE: 10-22-9

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	
25	21.2 to 29.3	25.1, 22.4, 25.5, 24.7, 21.6,
	to	25.2 OSB 10-25

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits	
	to	Assayed Value:
		Date Prepped:

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 2 Acceptable RPD: 8.5 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
910-07-418	14	14	0	—
910-20-021	(2x) 26	25.	1	— %
910-13-429	28	27.	1	— %
910-17-008	(2x) 31	31	0	— %
910-17-018	12	12	0	—

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 71 % to 129 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
910-07-418	10.	24.	14.	100
910-13-436	10	26	16	100
910-17-008	(2x) 10	40	31	90

BLANK Units: mg/L Lab Blank: <1

Results: <1, <1, <1, <1, <1, Date Prepped: 10-22-99

DETECTION LIMIT Units: mg/L

Limit Value: 1 Assayed Value: 1

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: Sulfide - Direct ANALYST: K. Hayes DATE: 10/11/99

REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits					
10	6.96 to 12.0	9.8 ✓	9.5 ✓	9.4 ✓		
	to					

PREPARATION REFERENCE CONTROL Units: mg/L

Target	Acceptance Limits	Assayed Value:		
10	0.3 to 9.6	Date Prepped:		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.2 Acceptable RPD: 76.2 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
910-06-401	<0.1 ✓	0.2 ✓	0.2 ✓	— %
910-09-415	0.3	0.3	0	— %
				%
				%

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: _____ % to _____ %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
910-06-400	10 ✓	8.5 ✓	<0.1 ✓	85 ✓

BLANK Units: mg/L Lab Blank: 0.1

Results: _____ Date Prepped: _____

DETECTION LIMIT Units: mg/L

Limit Value: 0.1 Assayed Value: 0.14 ✓

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LIMITS IN EFFECT AS OF JUNE 2, 1997

QUALITY CONTROL DATA I

PARAMETER: TOC ANALYST: BILL PEARSON DATE: 10/12/[illegible]

REFERENCE CONTROL UNITS: mg/L

Target	Acceptance Limits			
10	8 to 12	9		
	36 to 44	42	42	
	to			

PREPARATION REFERENCE CONTROL Units:

Target	Acceptance Limits	Assayed Value:	Date Prepped:
	to		

REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference
Units: mg/L Acceptable AD: 2 Acceptable RPD: 21.7 %

Sample I.D.	Dilution	Sample Result	Repeat Result	AD	RPD
10-06-403		30	29	1	%
10-08-003		10	10	0	%

SPIKE CONTROL Units: mg/L
Acceptable Limits for Percent Recovery: 78 % to 121 %

Sample I.D.	Dilution	Spike Added	Spike Result	Sample Result	% Recovery
10-08-005		20	27	5	110 %

BLANK Units: mg/L Lab Blank <1

Result: <1, <1, <1, Date Prepped -

DETECTION LIMIT Units: mg/L

Limit Value: 1 Assayed Value: 1

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LIMITS IN EFFECT AS OF JUNE 2, 1997

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 10/12/94 Analyst Eckland

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	910-06-400	107	104	97
	910-06-401	100	105	95
	910-06-402	104	108	101
	910-06-403	96	106	100
	910-06-404	98	104	100
	910-06-405	103	101	99

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 10/18/99 Analyst E Klund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5		223
Bromomethane	20	7.8-39.4		222
Vinyl chloride	20	1.5-41.7	21.5	232
Chloroethane	20	4.6-36.4		209
Methylene chloride	20	11.8-31.3		224
Acrolein	62	4.5-104.4		201
Acrylonitrile	58	13.2-115.2		202
1,1-Dichloroethene	20	11.3-32.1		216
1,1-Dichloroethane	20	15.5-27.8		214
trans-1,2-Dichloroethene	20	13.6-28.3	20.2	217
Chloroform	20	15.7-26.1		211
1,2-Dichloroethane	20	8.1-34.0		215
1,1,1-Trichloroethane	20	12.8-30.1		228
Carbon tetrachloride	20	8.0-27.8		206
Bromodichloromethane	20	9.8-29.7		212
1,2-Dichloropropane	20	14.7-28.2		218
trans-1,3-Dichloropropene	20	12.7-25.6		220
Trichloroethene	20	14.1-27.1	19.1	230
Benzene	20	14.3-27.8	16.0	203
Dibromochloromethane	20	4.8-29.2		208
1,1,2-Trichloroethane	20	14.3-28.2		229
cis-1,3-Dichloropropene	20	10.3-26.8		219
2-Chloroethyl vinyl ether	20	10.1-32.1		210
Bromoform	20	3.0-30.6		205
Tetrachloroethene	20	13.3-28.4	18.3	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1		225
Toluene	20	15.2-25.6	20.8	227
Chlorobenzene	20	11.5-28.6		207
Ethyl benzene	20	13.4-27.6	21.3	221
1,3-Dichlorobenzene	26	18.5-36.7		234
1,2-Dichlorobenzene	26	11.5-41.9		233
1,4-Dichlorobenzene	20	3.7-35.6		235
Diethyl Benzene	44	25.9-62.9		237
Ethyl Ether	35	26.9-49.5		236
Xylene	44	21.0-66.7	44.9	238
MEK	20	9.1-39.4		240
Acetone	20	9.6-38.0		242

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 10/18/99 Analyst Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7		243
Tetrahydrofuran	45	34.8-60.3		244
Carbondisulfide	20	11.0-30.4		245
Styrene	20	12.4-30.0		246
Vinyl Acetate	20	11.0-27.5		247
Amyl Acetate	44	14.7-64.6		248
Methyl Butyl Ketone	20	10.3-33.9		249
CIS-1,2-DCE	20		22.5	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 10/18/99 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	
Bromomethane	
Vinyl chloride	<0.5
Chloroethane	
Methylene chloride	
Acrolein	
Acrylonitrile	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<0.5
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	<0.5
Benzene	<0.5
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	<0.5
1,1,2,2-Tetrachloroethane	
Toluene	<0.5
Chlorobenzene	
Ethyl benzene	<0.5
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<0.5
2-Butanone - MEK	
4-Methyl-2-pentanone	
Acetone	
Syrene	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 10/18/94 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	
Vinyl Acetate	
2-Hexanone - MBK	
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<0.5

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 10/18/99 Analyst Ecklund
Samples associated with this repeat control:

Sample used as repeat control: 910-06-403
AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane						820
Bromomethane						819
Vinyl chloride	32	31		27	3.2%	828
Chloroethane						807
Methylene chloride				17		821
Acrolein						800
Acrylonitrile						801
1,1-Dichloroethene						813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene	<0.5	<0.5		28	0	814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	<0.5	<0.5		32	0	827
Benzene	<0.5	<0.5		49	0	802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene	<0.5	<0.5		33	0	823
1,1,2,2-Tetrachloroethane						822
Toluene	<0.5	<0.5		38	0	824
Chlorobenzene				24		805
Ethyl benzene	<0.5	<0.5		5	0	818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone				26		836

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 10/18/99 Analyst Eckelund

Samples associated with this repeat control:

Sample used as repeat control: 910-06-403

AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone						
MIBK						
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	27	25			7.7%	
Xylene	<0.5	<0.5			0	
Vinyl Acetate						

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 10/18/95 Analyst Ecklund

Samples associated with this spiked control:

Sample used as spiked control: 910-13-027

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20			31-187		520
Bromomethane	20			34-207		519
Vinyl chloride	20	16	<2	26-183	70%	528
Chloroethane	20			55-168		507
Methylene chloride	20			63-151		521
Acrolein	62			23-183		500
Acrylonitrile	58			52-186		501
1,1-Dichloroethene	20			52-159		513
1,1-Dichloroethane	20			73-144		511
trans-1,2-Dichloroethene	20	21	<2	64-151	105%	514
Chloroform	20			68-142		509
1,2-Dichloroethane	20			54-155		512
1,1,1-Trichloroethane	20			59-158		525
Carbon tetrachloride	20			39-147		504
Bromodichloromethane	20			47-148		510
1,2-Dichloropropane	20			67-144		515
trans-1,3-Dichloropropene	20			56-141		517
Trichloroethene	20	19	<2	64-130	95%	527
Benzene	20	17	<2	71-142	85%	502
Dibromochloromethane	20			29-155		506
1,1,2-Trichloroethane	20			61-146		526
cis-1,3-Dichloropropene	20			46-149		516
2-Chloroethyl vinyl ether	20			7-183		508
Bromoform	20			10-149		503
Tetrachloroethene	20	18	<2	50-160	90%	523
1,1,2,2-Tetrachloroethane	20			44-163		522
Toluene	20	20	<2	73-130	100%	524
Chlorobenzene	20			72-131		505
Ethyl benzene	20	20	<2	62-139	100%	518
1,3-Dichlorobenzene	26			60-161		530
1,2-Dichlorobenzene	26			45-157		529
1,4-Dichlorobenzene	20			36-174		531
Diethyl Benzene	44	42-44		71-137		533
Ethyl Ether	35			62-160		532
Xylenes	44	44	<2	72-130	100%	534
MEK	20			63-179		536

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 10/18/99 Analyst Ecklund

Samples associated with this spiked control:

Sample used as spiked control: 910-13-027

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			72-154		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
cis-1,2-DCE	20	21	<2		105%	

WHITE COPY - Original (Accompanies Samples) YELLOW COPY - Collector

CHAIN-OF-CUSTODY RECORD

DATE Station Number	Time (24 hr.)	Container ID	Sampler ID	Location Description	Sample Type	ANALYSES REQUIRED	Total # of Cont.	Note #
10.5.99		MW-11			GW	SEE NOTE		
10.6.99		MW-12			GW			
10.6.99		MW-10			GW			
10.6.99		MW-9			GW			
10.6.99		MW-13			GW			

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Chris Baron	10.6.99 1507	Bill Slater
Bill Slater	10-6-99 1800	Toni Watt
Toni Watt	10-6-99	
	10-29-99	9:45
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

NOTES:
- I will fax the Test Parameters for the samples tonight.
- Cooler contains Nitrate samples with a 48HR. hold time.
- Sample VOC for both Tran and CIS DCE.
- Upon receiving this C.O.C. please fax a copy to us at 716-685-3629.

ANALYTICAL LABORATORY: Free-Col

LABORATORY CONTACT:

GZA CONTACT: Gary Klawinski

GZA GeoEnvironmental of New York
364 Nagel Drive
BUFFALO, NY 14225
(716) 685-2300

GZA FILE NO. 55309.2 P.O. NO.

PROJECT DELPHI

LOCATION LOCKPORT, NY

COLLECTOR Chris Baron / Lisa Visco

DATE OF COLLECTION 10.5.99 / 10.6.99 SHEET 1 OF 1

DELPHI HARRISON THERMAL SYSTEMS
GENERAL MOTORS CORPORATION

GROUNDWATER SAMPLES
DAY 2
MW-4,MW-8,MW-6,
MW-3S,MW-7,TK-2

10/06-07/99

P.O.# ACARD

Report reviewed and approved by:

John Paraska
Quality Assurance Supervisor

FREE-COL LABORATORIES, LTD.
P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/29/99

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW-4 10/07/99	MW-8 10/07/99	MW-6 10/07/99	MW-3S 10/07/99
		LAB ID 91007415	91007416	91007417	91007418
		DATE RECEIVED: 10/07/99	10/07/99	10/07/99	10/07/99
PERCHLOROETHYLENE	MG/L	<0.05 D	0.011	44	<0.02 D
1,2-DICHLOROETHENE	MG/L	100	2.8	14	270
VINYL CHLORIDE	MG/L	14	0.18	1.6	2.9
TRANS-1,2-DICHLOROE*	MG/L	0.14	0.002	<0.05 D	0.09
METHANE	MG/L	4.2	0.04	0.34	0.007
ACID DIGESTION PREP		COMPLETE	COMPLETE	COMPLETE	COMPLETE
BENZENE	MG/L	<0.05 D	<0.002 D	<0.05 D	1.9
TOLUENE	MG/L	<0.05 D	<0.002 D	<0.05 D	1.5
ETHYLBENZENE	MG/L	<0.05 D	<0.002 D	<0.05 D	1.5
XYLENE	MG/L	<0.05 D	<0.002 D	<0.05 D	2.1
T.O.C. MG/L		47	19	30	51
ALKALINITY MG/L		360	280	260	480
NH3-N DISTILLED MG/L		1.03	0.33	0.32	0.16
CHLORIDE MG/L		1,010	144	476	233
NO2-NO3-N MG/L		0.08	0.10	0.09	0.07

*TRANS-1,2-DICHLOROETHENE

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

10/29/99

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # ACARD

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : LAB ID / DATE RECEIVED:	MW-4 91007415 10/07/99	MW-8 91007416 10/07/99	MW-6 91007417 10/07/99	MW-3S 91007418 10/07/99
SULFATE MG/L			110	570	140	14
SULFIDE MG/L			0.3	0.3	0.4	0.3
CIS-1,2-DICHLOROETH*	MG/L		100	2.8	14	270
TRICHLOROETHYLENE	MG/L		20	0.20	19	0.04

*CIS-1,2-DICHLOROETHENE

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

Project Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

Sample ID: 2001:0008445-1 **Client's Sample ID:** MW-13 Grab
Date Sampled: 8/8/01 **Time Sampled:** 09:45 **Date Received:** 8/8/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Methane	0.08	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Metals						
Calcium (Ca)	209	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	2.59	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	49.6	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	2.67	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	12.1	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	1200	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	255	mg/L	08/13/01	09:20	Hayes	SM 2320 B
Total Organic Carbon	15.2	mg/L	08/13/01	15:00	Pearson	SW-846 9060
Chloride	1900	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	1.45	mg/L	08/15/01	08:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.05	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Sulfate	160	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	<0.1	mg/L	08/10/01	10:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
ontact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

roject Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

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mple ID: 2001:0008445-2 Client's Sample ID: MW-15 Grab
te Sampled: 8/8/01 Time Sampled: 11:40 Date Received: 8/8/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
ep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
ns-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Methane	<0.002	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
trachloroethylene	0.013	mg/L	08/15/01	21:08	Henry	SW-846 8260B
ichloroethylene	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Metals						
alcium (Ca)	281	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	2.33	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
gnesium (Mg)	70.4	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
nganese (Mn)	0.46	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	4.9	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	204	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	410	mg/L	08/13/01	09:20	Hayes	SM 2320 B
al Organic Carbon	11.7	mg/L	08/10/01	15:30	Pearson	SW-846 9060
loride	600	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	0.08	mg/L	08/15/01	08:00	Hayes	EPA 350.2
rogen, Nitrate	1.34	mg/L	08/08/01	14:30	Pearson	EPA 353.2
rogen, Nitrite	<0.05	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Sulfate	160	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	0.1	mg/L	08/10/01	10:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
ontact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

roject Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

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mple ID: 2001:0008445-3 **Client's Sample ID:** MW-11 Grab
te Sampled: 8/8/01 **Time Sampled:** 14:55 **Date Received:** 8/8/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
ep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
-1,2-Dichloroethylene	**0.009**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
ns-1,2-Dichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Methane	**<0.002**	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
trachloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
ichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Vinyl chloride	**0.008**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Metals						
alcium (Ca)	**111**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	**0.14**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
agnesium (Mg)	**43.2**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
nganese (Mn)	**0.12**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	**8.0**	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	**130**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	**285**	mg/L	08/13/01	09:20	Hayes	SM 2320 B
tal Organic Carbon	**12.0**	mg/L	08/10/01	15:30	Pearson	SW-846 9060
loride	**250**	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	**0.46**	mg/L	08/15/01	08:00	Hayes	EPA 350.2
rogen, Nitrate	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
rogen, Nitrite	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Sulfate	**140**	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	**0.1**	mg/L	08/10/01	10:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

Project Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

Sample ID: 2001:0008445-4 **Client's Sample ID:** MW-12 Grab
Date Sampled: 8/8/01 **Time Sampled:** 16:00 **Date Received:** 8/8/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	**0.14**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Methane	**0.50**	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
Tetrachloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Trichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Vinyl chloride	**0.13**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Metals						
Calcium (Ca)	**217**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	**16.9**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	**57.5**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	**8.41**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	**6.3**	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	**427**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	**336**	mg/L	08/13/01	09:20	Hayes	SM 2320 B
Total Organic Carbon	**13.9**	mg/L	08/10/01	15:30	Pearson	SW-846 9060
Chloride	**920**	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	**1.77**	mg/L	08/15/01	08:00	Hayes	EPA 350.2
Nitrogen, Nitrate	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Sulfate	**160**	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	**<0.1**	mg/L	08/10/01	10:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

Project Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

Sample ID: 2001:0008445-5 **Client's Sample ID:** MW-Dup Grab
Date Sampled: 8/8/01 **Time Sampled:** 12:00 **Date Received:** 8/8/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	**0.13**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Methane	**0.74**	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
Tetrachloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Trichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Vinyl chloride	**0.12**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Metals						
Calcium (Ca)	**217**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	**14.8**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	**56.2**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	**8.14**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	**6.0**	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	**433**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	**338**	mg/L	08/13/01	09:20	Hayes	SM 2320 B
Total Organic Carbon	**14.9**	mg/L	08/10/01	15:30	Pearson	SW-846 9060
Chloride	**930**	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	**1.85**	mg/L	08/15/01	08:00	Hayes	EPA 350.2
Nitrogen, Nitrate	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	**<0.05**	mg/L	08/08/01	14:30	Pearson	EPA 353.2
Sulfate	**160**	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	**<0.1**	mg/L	08/10/01	10:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008445 6 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
ontact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/8/01
Time Received: 19:45
Delivered By: Field Services

ACARD

roject Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:28PM

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mple ID: **2001:0008445-6** **Client's Sample ID:** **Trip Blank**
ate Sampled: **8/8/01** **Time Sampled:** **Date Received:** **8/8/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
-1,2-Dichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
rans-1,2-Dichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
Tetrachloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
ichloroethylene	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B
nyl chloride	**<0.002**	mg/L	08/15/01	21:08	Henry	SW-846 8260B

PC: GZA

Supplemental Revision on 09/04/01 to Report 2001:0008445 printed on 08/24/01.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

QUALITY CONTROL DATA I

PARAMETER: Potassium ICP ANALYST: KozaKowskey DATE: 8-31-01

CALIBRATION CHECK Units: mg/L

Target	Acceptance Limits					
5.00	4.75 to 5.25					
25.00	23.8 to 26.2	25.5	24.4	24.0	24.1	24.4

LABORATORY CONTROL SAMPLE Units: mg/L

	Target	Acceptance Limits	Assayed Value			
PW, WW	25.0	23.8 to 26.2	Date Prepped:			
GW/MW, SW	25.0	22.5 to 27.5	Date Prepped:	8-20-01	8-28-01	

DUPLICATE/REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.4 Acceptable RPD: 21.3 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
2001-8957-1	1.5	1.6	0.1	— %
2001-9378-4	0.8	0.7	0.1	— %
2001-9028-1 (2xDil)	2.0	2.0	0.0	— %
2001-8897-1	0.7	0.9	0.2	— %

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
2001-8957-2	19.1	21.1	1.21	104
2001-9378-5	19.1	20.2	0.689	102
2001-9028-1 (2xDil)	19.1	20.8	2.01	98

BLANK Units: mg/L

Results: -0.045, 0.032, -0.010, -0.113, -0.115

Method Blank: <0.2, <0.2

Date Prepped: 8-20-01, 8-28-01

REPORTING LIMIT Units: mg/L

Limit Value: 0.2 Assayed Value: 0.172, ____, ____

FREE-COL LABORATORIES

A Division of Modern Industries, Inc.

P.O. BOX 557, 11618 COTTON ROAD

MEADVILLE, PA 16335

(814) 724-6242

LIMITS IN EFFECT AS OF OCTOBER 9, 2000

CHAIN OF CUSTODY RECORD

Page ___ of ___

11618 COTTON ROAD
MEADVILLE, PA
16335-0557
Website: www.free-col.com
814 724-6[illegible]
814 333-1466

1 CLIENT INFORMATION

COMPANY GZA GeoEnvironmental
CONTACT Gary Klawinski
ADDRESS 364 Nagel Drive
CITY Buffalo
STATE NY ZIP CODE 14225
PHONE 716 685 2300 FAX 716 685 8629
PURCHASE ORDER NUMBER
CLIENT #

2 SAMPLE REPORTING INFORMATION

Check all that apply	Sample Type	DEP drinking water compliance, provide the following: DRINKING WATER:
NORMAL	Wastewater:	PWSID #:
Rush (Specify)	Frequency	Location:
QA/QC	(Monitoring Wells)	Entry Point #:
Due Date	Solid Waste:	Sampling Frequency (Circle One):
Fax Data	Frequency	Quarterly/Monthly/Annual
Non-Compliance	Other:	Check Sample: Yes / No
Compliance	Frequency	

3 PROJECT NAME / NUMBER Delphi FRI/FFS 55089.

4 SAMPLER'S NAME / DATE Chris Boron 8/8/01

SAMPLE RANGE:

5 SAMPLE INFORMATION

	DATE	TIME	SAMPLE IDENTIFICATION	FREE-COL ID	RESULTS	GRAB/COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.) (See Below) TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Total Metals, VOC
1	8/8/01	945	MW-13	8115-1		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Total Metals, VOC
2	8/8/01	1140	MW-15	8115-2		G	See MW-13
3	8/8/01	1455	MW-11	8115-3		G	See MW-13
4	8/8/01	1600	MW-12	8115-4		G	See MW-13
5	8/8/01	1200	MW-DUP	8115-5		G	See MW-13
6							8260
7			T.B.	6			
8							V.O.C / BTEX
9							Total Metals List / VOC / ~~Benzene~~
10							Calcium / Trichloroethene / ~~Toluene~~
11							Iron / Tetrachloroethene / ~~Ethylbenzene~~
12							Magnesium / Trans 1,2 Dichloroethene / ~~Total Xylene~~
13							Manganese / Cis 1,2 Dichloroethene / only BTEX [illegible]
14							Sodium / Vinyl Chloride
15							

6 SAMPLE TRACEABILITY

	Date Received	SIGNATURE	ORGANIZATION	DATE RELINQUISHED
			GZA	8/8/01
1	8/8/01	[signature]	F.C.C.	8/8/01
2	8/8/01	[signature]	Free Col	8/8/01
3	8/8/01	Jim Watt	[signature]	8/27/01
4	8/8/01	[signature]	FC[illegible]	9/5/01
5	8/27/01	[signature]		
6				
7				

USE BY LABORATORY ONLY

Samples received at lab 8/8/01 Time 2:45 Refrigerated upon receipt (YES) NO
Means of delivery to lab T.S.
Sample cooler temp. upon receipt (deg. C) 1.0 [illegible]
Sample check in started 8/8/01 Completed 8/8/[illegible]
Analyst Date Run
Reviewed by Date
Worksheet Number

1 meth 12 vial 5 TOC 5 sulfide [illegible] 20 [illegible] 5 PH 5 [illegible]

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008515 4 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/9/01
Time Received: 16:40
Delivered By: Field Services

ACARD

Printed on 09/04/2001 at 04:34PM

Sample ID: 2001:0008515-1 **Client's Sample ID:** MW-10 Grab
Date Sampled: 8/9/01 **Time Sampled:** 09:55 **Date Received:** 8/9/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Filtration of Sample	Completed		08/17/01	08:00	Davis	In House
Organics						
cis-1,2-Dichloroethylene	**0.51**	mg/L	08/15/01	18:14	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	**0.004**	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Methane	**0.018**	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
Tetrachloroethylene	**0.21**	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Trichloroethylene	**0.21**	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Vinyl chloride	**0.057**	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Metals						
Calcium (Ca)	**330**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	**0.14**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	**98.9**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	**1.66**	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	**9.2**	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	**857**	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	**334**	mg/L	08/14/01	09:46	Hayes	SM 2320 B
Total Organic Carbon	**10.0**	mg/L	08/21/01	15:30	Pearson	SW-846 9060
Chloride	**1700**	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	**0.16**	mg/L	08/15/01	08:00	Hayes	EPA 350.2
Nitrogen, Nitrate	**0.08**	mg/L	08/16/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	**<0.05**	mg/L	08/10/01	22:00	Pearson	EPA 353.2
Sulfate	**330**	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	**0.1**	mg/L	08/15/01	14:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008515 4 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/9/01
Time Received: 16:40
Delivered By: Field Services

ACARD

Printed on 09/04/2001 at 04:34PM

Sample ID: 2001:0008515-2 **Client's Sample ID: MW-10 Filtrate of DG-8515-1**
Date Sampled: 8/9/01 **Time Sampled: 09:55** **Date Received: 8/9/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Metals						
Magnesium (Mg)	99.6	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Sodium (Na)	845	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B

Sample ID: 2001:0008515-3 **Client's Sample ID: MW-4 Grab**
Date Sampled: 8/9/01 **Time Sampled: 13:20** **Date Received: 8/9/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/16/01	08:00	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	93	mg/L	08/15/01	18:14	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	0.28	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Methane	0.12	mg/L	08/16/01	08:29	Williams	SW-846 8015B Mod
Tetrachloroethylene	0.003	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Trichloroethylene	30	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Vinyl chloride	18	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Metals						
Calcium (Ca)	371	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Iron (Fe)	1.01	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	107	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	0.54	mg/L	08/17/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	12.7	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	384	mg/L	08/17/01	14:30	Kozakovsky	SW-846 6010B
General Chemistry						

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008515 4 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
ontact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/9/01
Time Received: 16:40
Delivered By: Field Services

ACARD

Printed on 09/04/2001 at 04:34PM

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mple ID: 2001:0008515-3 **Client's Sample ID: MW-4 Grab**
te Sampled: 8/9/01 **Time Sampled: 13:20** **Date Received: 8/9/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
General Chemistry (Continued)						
kalinity (as CaCO3)	366	mg/L	08/14/01	09:46	Hayes	SM 2320 B
otal Organic Carbon	20.2	mg/L	08/21/01	15:30	Pearson	SW-846 9060
Chloride	1300	mg/L	08/13/01	12:00	Hayes	EPA 325.3
trogen, Ammonia	1.20	mg/L	08/15/01	08:00	Hayes	EPA 350.2
trogen, Nitrate	0.11	mg/L	08/16/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	08/10/01	22:00	Pearson	EPA 353.2
lfate	190	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
lfide, Direct	0.2	mg/L	08/15/01	14:00	Hayes	EPA 376.1

Sample ID: 2001:0008515-4 **Client's Sample ID: Trip Blank**
te Sampled: 8/9/01 **Time Sampled:** **Date Received: 8/9/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	18:14	Henry	SW-846 8260B
is-1,2-Dichloroethylene	<0.002	mg/L	08/15/01	18:14	Henry	SW-846 8260B
Tetrachloroethylene	<0.002	mg/L	08/15/01	18:14	Henry	SW-846 8260B
chloroethylene	<0.002	mg/L	08/15/01	18:14	Henry	SW-846 8260B
yl chloride	<0.002	mg/L	08/15/01	18:14	Henry	SW-846 8260B

PC: GZA

Supplemental Revision on 09/04/01 to Report 2001:0008515 printed on 08/26/01.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

QUALITY CONTROL DATA I

PARAMETER: Potassium ICP ANALYST: KozaKowsky DATE: 8-31-01

CALIBRATION CHECK Units: mg/L

Target	Acceptance Limits					
5.00	4.75 to 5.25					
25.00	23.8 to 26.2	25.5	24.4	24.0	24.1	24.4

LABORATORY CONTROL SAMPLE Units: mg/L

	Target	Acceptance Limits	Assayed Value:			
PW, WW	25.0	23.8 to 26.2	Date Prepped:			
GW/MW, SW	25.0	22.5 to 27.5	Date Prepped:	8-20-01	8-28-01	

DUPLICATE/REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.4 Acceptable RPD: 21.3 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
001-8957-1	1.5	1.6	0.1	— %
001-9378-4	0.8	0.7	0.1	— %
001-9028-1 (2xDil)	2.0	2.0	0.0	— %
2001-8897-1	0.7	0.9	0.2	— %

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
2001-8957-2	19.1	21.1	1.21	104
2001-9378-5	19.1	20.2	0.689	102
001-9028-1 (2xDil)	19.1	20.8	2.01	98

BLANK Units: mg/L

Results: -0.045, 0.032, -0.010, -0.113, -0.115

Method Blank: <0.2, <0.2

Date Prepped: 8-20-01, 8-28-01

REPORTING LIMIT Units: mg/L

Limit Value: 0.2 Assayed Value: 0.172, ____, ____

FREE-COL LABORATORIES

A Division of Modern Industries, Inc.

P.O. BOX 557, 11618 COTTON ROAD

MEADVILLE, PA 16335

(814) 724-6242

LIMITS IN EFFECT AS OF OCTOBER 9, 2000

AIN OF CUSTODY RECORD

Page ____ of ____

FREE-COL LA[illegible]ATO[illegible], Div[illegible] of M[illegible] Ind[illegible]
P.O. BOX 557 — 800 836 - 4130
11618 COTTON ROAD — 814 724 - 6242
MEADVILLE, PA — 814 333 - 1466 Fax
16335-0557
Website: www.free-col.com

CLIENT INFORMATION

ANY: GZA GeoEnvironmental
ACT: Gary Klawinski
ESS: 364 Nagel Drive
Buffalo
E: NY — ZIP CODE: 14225
716 685 2300 — FAX: 716 685 3629
CHASE ORDER NUMBER
ENT #

2 SAMPLE REPORTING INFORMATION

Check all that apply	Sample Type	DEP drinking water compliance provide the following:
NORMAL	Wastewater	DRINKING WATER:
Rush (Specify)	Frequency	PWSID #:
QA/QC	(Monitoring Wells)	Location:
Due Date	~~Solid Waste~~	Entry Point #:
Fax Data	Frequency	Sampling Frequency (Circle One):
Non-Compliance	Other	Quarterly/Monthly/Annual
	Compliance	Check Sample: Yes / No

3 PROJECT NAME / NUMBER

4 SAMPLER'S NAME / DATE

5 SAMPLE INFORMATION

SAMPLE RANGE:

DATE	TIME	SAMPLE IDENTIFICATION	FREE-COL ID	RESULTS	GRAB/COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)
9/01	955	MW-10	8515-1/2		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Total Metals, Dissolved Metals, VOC
9/01	1320	MW-4	3/2		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Total Metals, VOC
9/01	—	~~Tripblank~~	4/3			

Dissolved Metals: Sodium, Magnesium

Total Metals: Calcium, Iron, Magnesium, Manganese, Sodium

VOC: Trichloroethene, Tetrachloroethene, Trans 1,2 Dichloroethene, Cis 1,2 Dichloroethene, Vinyl Chloride

~~VOL: Benzene, Toluene, Ethylbenzene, Total Xylene~~

6 SAMPLE TRACEABILITY

Date Received	Signature	Organization	Date Relinquished
8/7/01	[signature]	GZA	8/9/01
8/9/01	[signature]	F. C. Labs	8/9/01
8/9/01	[signature]	Free Col	8/9/01
8/9/01	[signature]	RW	8/27/01
8/27/01	[signature]	RW	9/5/01

USE BY LABORATORY ONLY

Samples received at lab: Date 8/9/01 Time 4:40 Refrigerated upon receipt? (YES) NO
Means of delivery to lab: T.S.
Sample cooler temp. upon receipt (deg. C): 1.0 B
Sample check in started: 8/9/01 Completed: 8/9/01
Analyst — Date Run
Reviewed by — Date
Worksheet Number

coc master 2000 Rev. 11-13-00

... 7 TOC 20mm [illegible] 1/2 cm [illegible] [illegible] [illegible]

FREE-COL LABORATORIES

P.O. BOX 557
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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008583 4 Sample(s) are included in this Delivery Group.

Company Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/11/01
Time Received: 12:00
Delivered By: Fed Ex

ACARD

Project Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:34PM

Sample ID: 2001:0008583-1 **Client's Sample ID:** MW-14 Grab
Date Sampled: 8/10/01 **Time Sampled:** 08:15 **Date Received:** 8/11/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			08/20/01	08:00	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	0.005	mg/L	08/16/01	00:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Methane	<0.002	mg/L	08/18/01	08:00	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Metals						
Calcium (Ca)	144	mg/L	08/21/01	18:30	Kozakovsky	SW-846 6010B
Iron (Fe)	0.18	mg/L	08/22/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	64.1	mg/L	08/21/01	18:30	Kozakovsky	SW-846 6010B
Manganese (Mn)	0.04	mg/L	08/22/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	6.4	mg/L	08/31/01	09:30	Kozakovsky	SW-846 6010B
Sodium (Na)	394	mg/L	08/21/01	18:30	Kozakovsky	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	328	mg/L	08/14/01	09:46	Hayes	SM 2320 B
Total Organic Carbon	14.1	mg/L	08/21/01	15:30	Pearson	SW-846 9060
Chloride	680	mg/L	08/13/01	12:00	Hayes	EPA 325.3
Nitrogen, Ammonia	0.19	mg/L	08/15/01	08:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.08	mg/L	08/16/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	08/11/01	12:30	Pearson	EPA 353.2
Sulfate	130	mg/L	08/15/01	17:00	Hopkins	SW-846 9038
Sulfide, Direct	<0.1	mg/L	08/15/01	14:00	Hayes	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008583 4 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
ontact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/11/01
Time Received: 12:00
Delivered By: Fed Ex

ACARD

roject Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:34PM

---

mple ID: 2001:0008583-2 **Client's Sample ID: MW-3D Grab**
ate Sampled: 8/10/01 **Time Sampled: 11:10** **Date Received: 8/11/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
s-1,2-Dichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Tetrachloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
ichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
nyl chloride	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B

---

mple ID: 2001:0008583-3 **Client's Sample ID: MW-3S Grab**
ate Sampled: 8/10/01 **Time Sampled: 11:15** **Date Received: 8/11/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
Volatile Organics (BTEX)						
Benzene	1.5	mg/L	08/16/01	00:36	Henry	SW-846 8260B
luene	1.1	mg/L	08/16/01	00:36	Henry	SW-846 8260B
ylbenzene	1.2	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Xylene	1.5	mg/L	08/16/01	00:36	Henry	SW-846 8260B

---

mple ID: 2001:0008583-4 **Client's Sample ID: Trip Blank Grab**
Date Sampled: 8/10/01 **Time Sampled:** **Date Received: 8/11/01**

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B

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EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0008583 4 Sample(s) are included in this Delivery Group.

ompany Name: Delphi Automotive Systems
Contact Name: Mr. Greg Kulka
Delphi Harrison Thermal System
200 Upper Mountain Road
Lockport, NY 14094-1896

Date Received 8/11/01
Time Received: 12:00
Delivered By: Fed Ex

ACARD

roject Name: Delphi FRI/FFS 55039.2

Printed on 09/04/2001 at 04:34PM

---

mple ID: 2001:0008583-4 **Client's Sample ID:** Trip Blank Grab
ate Sampled: 8/10/01 **Time Sampled:** **Date Received:** 8/11/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics (Continued)						
trachloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Volatile Organics (BTEX)						
Benzene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
Toluene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
hylbenzene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B
lene	<0.002	mg/L	08/16/01	00:36	Henry	SW-846 8260B

PC: GZA

Supplemental Revision on 09/04/01 to Report 2001:0008583 printed on 08/26/01.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

QUALITY CONTROL DATA I

PARAMETER: Potassium ICP ANALYST: KozaKowsky DATE: 8-31-01

CALIBRATION CHECK Units: mg/L

Target	Acceptance Limits					
5.00	4.75 to 5.25					
25.00	23.8 to 26.2	25.5	24.4	24.0	24.1	24.4

LABORATORY CONTROL SAMPLE Units: mg/L

	Target	Acceptance Limits	Assayed Value				
PW, WW	25.0	23.8 to 26.2	Date Prepped:				
GW/MW, SW	25.0	22.5 to 27.5	Date Prepped:	8-20-01	8-28-01		

DUPLICATE/REPEAT CONTROL AD = Absolute Difference RPD = Relative Percent Difference

Units: mg/L

Acceptable AD: 0.4 Acceptable RPD: 21.3 %

Sample I.D.	Sample Result	Repeat Result	AD	RPD
001-8957-1	1.5	1.6	0.1	— %
001-9378-4	0.8	0.7	0.1	— %
001-9028-1 (2xDil)	2.0	2.0	0.0	— %
2001-8897-1	0.7	0.9	0.2	— %

SPIKE CONTROL Units: mg/L

Acceptable Limits for Percent Recovery: 85 % to 115 %

Sample I.D.	Spike Added	Spike Result	Sample Result	% Recovery
2001-8957-2	19.1	21.1	1.21	104
2001-9378-5	19.1	20.2	0.689	102
001-9028-1 (2xDil)	19.1	20.8	2.01	98

BLANK Units: mg/L

Results: -0.045, 0.032, -0.010, -0.113, -0.115

Method Blank: <0.2, <0.2

Date Prepped: 8-20-01, 8-28-01

REPORTING LIMIT Units: mg/L

Limit Value: 0.2 Assayed Value: 0.172, ____, ____

FREE-COL LABORATORIES

A Division of Modern Industries, Inc.

P.O. BOX 557, 11618 COTTON ROAD

MEADVILLE, PA 16335

(814) 724-6242

LIMITS IN EFFECT AS OF OCTOBER 9, 2000

CHAIN OF CUSTODY RECORD

Page ___ of ___

FREE-COL LABORATORIES
P.O. BOX 557
11618 COTTON ROAD
MEADVILLE, PA
16335-0557
800 836-41..
814 724-6242
814 333-1466 Fax
Website: www.free-col.com

1 CLIENT INFORMATION

COMPANY: GZA
CONTACT: Gary Klawinski
ADDRESS: 364 Nagel Drive
CITY: Buffalo
STATE: NY
ZIP CODE: 14225
PHONE: 716 685-2300
FAX: 716 685 3629
PURCHASE ORDER NUMBER:
CLIENT #:

2 SAMPLE REPORTING INFORMATION

Check all that apply	Sample Type	DEP drinking water compliance provide the following:
NORMAL	Wastewater	DRINKING WATER:
Rush (Specify)	Frequency	PWSID #:
QA/QC	Monitoring Wells (circled)	Location:
Due Date	~~Solid Waste~~	Entry Point #:
Fax Data	Frequency	Sampling Frequency (Circle One):
Non-Compliance	Other	Quarterly/Monthly/Annual
	Compliance	Check Sample: Yes / No

3 PROJECT NAME / NUMBER: Delphi FRI/FFS 55039.2

4 SAMPLER'S NAME / DATE: Chris Boron 8/10/01

SAMPLE RANGE:

5 SAMPLE INFORMATION

	DATE	TIME	SAMPLE IDENTIFICATION	FREE-COL ID	RESULTS	GRAB/COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)
1	8/10/01	815	MW-14	85831		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Methane,
2							Total Metals, ~~[illegible]~~ Trichloroethene, Tetrachloroethene,
3							Trans 1,2 Dichloroethene, Cis 1,2 Dichloroethene, Vinyl Chloride
4							Sulfide
5	8/10/01	1110	MW-3D	2		G	Trichloroethene, Tetrachloroethene, Trans 1,2 Dichloroethene,
6							Cis 1,2 Dichloroethene, Vinyl Chloride
7							
8	8/10/01	1115	MW-3S	3		G	Benzene, Toluene, Ethylbenzene, Total Xylene
9							
10							
11			T.B.				
12							
13							
14							
15							

6 SAMPLE TRACEABILITY

	Date Received	SIGNATURE	ORGANIZATION	DATE RELINQUISHED
1	8/7/01	Chris Boron	GZA	8/10/01
2		FED Ex Pickup		8/10/01
3	8/11/01	FeD ex Drop off		
4	8/11/01	[signature]	Free Col	8-10-01
5	8/10/01	[signature]	[signature]	8/27/01
6	8/27/01	[signature]	[signature]	9/5/01
7				

USE BY LABORATORY ONLY

Samples received at lab — Date: 8/11/01 Time: 12 00 Refrigerated upon receipt? (YES) NO
Means of delivery to lab: Fed Ex
Sample cooler temp. upon receipt (deg. C)
Sample check in started: 8-... Completed: 8-...
Analyst: Date Run:
Reviewed by: Date:
Worksheet Number:

coomaster2000 Rev. 11-13-00

... Sulfide, [illegible] TPH Methane 8 vial

FREE-COL LABORATORIES

P.O. BOX 557
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EMAIL: service@free-col.com

RECEIVED
DEC - 3 2001
GZA-BUFFALO

Certificate Of Analysis

Delivery Group ID: 2001:0011963 2 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 10:00
Delivered By: Fed Ex

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:39PM

Sample ID: 2001:0011963-1 **Client's Sample ID:** MW-13 Grab
Date Sampled: 10/29/01 **Time Sampled:** 15:30 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Methane	0.07	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Metals						
Iron (Fe)	3.75	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	40.9	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	2.96	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	8.2	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	1160	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	426	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	9.9	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	1700	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	1.29	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.61	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	0.08	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	120	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	2.2	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0011963 2 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 10:00
Delivered By: Fed Ex

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:39PM

Sample ID: 2001:0011963-2 **Client's Sample ID:** Trip Blank
Date Sampled: 10/29/01 **Time Sampled:** **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Tetrachloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	13:26	Henry	SW-846 8260B

PC: GZA

Supplemental Revision on 11/29/01 to Report 2001:0011963 printed on 11/15/01.

John R Paraska

QUALITY ASSURANCE SUPERVISOR

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
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Certificate Of Analysis

Delivery Group ID: 2001:0011989

7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-1 **Client's Sample ID:** MW-15 Grab
Date Sampled: 10/30/01 **Time Sampled:** 10:30 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Methane	<0.002	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	0.018	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.02	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	47.5	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.40	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	3.8	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	196	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	395	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	4.1	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	410	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	0.07	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.85	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	110	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	1.4	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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Certificate Of Analysis

Delivery Group ID: 2001:0011989 7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-2 **Client's Sample ID:** MW-11 Grab
Date Sampled: 10/30/01 **Time Sampled:** 12:15 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	0.008	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Methane	<0.002	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	0.006	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.02	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	38.7	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.41	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	9.1	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	120	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	265	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	3.1	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	230	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	0.46	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	110	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	2.8	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0011989 — 7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-3 **Client's Sample ID:** MW-12 Grab
Date Sampled: 10/30/01 **Time Sampled:** 13:30 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	0.032	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Methane	0.57	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	0.011	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Metals						
Iron (Fe)	4.73	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	37.0	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	4.69	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	5.0	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	342	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	309	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	5.7	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	590	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	1.35	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.18	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	110	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	3.5	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0011989 7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-4 **Client's Sample ID:** MW-14 Grab
Date Sampled: 10/30/01 **Time Sampled:** 14:45 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	0.004	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Methane	0.013	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.06	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	64.8	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.06	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	7.3	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	466	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	334	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	4.3	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	770	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	0.31	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	120	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	2.5	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

P.O. BOX 557
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0011989 7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-5 **Client's Sample ID:** MW-DUP Grab
Date Sampled: 10/30/01 **Time Sampled:** 12:00 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	12:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Methane	<0.002	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	0.020	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.03	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	47.6	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.39	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	4.0	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	198	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	386	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	3.7	mg/L	11/08/01	14:30	Pearson	SW-846 9060
Chloride	450	mg/L	11/01/01	14:00	Buttray	EPA 325.3
Nitrogen, Ammonia	0.05	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.91	mg/L	10/31/01	13:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	10/30/01	21:00	Pearson	EPA 353.2
Sulfate	110	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	1.5	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0011989 7 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 10/30/01
Time Received: 20:00
Delivered By: Field Services

P.O. RPB00999

Project Name: 55039.2 Delphi FRI/FFS

Printed on 11/29/2001 at 02:37PM

Sample ID: 2001:0011989-6 **Client's Sample ID:** MW-3S Grab
Date Sampled: 10/30/01 **Time Sampled:** 16:00 **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
Volatile Organics (BTEX)						
Benzene	1.5	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Toluene	1.0	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Ethylbenzene	1.1	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Xylene	1.7	mg/L	11/09/01	14:36	Henry	SW-846 8260B

Sample ID: 2001:0011989-7 **Client's Sample ID:** Trip Blank
Date Sampled: 10/30/01 **Time Sampled:** **Date Received:** 10/30/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Organics						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Tetrachloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Volatile Organics (BTEX)						
Benzene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Toluene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Ethylbenzene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B
Xylene	<0.002	mg/L	11/09/01	14:36	Henry	SW-846 8260B

PC: GZA

Supplemental Revision on 11/29/01 to Report 2001:0011989 printed on 11/15/01.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

FREE-COL LABORATORIES

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0012054 — 2 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 11/1/01
Time Received: 10:00
Delivered By: Fed Ex

P.O. RPB00999

Project Name: Delphi FRI/FFS 55039.2

Printed on 11/29/2001 at 02:29PM

Sample ID: 2001:0012054-1 **Client's Sample ID:** MW-10 Grab
Date Sampled: 10/31/01 **Time Sampled:** 09:15 **Date Received:** 11/1/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	14:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	0.47	mg/L	11/09/01	18:41	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	0.003	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Methane	0.20	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	0.023	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Trichloroethylene	0.25	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Vinyl chloride	0.053	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.05	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	92.1	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.91	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	7.6	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	720	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	336	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	3.6	mg/L	11/13/01	14:30	Pearson	SW-846 9060
Chloride	2800	mg/L	11/05/01	13:00	Buttray	EPA 325.3
Nitrogen, Ammonia	0.12	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	0.17	mg/L	11/06/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/01/01	22:00	Pearson	EPA 353.2
Sulfate	280	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	1.6	mg/L	11/01/01	14:30	Adsit	EPA 376.1

FREE-COL LABORATORIES

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PHONE: (814) 724-6242
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EMAIL: service@free-col.com

Certificate Of Analysis

Delivery Group ID: 2001:0012054 — 2 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenmen

P.O. Box 92700
Rochester, NY 14692

Date Received 11/1/01
Time Received: 10:00
Delivered By: Fed Ex

P.O. RPB00999

Project Name: Delphi FRI/FFS 55039.2

Printed on 11/29/2001 at 02:29PM

Sample ID: 2001:0012054-2 **Client's Sample ID:** MW-4 Grab
Date Sampled: 10/31/01 **Time Sampled:** 11:25 **Date Received:** 11/1/01

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
Prep Group						
Prep: 3005A Met Total Rec			11/01/01	14:30	Davis	SW-846 3005A
Organics						
cis-1,2-Dichloroethylene	84	mg/L	11/09/01	18:41	Henry	SW-846 8260B
trans-1,2-Dichloroethylene	0.25	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Methane	3.3	mg/L	11/01/01	10:55	Williams	SW-846 8015B Mod
Tetrachloroethylene	<0.002	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Trichloroethylene	22	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Vinyl chloride	18	mg/L	11/09/01	18:41	Henry	SW-846 8260B
Metals						
Iron (Fe)	0.77	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Magnesium (Mg)	102	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Manganese (Mn)	0.46	mg/L	11/13/01	08:00	Prutzman	SW-846 6010B
Potassium (K)	12.3	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
Sodium (Na)	358	mg/L	11/05/01	17:00	Prutzman	SW-846 6010B
General Chemistry						
Alkalinity (as CaCO3)	366	mg/L	11/05/01	13:00	Adsit	SM 2320 B
Total Organic Carbon	10.8	mg/L	11/13/01	14:30	Pearson	SW-846 9060
Chloride	1100	mg/L	11/05/01	13:00	Buttray	EPA 325.3
Nitrogen, Ammonia	1.17	mg/L	11/05/01	14:00	Hayes	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	11/06/01	14:30	Pearson	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/01/01	22:00	Pearson	EPA 353.2
Sulfate	160	mg/L	11/06/01	13:30	Hayes	SW-846 9038
Sulfide, Direct	1.2	mg/L	11/01/01	14:30	Adsit	EPA 376.1

CC: GZA

Supplemental Revision on 11/29/01 to Report 2001:0012054 printed on 11/26/01.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

Page 1 of 1

FREE-COL LABORATORIES, Division of Modern Ind.

P.O. BOX 557 — 800 836-4130
11618 COTTON ROAD — 814 724-6242
MEADVILLE, PA — 814 333-1466 Fax
16335-0557
Website: www.free-col.com

1 CLIENT INFORMATION

COMPANY	GZA
CONTACT	Gary Klawinski
ADDRESS	364 Nagel Drive
CITY	Buffalo
STATE	NY
ZIP CODE	14225
PHONE	716 685 2300
FAX	716 685 3629
PURCHASE ORDER NUMBER	
CLIENT #	

2 SAMPLE REPORTING INFORMATION

Check all that apply	Sample Type	DEP (if drinking water compliance provide the following)
NORMAL	Wastewater:	DRINKING WATER:
Rush (Specify)	Frequency	PWSID #:
QA/QC	Monitoring Wells	Location:
Due Date	Solid Waste:	Entry Point #:
Fax Data	Frequency	Sampling Frequency (Circle One):
Non-Compliance	Other:	Quarterly/Monthly/Annual
Compliance	Frequency	Check Sample: Yes / No

3 PROJECT NAME/NUMBER: 55039.2 Delphi FRI/FS

4 SAMPLER'S NAME/DATE: Chris Baron 10/29/01

SAMPLE RANGE:

5 SAMPLE INFORMATION

	DATE	TIME	SAMPLE IDENTIFICATION	FOR FREE-COL USE ONLY: FREE-COL ID	RESULTS	GRAB/COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)
1	10/29/01	1530	MW-13	119631		Grab	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Potassium (total), Iron (total), Magnesium (total), Manganese (total), Sodium (total), Trichloroethene, Tetrachloroethene, Trans 1,2 Dichloroethene, Cis 1,2 Dichloroethene, Vinyl Chloride
2							
3							
4							
5							
6							
7			Trip blank	2			
8							
9							
10							
11							
12							
13							
14							
15							

6 SAMPLE TRACEABILITY

	Date Received	SIGNATURE	ORGANIZATION	DATE RELINQUISHED
1		C. Baron	GZA	10/29/01
2		Depot FEDEX		10/29/01
3	10/30/01	Joni Watt	Free Col	10/30/01
4	10/30/01	[signature]	PLA	11/19/01
5				
6				
7				

USE BY LABORATORY ONLY

	Date	Time	Refrigerated upon receipt
Samples received at lab	10/30/01		YES / NO
Means of delivery to lab	FE		
Sample cooler temp. upon receipt		(deg. C)	
Sample check in started	10/30/01	Completed	10/30/01
Analyst		Date Run	
Reviewed by		Date	
Worksheet Number			

CHAIN OF CUSTODY RECORD

FREE-COL LABORATORIES, Division of Modern Ind.
P.O. BOX 557 — 800 836-4130
11618 COTTON ROAD — 814 724-6242
MEADVILLE, PA 16335-0557 — 814 333-1466 Fax
Website: www.free-col.com

1 CLIENT INFORMATION

COMPANY: GZA
CONTACT: Gary Kaminski
ADDRESS: 364 Nagel Drive
CITY: Buffalo
STATE: NY — ZIP CODE: 14225
PHONE: 716 685 2300 — FAX: 716 685 3629
PURCHASE ORDER NUMBER:
CLIENT #:

2 SAMPLE REPORTING INFORMATION

Check all that apply	Sample Type	If drinking water compliance provide the following:
NORMAL	Wastewater:	DRINKING WATER:
Rush (Specify)	Frequency	PWSID #:
QA/QC	Monitoring Wells	Location:
Due Date	Solid Waste:	Entry Point #:
Fax Data	Frequency	Sampling Frequency (Circle One):
Non-Compliance	Other:	Quarterly/Monthly/Annual
Compliance	Frequency	Check Sample: Yes / No

3 PROJECT NAME / NUMBER: 55039.2 Delphi FRI/FFS

4 SAMPLER'S NAME / DATE: Chris Boron 10/30/01

SAMPLE RANGE:

5 SAMPLE INFORMATION

DATE	TIME	SAMPLE IDENTIFICATION	FREE-COL ID	RESULTS	GRAB/COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)
10/30/01	1030	MW-15	11989-1		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Potassium (total) Iron (total) Magnesium (total) Manganese (total) Sodium (total) Trichloroethene, Tetrachloroethene, Trans 1,2 Dichloroethene Cis 1,2 Dichloroethene, Vinyl Chloride
10/30/01	1215 (~~[illegible]~~)	MW-11	11989-2		G	Same as MW-15
10/30/01	1330	MW-12	11989-3		G	Same as MW-15
10/30/01	1200	MW-DUP	5		G	Same as MW-15
10/30/01	1445	MW-14	4		G	Same as MW-15
10/30/01	1600	MW-3s	6		G	Benzene, Toluene, Ethylbenzene, Total Xylene,
10/30/01		Tripblank	7			

6 SAMPLE TRACEABILITY

Date Received	SIGNATURE	ORGANIZATION	DATE RELINQUISHED
	[signature] Boron	GZA	10/30/01
10/30/01	[signature]	Free Col. Labs	10/30/01
10/30/01	[signature] West	Free Col	10/30/01

USE BY LABORATORY ONLY

Samples received at lab: Date 10/30/01 Time 8:20 Refrigerated upon receipt? YES NO
Means of delivery to lab: T.S.
Sample cooler temp. upon receipt: Ther. ID 1.0 °C
Sample check in started: 10/30/01 Completed: 10/30/01
Analyst: Date Run:
Reviewed by: Date
Worksheet Number:

CHAIN OF CUSTODY RECORD

Page ____ of ____

FREE-COL LABORATORIES, Division of Modern Ind.
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11618 COTTON ROAD 814 724 - 6242
MEADVILLE, PA 814 333 - 1466 Fax
16335-0557
Website: www.free-col.com

1 CLIENT INFORMATION

COMPANY GZA
CONTACT Gary Klawinski
ADDRESS 3A Nagel Drive
CITY Buffalo
STATE NY ZIP CODE 14225
PHONE 716 685-2300 FAX 716 685-3629
PURCHASE ORDER NUMBER
CLIENT #

2 SAMPLE REPORTING INFORMATION

Check all that apply — Sample Type

NORMAL	Wastewater:	DRINKING WATER:
Rush (Specify)	Frequency	PWSID #:
QA/QC	Monitoring Wells	Location:
Due Date	Solid Waste:	Entry Point #:
Fax Data	Frequency	Sampling Frequency (Circle One):
Non-Compliance	Other:	Quarterly/Monthly/Annual
Compliance	Frequency	Check Sample: Yes / No

DEP Drinking water compliance provide the following:

3 PROJECT NAME / NUMBER: Delphi FRI/FFS 55039.2

4 SAMPLER'S NAME / DATE: Chris Baron 10/31/01

5 SAMPLE INFORMATION — SAMPLE RANGE:

DATE	TIME	SAMPLE IDENTIFICATION	FOR FREE-COL USE ONLY: FREE-COL ID	RESULTS	GRAB/ COMP	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)
10/31/01	915	MW-1D	120584		G	TOC, Alkalinity, Ammonia, Chloride, Nitrate, Nitrite, Sulfate, Sulfide, Methane, Potassium (total), Iron (total), Magnesium (total), Manganese (total), Sodium (total), Trichloroethene, Tetrachloroethene, Trans 1,2 Dichloroethene, Cis 1,2 Trichloroethene, Vinyl Chloride
10/31/01	1125	MW-4	2		G	Same as MW-1D

6 SAMPLE TRACEABILITY

Date Received	SIGNATURE	ORGANIZATION	DATE RELINQUISHED
	Chris Baron	GZA	10/31/01
	Picked up by FEDEX		10/31/01
11/1/01	Joni Watt	Free Col	11-1-01
11/1/01			11-27-01

USE BY LABORATORY ONLY

	Date	Time	Refrigerated upon receipt?
Samples received at lab	11-1-01		YES 100 NO
Means of delivery to lab	Fed Ex		
Sample cooler temp. upon receipt		(deg. C)	
Sample sheet initialed	11-1-01	Completed	11-1-01
Analyst		Date Run	
Reviewed by		Date	
Worksheet Number			

coolmaster2000 Rev. 11-17-00