

# NEW YORK STATE SUPERFUND CONTRACT

New Cassel Industrial Area  
Offsite Groundwater

Town of North Hempstead, Nassau County

## Remedial Investigation/ Feasibility Study (RI/FS) Report

### Volume III • Appendices A-L

Work Assignment No. D002676-42.1

September 2000



Prepared for:

**New York State  
Department of  
Environmental Conservation**

50 Wolf Road, Albany, New York 12233  
*John Cahill, Commissioner*

Division of Environmental Remediation  
*Michael J. O'Toole, Jr., Director*

**By:**

**Lawler, Matusky & Skelly Engineers LLP**

**APPENDIX A**  
**BORING / WELL LOGS**













981 2255

# LMS

## Test Boring Log

Boring No.: MW-3  
 Sheet 2 of 2  
 Project No.: 650-426

Depth (ft)	Blows On Sampler			Recovery (ft)	Instrument Reading	Sample Retained
	0"-6"	6"-12"	12"-18"			
40	8	10	12	12	1.5	0
					0	0
					0	0
45	10	11	15	15	0.7	0
					0	0
					0	0
45	16	15	17	18	1.4	0
					0	0
					0	0
50	15	15	18	19	1.4	0
					0	0
					0	0
55	16	19	19	21	1.8	0
					0	0
					0	0
60	8	12	14	14	0	N/A
					0	0
					0	0
65	10	11	10	16	1.2	N
					0	0
					0	0
70	10	10	10	10	1.2	N
					0	0
					0	0
75						

Classification Of Material  
 f - fine  
 m - medium  
 c - coarse  
 and - 35-50%  
 some - 20-35%  
 little - 10-20%  
 trace - 0-10%

0.0-1.5 orange f-m sand  
 little c sand  
 tr + gravel

0.0-0.7 tan - lt. orange f-m  
 sand, little c sand  
 tr + gravel  
 little silt

0.0-1.4 tan - lt. orange f sand  
 little med. sand  
 little silt

0.0-1.4 tan f sand  
 some m. sand  
 little c. sand

0.0-1.8 tan f. sand  
 tr. silt

No Recovery

0.0-1.2 tan f-m sand  
 little c. sand

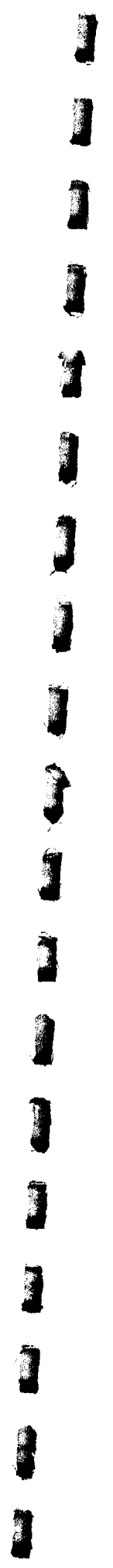
Split spoon 40-45"  
 water @ 40"  
 split spoon @ 45-47"  
 sand, little c sand  
 tr + gravel  
 little silt  
 Split spoon  
 50-52 spoon  
 fall to base of  
 wash  
 sample may be  
 Split spoon  
 55-57  
 tan f sand  
 some m. sand  
 little c. sand  
 Split spoon 60-62  
 tr. silt  
 No recovery  
 65-67 spoon  
 Split spoon  
 70-72  
 little c. sand

Remarks





HYDROPUNCH LOGS





# LMS Test Boring Log

Boring No.: Myron

Sheet 1 of 2

Project Name: NCIA

Project No.: 650-426

Client: NYSDEC

Date: Start 1-19-2000

Driller: DELTA WELL AND PUMP

Finish 1-26-2000

Drilling Method: 4.25" ID Hollow Stem Auger

Total Depth: 150

Boring Location: Myron Rd, Salisbury

Depth To Water: 55

Coordinates:

Surf. Elevation:

Logged By: E. HOLLISTER

Hole Diameter: 8"

Monitoring Instrument(s): NYSDEC Microtip

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	Classification Of Material f - fine m - medium c - coarse and - 35-50% some - 20-35% little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
58	3				1.5	0		wet	orange f-c silty sand; trace gravel. hp sample 60-62'	1/20/2000 B94830 10:30
		3								
			4							
60				5						
68	sank				1.9	0		wet	orange f-c silty sand; trace gravel. hp sample 70-72'	B94832 11:25
		sank							Fe(II) appx. 5.5	
			5							
70				5						B94833 12:30
78	6				1.5	0		wet	tan/orange f-m silty sand; trace c sand, gravel.	
		5							hp sample 80-82'	1/20/2000
			7						Fe(II) appx. 6 (too turbid)	1/21/2000
80				7						
88	6				1.6	0		wet	tan/orange f-m silty sand; trace c sand, gravel.	B94835 11:00
		8							hp sample 90-92' Fe(II) 2.4	bd 94834/120
			8							13:30 and MS/MSD
90				9						
100	10				1.5	0		wet	tan/orange f-m silty sand; trace clay, c sand, gravel.	B94836 12:45
		11							hp sample 98-100'	(taken before split spoon)
102				15						
110	4				1.4	0.1		wet	tan f silty sand; trace clay black flakes - biotite?	B94838 13:45
		6							Fe(II) appx. 2.5 (turbid) 108-110	
			7							
112				9						
120	3				2	0.1			tan f silty sand; trace clay black flakes - biotite? (clay in augers, just above spoon) HP 118-120	B94837 14:40
		5								
			7							
122				9						1/24 B94840
130	3				2	1.3			tan grading to orange silty f sand, micaceous; trace m-c sand; thin lenses gray clay from 1.1-1.5 and 1.7-1.8.	10:30 PID bkgd 1.0
		4							Fe(II) appx. 4.0 128-130	
			4							
132				5						
140	3				1.5	0			tan f silty sand; trace clay, m sand. Fe(II) 4.5 138-140	B94841 12:20
		7								
			7							
142				8						

**LMS**

# Test Boring Log

Boring No.: Myron

Sheet 2 of 2

Project No.: 650-426

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	Classification Of Material f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"					
150	3				0.8	1.1	wet	dk gray f-m silty sand; little clay.	PID bkgd 0.9
		5							B94842 14:15
			7						
152			7					Fe(II) appx. 3.5 (turbid) 148-150	

# LMS Test Boring Log

Boring No.: Basin #51

Sheet 1 of 2

Project Name: NCIA

Project No.: 650-426

Client: NYSDEC

Date: Start 1/27/2000

Driller: DELTA WELL ANDPUMP

Finish 2/2/2000

Drilling Method: 4.25" ID Hollow Stem Auger

Total Depth: 150

Boring Location: Basin #51

Depth To Water: 55

Coordinates:

Surf. Elevation:

Logged By: E. HOLLISTER

Hole Diameter: 8"

Monitoring Instrument(s): NYSDEC Microtip

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	PID background	Classification Of Material f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
60	116				1.4	0.5	wet	0.5	Fe(II) 0.5 58-60	B94843 TB-7 1/28
		31							0-0.5 slough - tan silty clayey f sand	B94844 10:00
			70						0.5-0.85 red/brown silty f-m sand, few iron-rich nodules. 0.85-1.5 tan silty clayey f sand; trace f gray clay layers.	
62				97			moist			
72	9				1.3	0.8	wet	0.8		B94845 13:00
		10							Fe(II) water too turbid 70-72	
			7						Tan silty f sand; little clay; trace m-c sand, gravel (some iron-rich)	
74				7						
80	12				1.1	1		0.9		B94846 14:30
		18							Fe(II) 0.7 78-80'	
			13						orange-tan silty f sand; trace gray clay, gravel.	1/31/2000 PID not working
82				10						
90	3				2	-	moist	-	variegated gray, orange, and pink clay, silty clay, and silty, clayey vf-f sand.	B94847 94-96' 10:40
		6							Fe(II) 0.9 94-96'	
			8							
92				12						
102	6				0.6	-	wet	-		B94848 11:40
		9							Fe(II) 1.8 100-102'	
			11						silty f-c sand; little f gravel.	
104				14						B94849 13:00
110	2				1.5	3.6	wet	2.5	Fe(II) 108-110' too turbid	
		2							tan silty vf-m sand grading to m-c sand; some gravel.	
			4							
112				5						B94850 14:05
120					2	1.4	wet	0.9	Fe(II) 118-120' too turbid	
			6						lt. brown f-m silty sand; trace gray clay.	
122				8						B94851 15:30
130	na				2	0	wet	0	Fe(II) 128-130' too turbid	
		6							lt. brown f-m silty sand; trace gray clay.	
			6							2/1/2000
132				8						B94852 09:05
140	na				1.8	0	wet	0	Fe(II) 138-140' 0.5	
		na							lt. brown f-m silty sand (trace gray clay)	
			na						grading to lt. brown f-m silty sand and iron-rich gravel.	
142				na						



**LMS****Test Boring Log****Boring No.: Fieldston****Sheet 1 of 2****Project Name: NCIA****Project No.: 650-426****Client: NYSDEC****Date: Start 2/3/2000****Driller: Delta Well & Pump****Finish 2/8/2000****Drilling Method: 4.25" ID Hollow Stem Auger****Total Depth: 150 ft.****Boring Location: Fieldston****Depth To Water: 55****Coordinates:****Surf. Elevation:****Logged By: E. Hollister****Hole Diameter: 8"****Monitoring Instrument(s): NYSDEC Microtip**

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	PID background	Classification Of Material f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
60	3				1.5	6.2	wet	5.4	Fe(II) 58-60 2.9	2/3/2000
	*	6							tan silty f-m sand; trace gravel - some iron-rich; trace orange mottling.	B94855 11:30
			9							
62				11						
70	3				1.4	0	wet	0	Fe(II) 68-70 4.0	B94856 13:00
	*	4							tan silty f-m sand; trace gravel.	MS/MSD
			5							BD B94858 16:00
72				7						
80	na				1.3	0	wet	0	Fe(II) 78-80 4.5	B94857 14:30
	*	na							tan silty f-m sand; trace gravel.	
			na							
82				na						2/4/2000
90	5				1	0	wet	0	Fe(II) 88-90 2.5	B94859 09:30
	*	6							tan silty vf-m sand grading to f-c sand; some gravel; trace clay.	
			8							
92				10						
100	na				0.9	2.1	wet	1.4	Fe(II) 98-100 3.5	B94860 10:30
		na							variegated tan and orange silty f-m sand; trace clay.	PID acting up
			na							
102				na						
110	2				1.5	0	wet	0	Fe(II) 108-110 3.4	B94861 11:30
	*	5							tan, trace orange silty f-m sand; trace gravel, clay.	
			10							
112				15						
120	5				2	0	wet	0	Fe(II) 118-120 appx. 4.5 turbid	B94862 12:30
	*	5							tan silty f-c sand.	
			7							
122				10						
130	na				1.9	0	wet	0	Fe(II) 128-130 too turbid	B94863 13:45
		na							variegated tan and orange silty f-m sand; trace clay.	
			na							2/7/2000
132				na						B94864 TB-9
140	na									B94865 0940
		na							Fe(II) 138-140 appx. 3.5	
			na						tan f-m sand, little silt (slough)	
142				na						

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	PID background	Classification Of Material f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
150	na								Fe(II) 148-150 apprx. 6.0 (very turbid) tan f-m sand, little silt	
		na								
152			na						* not standard blow counts (6' drop used)	
				na						

**LMS****Test Boring Log****Boring No.: Salisbury****Sheet 1 of 2****Project Name:** NCIA**Project No.:** 650-426**Client:** NYSDEC**Date:** Start 2/9/2000**Driller:** Delta Well and Pump

Finish 2/14/2000

**Drilling Method:** 4.25" ID Hollow Stem Auger**Total Depth:****Boring Location:** Salisbury Rd, Salisbury**Depth To Water:****Coordinates:****Surf. Elevation:****Logged By:** E. Hollister**Hole Diameter:** 8"**Monitoring Instrument(s):** NYSDEC Microtip

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	PID background	Classification Of Material f - fine m - medium c - coarse and - 35-50% some - 20-35% little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
60	3				0.5	2.7	wet	2.7	Fe(II) 58-60 2.0	2/9/2000
	*	5							tan silty f-m sand; trace clay. possibly slough.	B94867 TB-10 B94868 0830
			8							
62				10						
70	3				0.5	-	wet	-	Fe(II) 68-70 too turbid	B94869 0940
	*	6							tan silty f-m sand; trace clay. possibly slough.	PID not working B94870 1000
			8							equipment rinse
72				10						
80	7				2	0	wet	0	Fe(II) 78-80 5.2	B94871 1100
	*	10							tan and orange variegated silty fine sand; trace clay; trace gray clay.	
			14						(top portion slough)	
82				16						
90	4				2	0	wet	0	Fe(II) 88-90 very turbid!	B94872 1200
	*	6							marbled tan (slough?) and dark gray silty f sand; little clay.	
			10						No HP sample 98-100	No HP sample 98-100
92				16						
100	na				0.5	0	wet	0	clayey, silty vf-f sand, tan with dark gray; trace orange clay. probably mixture with slough.	
	*	na								
			na							
102				na						
110	3				2	1	wet	1.7	Fe(II) 108-110 too turbid	B94873 1600
	*	5							tan silty f sand - may be some of the heaving sands coming in the augers.	
			7							
112				10						2/10/2000
120	3				2	-	wet	-	Fe(II) 118-120 3.5	PID Dead
	*	7							tan silty vf-f micaceous (muscovite) sand; trace clay.	B94874 1015 B94876 1430 roll-off
			10							
122				13						
130	skipped								lots of heaving sands, switched to adding mud. no samples this depth.	
	*									
132										2/11/2000
140	8				1.5	-	wet	-	Fe(II) 138-140 2.5	PID not working B94875 1120 B94877 TB-11
		12							mixture of tan and brown and orange silty vf-f sand, little clay with slough-gray mud from drilling.	
			16							
142				20						

Depth (ft)	Blows On Sampler				Recovery (ft)	Instrument Reading	Moisture Content	PID background	Classification Of Material f - fine m - medium c - coarse and - 35-50% some - 20-35% little - 10-20% trace - 0-10%	Remarks
	0"-6"	6"-12"	12"-18"	18"-24"						
150	15				1.9	-	wet		Fe(II) 148-150 2.4 marbled tan, orange, gray, and white silty vf-f sand; little clay.  (white vf beach sands...)    * not standard blow counts (6' drop used)	B94878 1300
		21								
			36							
152				41						



Table A-1  
**Fe<sup>2+</sup> in Hydropunch Samples**

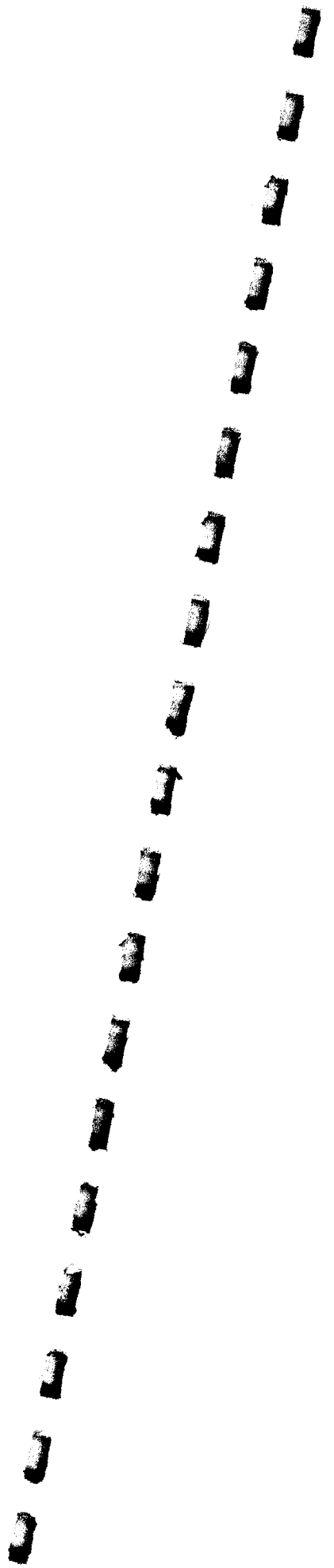
depth interval	Myron	Basin #51	Fieldston	Salisbury
60		0.5	2.9	2.0
70	5.5		4.0	
80	6.0	0.7	4.5	5.2
90	2.4	0.9	2.5	tt
100		1.8	3.5	na
110	2.5		3.4	
120			4.5	3.5
130	4.0			
140	4.5	0.5	3.5	
150	3.5	0.2	6.0	

Table A-2  
Hydropunch Sample List

<u>NYSDEC ID</u>	<u>location</u>	<u>depth</u>	<u>date</u>	<u>time</u>	<u>comments</u>	<u>SDG #</u>
B94830	Myron	60-62	20-Jan	10:30		0120
B94831		TB-5	20-Jan	-		0120
B94832	Myron	70-72	20-Jan	11:25		0120
B94833	Myron	80-82	20-Jan	12:30		0120
B94834	Myron	BD of 90-92	20-Jan	13:30	actually1-21	0120
B94835	Myron	90-92	21-Jan	11:00	MS, MSD	0120
B94836	Myron	98-100	21-Jan	12:45		0120
B94837	Myron	118-120	21-Jan	14:40		0120
B94838	Myron	108-110	21-Jan	13:45		0120
B94839		TB-6	24-Jan	-		0120
B94840	Myron	128-130	24-Jan	10:30		0120
B94841	Myron	138-140	24-Jan	12:20		0120
B94842	Myron	148-150	24-Jan	14:15		0120
B94843		TB-7	28-Jan	-		0128
B94844	Basin # 51	58-60	28-Jan	10:00		0128
B94845	Basin # 51	70-72	28-Jan	13:00		0128
B94846	Basin # 51	78-80	28-Jan	14:30		0128
B94847	Basin # 51	94-96	31-Jan	10:40		0128
B94848	Basin # 51	100-102	31-Jan	11:40		0128
B94849	Basin # 51	108-110	31-Jan	13:00		0128
B94850	Basin # 51	118-120	31-Jan	14:05		0128
B94851	Basin # 51	128-130	31-Jan	15:30		0128
B94852	Basin # 51	138-140	1-Feb	9:05		0128
B94853	Basin # 51	148-150	1-Feb	10:30		0128
B94854		TB-8	3-Feb	-		0128
B94855	Fieldston	58-60	3-Feb	11:30		0128
B94856	Fieldston	68-70	3-Feb	13:00	MS/MSD	
B94857	Fieldston	78-80	3-Feb	14:30		0128
B94858	Fieldston	BD of 68-70	3-Feb	16:00		0128
B94859	Fieldston	88-90	4-Feb	9:30		0128
B94860	Fieldston	98-100	4-Feb	10:30		0128
B94861	Fieldston	108-110	4-Feb	11:30		0128
B94862	Fieldston	118-120	4-Feb	12:30		0128
B94863	Fieldston	128-130	4-Feb	13:45		0128
B94864	Fieldston	TB-9	7-Feb	-		0128
B94865	Fieldston	138-140	7-Feb	9:40		0128
B94866	Fieldston	148-150	7-Feb	10:45		0128
B94867		TB-10	9-Feb	-		0128
B94868	Salisbury	58-60	9-Feb	8:30		0128
B94869	Salisbury	68-70	9-Feb	9:40		0128
B94870	Salisbury	eq. Rinse	9-Feb	10:00		0128
B94871	Salisbury	78-80	9-Feb	11:00		0128
B94872	Salisbury	88-90	9-Feb	12:00		0128
skipped	Salisbury	98-100	9-Feb	skipped		0128
B94873	Salisbury	108-110	9-Feb	16:00		0128
B94874	Salisbury	118-120	10-Feb	10:15		0128
B94875	Salisbury	138-140	11-Feb	11:20		0128
B94876		roll-off	10-Feb	14:30		0128
B94877		TB-11	11-Feb	-		0128
B94878	Salisbury	148-150	11-Feb	13:00		0128

Total number of samples = 39

**MONITORING WELL COMPLETION LOGS**



# MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 650-424  
 WELL No.: NRMW-1

PROJECT NAME: NCIA Residential Monitoring Wells

CLIENT: NYSDEC

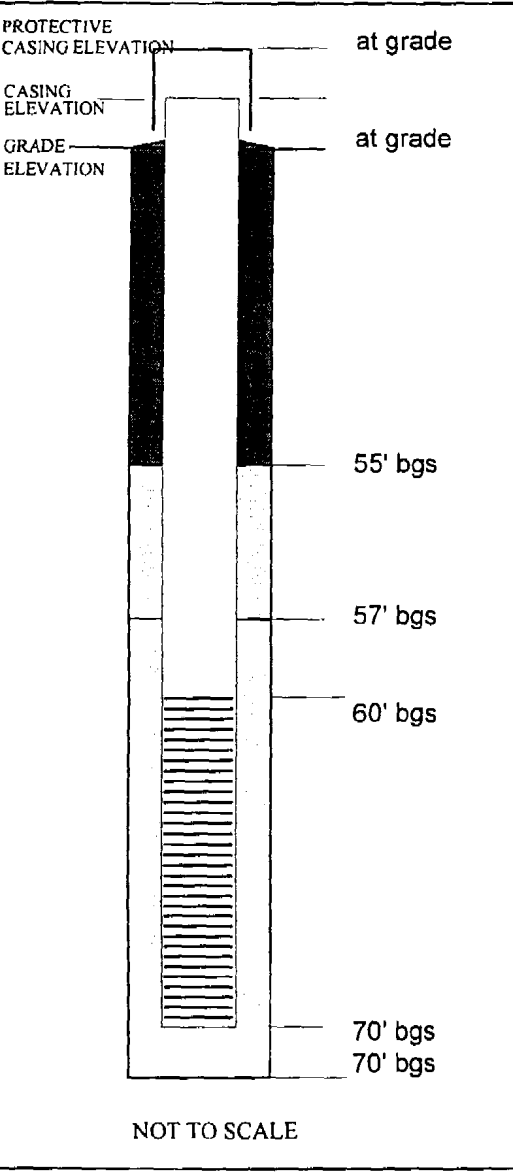
LOCATION: 2360 Salisbury Road

DATE DRILLED: 4/5-6/1999

DATE DEVELOPED: 15-Apr-99

WELL CONSTRUCTION COMPLETED: 6-Apr-99

DEVELOPING METHOD: Pump and Surge (using 2" submersible pump)



INSPECTOR: Scott G. Englert  
 DRILLING CONTRACTOR: Delta Well & Pump  
 TYPE OF WELL: overburden  
 STATIC WATER LEVEL: 40.6 DATE: 4/15/99  
 MEASURING POINT: top of riser TOTAL DEPTH OF WELL: 70' TOTAL DEPTH OF BORING: 70'

DRILLING METHOD TYPE: HSA  
 DIAMETER: 4.25" CASING:

SAMPLING METHOD TYPE: 2 ft. split spoon  
 DIAMETER: 2 in. WEIGHT: 140 lb.  
 FALL: 2 ft. INTERVAL: 5 ft.

RISER PIPE LEFT IN PLACE MATERIAL: Sch 40 PVC  
 DIAMETER: 2" LENGTH: 60' JOINT TYPE: flush

SCREEN MATERIAL: Sch 40 PVC  
 INTERVAL: 60-70' DIAMETER: 2"  
 STRATIGRAPHIC UNITS SCREENED: UGA SLOT SIZE: 10

FILTER PACK GRADE: Morie #1  
 SAND: GRAVEL: NATURAL:  
 AMOUNT: 2 bags INTERVAL: 57-70'

SEAL(s)

NOTES:

Portland Cement	INTERVAL:	AMOUNT:
Bentonite Slurry	INTERVAL: 55-57'	AMOUNT: 20 lbs. 30-35 gal.
Bentonite Pellets	INTERVAL:	AMOUNT:
Other:	INTERVAL:	AMOUNT:
Cement/bentonite grout	0-55'	10 bags cement 20 lbs. bentonite

LOCKING CASING  YES  NO KEY NO: 2144

# MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 650-424  
 WELL No.: NRMW-2

PROJECT NAME: NCIA Residential Monitoring Wells

CLIENT: NYSDEC

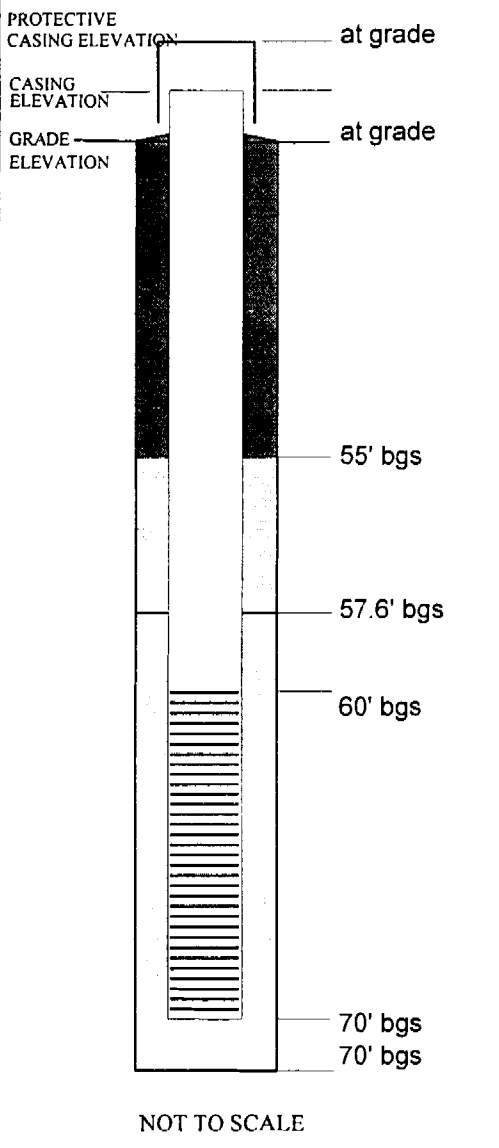
LOCATION: 1018 Bowling Green Drive

DATE DRILLED: 7-Apr-99

DATE DEVELOPED: 15-Apr-99

WELL CONSTRUCTION COMPLETED: 8-Apr-99

DEVELOPING METHOD: Pump and Surge (using 2" submersible pump)



INSPECTOR: Scott G. Englert  
 DRILLING CONTRACTOR: Delta Well & Pump  
 TYPE OF WELL: overburden  
 STATIC WATER LEVEL: 44.45 DATE: 4/15/99  
 MEASURING POINT: top of riser TOTAL DEPTH OF WELL: 70' TOTAL DEPTH OF BORING: 70'

DRILLING METHOD: HSA  
 DIAMETER: 4.25" CASING:

SAMPLING METHOD: 2 ft. split spoon  
 DIAMETER: 2 in. WEIGHT: 140 lb.  
 FALL: 2 ft. INTERVAL: 5 ft.

RISER PIPE LEFT IN PLACE MATERIAL: Sch 40 PVC  
 DIAMETER: 2" LENGTH: 60' JOINT TYPE: flush

SCREEN MATERIAL: Sch 40 PVC  
 INTERVAL: 60-70' DIAMETER: 2"  
 STRATIGRAPHIC UNITS SCREENED: UGA SLOT SIZE: 10

FILTER PACK GRADE: Morie #1  
 SAND: GRAVEL: NATURAL:  
 AMOUNT: 2 bags INTERVAL: 57.6-70'

SEAL(s)

NOTES:  
 grouted to 10' below grade  
 remainder backfilled with sand  
 to provide drainage

Portland Cement	INTERVAL:	AMOUNT:
Bentonite Slurry	INTERVAL: 55-57.6'	AMOUNT: 20 lbs. 30-35 gal.
Bentonite Pellets	INTERVAL:	AMOUNT:
Other:	INTERVAL:	AMOUNT:
Cement/bentonite grout	10-55'	10 bags cement 20 lbs. bentonite

LOCKING CASING:  YES  NO KEY NO: 2144

# MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 650-424

PROJECT NAME: NCIA Residential Monitoring Wells

WELL No.: NRMW-3

CLIENT: NYSDEC

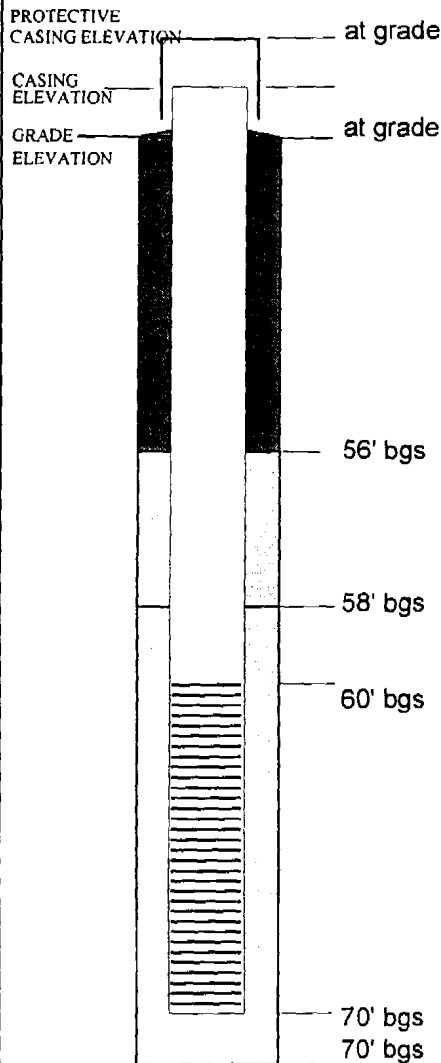
LOCATION: 967 Merillon Avenue

DATE DRILLED: 4/8-9/1999

DATE DEVELOPED: 15-Apr-99

WELL CONSTRUCTION COMPLETED: 9-Apr-99

DEVELOPING METHOD: Pump and Surge (using 2" submersible pump)



INSPECTOR: Scott G. Englert  
 DRILLING CONTRACTOR: Delta Well & Pump  
 TYPE OF WELL: overburden  
 STATIC WATER LEVEL: 40.2 DATE: 4/15/99  
 MEASURING POINT: top of riser TOTAL DEPTH OF WELL: 70' TOTAL DEPTH OF BORING: 70'

DRILLING METHOD: TYPE: HSA  
 DIAMETER: 4.25" CASING:

SAMPLING METHOD: TYPE: 2 ft. split spoon  
 DIAMETER: 2 in. WEIGHT: 140 lb.  
 FALL: 2 ft. INTERVAL: 5 ft.

RISER PIPE LEFT IN PLACE MATERIAL: Sch 40 PVC  
 DIAMETER: 2" LENGTH: 60' JOINT TYPE: flush

SCREEN MATERIAL: Sch 40 PVC  
 INTERVAL: 60-70' DIAMETER: 2"  
 STRATIGRAPHIC UNITS SCREENED: UGA SLOT SIZE: 10

FILTER PACK GRADE: Morie #1  
 SAND: GRAVEL: NATURAL:  
 AMOUNT: 2 bags INTERVAL: 58-70'

SEAL(s)

Portland Cement	INTERVAL:	AMOUNT:
Bentonite Slurry	INTERVAL: 56-58'	AMOUNT: 20 lbs. 30-35 gal.
Bentonite Pellets	INTERVAL:	AMOUNT:
Other:	INTERVAL:	AMOUNT:
Cement/bentonite grout	10-56'	10 bags cement 20 lbs. bentonite

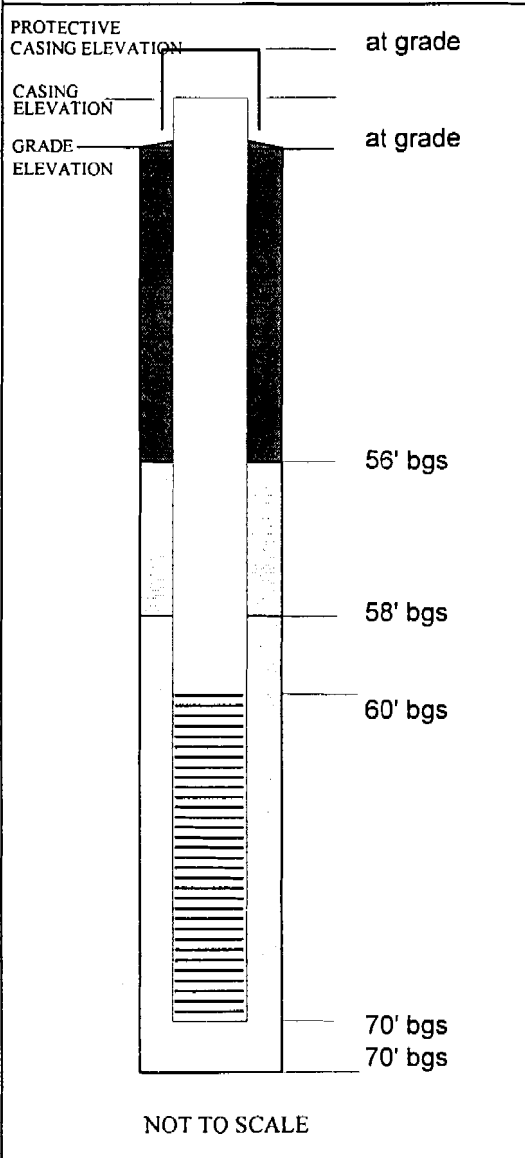
NOTES:  
 grouted to 10' below grade  
 remainder backfilled with sand  
 to provide drainage

LOCKING CASING:  YES  NO KEY NO: 2144

# MONITORING WELL COMPLETION LOG

PROJECT NAME: <b>NCIA Residential Monitoring Wells</b>		PROJECT NUMBER: <b>650-424</b>
CLIENT: <b>NYSDEC</b>		WELL No.: <b>NRMW-4</b>
LOCATION: <b>1145 Roxbury Drive</b>		
DATE DRILLED: <b>12-Apr-99</b>	DATE DEVELOPED: <b>15-Apr-99</b>	WELL CONSTRUCTION COMPLETED: <b>13-Apr-99</b>

DEVELOPING METHOD: **Pump and Surge (using 2" submersible pump)**



INSPECTOR: <b>Scott G. Englert</b>	
DRILLING CONTRACTOR: <b>Delta Well &amp; Pump</b>	
TYPE OF WELL: <b>overburden</b>	
STATIC WATER LEVEL: <b>42.25</b>	DATE: <b>4/15/99</b>
MEASURING POINT: <b>top of riser</b>	TOTAL DEPTH OF WELL: <b>70'</b> TOTAL DEPTH OF BORING: <b>70'</b>
DRILLING METHOD	TYPE: <b>HSA</b>
DIAMETER: <b>4.25"</b>	CASING:
SAMPLING METHOD	TYPE: <b>2 ft. split spoon</b>
DIAMETER: <b>2 in.</b>	WEIGHT: <b>140 lb.</b>
FALL: <b>2 ft.</b>	INTERVAL: <b>5 ft.</b>
RISER PIPE LEFT IN PLACE	MATERIAL: <b>Sch 40 PVC</b>
DIAMETER: <b>2"</b>	LENGTH: <b>60'</b> JOINT TYPE: <b>flush</b>
SCREEN	MATERIAL: <b>Sch 40 PVC</b>
INTERVAL: <b>60-70'</b>	DIAMETER: <b>2"</b>
STRATIGRAPHIC UNITS SCREENED: <b>UGA</b>	SLOT SIZE: <b>10</b>
FILTER PACK	GRADE: <b>Morie #1</b>
SAND:	GRAVEL:
NATURAL:	
AMOUNT: <b>2 bags</b>	INTERVAL: <b>58-70'</b>
SEAL(s)	

NOTES:  grouted to 10' below grade remainder backfilled with sand to provide drainage	Portland Cement	INTERVAL:	AMOUNT:
	Bentonite Slurry	INTERVAL: <b>56-58'</b>	AMOUNT: <b>20 lbs. 30-35 gal.</b>
	Bentonite Pellets	INTERVAL:	AMOUNT:
	Other:	INTERVAL:	AMOUNT:
	<b>Cement/bentonite grout</b>	<b>10-56'</b>	<b>4 bags cement 20 lbs. bentonite</b>

LOCKING CASING  YES  NO KEY NO: **2144**

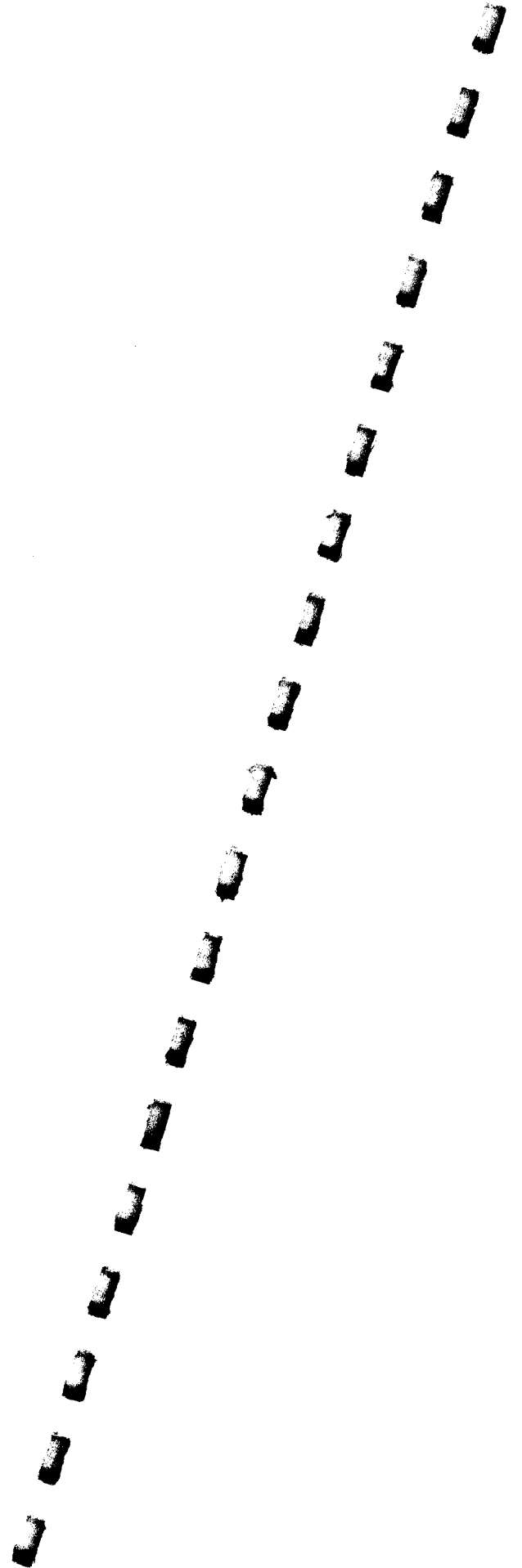


**APPENDIX B**

**WELL DEVELOPMENT LOGS**



MONITORING WELL DEVELOPMENT LOGS



# LMS Well Development Log

Well #: NRMW-1

Date Started: 15-Apr-99

Date Finished: 15-Apr-99

Start SWL: 40.6

Finish SWL: 40.7

Developed By: Delta Well & Pump

Method: 2" submersible pump and surge

Meters  
 pH:  
 Temp:  
 Conductivity:  
 Turb.:

Time	pH	Temp	Conductivity	Turb.	Est. Purged Vol.	Comments
825	5.9	14.9	0.161	>200	0	water is milky orange in color
835	5.3	14.7	0.151	33	25	flow rate = 2.5 gpm
845	5.3	15.3	0.15	28	50	parameters taken after surging
855	5.2	15.2	0.149	>200	75	parameters taken after surging
905	5.1	15.1	0.153	8	100	
915	5.2	16.1	0.156	11	125	parameters taken after surging

Note:  
 Temperature is measured in Celsius  
 Conductivity values in millimhos/cm  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Development Log

Well #: NRMW-4

Date Started: 15-Apr-99

Date Finished: 15-Apr-99

Start SWL: 42.25

Finish SWL: 42.47

Developed By: Delta Well & Pump

Method: 2" submersible pump and surge

pH: \_\_\_\_\_ Meters  
 Temp: \_\_\_\_\_ Conductivity: \_\_\_\_\_  
 \_\_\_\_\_ Turb.: \_\_\_\_\_

Time	pH	Temp	Conductivity	Turb.	Est. Purged Vol.	Comments
1144	6.6	17.9	0.134	>200	0	pumping rate = 3.5 gpm ; water is milky orange in color initially
1154	6.1	15.7	0.103	100	35	
1204	5.9	15.2	0.099	121	70	parameters taken after surging well
1214	5.9	15.5	0.097	16	105	parameters taken after surging well ; DTW = 45.26
1224	5.9	15.8	0.095	18	140	parameters taken after surging well
1230	5.9	15.6	0.093	17	160	parameters taken after surging well ; water clear within 1 minute after surge

**Note:**

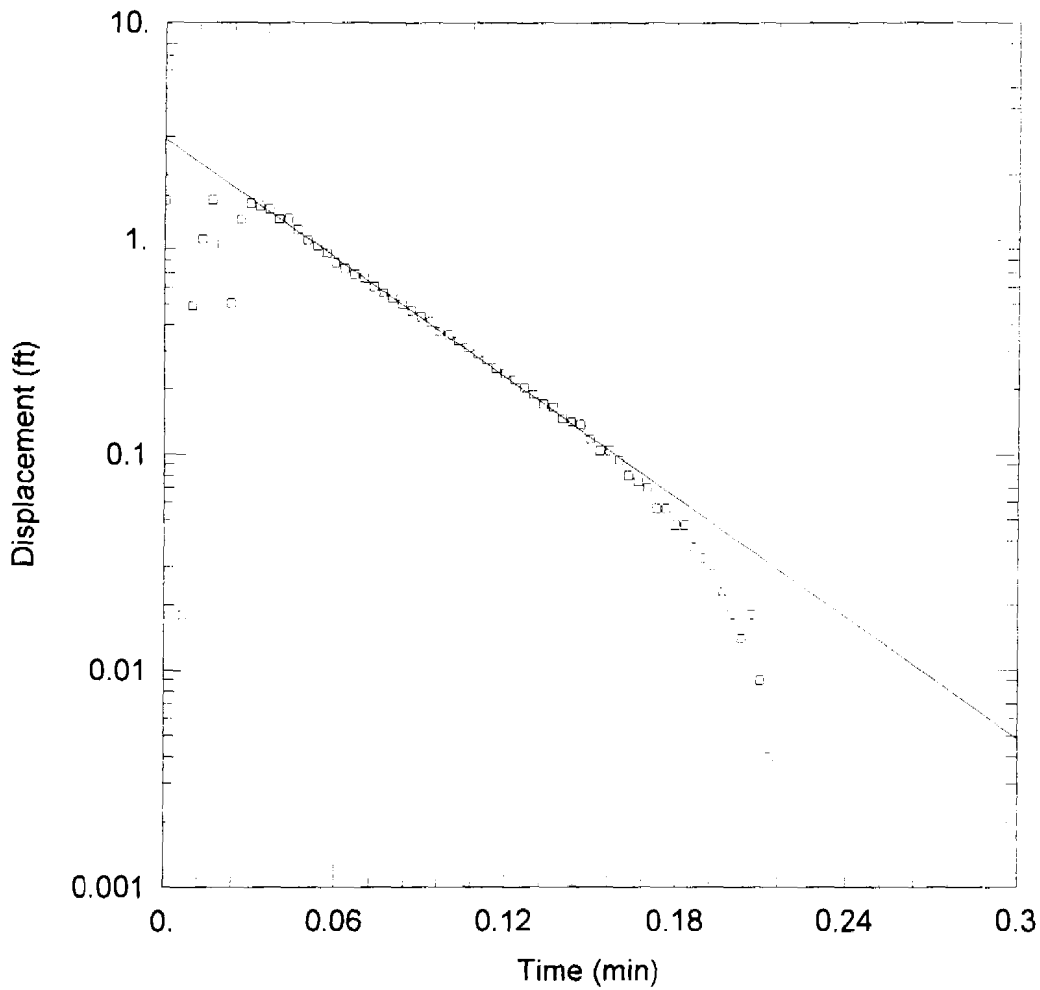
Temperature is measured in Celsius  
 Conductivity values in millimhos/cm  
 Turbidity is measured in NTU  
 Volume is measured in gallons

**APPENDIX C**

**IN-SITU HYDRAULIC TESTING**







NRMW-1OUT

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW1OUB.AQT

Date: 03/03/00

Time: 09:10:14

AQUIFER DATA

Saturated Thickness: 500 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1

WELL DATA

Initial Displacement: 1.521 ft

Water Column Height: 29.13 ft

Casing Radius: 0.08333 ft

Wellbore Radius: 0.3333 ft

Screen Length: 10 ft

Gravel Pack Porosity: 0.3

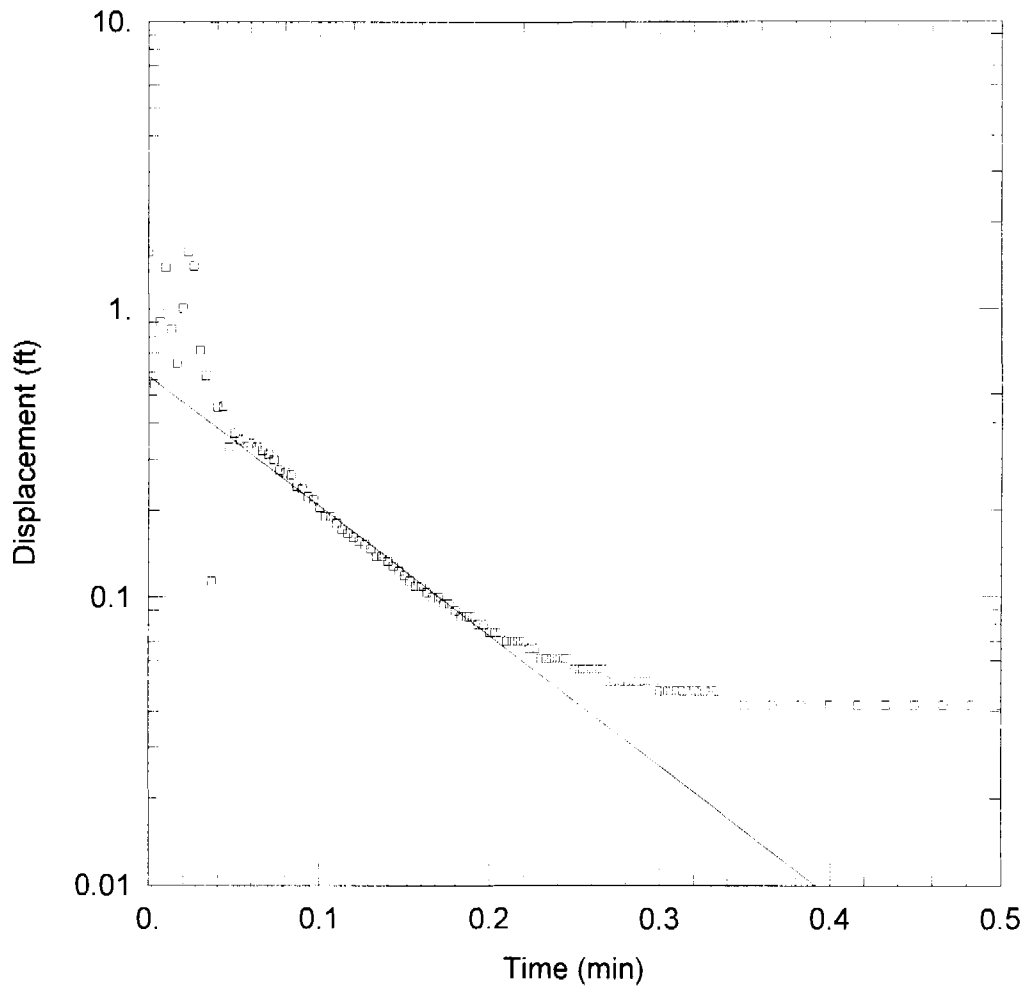
SOLUTION

Aquifer Model: Unconfined

$K = 144.1$  ft/day

Solution Method: Bouwer-Rice

$y_0 = 2.932$  ft



NRMW-1IN

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW1INB.AQT  
 Date: 03/03/00 Time: 09:09:01

AQUIFER DATA

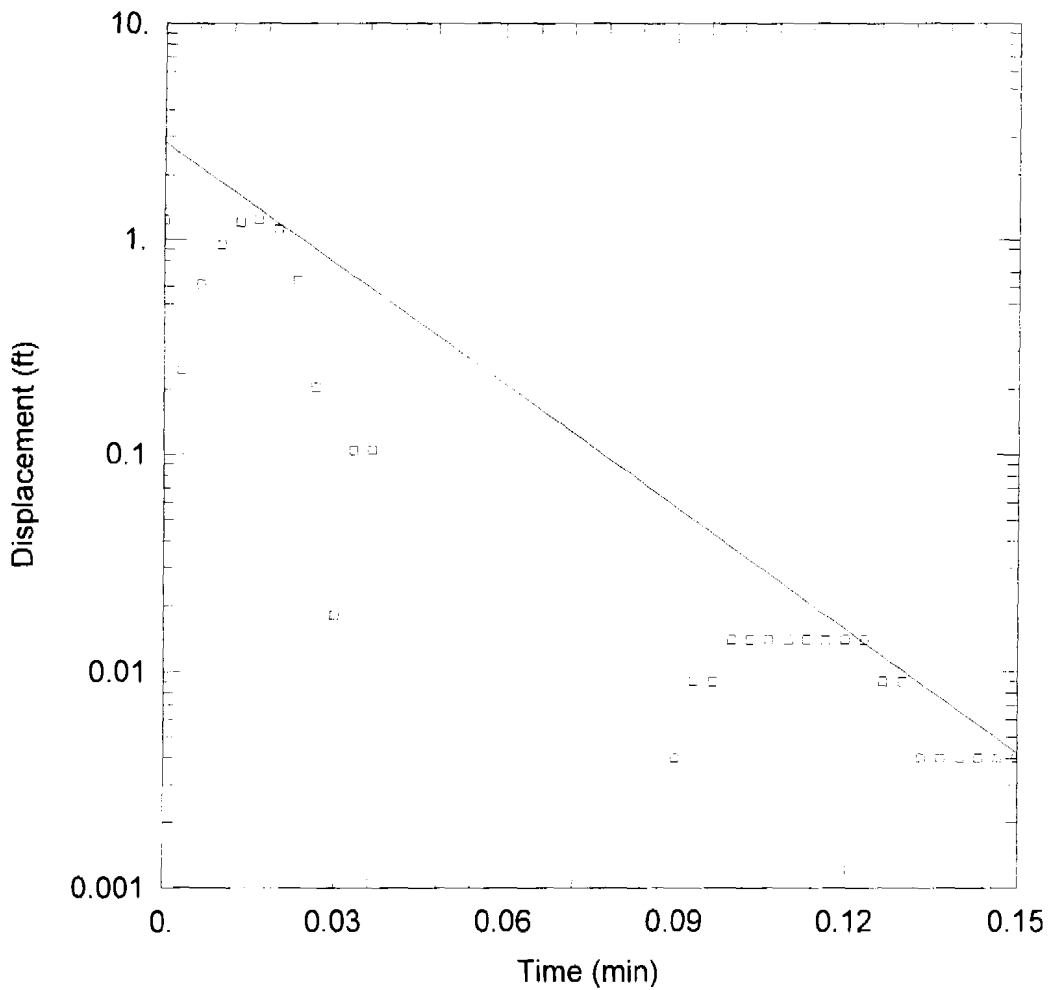
Saturated Thickness: 500. ft Anisotropy Ratio ( $K_z/K_r$ ): 1.

WELL DATA

Initial Displacement: 1.583 ft Water Column Height: 29.13 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10. ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined  $K = 70.16$  ft/day  
 Solution Method: Bouwer-Rice  $y_0 = 0.5815$  ft



NRMW-2BIN

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW2BIN.AQT  
 Date: 03/03/00 Time: 09:12:05

AQUIFER DATA

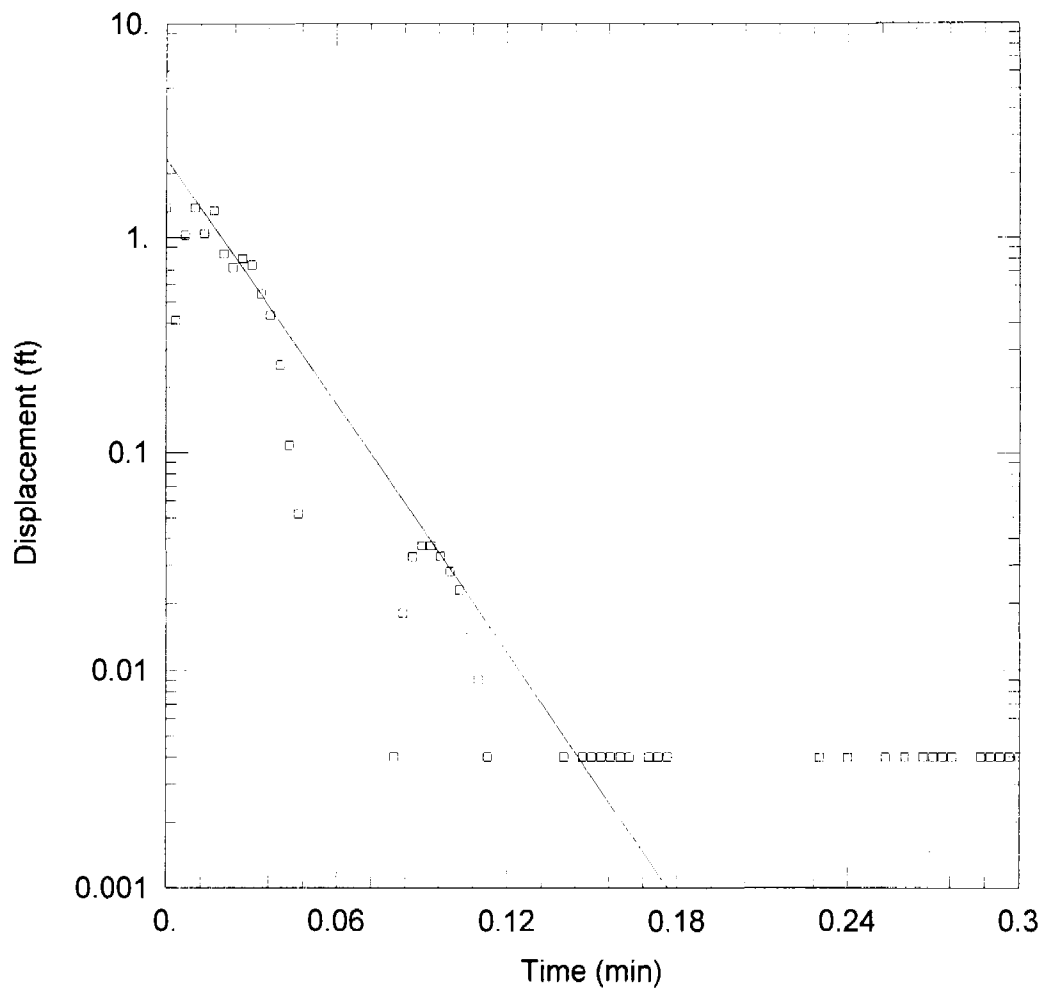
Saturated Thickness: 500. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.239 ft Water Column Height: 25.16 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10. ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined K = 287.1 ft/day  
 Solution Method: Bouwer-Rice y0 = 2.84 ft



NRMW-2BOUT

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW2BOU.AQT  
 Date: 03/03/00 Time: 09:12:42

AQUIFER DATA

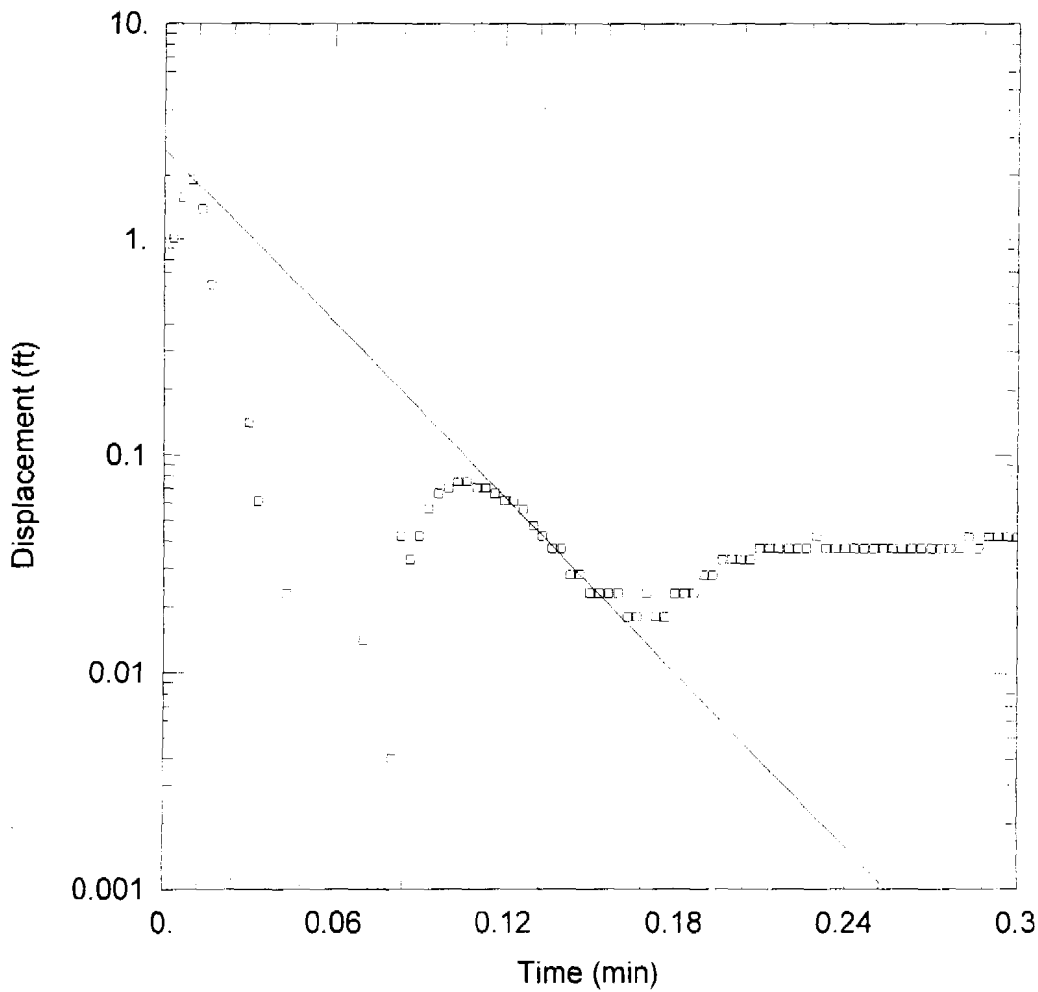
Saturated Thickness: 500. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.376 ft Water Column Height: 25.16 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10. ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined K = 290.6 ft/day  
 Solution Method: Bouwer-Rice y0 = 2.332 ft



NRMW-3AIN

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW3AIN.AQT  
 Date: 03/03/00 Time: 09:13:40

AQUIFER DATA

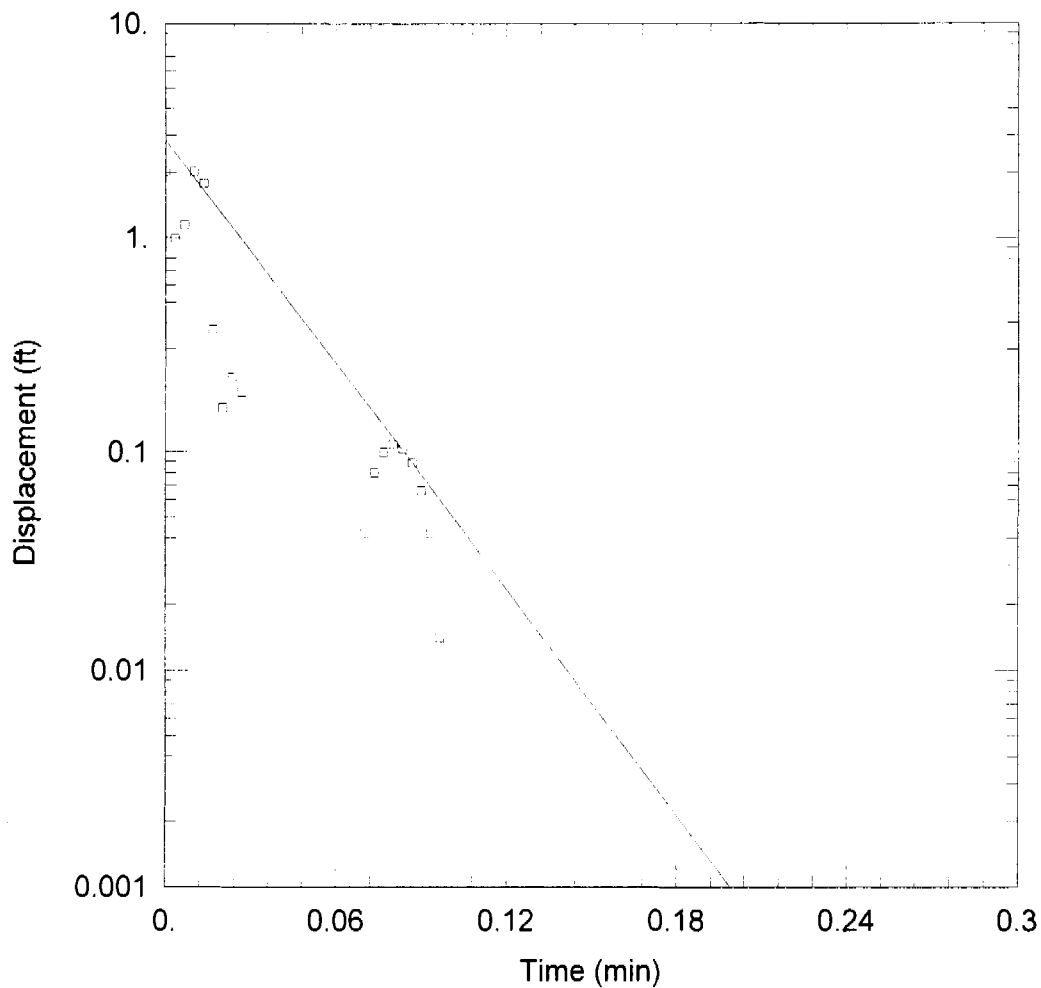
Saturated Thickness: 500. ft Anisotropy Ratio ( $K_z/K_r$ ): 1.

WELL DATA

Initial Displacement: 1.909 ft Water Column Height: 29.59 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10. ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined  $K = 209.7$  ft/day  
 Solution Method: Bouwer-Rice  $y_0 = 2.622$  ft



NRMW-3AOUT

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW3AOU.AQT  
 Date: 03/03/00 Time: 09:14:03

AQUIFER DATA

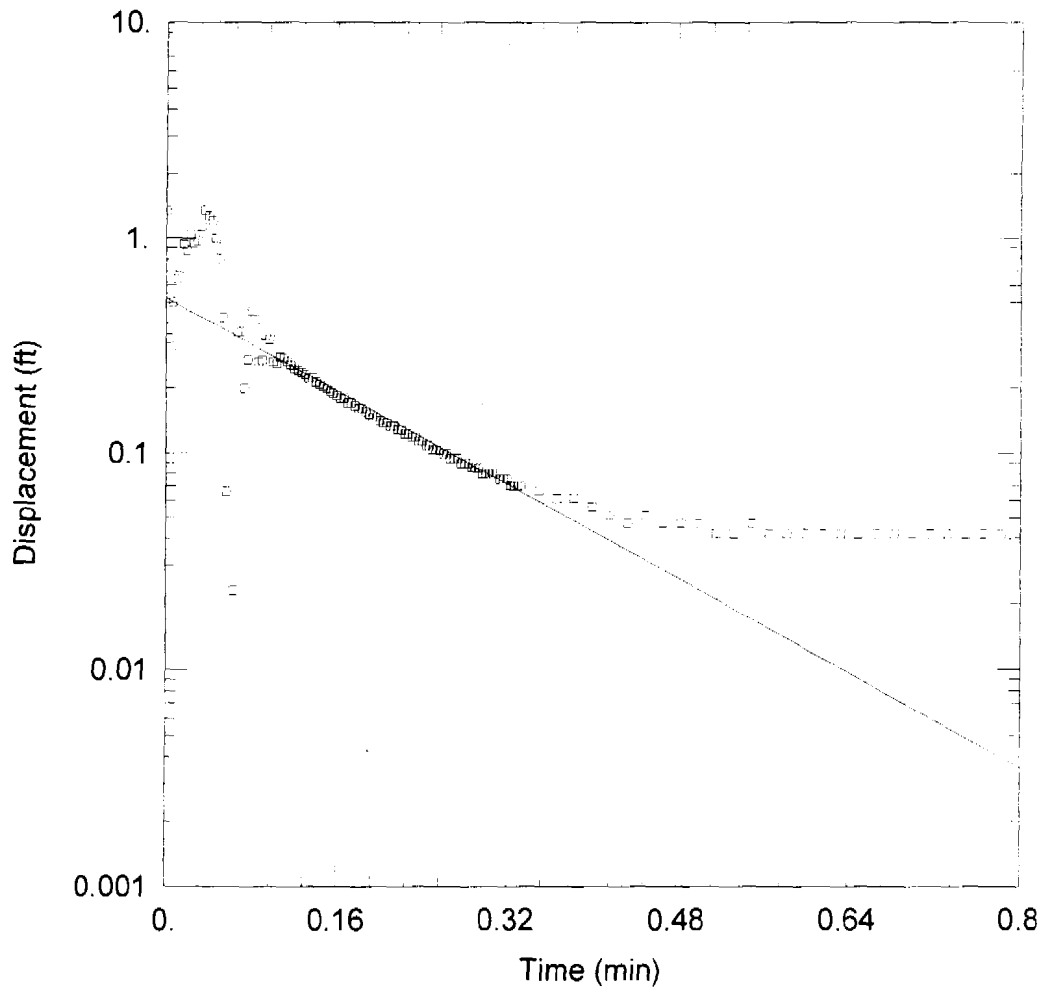
Saturated Thickness: 500 ft Anisotropy Ratio (Kz/Kr): 1

WELL DATA

Initial Displacement: 2.036 ft Water Column Height: 29.59 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10 ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined K = 270.6 ft/day  
 Solution Method: Bouwer-Rice y0 = 2.833 ft



NRMW-4BIN

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW4BIN.AQT

Date: 03/03/00

Time: 09:14:34

AQUIFER DATA

Saturated Thickness: 500. ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

WELL DATA

Initial Displacement: 1.351 ft

Water Column Height: 27.57 ft

Casing Radius: 0.08333 ft

Wellbore Radius: 0.3333 ft

Screen Length: 10. ft

Gravel Pack Porosity: 0.3

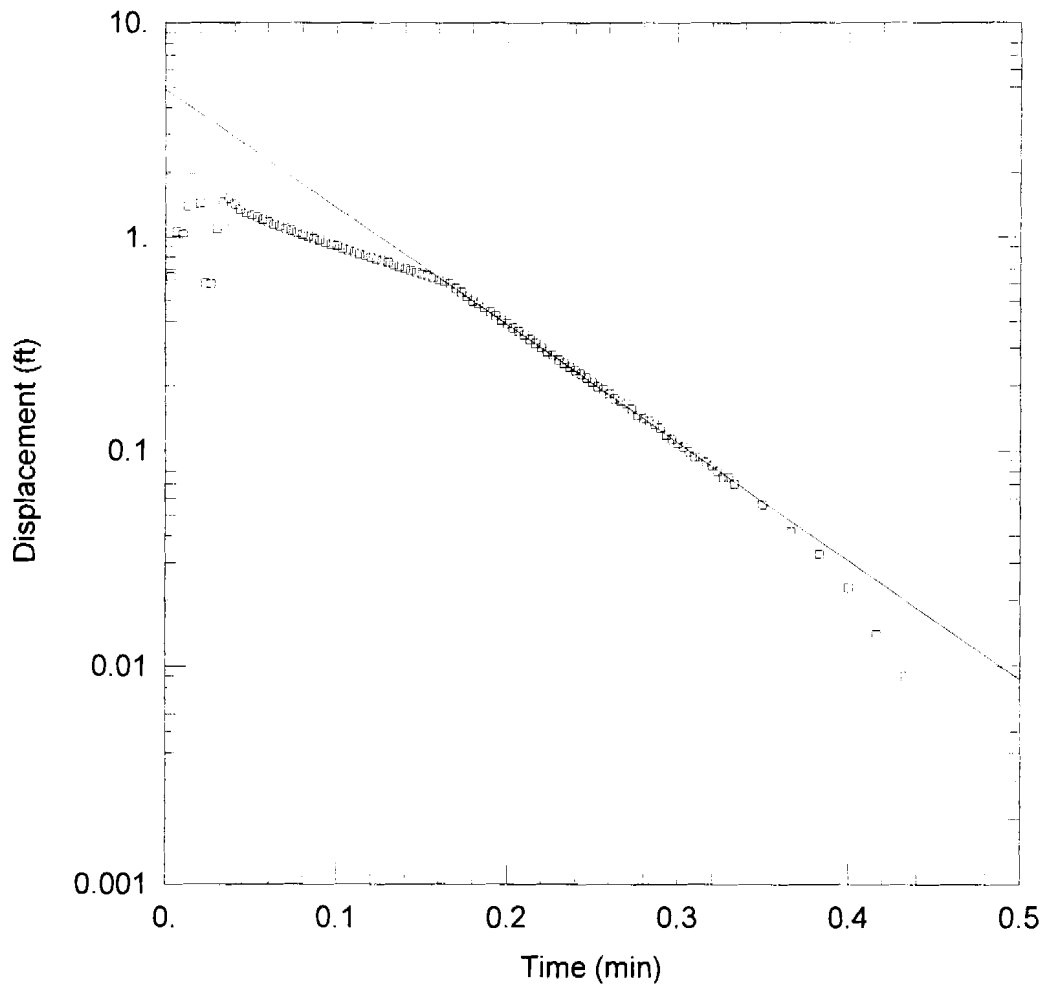
SOLUTION

Aquifer Model: Unconfined

$K = 41.79$  ft/day

Solution Method: Bouwer-Rice

$y_0 = 0.5236$  ft



NRMW-4AOUT

Data Set: D:\MYDOCU~1\NCIA\NCIAGW\SLUGTEST\RESULTS\NRMW4AOU.AQT  
 Date: 03/03/00 Time: 09:15:13

AQUIFER DATA

Saturated Thickness: 500. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.055 ft Water Column Height: 27.57 ft  
 Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft  
 Screen Length: 10. ft Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined K = 84.91 ft/day  
 Solution Method: Bouwer-Rice y0 = 4.865 ft



**APPENDIX D**  
**MONITORING WELL SAMPLING LOGS**



MONITORING WELL SAMPLING LOGS  
APRIL 1999





# Well Sampling Log

Date: 16-Apr  
 Crew: CJDK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: EW-1B  
 Well Condition: Good  
 Well Depth/Diameter: 164/2"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 154-164  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 45.77  
 Water Column Ht./Vol.: 118'/33  
 Purge Est.: 100  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/16/1999  
1130-  
 Depth(s): 150 and up  
 Rates (gpm): 3  
 Purged Volume: 100  
 DTW After Purging: 45.79  
 Yield Rate: L - M - H  
 Purge Observations:

DTW Before Sampling: 45.77  
 Sample Date/Time: 4/16/99 1240  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 45.77  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.8	5.9	278	90
End	14.8	5.9	279	110

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCI	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.6	5.9	303	7
20	14.7	5.8	291	7
40	14.9	5.7	289	4
60	14.9	5.7	289	9
80	14.9	5.7	290	12
100	15	5.7	289	8

Comments:

Air Temp: 12  
 Weather Conditions: Cold Rainy

Crew Chief Signature

E. Holbach

Date:

3/7/00

Note:

Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

Date: 19-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well sampling  
 Project Site: Early warning well 1 deep

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: s/n 19834

Well ID No.: EW-1C  
 Well Condition: good  
 Well Depth/Diameter: 516/4  
 Well Casing Type: carbon steel  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.: ~  
 Reference Pt.: TOC  
 Depth to Water (DTW): ~  
 Water Column Ht./Vol.: ~470  
 Purge Est.: ~1000  
 Purge Method(s): dedicated grundfos  
 Purge Date/Time(s): 4-19/ 1630-1755

DTW Before Sampling: ~  
 Sample Date/Time: 4-19/ 1800  
 Sampling Method: dedicated HDPE tubing  
 Sampling Depth(s): ~  
 DTW After Sampling: ~  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): bottom  
 Rates (gpm): 15  
 Purged Volume: >1000  
 DTW After Purging: ~  
 Yield Rate: H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	11.9	7.6	.108	9.1
End	12	7.6	.109	11.2

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	49	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.8	9.9	.141	37.2
200	12.9	9.3	.117	110.2
400	12.4	8.3	.112	79.7
600	12.3	7.8	.110	16.6
800	12.1	7.6	.109	13.4
1000	11.9	7.6	.108	9.1

Comments:

Air Temp: 60's

Weather Conditions: occasional drizzle/sun

Crew Chief Signature

E. HoltherrDate: 3-7-00

# LMS

## Well Sampling Log

Date: 16-Apr  
Crew: CJDK  
Job No: 650-422  
Project: NCIA Groundwater  
Project Site: \_\_\_\_\_

METERS USED  
Temp.: TCL #10  
pH: DEC 4-99-02  
Cond.: TCL #10  
Turb.: LMS #001

Well ID No.: EW-2B  
Well Condition: Good  
Well Depth/Diameter: 142'2"  
Well Casing Type: PVC sch 80  
Screened Interval: 132-142  
Casing Ht./Lock No.: none  
Reference Pt.: TOC  
Depth to Water (DTW): 46.7  
Water Column Ht./Vol.: 95'30  
Purge Est.: 90  
Purge Method(s): Grundfos 2"  
Purge Date/Time(s): 4/16/1999  
900- 1055

DTW Before Sampling: 46.7  
Sample Date/Time: 4/16/99 - 1100  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOW  
DTW After Sampling: 46.7  
Chain-of-Custody No.(s): \_\_\_\_\_  
Analytical Lab(s): H2M  
Sampling Observations: \_\_\_\_\_

Depth(s): All  
Rates (gpm): 1.5  
Purged Volume: 90  
DTW After Purging: 46.7  
Yield Rate: L - M - H M  
Purge Observations: Had pump problems ...  
worked best when pumping at a slow rate

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.1	5.7	265	10
End	15.2	5.7	271	15

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCI	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16	5.7	268	100
18	15.1	5.7	266	5
36	15.1	5.7	265	5
54	15.1	5.7	263	4
72	15.1	5.7	264	4
90	15.1	5.7	265	10

Comments:

Air Temp: 12  
Weather Conditions: Cold Rainy

Crew Chief Signature

E. Hollett

Date:

3.7.00

Note:

Temperature is measured in Celsius  
Turbidity is measured in NTU  
Volume is measured in gallons



Well Sampling Log

Date: 20-Apr-99
Crew: EH/DK
Job No: 650-422
Project: NCIA Well Sampling
Project Site: Aster

METERS USED
Temp.: TLC#8
pH: DEC 4-99-04
Cond.: TLC#8
Turb.: SN 19834

Well ID No.: EW-2C
Well Condition: good
Well Depth/Diameter: ~500 4
Well Casing Type: carbon steel
Screened Interval: bottom 10
Casing Ht./Lock No.:
Reference Pt.:
Depth to Water (DTW): ~45
Water Column Ht./Vol.: ~455 ~309
Purge Est.: ~1000
Purge Method(s): dedicated submersible pum
Purge Date/Time(s): 21-Apr-99 0850-1000

DTW Before Sampling:
Sample Date/Time: 20-Apr 1000
Sampling Method: dedicated HDPE tubing
Sampling Depth(s): toc
DTW After Sampling:
Chain-of-Custody No.(s):
Analytical Lab(s): H2M
Sampling Observations:

Depth(s): all
Rates (gpm): 15
Purged Volume: >1000
DTW After Purging:
Yield Rate: H
Purge Observations:

Table with 5 columns: Temp. (°C), pH, Sp. Cond, Turb. Rows for Start and End.

Table with 4 columns: Parameter, Inv. No., Pres. Meth., Filter. Row for VOCs.

PURGE CHEMISTRIES table with 5 columns: Vol., Temp. (°C), pH, Sp. Cond., Turb. Rows for 0, 250, 500, 750, 1000.

Comments:

Air Temp: 60
Weather Conditions: sunny

Handwritten signature: E. Hollister

Handwritten date: 3-7-00

Crew Chief Signature

Date:



**LMS**

## Well Sampling Log

Date: 12-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 675 Brooklyn

Well ID No.: N-9938  
 Well Condition: fair  
 Well Depth/Diameter: 70.56/4"  
 Well Casing Type: pvc  
 Screened Interval: bottom 5 + 3' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.96  
 Water Column Ht./Vol.: 17.6/29.0  
 Purge Est.: 90  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 12-Apr-99 16:30-17:05

Depth(s): all  
 Rates (gpm): 3  
 Purged Volume: >90  
 DTW After Purging: 53.25  
 Yield Rate: H  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.2	5.5	.419	>100
15	15.8	5.2	.382	10
30	15.4	5.2	.374	10
45	15.4	5.1	.380	10
60	15.8	5.1	.374	10

Comments: turbidity estimated, meter will not calibrate.  
well cleared up nicely.

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 53.25  
 Sample Date/Time: 4-12/17:10  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 52.98  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.8	5.1	.383	7
End	15.0	5.7	.247	30

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	07	<4°C	N

75	15.2	5.1	.377	15
90	15.8	5.1	.383	7

Air Temp: 50's  
 Weather Conditions: breezy, partly cloudy

Crew Chief Signature

E. HolbertDate: 3-7-00



# Well Sampling Log

Date: 12-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

## METERS USED

Temp.: TLC #10  
 pH: DEC 4-99-02  
 Cond.: TLC #10  
 Turb.: LMS #001

Well ID No.: N-9939  
 Well Condition: Good  
 Well Depth/Diameter: 77/4in  
 Well Casing Type: PVC sch 80  
 Screened Interval: 74-79  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 40.2  
 Water Column Ht./Vol.: 39/31  
 Purge Est.: 93  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/12/1999  
 1015- 1040  
 Depth(s): All  
 Rates (gpm): 6  
 Purged Volume: 95  
 DTW After Purging: 40.2  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 40.2  
 Sample Date/Time: 4/12/99 - 1055  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 40.2  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	13.7	4.9	389	5
End	13.7	4.7	381	15

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCL	95-1	NO

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	13.6	5	384	110
19	13.7	4.8	381	10
38	13.6	5.1	382	10
57	13.8	5.4	382	6
76	13.4	5.3	389	6
95	13.7	4.9	389	5

Comments:

Air Temp: 10.1  
 Weather Conditions: Sunny

Crew Chief Signature

*E. Holmstr*

Date:

3-7-00

### Note:

Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

**LMS**

## Well Sampling Log

Date: 20-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: NY Ave. (Adchem)

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: SN 19834

Well ID No.: N-10321  
 Well Condition: fair  
 Well Depth/Diameter: 61.2     2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.69  
 Water Column Ht./Vol.: 8.51/ 7.6  
 Purge Est.: 22.9  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 20-Apr-99 1415-1430

DTW Before Sampling: 52.70  
 Sample Date/Time: 20-Apr 1445  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 52.7  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 1.5  
 Purged Volume: >24  
 DTW After Purging: 52.83  
 Yield Rate: M - H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.8	5.3	.215	15
End	14.5	5.5	.218	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	53	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.0	5.6	.264	>200
6	15.7	5.5	.219	35
12	15.7	5.5	.211	20
18	15.7	5.2	.215	75
24	15.8	5.3	.215	15

pulled pump 3'

Comments:

Air Temp: 50's  
 Weather Conditions: rain

Crew Chief Signature

E. HoltsDate: 3-7-00

Date: 12-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: Bond & Summa

Well ID No.: N-10322  
 Well Condition: fair  
 Well Depth/Diameter: 63.5/1.5"  
 Well Casing Type: pvc  
 Screened Interval: bottom 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.86  
 Water Column Ht./Vol.: 9.64/8.2  
 Purge Est.: 25  
 Purge Method(s): teflon bailer  
 Purge Date/Time(s): 12-Apr-99 14:15-16:10

Depth(s): all  
 Rates (gpm): 0.25  
 Purged Volume: 25  
 DTW After Purging: 53.89  
 Yield Rate: L  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0.5	14.6	5.8	.237	>200
5	14.2	5.4	.198	>200
10	14.7	5.5	.202	>200
15	14.4	5.4	.201	>200
20	14.4	5.4	.200	>200
25	14.6	5.3	.207	>200

Comments:  
Dark brown, very silty, sandy

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 53.89  
 Sample Date/Time: 4-12/16:15  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 53.89  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.6	5.3	.207	>200
End	14.6	5.3	.168	>200

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	08	<4°C	N

Air Temp: 50's  
 Weather Conditions: breezy, partly cloudy

Crew Chief Signature

E. HollisterDate: 5-7-00

# LMS

## Well Sampling Log

Date: 15-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-10324  
 Well Condition: Fair  
 Well Depth/Diameter: 57/2"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 47-57  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 47.95  
 Water Column Ht./Vol.: 9/12  
 Purge Est.: 36  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/15/1999  
 840- 905  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 36  
 DTW After Purging: 47.95  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 47.95  
 Sample Date/Time: 4/15/99 - 0910  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 47.95  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.8	6.3	324	5
End	14.7	6.4	322	90

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.4	6.5	416	110
7	14.8	6.4	327	15
14	14.8	6.3	323	7
21	14.8	6.2	324	6
28	14.8	6.2	322	5
36	14.8	6.3	324	5

Comments: Had to drill through pvc cap to open... Need to replace cap

Air Temp: 16  
 Weather Conditions: Sunny

Crew Chief Signature E. Holter

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 13-Apr  
 Crew: BSM / DK  
 Job No: 650-  
 Project: NCIA  
 Project Site: Swalm St

## METERS USED

Temp.: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Cond.: \_\_\_\_\_  
 Turb.: \_\_\_\_\_

Well ID No.: N-10325 (NC-8)  
 Well Condition: Good  
 Well Depth/Diameter: 57' / 2"  
 Well Casing Type: PVC  
 Screened Interval: 10'  
 Casing Ht./Lock No.: Flush  
 Reference Pt.: Notch on PVC  
 Depth to Water (DTW): 49.38'  
 Water Column Ht./Vol.: 7.62' / ~10 gal  
 Purge Est.: ~30 gal  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 4/13/99 / 1100

DTW Before Sampling: 49.50'  
 Sample Date/Time: 4/13/99 / 1145  
 Sampling Method: Bailer  
 Sampling Depth(s): ~55'  
 DTW After Sampling: 49.50'  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ~55'  
 Rates (gpm): 3 GPM  
 Purged Volume: ~30 gal  
 DTW After Purging: 49.50'  
 Yield Rate: L - M - H  
 Purge Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.8	6.2	0.168	>200
End	14.8	5.9	0.111	>200

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
5	15	5.9	0.12	40
10	15.1	5.9	0.12	20
15	15.1	5.9	0.116	20
20	15.1	5.9	0.117	20
25	15.1	5.9	0.118	10
30	15.1	5.9	0.118	10

Comments:

Air Temp: 55 Degrees  
 Weather Conditions: Sunny

Crew Chief Signature

Date:

3/7/00  
4/13/1999

### Note:

Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

**LMS**

## Well Sampling Log

Date: 13-Apr-99  
 Crew: EH/NG  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 58 Sylvester

Well ID No.: N-10326  
 Well Condition: fair  
 Well Depth/Diameter: 57.15 2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 10 assumed  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.94  
 Water Column Ht./Vol.: 6.21 8.3  
 Purge Est.: 25  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 13-Apr-99 1300-1315

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: >30  
 DTW After Purging: 50.94  
 Yield Rate: H  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15	5.6	.243	>200
5	15.5	5.5	.239	>100
10	16.1	5.6	.238	50
15	16.3	5.4	.238	25
20	15.9	5.5	.237	20
25	15.9	5.5	.237	10

Comments:

turbidity estimated, meter will  
not calibrate.

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 50.97  
 Sample Date/Time: 13-Apr 1320  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 50.94  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.9	5.5	.237	10
End	15.8	5.5	.238	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	10	<4°C	N

Air Temp: 50'sWeather Conditions: sunny, breezy

Crew Chief Signature

E. Hollister

Date:

3-7-00

Date: 15-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA well sampling  
 Project Site: \_\_\_\_\_

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: N-10327  
 Well Condition: POOR  
 Well Depth/Diameter: 55.0      2  
 Well Casing Type: PVC  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.: \_\_\_\_\_  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.72  
 Water Column Ht./Vol.: 5.28/4.7  
 Purge Est.: 14.2  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 15-Apr-99 1300- 1530

DTW Before Sampling: 49.72  
 Sample Date/Time: 15-Apr 1545  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 49.72  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

Depth(s): all  
 Rates (gpm): 0.25  
 Purged Volume: 15  
 DTW After Purging: 49.72  
 Yield Rate: L  
 Purge Observations: \_\_\_\_\_

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.4	5.3	.997	>200
End	15.9	5.3	1.002	>200

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	34	<4°C	N
38 blind dup			

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.6	6	.413	>200 g
3	20.2	5.8	.836	>200 g
6	17.7	5.6	.954	>100 g
9	16	5.5	.972	>200 b
12	15.2	5.4	1.011	>200 b
15	15.4	5.3	.997	>200 b

Comments: blind dup N-72301  
catches runoff from carwash lot

Air Temp: 60's  
 Weather Conditions: sunny

Crew Chief Signature

E. HalvickDate: 3-7-00



Date: 14-Apr-99  
 Crew: EH/SE  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 979 Old Country (NY Ave)

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: N-10328  
 Well Condition: fair  
 Well Depth/Diameter: 53.80/2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 48.05  
 Water Column Ht./Vol.: 5.75      5.2  
 Purge Est.: 15.5  
 Purge Method(s): teflon bailer  
 Purge Date/Time(s): 14-Apr-99 1515-1635

DTW Before Sampling: 48.04  
 Sample Date/Time: 14-Apr 1640  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 48.04  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): .2  
 Purged Volume: 15  
 DTW After Purging: 48.04  
 Yield Rate: NA  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.5	6.3	.255	>100
End	15.6	6.3	.219	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	24	<4°C	N
	25 MS		
	26MSD		

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.3	5.6	.368	>100
3	15.7	5.8	.268	>100
6	15.5	5.9	.285	>200
9	15.1	6.1	.231	>200
12	15.4	5.9	.258	>200
15	15.5	6.3	.255	>100

Comments:  
ms/msd

Air Temp: 60's  
 Weather Conditions: sunny, windy

Crew Chief Signature

E. HolthuisDate: 3-7-00

Date: 14-Apr-99  
 Crew: EH/SE  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 2520 Hyacinth

Well ID No.: N-10329  
 Well Condition: fair  
 Well Depth/Diameter: 56'2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.5  
 Water Column Ht./Vol.: 5.50/4.9  
 Purge Est.: 15  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 14-Apr-99 1215-1245

Depth(s): all  
 Rates (gpm): 1.5  
 Purged Volume: 18  
 DTW After Purging: 50.52  
 Yield Rate: H  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.1	5.5	0.832	>200
3	16.6	5.3	0.776	>100
6	16.6	5.4	0.784	>100
9	16.4	5.6	0.811	>100
12	16.5	5.6	0.838	>100
15	16.3	5.5	0.847	~40

Comments:

blind dup  
 N-92301

turbidity estimated, meter will  
 not calibrate.

Crew Chief Signature

E. HalliwellDate: 5-7-00METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 50.52  
 Sample Date/Time: 13-Apr 1300  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 50.5  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	16.7	5.5	.859	~25
End	16.1	5.6	.869	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	22	<4°C	N
23 blind dup			

Air Temp: 60Weather Conditions: sunny, windy

# LMS

## Well Sampling Log

Date: 14-Apr  
Crew: CJDK  
Job No: 650-422  
Project: NCIA Groundwater  
Project Site: \_\_\_\_\_

### METERS USED

Temp.: TCL #10  
pH: DEC 4-99-02  
Cond.: TCL #10  
Turb.: LMS #001

Well ID No.: N-10459  
Well Condition: Good  
Well Depth/Diameter: 68'2"  
Well Casing Type: PVC sch 40  
Screened Interval: 58-68  
Casing Ht./Lock No.: none  
Reference Pt.: TOC  
Depth to Water (DTW): 56.1  
Water Column Ht./Vol.: 12'/16  
Purge Est.: 50  
Purge Method(s): Grundfos 2"  
Purge Date/Time(s): 4/14/1999  
1420- 1440  
Depth(s): All  
Rates (gpm): 5  
Purged Volume: 50  
DTW After Purging: 56.85  
Yield Rate: L - M - H H  
Purge Observations: \_\_\_\_\_

DTW Before Sampling: 56.1  
Sample Date/Time: 4/14/99 - 1455  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOW  
DTW After Sampling: 56.1  
Chain-of-Custody No.(s): \_\_\_\_\_  
Analytical Lab(s): H2M  
Sampling Observations: \_\_\_\_\_

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.7	4.3	275	225
End	14.9	4.4	267	90

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.8	4.7	270	350
10	14.9	4.4	280	300
20	14.8	4.4	282	300
30	14.8	4.4	278	50
40	14.7	4.3	272	200
50	14.7	4.3	275	225

Comments: \_\_\_\_\_

Air Temp: 16

Weather Conditions: Sunny Windy

Crew Chief Signature \_\_\_\_\_

E. Hellert

Date: 3-7-00

#### Note:

Temperature is measured in Celsius

Turbidity is measured in NTU

Volume is measured in gallons



Well Sampling Log

Date: 19-Apr-99
Crew: EH/DK
Job No: 650-422
Project: NCIA Well sampling
Project Site: Early warning well # 4 deep

METERS USED
Temp.: TLC#8
pH: DEC 4-99-04
Cond.: TLC#8
Turb.: s/n 19834

Well ID No.: N-10462
Well Condition: poor
Well Depth/Diameter: 63.4/2
Well Casing Type: pvc
Screened Interval: bottom 10
Casing Ht./Lock No.:
Reference Pt.: TOC
Depth to Water (DTW): 51.9
Water Column Ht./Vol.: 11.5/ 10.3
Purge Est.: 31
Purge Method(s): grundfos
Purge Date/Time(s): 4-19/ 1310-1330

DTW Before Sampling: 51.9
Sample Date/Time: 4-19/ 1415
Sampling Method: teflon bailer
Sampling Depth(s): toc
DTW After Sampling: 51.9
Chain-of-Custody No.(s):
Analytical Lab(s): H2M
Sampling Observations:

Depth(s): all
Rates (gpm): 2
Purged Volume: 40
DTW After Purging: 51.9
Yield Rate: M

Table with 5 columns: Temp. (°C), pH, Sp. Cond, Turb. Rows for Start and End values.

Purge Observations:
cleaned up quickly

Table with 4 columns: Parameter, Inv. No., Pres. Meth., Filter. Row for VOCs.

PURGE CHEMISTRIES table with 5 columns: Vol., Temp. (°C), pH, Sp. Cond., Turb. Rows for 0, 7.5, 15, 22.5, 30, 37.5.

Comments:

Air Temp: 60's
Weather Conditions: sunny, slightly breezy

Crew Chief Signature [Signature] Date: 3.7.00



# Well Sampling Log

Date: 13-Apr  
 Crew: BSM / DK  
 Job No: 650-  
 Project: NCIA  
 Project Site: Grand Blvd

## METERS USED

Temp.: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Cond.: \_\_\_\_\_  
 Turb.: \_\_\_\_\_

Well ID No.: NC-18 (N-10464)  
 Well Condition: Good  
 Well Depth/Diameter: 60' / 2"  
 Well Casing Type: PVC  
 Screened Interval: 10'  
 Casing Ht./Lock No.: Flush  
 Reference Pt.: Notch on PVC  
 Depth to Water (DTW): 47.87'  
 Water Column Ht./Vol.: 12.13' / ~32 gal  
 Purge Est.: ~96 gal  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 4/13/99 / 830

DTW Before Sampling: 47.82  
 Sample Date/Time: 4/13/99 / 915  
 Sampling Method: Bailer  
 Sampling Depth(s): ~58'  
 DTW After Sampling: 47.82  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ~58'  
 Rates (gpm): ~3 GPM  
 Purged Volume: ~96 gal  
 DTW After Purging: 47.85'  
 Yield Rate: L - M - H  
 Purge Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.2	5.7	0.111	>200
End	14.6	5.7	0.103	125

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
16	14.7	5.5	0.085	70
32	14.9	5.5	0.085	8
48	14.9	5.5	0.084	5
64	14.8	5.5	0.084	4
80	14.9	5.5	0.085	5
96	14.8	5.5	0.084	4

Comments:

Air Temp: 50 Degrees  
 Weather Conditions: Sunny

Crew Chief Signature

*E. Holthist*

Date: 3-7-00  
4/13/1999

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 13-Apr  
 Crew: BSM / DK  
 Job No: 650-  
 Project: NCIA  
 Project Site: 80 Rushmore St

## METERS USED

Temp.: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Cond.: \_\_\_\_\_  
 Turb.: \_\_\_\_\_

Well ID No.: N-10465 (NC-19)  
 Well Condition: Good  
 Well Depth/Diameter: 62' / 2"  
 Well Casing Type: PVC  
 Screened Interval: 10'  
 Casing Ht./Lock No.: Flush  
 Reference Pt.: Notch on PVC  
 Depth to Water (DTW): 50.70'  
 Water Column Ht./Vol.: 11.3' / ~15 gal  
 Purge Est.: ~45 gal  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 4/13/99 / 1400

DTW Before Sampling: 50.80'  
 Sample Date/Time: 4/13/99 / 1445  
 Sampling Method: Bailer  
 Sampling Depth(s): ~60'  
 DTW After Sampling: 50.77'  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ~60'  
 Rates (gpm): 3 GPM  
 Purged Volume: ~45 gal  
 DTW After Purging: 50.80'  
 Yield Rate: L - M - H  
 Purge Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.5	5.9	0.256	>200
End	14.6	6.1	0.146	70

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
10	14.8	5.9	0.206	>200
20	14.7	5.9	0.188	150
30	14.7	5.9	0.177	90
40	14.7	5.9	0.174	70
50	14.7	6	0.166	25

Comments:

Air Temp: 55 Degrees  
 Weather Conditions: Sunny

Crew Chief Signature

Date: 3-7-00  
4/13/1999

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

**LMS**

## Well Sampling Log

Date: 13-Apr-99  
 Crew: EH/NG  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 17 Brooklyn

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: N-10470  
 Well Condition: good  
 Well Depth/Diameter: 64.9 /2"  
 Well Casing Type: PVC  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.45  
 Water Column Ht./Vol.: 15.45 11.3  
 Purge Est.: 34  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 13-Apr-99 0900-930

DTW Before Sampling: 49.45  
 Sample Date/Time: 13-Apr 945  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 49.45  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: 50  
 DTW After Purging: 49.45  
 Yield Rate: H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.9	5.6	.349	15
End	13.8	5.6	.334	45

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	09	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.3	5.6	.479	>200
7.5	14.8	5.7	.469	>100
15	14.7	5.6	.423	50
22.5	15.1	5.6	.393	50
30	15	5.6	.370	25
35	14.9	5.6	.349	15

Comments:  
 slight odor  
 turbidity estimated, meter will  
 not calibrate.

Air Temp: 50's  
 Weather Conditions: sunny, breezy

Crew Chief Signature

E. Holthorst

Date:

3-7-00

## Well Sampling Log

Date: 14-Apr-99  
 Crew: EH/SE  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 50 State Street

Well ID No.: N-10471  
 Well Condition: poor  
 Well Depth/Diameter: 104.25 2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 10 assumed  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 47.9  
 Water Column Ht./Vol.: 56.25 18  
 Purge Est.: 54  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 14-Apr-99 0845-915  
 Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: 50  
 DTW After Purging: 49.15  
 Yield Rate: H  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.3	5.6	.191	>100
10	15.5	5.6	.199	>100
20	15.3	5.6	.199	>100
30	15.5	5.4	.199	>100
40	15.4	5.6	.202	>100
50	15.3	5.6	.202	~100

Comments:

ms/msd

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 47.9  
 Sample Date/Time: 14-Apr 1000  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling 47.9  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.8	5.8	.179	~50
End	14.5	5.8	.183	~100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	19	<4°C	N
	20 MS		
	21 MSD		

60 15.3 5.6 .202 ~50

Air Temp:

Weather Conditions:

Crew Chief Signature

E. HellmuthDate: 3-7-00





# Well Sampling Log

Date: 15-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

## METERS USED

Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-10472  
 Well Condition: Good  
 Well Depth/Diameter: 62 1/2"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 52-62  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.76  
 Water Column Ht./Vol.: 9'/14  
 Purge Est.: 42  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/15/1999  
1550- 1620  
 Depth(s): All  
 Rates (gpm): 3  
 Purged Volume: 42  
 DTW After Purging: 43.76  
 Yield Rate: L - M - H M  
 Purge Observations:

DTW Before Sampling: 43.76  
 Sample Date/Time: 4/15/99 - 1625  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 43.76  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.9	6	234	100
End	14.9	6	229	120

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.3	6.3	262	>1000
8	14.9	5.9	251	400
16	15	6.6	212	>1000
24	15	5.8	245	400
36	15.1	5.7	244	450
42	15.2	5.7	250	25

Comments:

Air Temp: 16  
 Weather Conditions: Sunny

Crew Chief Signature

E. Hollist

Date: 3-7-99

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 15-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

## METERS USED

Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-10474  
 Well Condition: Fair  
 Well Depth/Diameter: 60'2"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 50-60  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.95  
 Water Column Ht./Vol.: 13'16  
 Purge Est.: 50  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/15/1999  
950- 1010  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 50  
 DTW After Purging: 46.95  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 46.95  
 Sample Date/Time: 4/15/99 - 1020  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 46.95  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.4	5.7	163	200
End	17	6.4	128	150

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.9	6	137	>1000
10	15.4	5.7	154	>1000
20	16.5	5.7	159	500
30	16.4	5.7	159	400
40	16.4	5.7	160	250
50	16.4	5.7	163	500

Comments:

Air Temp: 16  
 Weather Conditions: Sunny

Crew Chief Signature

E Hollister

Date:

3-7-00

### Note:

Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 15-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-10475  
 Well Condition: Good  
 Well Depth/Diameter: 57/2"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 47-57  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 36.67  
 Water Column Ht./Vol.: 20'/16  
 Purge Est.: 48  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/15/1999

DTW Before Sampling: 43.9  
 Sample Date/Time: 4/14/99 - 1500  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 44.5  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

1400- 1445  
 Depth(s): All  
 Rates (gpm): 3  
 Purged Volume: 16  
 DTW After Purging: 43.9  
 Yield Rate: L - M - H L  
 Purge Observations: \_\_\_\_\_  
 Went Dry three times...

SAMPLE CHEMISTRIES				
	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	13.3	6	99	>1000
End	13.4	6	103	>1000

SAMPLE ANALYSES				
Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

PURGE CHEMISTRIES				
Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	13.6	6.7	160	>1000
12	14.4	6.2	120	>1000
16	13.3	6	103	>1000
-				
-				
-				

Comments:

Air Temp: 16  
 Weather Conditions: Sunny

Crew Chief Signature

E Hollist

Date:

5-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 15-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-10476  
 Well Condition: Poor  
 Well Depth/Diameter: 130'4"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 110-130  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.77  
 Water Column Ht./Vol.: 86'78  
 Purge Est.: 240  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/15/1999  
1120- 1335

DTW Before Sampling: 111.32  
 Sample Date/Time: 4/15/99 - 1340  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 103.37  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

Depth(s): All  
 Rates (gpm): 5  
 Purged Volume: 120  
 DTW After Purging: 119.05  
 Yield Rate: L - M - H L  
 Purge Observations: \_\_\_\_\_

SAMPLE CHEMISTRIES				
	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.7	6.5	95	11
End	14.7	6.5	93	15

SAMPLE ANALYSES				
Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

Purged dry 4 times sampling after having removed about 120 gal.

PURGE CHEMISTRIES				
Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.3	6.4	126	10
40	15.6	6.2	116	20
80	15.1	6.6	173	400
120	15	6.6	97	70
-				
-				

Comments: \_\_\_\_\_

Air Temp: 16  
 Weather Conditions: Sunny

Crew Chief Signature E. Holth Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

# LMS Well Sampling Log

Date: 12-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TLC #10  
 pH: DEC 4-99-02  
 Cond.: TLC #10  
 Turb.: LMS #001

Well ID No.: N-10477  
 Well Condition: Good  
 Well Depth/Diameter: 57'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 47-57  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.85  
 Water Column Ht./Vol.: 13'/16  
 Purge Est.: 50  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/12/1999  
 1420- 1440  
 Depth(s): All  
 Rates (gpm): 5  
 Purged Volume: 50  
 DTW After Purging: 43.8  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 43.8  
 Sample Date/Time: 4/12/99 - 1450  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 43.85  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.8	4.9	445	150
End	16.7	5	482	200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.2	5.1	439	700
10	16.9	5	454	>1000
20	16.9	5	486	650
30	16.8	4.9	444	600
40	16.8	4.9	446	300
50	16.8	4.9	445	150

Comments:

Air Temp: 10.1  
 Weather Conditions: Sunny Windy

Crew Chief Signature E. Hellrich

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 12-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TLC #10  
 pH: DEC 4-99-02  
 Cond.: TLC #10  
 Turb.: LMS #001

Well ID No.: N-10478  
 Well Condition: Poor  
 Well Depth/Diameter: 121'4"  
 Well Casing Type: PVC sch 80  
 Screened Interval: 100-121  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.95  
 Water Column Ht./Vol.: 77/73  
 Purge Est.: 220  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/12/1999  
 1455-  
 Depth(s): All  
 Rates (gpm): 6  
 Purged Volume: 220  
 DTW After Purging: 44.06  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 44.06  
 Sample Date/Time: 4/12/99 - 1640  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 43.95  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15	5	201	3
End	15.4	5.2	205	15

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCI	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.1	5.5	202	15
44	15.5	5.2	205	10
88	15.3	5.2	204	7
132	15	5.2	202	4
176	15.1	5.2	200	4
220	15	5.1	201	3

Comments: This well needs a pvc cap... It is open under the water cover.

Air Temp: 10.1  
 Weather Conditions: Sunny Windy

Crew Chief Signature

E. Hellsteth

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

# LMS Well Sampling Log

Date: 12-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TLC #10  
 pH: DEC 4-99-02  
 Cond.: TLC #10  
 Turb.: LMS #001

Well ID No.: N-10479  
 Well Condition: Good  
 Well Depth/Diameter: 40'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 30-40  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 27.2  
 Water Column Ht./Vol.: 13/16.2  
 Purge Est.: 50  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/12/1999  
 1140- 1200  
 Depth(s): All  
 Rates (gpm): 4.5  
 Purged Volume: 50  
 DTW After Purging: 27.2  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 27.2  
 Sample Date/Time: 4/12/99 - 1205  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 27.2  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	13.3	6.7	322	200
End	13.3	6.7	338	250

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCL	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	13.6	6.8	356	>1000
10	14.1	6.8	270	700
20	13.9	6.7	256	600
30	14	6.7	249	250
40	14.1	6.6	245	130
50	14.1	6.7	247	200

Comments:

Air Temp: 10.2  
 Weather Conditions: Sunny/Windy

Crew Chief Signature E. Holbert Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 14-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-11848  
 Well Condition: Good  
 Well Depth/Diameter: 60'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 50-55  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 40.46  
 Water Column Ht./Vol.: 20'/11.5  
 Purge Est.: 35  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/14/1999  
 1520- 1545  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 35  
 DTW After Purging: 45.24  
 Yield Rate: L - M - H M  
 Purge Observations: Went Dry once

DTW Before Sampling: 40.46  
 Sample Date/Time: 4/14/99 - 1555  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 40.46  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.4	6.4	138	350
End	14.8	6.5	151	500

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCI	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.4	6	184	>1000
7	15	6.3	129	600
14	15.1	6.4	130	250
21	15	6.3	138	300
28	15.8	6.3	136	400
35	15.4	6.4	138	350

Comments:

Air Temp: 16  
 Weather Conditions: Sunny Windy

Crew Chief Signature

E. Holley

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# LMS Well Sampling Log

Date: 14-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-11849  
 Well Condition: Good  
 Well Depth/Diameter: 60'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 50-55  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.45  
 Water Column Ht./Vol.: 14'/10.4  
 Purge Est.: 35  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/14/1999  
 1245- 1305  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 35  
 DTW After Purging: 46.6  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 46.45  
 Sample Date/Time: 4/14/99 - 1315  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 46.45  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.9	5.9	219	95
End	12.7	5.9	170	125

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.9	6.4	777	>1000
7	14.8	6.4	242	225
14	14.8	6.4	230	90
21	14.8	6	224	70
28	15	6	223	90
35	14.9	5.9	219	95

Comments:

Air Temp: 17.2  
 Weather Conditions: Sunny

Crew Chief Signature E. Helbert

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons



# Well Sampling Log

Date: 13-Apr  
 Crew: BSM / DK  
 Job No: 650-  
 Project: NCIA  
 Project Site: Grand Blvd and Hopper St

METERS USED  
 Temp.: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Cond.: \_\_\_\_\_  
 Turb.: \_\_\_\_\_

Well ID No.: N-11850  
 Well Condition: Good  
 Well Depth/Diameter: 65' / 2"  
 Well Casing Type: PVC  
 Screened Interval: 10'  
 Casing Ht./Lock No.: Flush  
 Reference Pt.: Notch on PC  
 Depth to Water (DTW): 48.97'  
 Water Column Ht./Vol.: 16.03'  
 Purge Est.: ~50 gal  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 4/13/99 / 930

DTW Before Sampling: 48.90'  
 Sample Date/Time: 4/13/99 / 1015  
 Sampling Method: Bailer  
 Sampling Depth(s): ~63'  
 DTW After Sampling: 48.92'  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ~63'  
 Rates (gpm): 3 GPM  
 Purged Volume: ~50 gal  
 DTW After Purging: 48.90'  
 Yield Rate: L - M - H  
 Purge Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.9	6.2	0.399	>200
End	15.8	6.6	0.217	>200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
8	15.4	6.2	0.378	40
16	15.4	6.2	0.382	15
24	15.5	6.2	0.387	10
32	15.5	6.2	0.391	6
40	15.5	6.1	0.393	5
48	15.4	6.2	0.398	12

Comments:

Air Temp: 55 Degrees  
 Weather Conditions: Sunny

Crew Chief Signature

*E. Hollister*

Date:

3-7-00  
4/13/1999

Note:

Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

# LMS Well Sampling Log

Date: 14-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

Well ID No.: N-11851  
 Well Condition: Good  
 Well Depth/Diameter: 65'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 55-60  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.3  
 Water Column Ht./Vol.: 16'/10.8  
 Purge Est.: 35  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/14/1999  
 930- 950  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 35  
 DTW After Purging: 49.3  
 Yield Rate: L - M - H H  
 Purge Observations:

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.2	6.3	660	400
7	15.9	6.3	660	300
14	16	6.1	617	100
21	16	6.3	610	150
28	16.1	6.3	607	250
35	16.1	6.4	606	100

Comments:

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

DTW Before Sampling: 49.3  
 Sample Date/Time: 4/14/99 - 1000  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 49.3  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.1	6.4	606	100
End	16.4	6.4	435	250

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

Air Temp: 16.8  
 Weather Conditions: Sunny

Crew Chief Signature

*E. Holth*

Date: 5-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

# LMS

## Well Sampling Log

Date: 14-Apr  
Crew: CJ DK  
Job No: 650-422  
Project: NCIA Groundwater  
Project Site: \_\_\_\_\_

METERS USED  
Temp.: TCL #10  
pH: DEC 4-99-02  
Cond.: TCL #10  
Turb.: LMS #001

Well ID No.: N-11852  
Well Condition: Good  
Well Depth/Diameter: 100'2"  
Well Casing Type: PVC sch 40  
Screened Interval: 90-95  
Casing Ht./Lock No.: none  
Reference Pt.: TOC  
Depth to Water (DTW): 49.36  
Water Column Ht./Vol.: 50'/16.5  
Purge Est.: 50  
Purge Method(s): Grundfos 2"  
Purge Date/Time(s): 4/14/1999  
830- 855  
Depth(s): All  
Rates (gpm): 5  
Purged Volume: 50  
DTW After Purging: 49.36  
Yield Rate: L - M - H H  
Purge Observations:

DTW Before Sampling: 49.36  
Sample Date/Time: 4/14/99 - 0905  
Sampling Method: Teflon Bailor  
Sampling Depth(s): TOW  
DTW After Sampling: 49.36  
Chain-of-Custody No.(s):  
Analytical Lab(s): H2M  
Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.9	5.5	274	50
End	14.9	6	225	15

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	No

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	13.7	6.2	203	7
10	14.6	5.9	219	17
20	14.7	5.8	275	74
30	14.8	5.6	274	85
40	14.7	5.6	279	14
50	14.9	5.5	274	50

Comments:

Air Temp: 16.8  
Weather Conditions: Sunny

Crew Chief Signature

*E. Holley*

Date: 3-7-00

Note:  
Temperature is measured in Celsius  
Turbidity is measured in NTU  
Volume is measured in gallons

**LMS**

## Well Sampling Log

Date: 13-Apr-99  
 Crew: EH/NG  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 967 Old Country (Sylvester)

Well ID No.: N-11854  
 Well Condition: fair  
 Well Depth/Diameter: 59.87 2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 5 '+ 5' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.01  
 Water Column Ht./Vol.: 10.86/14.5  
 Purge Est.: 44  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 13-Apr-99 1500-1530

Depth(s): all  
 Rates (gpm): 2  
 Purged Volume: 50  
 DTW After Purging: 49.02  
 Yield Rate: M  
 Purge Observations:

slow rate, but recovers quickly

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.8	3.9	1.065	>200
10	13	4	.624	50
20	17.1	4	.611	25
30	16.6	4.1	.604	10
40	17.4	4	.585	10
50	17.6	4.1	.587	10

Comments:

turbidity estimated, meter will  
not calibrate.

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 49.02  
 Sample Date/Time: 13-Apr 0.6563  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 49.01  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	17.6	4.1	.587	10
End	16.9	3.9	.817	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	11	<4°C	N

Air Temp: 50's

Weather Conditions: sunny, breezy

Crew Chief Signature

E. Holbert

Date: 3-7-00

**LMS**

## Well Sampling Log

Date: 13-Apr-99  
 Crew: EH/NG SE  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 989 Old Country (Brooklyn)

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC SN 19834

Well ID No.: N-11855  
 Well Condition: fair  
 Well Depth/Diameter: 61.5 2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 5 '+ 5' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 47.19  
 Water Column Ht./Vol.: 14.31 11.1  
 Purge Est.: 35  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 13-Apr-99 1100-1115,  
 1230-1430  
 Depth(s): all  
 Rates (gpm): 2.5 ,<.25  
 Purged Volume: 35  
 DTW After Purging: 47.19  
 Yield Rate: L - M - H  
 Purge Observations: water very silty

DTW Before Sampling: 47.19  
 Sample Date/Time: 13-Apr 1440  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 47.19  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:  
 silty

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	16.1	6.3	.627	>100
End	15.9	6.2	.573	>200

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	18	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.1	6.2	.711	>100
7.5	16.5	6.3	.744	>200
17.5	16.5	6.4	.627	>200
22.5	16.3	6.3	.642	>200
30	16.3	6.2	0.628	>200
35	16.1	6.3	.627	>100

Comments: purged dry after 7.5 gals.  
 SE took over, using bailer.

Air Temp: 50's  
 Weather Conditions: sunny, windy

Crew Chief Signature

E. HolbertDate: 3-7-00

# LMS Well Sampling Log

Date: 14-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TCL #10  
 pH: DEC 4-99-02  
 Cond.: TCL #10  
 Turb.: LMS #001

Well ID No.: N-11858  
 Well Condition: Good  
 Well Depth/Diameter: 60'/2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 50-55  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 44.78  
 Water Column Ht./Vol.: 15'/10.7  
 Purge Est.: 35  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/14/1999  
1040- 1130  
 Depth(s): All  
 Rates (gpm): 2  
 Purged Volume: 35  
 DTW After Purging: 53.2  
 Yield Rate: L - M - H L  
 Purge Observations: Purged dry several times

DTW Before Sampling: 46.9  
 Sample Date/Time: 4/14/99 - 1140  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 46.75  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.7	6.4	175	6
End	16.1	6.4	208	4

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth. -	Filter
TCL VOC		HCl	95-1	No

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.8	6.4	164	300
7	16.4	6.4	146	300
14	16.3	6.4	132	200
21	16.3	6.3	170	9
28	15.6	6.2	180	5
35	15.7	6.4	175	6

Comments:

Air Temp: 16.8  
 Weather Conditions: Sunny

Crew Chief Signature

E. Holth

Date:

3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

Date: 19-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well sampling  
 Project Site: Grayston & OCR

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: s/n 19834

Well ID No.: N-11859  
 Well Condition: good  
 Well Depth/Diameter: 60.2/2  
 Well Casing Type: pvc  
 Screened Interval: bottom 5 + 5' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.8  
 Water Column Ht./Vol.: 13.4/ 11.0  
 Purge Est.: 33  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 4-19/ 1450-1510

DTW Before Sampling: 46.8  
 Sample Date/Time: 4-19/ 1525  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling 46.8  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 2  
 Purged Volume: 36  
 DTW After Purging: 46.8  
 Yield Rate: H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.9	5.3	.147	14.6
End	15.8	5.6	.141	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	48	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.7	5.8	.147	>200
6	15.9	5.6	.141	19.1
12	16	5.5	.142	10.4
18	15.8	5.5	.140	4.3
24	15.9	5.5	.142	3.7
30	15.8	5.3	.144	1.7

36	15.9	5.3	.147	14.6
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Comments:

Air Temp: 60's

Weather Conditions: sunny, slight breeze,  
drizzle towards end.

Crew Chief Signature

E. HollisterDate: 3-7-00



**LMS**

## Well Sampling Log

Date: 16-Apr-99  
 Crew: SE/EH  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: 2541 Aster

Well ID No.: N-11860  
 Well Condition: fair  
 Well Depth/Diameter: 60.15/2"  
 Well Casing Type: pvc  
 Screened Interval: bottom 5  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.32  
 Water Column Ht./Vol.: 13.83/10.5  
 Purge Est.:  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 4-16/ 0830-0910

Depth(s): all  
 Rates (gpm): 2-3  
 Purged Volume: 50  
 DTW After Purging: 46.37  
 Yield Rate: L  
 Purge Observations: dry after 5 gals. Let sit,  
 purged slower ~1.5 - 2 gpm.

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.5	6.2	.166	>200
10	15.9	5.8	.171	>100
20	15.6	5.7	.172	>200
30	15.3	5.5	.171	~25
40	15.4	5.6	.171	~10
50	15.2	5.6	.170	~25

Comments:

turbidity estimated, meter will  
not calibrate.

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 46.37  
 Sample Date/Time: 4-16/ 0915  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 46.37  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.2	5.6	.170	~25
End	14.6	5.7	.140	>200

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	42	<4°C	N

Air Temp: 60's  
 Weather Conditions: sunny

Crew Chief Signature

E. HollichDate: 3-7-00

**LMS**

## Well Sampling Log

Date: 16-Apr-99  
 Crew: SE/EH  
 Job No: 650-422  
 Project: NCIA Well sampling  
 Project Site: 1054 Bowling Green Dr.

Well ID No.: N-11861  
 Well Condition: good  
 Well Depth/Diameter: 60.1 / 2  
 Well Casing Type: pvc  
 Screened Interval: bottom 5 + 5' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.17  
 Water Column Ht./Vol.: 13.93 / 11.1  
 Purge Est.: 33  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 4-16 / 1015-1035  
 Depth(s): all  
 Rates (gpm): 2  
 Purged Volume: 40  
 DTW After Purging: 46.2  
 Yield Rate: H  
 Purge Observations:

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.2	5.4	.249	>100
7.5	14.9	5	.131	>100
15	15.3	4.8	.130	>100
22.5	15.2	4.8	.130	>100
30	15	4.8	.132	>100
37.5	15.4	4.8	.129	~100

Comments:

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

DTW Before Sampling: 46.2  
 Sample Date/Time: 16-Apr 1040  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 46.2  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.4	4.8	.129	~100
End	14.8	5	.120	>100

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	43	<4°C	N

Air Temp: 60's  
 Weather Conditions: sunny

Crew Chief Signature

*E. Halliwell*Date: 3-7-00

# LMS Well Sampling Log

Date: 12-Apr  
 Crew: CJ DK  
 Job No: 650-422  
 Project: NCIA Groundwater  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: TLC #10  
 pH: DEC 4-99-02  
 Cond.: TLC #10  
 Turb.: LMS #001

Well ID No.: N-11862  
 Well Condition: Good  
 Well Depth/Diameter: 60'2"  
 Well Casing Type: PVC sch 40  
 Screened Interval: 50-55  
 Casing Ht./Lock No.: none  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.15  
 Water Column Ht./Vol.: 17'11  
 Purge Est.: 33  
 Purge Method(s): Grundfos 2"  
 Purge Date/Time(s): 4/12/1999  
 1250- 1310  
 Depth(s): All  
 Rates (gpm): 4  
 Purged Volume: 33  
 DTW After Purging: 45.39  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 45.39  
 Sample Date/Time: 4/12/99 - 1315  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOW  
 DTW After Sampling: 43.15  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.1	5.1	209	375
End	14.7	5.4	213	275

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
TCL VOC		HCl	95-1	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	15.2	5.3	239	450
6	15.3	5.2	214	200
12	15.3	5.1	211	90
18	15.1	5.1	209	20
24	15	5.1	210	14
33	15.1	5.1	209	375

Comments:

Air Temp: 10.1  
 Weather Conditions: Sunny Windy

Crew Chief Signature

E. Holbert

Date: 3-7-00

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

Date: 12-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: NE corner Bond & Main

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: Anson MW-8  
 Well Condition: fair  
 Well Depth/Diameter: 57.5/4"  
 Well Casing Type: PVC  
 Screened Interval: bottom 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.9  
 Water Column Ht./Vol.: 6.60'/11.1  
 Purge Est.: 33.3  
 Purge Method(s): grundfos and teflon bailer  
 Purge Date/Time(s): 12-Apr-99 10:45-13:30

DTW Before Sampling: 50.94  
 Sample Date/Time: 4-12/13:30  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 50.94  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 0.25  
 Purged Volume: 35  
 DTW After Purging: 50.94  
 Yield Rate: L

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.7	4.7	.121	>200
End	14.2	4.6	.118	>200

Purge Observations: grundfos drew well down too fast,  
 had to bail after first 5 gallons  
 silty and sandy/tan

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs	06	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.6	5.2	.153	>100
5	15.4	5	.149	>200
10	14.9	4.5	.142	>200
15	14.7	4.6	.131	>200
20	14.9	4.6	.125	>200

25 14.7 4.7 .121 >200  
 30 14.6 4.7 .118 >200

Comments:

Air Temp: 50's  
 Weather Conditions: sunny, few clouds,  
 breezy

Crew Chief Signature

E. HollisterDate: 3-7-00

**LMS**

## Well Sampling Log

Date: 15-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA well sampling  
 Project Site: alley between Sylvester and Kinkle

## METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: FLMW-204B  
 Well Condition: GOOD  
 Well Depth/Diameter: 110/2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 51.86  
 Water Column Ht./Vol.: 60.99/24.1  
 Purge Est.: 72.2  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 15-Apr-99 0845-0925

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: >75  
 DTW After Purging: 51.88  
 Yield Rate: L - M - H  
 Purge Observations:

DTW Before Sampling: 51.86  
 Sample Date/Time: 15-Apr 930  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 51.86  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	15.0	5.4	.421	~10
End	14.6	5.4	.422	>200

## SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	32	<4°C	N

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.5	5.6	.424	>200
12.5	14.9	5.4	.428	>100
25	14.6	5.4	.427	~100
37.5	14.8	5.4	.424	~50
50	14.9	5.4	.424	~25
62.5	14.9	5.4	.421	~10

Comments:

turbidity estimated, meter will  
not calibrate.

Air Temp: 50'S-60  
 Weather Conditions: SUNNY

Crew Chief Signature

E. HolbyDate: 3-7-00

## Well Sampling Log

Date: 15-Apr-99  
 Crew: EH/BM  
 Job No: 650-422  
 Project: NCIA well sampling  
 Project Site: 57 Kinkle

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: NYSDEC Monitek 21 PE SN# L-3324

Well ID No.: FLMW-205B  
 Well Condition: GOOD  
 Well Depth/Diameter: 110/2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.92  
 Water Column Ht./Vol.: 59.08/18.5  
 Purge Est.: 55.4  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 13-Apr-99 1015-1030

DTW Before Sampling: 50.92  
 Sample Date/Time: 15-Apr 1045  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 50.92  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ALL  
 Rates (gpm): 4  
 Purged Volume: 60  
 DTW After Purging: 50.92  
 Yield Rate: H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.5	5.3	.312	>100
End	14.8	6.1	.310	~50

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	33	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.5	5.2	.313	>200
10	14.6	5.1	.312	>200
20	14.3	5.3	.311	>100
30	14.4	5.3	.314	>100
40	14.1	5.4	.313	>100
50	14.5	5.5	.312	>100

60	14.5	5.3	.312	>100
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Comments:

Air Temp: 60

Weather Conditions: SUNNY

Crew Chief Signature

E. HollisterDate: 3-7-00

**LMS**

## Well Sampling Log

Date: 16-Apr-99  
 Crew: SE/EH  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: NE Hopper & Main

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: sn 19834

Well ID No.: NE Hopper & Main  
 Well Condition: fair  
 Well Depth/Diameter: 65/4  
 Well Casing Type: pvc  
 Screened Interval: assume bottom 10  
 Casing Ht./Lock No.: -0.65  
 Reference Pt.: TOC  
 Depth to Water (DTW): 51.15  
 Water Column Ht./Vol.: 13.85/21.4  
 Purge Est.: 64.1  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 16-Apr-99 1210-1240

DTW Before Sampling: 51.17  
 Sample Date/Time: 16-Apr 1300  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 51.16  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: 65  
 DTW After Purging: 51.17  
 Yield Rate: L - M - H  
 Purge Observations:

SAMPLE CHEMISTRIES

	pH	Sp. Cond	Turb.
Start	5.6	0.129	4
End	5.6	0.132	39

SAMPLE ANALYSES

Parameters	Pres. Meth.	Filter
VOCs	44	<4°C N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.2	5.7	.100	>100
15	14.6	5.6	.106	26
30	14.4	5.6	.118	10
45	14.6	5.6	.129	8
60	14.5	5.6	.129	4
65	14.5	5.6	.129	4

Comments:

Air Temp: 60's  
 Weather Conditions: sunny

Crew Chief Signature

E Hollister

Date:

3-7-00

Date: 20-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: Salisbury

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: SN 19834

Well ID No.: NRMW-1  
 Well Condition: new  
 Well Depth/Diameter: 70.36    2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 40.65  
 Water Column Ht./Vol.: 29.71    13.7  
 Purge Est.: 41  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 20-Apr-99 1110-1130

DTW Before Sampling: 40.65  
 Sample Date/Time: 20-Apr 1145  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 40.65  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: >50  
 DTW After Purging: 40.66  
 Yield Rate: H  
 Purge Observations:  
tan, silty

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	<u>14.1</u>	<u>5.1</u>	<u>.151</u>	<u>&gt;100</u>
End	<u>14.0</u>	<u>5.7</u>	<u>.148</u>	<u>15</u>

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	<u>52</u>	<u>&lt;4°C</u>	<u>N</u>

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.	
<u>0</u>	<u>13.8</u>	<u>5.3</u>	<u>.148</u>	<u>&gt;100</u>	
<u>10</u>	<u>14.3</u>	<u>5.1</u>	<u>.150</u>	<u>55</u>	<u>raised pump 5'</u>
<u>20</u>	<u>14.4</u>	<u>5.2</u>	<u>.149</u>	<u>&gt;100</u>	
<u>30</u>	<u>14.3</u>	<u>5.3</u>	<u>.152</u>	<u>&gt;100</u>	
<u>40</u>	<u>14.2</u>	<u>5.1</u>	<u>.152</u>	<u>9</u>	<u>raised pump 5'</u>
<u>50</u>	<u>14.1</u>	<u>5.1</u>	<u>.151</u>	<u>&gt;100</u>	

Comments:

Air Temp: 50's  
 Weather Conditions: rain

Crew Chief Signature

E Hellstr

Date:

3-7-00



**LMS**

## Well Sampling Log

Date: 20-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: \_\_\_\_\_

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: SN 19834

Well ID No.: NRMW-2  
 Well Condition: new  
 Well Depth/Diameter: 70.20    2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.: \_\_\_\_\_  
 Reference Pt.: TOC  
 Depth to Water (DTW): 44.43  
 Water Column Ht./Vol.: 25.77    13.0  
 Purge Est.: 39.1  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 20-Apr-99 0955-1015

DTW Before Sampling: 44.43  
 Sample Date/Time: 20-Apr 1030  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 44.43  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

Depth(s): all  
 Rates (gpm): 2  
 Purged Volume: 40  
 DTW After Purging: 44.43  
 Yield Rate: H  
 Purge Observations:  
SILTY, TAN

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.8	5.4	.225	>100
End	14.5	6.6	.146	15

SAMPLE ANALYSES

Parameter:	Inv. No.	Pres. Meth.	Filter
VOCs	51	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.1	5.3	.224	>100
10	14.7	5.1	.226	25    raised pump 5'
20	14.8	5.1	.226	>100
30	14.8	5.6	.226	8    raised pump 5'
40	14.8	5.4	.225	>100

Comments:

Air Temp: 50's  
 Weather Conditions: rain

Crew Chief Signature

E. Hollister

Date:

5-7-00

## Well Sampling Log

Date: 20-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: Merrilon

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: SN 19834

Well ID No.: NRMW-03  
 Well Condition: new  
 Well Depth/Diameter: 70.9      2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 40.11  
 Water Column Ht./Vol.: 30.79      13.8  
 Purge Est.: 41.5  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 20-Apr-99 0900-0920

DTW Before Sampling: 40.11  
 Sample Date/Time: 20-Apr 0930  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 40.11  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: 50  
 DTW After Purging: 40.16  
 Yield Rate: H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.7	6.6	.140	>100
End	14.6	7.1	.132	20

SAMPLE ANALYSES

Parameter:	Inv. No.	Pres. Meth.	Filter
VOCs	50	<4°C	N

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	14.1	6.7	.137	>100
10	14.6	6.6	.140	20      raised pump 4'
20	14.8	6.6	.138	>100
30	14.8	6.7	.140	9      raised pump 5'
40	14.8	6.6	.140	~100
50	14.7	6.6	.140	>100

Comments:

Air Temp: 50's  
 Weather Conditions: rain

Crew Chief Signature

E. Holby

Date:

5-7-00

**LMS**

## Well Sampling Log

Date: 20-Apr-99  
 Crew: EH/DK  
 Job No: 650-422  
 Project: NCIA Well Sampling  
 Project Site: Edgewood

METERS USED

Temp.: TLC#8  
 pH: DEC 4-99-04  
 Cond.: TLC#8  
 Turb.: SN 19834

Well ID No.: NRMW-4  
 Well Condition: new  
 Well Depth/Diameter: 70.6      2  
 Well Casing Type: pvc  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 42.22  
 Water Column Ht./Vol.: 28.38      13.4  
 Purge Est.: 40.3  
 Purge Method(s): grundfos  
 Purge Date/Time(s): 20-Apr-99 1515-1535

DTW Before Sampling: 42.22  
 Sample Date/Time: 20-Apr 1545  
 Sampling Method: teflon bailer  
 Sampling Depth(s): toc  
 DTW After Sampling: 42.22  
 Chain-of-Custody No.(s):  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond	Turb.
Start	14.3	6.0	.091	>100
End	14.2	6.9	.120	35

SAMPLE ANALYSES

Parameter	Inv. No.	Pres. Meth.	Filter
VOCs	54	<4°C	N

Depth(s): all  
 Rates (gpm): 2.5  
 Purged Volume: >40  
 DTW After Purging: 42.22  
 Yield Rate: H  
 Purge Observations:  
     tan, silty  
     cleans up fast

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.	
0	13.9	6.6	.107	>200	raised pump 5'
10	14.5	6.3	.093	>200	
20	14.5	6.4	.094	>100	raised pump 5'
30	14.4	6.1	.092	>200	raised pump 5'
40	14.3	6.0	.091	>100	

Comments:

Air Temp: 50's  
 Weather Conditions: rain

Crew Chief Signature

E. HollisterDate: 3-7-00



# Well Sampling Log

Date: 13-Apr  
 Crew: BSM / DK  
 Job No: 650-  
 Project: NCIA  
 Project Site: Rushmore St

## METERS USED

Temp.: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Cond.: \_\_\_\_\_  
 Turb.: \_\_\_\_\_

Well ID No.: NYT MW-3  
 Well Condition: Good  
 Well Depth/Diameter: 63.3' / 4"  
 Well Casing Type: PVC  
 Screened Interval: 10'  
 Casing Ht./Lock No.: Flush  
 Reference Pt.: Notch on PVC  
 Depth to Water (DTW): 51.01'  
 Water Column Ht./Vol.: 12.29' / ~30 gal  
 Purge Est.: ~60 gal  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 4/13/99 / 1515

DTW Before Sampling: \_\_\_\_\_  
 Sample Date/Time: 4/13/99 / 1600  
 Sampling Method: Bailer  
 Sampling Depth(s): ~61'  
 DTW After Sampling: 51.03'  
 Chain-of-Custody No.(s): \_\_\_\_\_  
 Analytical Lab(s): H2M  
 Sampling Observations: \_\_\_\_\_

Depth(s): ~61'  
 Rates (gpm): 3 GPM  
 Purged Volume: ~60 gal  
 DTW After Purging: \_\_\_\_\_  
 Yield Rate: L - M - H  
 Purge Observations: \_\_\_\_\_

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.1	6.1	0.175	>200
End	14.9	6.2	0.175	30

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
12	15.1	6.0	0.171	>200
24	15.1	6.0	0.17	>200
36	15.2	6.0	0.17	>200
48	15.2	6.0	0.172	200
60	15.2	5.9	0.171	90

Comments:

Air Temp: 60 Degrees  
 Weather Conditions: Sunny

Crew Chief Signature

E. Hallister

Date: 3-7-00  
4/13/1999

Note:  
 Temperature is measured in Celsius  
 Turbidity is measured in NTU  
 Volume is measured in gallons

# LMS

## Well Sampling Log

Date: 13-Apr  
Crew: BSM / DK  
Job No: 650-  
Project: NCIA  
Project Site: 80 Swalm St

### METERS USED

Temp.: \_\_\_\_\_  
pH: \_\_\_\_\_  
Cond.: \_\_\_\_\_  
Turb.: \_\_\_\_\_

Well ID No.: UN-16  
Well Condition: Good  
Well Depth/Diameter: 70' / 4"  
Well Casing Type: PVC  
Screened Interval: 10'  
Casing Ht./Lock No.: Flush  
Reference Pt.: Notch in PVC  
Depth to Water (DTW): 51.00'  
Water Column Ht./Vol.: 19' / ~25 gal  
Purge Est.: ~75 gal  
Purge Method(s): Grundfos  
Purge Date/Time(s): 4/13/99 / 1200

DTW Before Sampling: 51.01'  
Sample Date/Time: 4/13/99 / 1245  
Sampling Method: Bailer  
Sampling Depth(s): ~49'  
DTW After Sampling: 51.00'  
Chain-of-Custody No.(s):  
Analytical Lab(s): H2M  
Sampling Observations:

Depth(s): ~49'  
Rates (gpm): 3 GPM  
Purged Volume: ~75 gal  
DTW After Purging: 51.01'  
Yield Rate: L - M - H  
Purge Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.6	5.9	0.39	150
End	15.4	5.7	0.374	12

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres.	Meth.	Filter
------------	----------	-------	-------	--------

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
15	15.4	5.8	0.382	>200
30	15.4	5.7	0.381	150
45	15.5	5.7	0.382	55
60	15.5	5.9	0.381	10
75	15.4	5.7	0.382	6

Comments:

Air Temp: 60 Degrees  
Weather Conditions: Sunny

Crew Chief Signature

*E. Holbert*

Date: 3-7-00  
4/13/1999

Note:  
Temperature is measured in Celsius  
Turbidity is measured in NTU  
Volume is measured in gallons

Table D-1  
Well sampling list  
April 1999

NYSDEC sample #	Well ID	date	time	sampler	NOTES
1	N-11862	12-Apr	1315	cjm	
2	N-10477	12-Apr	1450	cjm	
3	N-10479	12-Apr	1205	cjm	
4	N-9939	12-Apr	1055	cjm	
5	N-10478	12-Apr	1640	cjm	
6	Anson MW-8	12-Apr	1330	EH	
7	N-9938	12-Apr	1710	EH	
8	N-10322	12-Apr	1615	EH	
9	N-10470	13-Apr	945	EH	
10	N-10326	13-Apr	1320	EH	
11	N-11854	13-Apr	1545	EH	
12	N-11850	13-Apr	1015	BM	
13	UN-16	13-Apr	1245	BM	
14	N-10325	13-Apr	1145	BM	
15	N-10464	13-Apr	915	BM	
16	N-10465	13-Apr	1445	BM	
17	NYT MW-3	13-Apr	1600	BM	
18	N-11855	13-Apr	1420	SE	
19	N-10471	14-Apr	1000	EH	
20	N-10471	14-Apr	1000	EH	MS
21	N-10471	14-Apr	1000	EH	MSD
22	N-10329	14-Apr	1300	EH	with
23	N-92301	14-Apr	1300	SE	blind dup
24	N-10328	14-Apr	1640	SE	
25	N-10328	14-Apr	1640	SE	MS
26	N-10328	14-Apr	1640	SE	MSD
27	N-11858	14-Apr	1140	CJM	
28	N-11852	14-Apr	905	cjm	
29	N-11851	14-Apr	1000	cjm	
30	N-11849	14-Apr	1315	cjm	
31	N-10459	14-Apr	1455	cjm	
35	N-11848	14-Apr	1555	cjm	
99	NCRO-1	14-Apr	1415	SE	
32	FLMW-204B	15-Apr	930	EH	
33	FLMW-205B	15-Apr	1045	EH	
34	N-10327	15-Apr	1545	EH	with
38	N-72301	15-Apr	1545	cjm	blind dup
36	N-10476	15-Apr	1340	cjm	
37	N-10324	15-Apr	910	cjm	
39	N-10474	15-Apr	1020	cjm	
40	N-10475	15-Apr	1500	cjm	
41	N-10472	15-Apr	1625	cjm	
42	N-11860	16-Apr	0950	SE	
43	N-11861	16-Apr	1040	SE	
44	NE Hopper &	16-Apr	1300	SE	
45	EW-1B	16-Apr	1240	cjm	
46	EW-2B	16-Apr	1100	cjm	
47	N-10462	19-Apr	1415	EH	
48	N-11859	19-Apr	1525	EH	
49	EW-1C	19-Apr	1800	EH	
50	NRMW-03	20-Apr	930	EH	
51	NRMW-2	20-Apr	1030	EH	
52	NRMW-1	20-Apr	1145	EH	
53	N-10321	20-Apr	1445	EH	
54	NRMW-4	20-Apr	1545	EH	
55	EW-2C	21-Apr	1000	EH	
Total number of wells sampled = 49					

MONITORING WELL SAMPLING LOGS  
AUGUST 1999





# LMS

## Well Sampling Log

Date: 09-Aug-99  
Crew: E. HOLLISTER/D. KASSELL  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: FLOWER

### METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: DRT 15C s/n 19834

Well ID No.: EW-1B  
Well Condition: GOOD  
Well Depth/Diameter: 164.00  
Well Casing Type: PVC  
Screened Interval: 154-164  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 48.93  
Water Column Ht./Vol.: 115.07 27.6  
Purge Est.: 83.00  
Purge Method(s): GRUNDFOS  
Purge Date/Time(s): 09-Aug-99  
17:25 18:00  
Depth(s): ALL  
Rates (gpm): 2.50  
Purged Volume: 90.00  
DTW After Purging: 48.93  
Yield Rate: L - M - H H  
Purge Observations:

DTW Before Sampling: 48.93  
Sample Date/Time: 09-Aug-99 18:25  
2 Sampling Method: Teflon bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 48.93  
Chain-of-Custody No.(s): 04  
Analytical Lab(s): H2M  
Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.2	6.6	277	3.7
End	18	6.6	252	42.3

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.3	7	242	14.1
20	17.6	6.9	277	11.4
40	17.3	6.7	277	6.4
60	17.3	6.6	277	6.1
80	17.4	6.5	276	4.1
90	17.2	6.6	277	3.7

Comments:

Air Temp: 80's  
Weather Conditions: Sunny, slight breeze  
Hot

Crew Chief Signature

*E. Hollister*

Date:

3-7-00



# Well Sampling Log

Date: 09-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: FLOWER

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: EW-1C  
 Well Condition: GOOD  
 Well Depth/Diameter: ~500  
 Well Casing Type: CARBON STEEL  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): ~50  
 Water Column Ht./Vol.: ~450/~306  
 Purge Est.: ~1000  
 Purge Method(s): DEDICATED PUMP  
 Purge Date/Time(s): 09-Aug-99  
   15:55    16:50  
 Depth(s):  
 Rates (gpm): 20  
 Purged Volume: >1000  
 DTW After Purging: 50  
 Yield Rate: L - M - H                    H  
 Purge Observations:

DTW Before Sampling: 50  
 Sample Date/Time: 09-Aug-99 16:50  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 50  
 Chain-of-Custody No.(s): 03  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.6	7.9	105	21
End	14.6	7.9	106	20

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.2	10	166	31.0
200	15.5	9.3	117	34.2
400	14.8	8.2	108	>200
600	14.9	8.2	108	47.1
800	14.8	8.2	106	24.0
1000	14.6	7.9	105	21.0

Comments:

Air Temp: 80's  
 Weather Conditions: Sunny, slight breeze  
   Hot

Crew Chief Signature E Hollister

Date: 09-Aug-99

*3-7-00*

# LMS Well Sampling Log

Date: 09-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: ASTER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: EW-2B  
 Well Condition: good  
 Well Depth/Diameter: 142.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.84  
 Water Column Ht./Vol.: 92.16 23.9  
 Purge Est.: 72.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 09-Aug-99  
 14:15-15:00  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 75.00  
 DTW After Purging: 49.84  
 Yield Rate: L - M - H **M**  
 Purge Observations:

DTW Before Sampling: 49.84  
 Sample Date/Time: 09-Aug-99 15:25  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.84  
 Chain-of-Custody No.(s): 02  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.6	6.6	252	5.1
End	18.7	6.6	267	25.3

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.3	6.9	257	70.1
15	17.4	6.8	258	21.2
30	17.4	6.6	254	5.1
45	17.5	6.6	251	4.7
60	17.5	6.6	252	4.2
75	17.6	6.6	252	5.1

Comments:

Air Temp: 80's  
 Weather Conditions: Sunny, slight breeze  
 Hot

Crew Chief Signature E. Hollister

Date: 3-7-00  
 09-Aug-99



# Well Sampling Log

Date: 09-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: ASTER

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: EW-2C  
 Well Condition: GOOD  
 Well Depth/Diameter: ~500/4  
 Well Casing Type: CARBON STEEL  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): ~50  
 Water Column Ht./Vol.: ~450/~306  
 Purge Est.: ~1000  
 Purge Method(s): DEDICATED PUMP  
 Purge Date/Time(s): 09-Aug-99  
 12:15-13:05  
 Depth(s):  
 Rates (gpm): 20.00  
 Purged Volume: >1000  
 DTW After Purging: 50.00  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 50  
 Sample Date/Time: 09-Aug-99 13:45  
 Sampling Method: DEDICATED TUBING  
 Sampling Depth(s): TOC  
 DTW After Sampling: 50  
 Chain-of-Custody No.(s): 01  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.5	8.2	58	29.6
End	15.1	8.2	57	21.4

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCL	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.8	10.3	115	25.3
200	15.2	10.1	103	15.0
400	14.7	9.9	94	62.4
600	14.2	8.5	65	>200
800	14.2	8.5	62	>100
1000	14.3	8.3	59	38.4

Comments:

Air Temp: 80's  
 Weather Conditions: Sunny, slight breeze  
 Hot

Crew Chief Signature

*E Hollister*

Date: 09-Aug-99

3-7-00



# Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 675 Brooklyn

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-9938  
 Well Condition: FAIR  
 Well Depth/Diameter: 70.56  
 Well Casing Type: PVC  
 Screened Interval: Bottom 5 + 3  
 Casing Ht./Lock No.: sump  
 Reference Pt.: TOC  
 Depth to Water (DTW): 55.56  
 Water Column Ht./Vol.: 15.00 20.1  
 Purge Est.: 60.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99  
 15:00 15:30  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 60.00  
 DTW After Purging: 55.60  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 55.6  
 Sample Date/Time: 10-Aug-99 15:45  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 55.6  
 Chain-of-Custody No.(s): 10-13  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.7	5.4	426	4.2
End	18.8	5.9	352	14

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.1	5.4	467	>100
10	17.9	5.6	428	91.7
20	17.9	5.4	426	5.4
30	17.6	5.4	427	4.7
40	17.7	5.4	423	4.7
50	17.7	5.6	424	10.0
60	17.7	5.4	426	4.20

## Comments:

BLIND DUP N-9937  
 MS/MSD

Air Temp: 80s HOT, HUMID, SLIGHT BREEZE  
 Weather Conditions:

Crew Chief Signature E Hollister

Date: 3-7-00



# Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: LAND LANE

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-9939  
 Well Condition: GOOD  
 Well Depth/Diameter: 77.00  
 Well Casing Type: PVC Sch 80  
 Screened Interval: BOTTOM 5'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.00  
 Water Column Ht./Vol.: 34.00 29.4  
 Purge Est.: 88.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99  
 8:05 8:43  
 Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 90.00  
 DTW After Purging: 43.00  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 43.00  
 Sample Date/Time: 10-Aug-99 9:00  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 43.00  
 Chain-of-Custody No.(s): 05  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15	5	377	3.5
End	14.9	5.1	316	16

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.2	5.6	377	30.1
15	15.4	5.4	376	17.1
30	15.2	5.2	376	9.4
45	15.2	5.1	376	5.7
60	15	5	377	4.7
75	15	5	377	4.1
90	15	5	377	3.5

Comments:

Air Temp: 70  
 Weather Conditions:

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS

## Well Sampling Log

Date: 18-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: NY AVE (ADCHEM)

### METERS USED

Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-10321  
 Well Condition: FAIR  
 Well Depth/Diameter: 61.20  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 55.30  
 Water Column Ht./Vol.: 5.90 5.3  
 Purge Est.: 15.90  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 18-Aug-99  
 15:25 15:51  
 Depth(s): ALL  
 Rates (gpm): 1.00  
 Purged Volume: 20.00  
 DTW After Purging: 55.39  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 55.39  
 Sample Date/Time: 18-Aug-99 16:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 55.39  
 Chain-of-Custody No.(s): 38  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18	5.4	325	1.7
End	18.9	6.1	306	65

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	22.2	5.9	346	>200
5	18.5	5.3	325	25.0
10	17.9	5.4	322	5.4
15	17.5	5.4	327	2.8
20	18	5.4	325	1.7

Comments:

Air Temp: 70s

Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature

Date:

3-7-00

# LMS Well Sampling Log

Date: 23-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: BOND & SUMMA

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10322  
 Well Condition: POOR  
 Well Depth/Diameter: 64.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 56.25  
 Water Column Ht./Vol.: 7.75 7  
 Purge Est.: 20.90  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 23-Aug-99  
 17:08 17:30  
 Depth(s): bottom  
 Rates (gpm): 1.00  
 Purged Volume: 21.00  
 DTW After Purging: 56.55  
 Yield Rate: L - M - H **M**  
 Purge Observations:

DTW Before Sampling: 56.5  
 Sample Date/Time: 23-Aug-99 17:45  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 56.5  
 Chain-of-Custody No.(s): 59  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.9	5.5	260	4
End	16.9	5.8	296	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.8	5.9	281	>100
5	17.2	5.6	251	16.0
10	16.7	5.4	262	6.0
15	16.7	5.8	263	4.0
21	16.9	5.5	260	4.0

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, HUMID, SUNNY

Crew Chief Signature E. Hollister

Date: 3-7-00



# LMS Well Sampling Log

Date: 13-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: Magnolia and Grand

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10324  
 Well Condition: FAIR  
 Well Depth/Diameter: 57.00  
 Well Casing Type: PVC  
 Screened Interval: 47-57  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.65  
 Water Column Ht./Vol.: 6.35  
 Purge Est.: 17.10  
 Purge Method(s): teflon bailer  
 Purge Date/Time(s): 13-Aug-99

DTW Before Sampling: 51  
 Sample Date/Time: 13-Aug-99 10:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 51  
 Chain-of-Custody No.(s): 18  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ALL  
 Rates (gpm): 0.50  
 Purged Volume: 18.00  
 DTW After Purging: 51.00  
 Yield Rate: L - M - H H  
 Purge Observations:

5.7

SAMPLE CHEMISTRIES				
	Temp. (°C)	pH	Sp. Cond.	Turb.
9:01 Start	17.6	6.6	342	18
End	17	6.5	334	15

lots of organic debris floating  
 much fine sand and silt

SAMPLE ANALYSES			
Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.1	6.7	569	>100
3	17	6.5	360	>100
6	16.2	6.4	336	>100
9	18	6.4	334	>100
12	17.4	6.2	337	16.5
15	18.1	6.1	326	16.0
18	17.6	6.6	342	18.0

Air Temp: High 70s  
 Weather Conditions: hot, hazy, HUMID

Comments:

Blind dup N-10323 taken here called 8/12/99 17:00

Crew Chief Signature E Hollister Date: 8-7-00

# LMS Well Sampling Log

Date: 20-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: SWALM

METERS USED  
 Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-10325  
 Well Condition: GOOD  
 Well Depth/Diameter: 55.30  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.: FLUSH  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.17  
 Water Column Ht./Vol.: 3.13 2.8  
 Purge Est.: 8.40  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 20-Aug-99  
 11:35 12:05  
 Depth(s): ALL  
 Rates (gpm): 0.33  
 Purged Volume: 8.00  
 DTW After Purging: 52.25  
 Yield Rate: L - M - H **M**  
 Purge Observations:

DTW Before Sampling: 52.25  
 Sample Date/Time: 20-Aug-99 12:08  
 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 52.25  
 Chain-of-Custody No.(s): 52  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES				
	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	19.3	6.3	143	0.6
End	18.3	6.2	153	36

SAMPLE ANALYSES			
Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

PURGE CHEMISTRIES				
Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	20.8	6.1	166	>200
2	18.2	6.3	157	6.5
4	17.9	6.3	141	4.5
6	19.8	6.3	154	0.8
8	19.3	6.3	143	0.6

Comments: Air Temp: 70s  
 Weather Conditions: OVERCAST  
 ACROSS STREET AND SOUTH OF 80 SWALM

Crew Chief Signature E. Halloran Date: 3-7-00



# Well Sampling Log

Date: 19-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 58 SYLVESTER

## METERS USED

Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-10326  
 Well Condition: FAIR  
 Well Depth/Diameter: 57.20  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.81  
 Water Column Ht./Vol.: 3.39 3  
 Purge Est.: 9.10  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 19-Aug-99 10:05 10:25  
 Depth(s): all  
 Rates (gpm): 1.00  
 Purged Volume: 20.00  
 DTW After Purging: 53.81  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 53.81  
 Sample Date/Time: 19-Aug-99 10:40  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.81  
 Chain-of-Custody No.(s): 44  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.8	6	236	38
End	18.1	5.8	247	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.1	6.1	232	>200
5	17.2	5.9	234	>200
10	17.8	5.9	240	22.0
15	17.7	5.9	239	40.0
20	17.8	6	236	38.0

Comments:

Air Temp: 70-80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E. Hallister

Date: 3-7-00



# Well Sampling Log

Date: 20-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: URBAN

## METERS USED

Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-10327  
 Well Condition: POOR  
 Well Depth/Diameter: 54.95  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.62  
 Water Column Ht./Vol.: 2.33 2.1  
 Purge Est.: 6.30  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 20-Aug-99 8:15 8:50  
 Depth(s): ALL  
 Rates (gpm): 0.25  
 Purged Volume: 8.00  
 DTW After Purging: 52.62  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 52.62  
 Sample Date/Time: 20-Aug-99 8:55  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 52.62  
 Chain-of-Custody No.(s): 50  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18.2	5.5	653	0.9
End	18.2	6.2	640	>200

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.8	6.5	354	>200
2	118	5.9	602	35.0
4	18.4	5.7	625	4.0
6	17.9	5.6	639	3.0
8	18.2	5.5	653	0.9

Comments:

Air Temp: 70s

Weather Conditions: OVERCAST

CATCHES RUNOFF FROM CARWASH LOT

Crew Chief Signature

*E. Hollett*

Date:

3-7-00

# LMS

## Well Sampling Log

Date: 19-Aug-99  
Crew: B. CAR / J. PFAFF  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: 979 OCR (NY AVE)

### METERS USED

Temp.: TLC #10  
pH: N-3  
Cond.: TLC #10  
Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-10328  
Well Condition: FAIR  
Well Depth/Diameter: 53.80  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 50.95  
Water Column Ht./Vol.: 2.85 2.6  
Purge Est.: 7.70

DTW Before Sampling: 50.95  
Sample Date/Time: 19-Aug-99 8:50  
2 Sampling Method: Teflon bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 50.95  
Chain-of-Custody No.(s): 43  
Analytical Lab(s): H2M  
Sampling Observations:

Purge Method(s): Submersible pump  
Purge Date/Time(s): 19-Aug-99

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	20.5	6.3	86	8.5
End	19.2	6.2	179	>200

Depth(s): all  
Rates (gpm): 0.25  
Purged Volume: 12.00  
DTW After Purging: 50.95  
Yield Rate: L - M - H L  
Purge Observations:

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.8	6.4	182	>200
4	19.3	6.3	169	29.0
8	19.3	6.5	163	45.0
12	20.5	6.3	86	8.5

Comments:

Air Temp: 70-80s  
Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature

*E. Hollett*

Date:

*3-7-00*

Date: 12-Aug-99  
Crew: E. HOLLISTER/D. KASSELL  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: median Hyacinth

### METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: DRT 15C s/n 19834

Well ID No.: N-10329  
Well Condition: fair  
Well Depth/Diameter: 56.00  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 53.35  
Water Column Ht./Vol.: 2.65 2.4  
Purge Est.: 7.10  
Purge Method(s): Teflon bailer  
Purge Date/Time(s): 12-Aug-99  
12:45 13:35  
Depth(s): all  
Rates (gpm): 2.00  
Purged Volume: 8.00  
DTW After Purging: 53.35  
Yield Rate: L - M - H **M**  
Purge Observations: very silty

DTW Before Sampling: 53.35  
Sample Date/Time: 12-Aug-99 13:50  
2 Sampling Method: Teflon bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 53.35  
Chain-of-Custody No.(s): 15  
Analytical Lab(s): H2M  
Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.1	5.4	893	>200
End	18.2	5.4	884	>200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.2	5.1	1120	>200
2	18.2	5.3	961	>200
4	18.2	5.5	912	>200
6	18	5.4	903	>200
8	15.1	5.4	893	>200

Comments:

Air Temp:  
Weather Conditions:

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 12-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: Westbury water district

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

inside fence

Well ID No.: N-10459  
 Well Condition: GOOD  
 Well Depth/Diameter: 68.00  
 Well Casing Type: PVC  
 Screened Interval: 58-68  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 58.40  
 Water Column Ht./Vol.: 9.60 8.6  
 Purge Est.: 30.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 12-Aug-99  
 11:08 11:23  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 58.40  
 Yield Rate: L - M - H M  
 Purge Observations:

DTW Before Sampling: 58.40  
 Sample Date/Time: 12-Aug-99 11:50  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 58.40  
 Chain-of-Custody No.(s): 14  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.6	4.4	234	>200
End	16.6	4.5	230	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.1	4.9	151	>200
5	16.8	5	166	>200
10	17.2	4.9	200	>200
15	16.7	4.8	207	>200
20	16.6	4.7	220	>200
25	16.7	4.54	229	>200
30	16.6	4.4	234	>200

went dry after ~8 gallons. Let sit few minutes to recover

Comments:

Westbury water district  
 516-333-0427  
 for access inside fence

Air Temp: 80s

Weather Conditions: clearing up, nice breeze  
 hot, humid

Crew Chief Signature

*E. Hollister*

Date:

5-7-00

Date: 12-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: railroad

### METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10462  
 Well Condition: poor  
 Well Depth/Diameter: 63.40 1.9999  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 54.35  
 Water Column Ht./Vol.: 9.05 8.1  
 Purge Est.: 24.40  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 12-Aug-99  
 15:05 15:15  
 Depth(s): all  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 54.35  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 54.35  
 Sample Date/Time: 12-Aug-99 15:40  
 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 54.35  
 Chain-of-Custody No.(s): 16  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.9	6.1	345	37.1
End	18.4	6.2	321	>200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.7	6	287	>200
6	17.2	6	141	>200
12	16.8	6.1	335	>100
18	16.9	6	337	>100
24	16.9	6.1	341	41.0
30	16.9	6.1	345	37.1

Comments:

Surrounding manhole is not in good condition, missing cover, but has well cap.

Air Temp:

Weather Conditions:

Crew Chief Signature

Date:

3-7-00



# LMS Well Sampling Log

Date: 23-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: Garden and Grand

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10464  
 Well Condition: GOOD  
 Well Depth/Diameter: 60.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.47  
 Water Column Ht./Vol.: 9.53 8.6  
 Purge Est.: 25.70  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 23-Aug-99

DTW Before Sampling: 50.47  
 Sample Date/Time: 23-Aug-99 14:35  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 50.47  
 Chain-of-Custody No.(s): 57  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): BOTTOM  
 Rates (gpm): 1.00  
 Purged Volume: 26.00  
 DTW After Purging: 50.49  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.5	5.6	94	3
End	18.4	5.9	106	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

PINKISH - WHITE ZINFINDELISH

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.8	6	115	>100
5	17.7	6	96	7.0
10	17.2	5.5	97	4.0
15	17.3	6	94	3.0
20	17.4	5.7	96	3.0
26	17.5	5.6	94	3.0

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, SUNNY, HUMID

Crew Chief Signature E. Hollister

Date: 5-7-00

# LMS Well Sampling Log

Date: 23-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 80 RUSHMORE

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10465  
 Well Condition: GOOD  
 Well Depth/Diameter: 62.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.45  
 Water Column Ht./Vol.: 8.55 7.7  
 Purge Est.: 23.00  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 23-Aug-99  
 15:20 15:43  
 Depth(s): BOTTOM  
 Rates (gpm): 1.00  
 Purged Volume: 23.00  
 DTW After Purging: 53.45  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 53.45  
 Sample Date/Time: 23-Aug-99 16:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.45  
 Chain-of-Custody No.(s): 58  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.8	6.2	188	6
End	18.3	6.4	193	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	21.3	6	321	>200
5	18	6	232	13.0
10		MISSED		
15	18	6.2	197	19.0
23	17.8	6.2	188	6.0

Comments:  
 ODORS FROM AUTOBODY ACCROSS  
 STREET - POSSIBLY PAINT.

Air Temp: 80s  
 Weather Conditions: SUNNY, HOT, HUMID

Crew Chief Signature E Hollister

Date: 8-23-99

# LMS Well Sampling Log

Date: 19-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 17 BROOKLYN

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10470  
 Well Condition: GOOD  
 Well Depth/Diameter: 64.90  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.25  
 Water Column Ht./Vol.: 12.65 10.9  
 Purge Est.: 32.60  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 19-Aug-99  
 10:45 11:02  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 34.00  
 DTW After Purging: 52.25  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 52.25  
 Sample Date/Time: 19-Aug-99 11:25  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 52.25  
 Chain-of-Custody No.(s): 42  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.1	6	335	9
End	18.1	6.1	389	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.9	6	426	>200
6	17.1	5.9	383	57.0
12	17	6	362	18.2
18	17.1	5.9	348	15.0
24	17.1	5.8	340	11.0
34	17.1	6	335	9.0

Comments:

Air Temp: 70-80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E Hollister

Date: 5-7-99

# LMS

## Well Sampling Log

Date: 20-Aug-99  
Crew: E. HOLLISTER/D. KASSELL  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: 58 STATE

### METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: DRT 15C s/n 19834

Well ID No.: N-10471D DTW Before Sampling: 50.80  
Well Condition: POOR Sample Date/Time: 20-Aug-99 9:00  
Well Depth/Diameter: 104.25 2 Sampling Method: Teflon bailer  
Well Casing Type: PVC Sampling Depth(s): TOC  
Screened Interval: BOTTOM 10' DTW After Sampling: 50.80  
Casing Ht./Lock No.: Chain-of-Custody No.(s): 48  
Reference Pt.: TOC Analytical Lab(s): H2M  
Depth to Water (DTW): 50.80 Sampling Observations:  
Water Column Ht./Vol.: 53.45 17.5  
Purge Est.: 52.60  
Purge Method(s): GRUNDFOS  
Purge Date/Time(s): 20-Aug-99 8:16 8:42 Start  
Depth(s): ALL End  
Rates (gpm): 2.00  
Purged Volume: 55.00  
DTW After Purging: 50.80  
Yield Rate: L - M - H H  
Purge Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.4	6.1	205	14
End	16.7	6.2	67	61

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.6	6.7	49	19.1
11	16.4	6.4	183	50.2
22	16.6	6.4	191	91.0
33	16.4	5.9	198	30.0
44	16.4	5.8	202	17.2
55	16.4	6.1	205	14.0

Comments:

Air Temp: 70s

Weather Conditions: OVERCAST

Crew Chief Signature

*E. Hollister*

Date: 3-7-00

# LMS Well Sampling Log

Date: 20-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 58 STATE

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10471S  
 Well Condition: POOR  
 Well Depth/Diameter: 57.35  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.73  
 Water Column Ht./Vol.: 6.62 5.9  
 Purge Est.: 17.80  
 Purge Method(s): Teflon bailer  
 Purge Date/Time(s): 20-Aug-99  
 8:30 10:18  
 Depth(s): ALL  
 Rates (gpm): ~.25  
 Purged Volume: 18.00  
 DTW After Purging: 50.84  
 Yield Rate: L - M - H **M-H**  
 Purge Observations: VERY SILTY

DTW Before Sampling: 50.84  
 Sample Date/Time: 20-Aug-99 10:23  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 50.84  
 Chain-of-Custody No.(s): 49  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.8	5.8	365	>100
End	16.6	5.8	351	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.1	5.5	405	>200
4	16	5.8	393	>200
8	16.6	5.6	381	>200
12	16.6	5.6	381	>200
18	16.8	5.8	365	>100

Comments:

Air Temp: 70s  
 Weather Conditions: OVERCAST

Crew Chief Signature E Hollister

Date: 8-7-99

# LMS Well Sampling Log

Date: 13-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: Water supply wells area

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10472  
 Well Condition: GOOD  
 Well Depth/Diameter: 62.00 2  
 Well Casing Type: SCH 80 PVC  
 Screened Interval: 52-62  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.30  
 Water Column Ht./Vol.: 15.70 11.4  
 Purge Est.: 34.10  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 13-Aug-99  
 11:30 11:48  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 36.00  
 DTW After Purging: 46.50  
 Yield Rate: L - M - H **M**  
 Purge Observations:

DTW Before Sampling: 46.50  
 Sample Date/Time: 13-Aug-99 12:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.50  
 Chain-of-Custody No.(s): 19  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.2	5	236	>100
End	16.7	5.4	224	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

VERY silty

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.	
0	18	6.2	249	>200	pump problems
6	20.1	5.3	263	>200	
12	18.2	5.4	258	>200	
18	18.1	5.2	247	>200	
24	17.9	5.1	242	>200	
30	17.6	4.9	247	>200	started to clear up a little
36	17.2	5	236	>100	

Comments:

Air Temp:  
 Weather Conditions: VERY HUMID, slight breeze

Crew Chief Signature E Hollister Date: 3-7-00

# LMS Well Sampling Log

Date: 16-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: \_\_\_\_\_

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10474  
 Well Condition: FAIR  
 Well Depth/Diameter: 60.00  
 Well Casing Type: PVC SCH 80  
 Screened Interval: 50-60  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.67  
 Water Column Ht./Vol.: 10.33 9.3  
 Purge Est.: 27.80  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 16-Aug-99  
 11:30 11:40  
 Depth(s): ALL  
 Rates (gpm): 3.00  
 Purged Volume: 30.00  
 DTW After Purging: 49.67  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 49.67  
 Sample Date/Time: 16-Aug-99 12:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.67  
 Chain-of-Custody No.(s): 21  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.4	6.4	388	33.2
End	17.5	6.4	370	>200

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

STARTED VERY SILTY, BROWN

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.2	6.9	325	>200
7.5	16.8	6.9	402	>200
12	16.8	6.5	394	>200
18	16.7	6.4	390	70.0
24	16.5	6.4	390	43.1
30	16.4	6.4	388	33.2

Comments:

Air Temp: 80s  
 Weather Conditions:

SUNNY, FEW CLOUDS, SLIGHT BREEZE

Crew Check Signature E Hollister Date: 3-7-00



# Well Sampling Log

Date: 19-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: EDGEWOOD DRIVE

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10476  
 Well Condition: FAIR  
 Well Depth/Diameter: 130.00  
 Well Casing Type: PVC SCH 80  
 Screened Interval: 110-130  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.90  
 Water Column Ht./Vol.: 83.10 76.9  
 Purge Est.: 231.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 19-Aug-99  
 17:10 17:50  
 Depth(s): ALL  
 Rates (gpm): 3  
 Purged Volume: ~120  
 DTW After Purging: DRY  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 55.06  
 Sample Date/Time: 19-Aug-99 18:10  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 55.05  
 Chain-of-Custody No.(s): 46  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18.6	6.6	122	>200
End	16.2	6.9	94	17.2

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.9	7	136	>200
40	16.8	6.9	136	66.0
80	16.9	6.9	153	>200
120	18.6	6.6	122	>200

Comments:

Air Temp: 70-80s  
 Weather Conditions: HOT, HAZY, HUMID

NASSAU COUNTY DRAINAGE BASIN 367

Crew Cheif Signature E. Hollister

Date: 3-7-00



# LMS

## Well Sampling Log

Date: 18-Aug-99  
 Crew: B.C. / J.P. / D.K.  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: BARRINGTON ST

### METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10477  
 Well Condition: GOOD  
 Well Depth/Diameter: 62.50  
 Well Casing Type: PVC  
 Screened Interval: 47-57  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.76  
 Water Column Ht./Vol.: 9.95 8.9  
 Purge Est.: 27.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 18-Aug-99  
 12:21 12:36  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 46.80  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 46.80  
 Sample Date/Time: 18-Aug-99 12:55  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.80  
 Chain-of-Custody No.(s): 35  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18.8	5.1	424	11.4
End	18.7	5.1	433	87.1

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	23.6	5.1	390	>200
6	18.8	5.1	419	>200
12	18	5.1	423	>100
18	19	5.1	421	>100
24	18.3	5.2	429	16.7
30	18.8	5.1	424	11.4

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature

*E. Hollister*

Date:

*3-7-00*

# LMS Well Sampling Log

Date: 18-Aug-99  
 Crew: B.C. / J.P. / D.K  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: BARRINGTON ST

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10478  
 Well Condition: POOR  
 Well Depth/Diameter: 121.00  
 Well Casing Type: PVC SCH 80  
 Screened Interval: 100-121'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.75  
 Water Column Ht./Vol.: 74.25 71.1  
 Purge Est.: 213.30  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 18-Aug-99  
 10:50 12:10  
 Depth(s): ALL  
 Rates (gpm): 2.5  
 Purged Volume: 180  
 DTW After Purging: 46.80  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 46.80  
 Sample Date/Time: 18-Aug-99 12:15  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.80  
 Chain-of-Custody No.(s): 34  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18	5.4	204	3.9
End	18	5.3	209	36

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

PURGE AMOUNT CALCULATED FOR 10' SCREEN

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	20.4	5.3	214	14.6
30	18.4	5.6	214	5.8
60	18.4	5.5	209	4.2
90	18.5	5.5	208	6.1
120	18.3	5.4	208	4.4
150	17.9	5.6	205	3.9
180	18	5.4	204	3.90

Air Temp: 80s  
 Weather Conditions: HOT, HAZY, HUMID

Comments:

Crew Chief Signature E. Hollister

Date: 5-7-00

# LMS Well Sampling Log

Date: 18-Aug-99  
 Crew: B.C. / J.P. / D.K  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: WESTLEY PL

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-10479  
 Well Condition: GOOD  
 Well Depth/Diameter: 40.00  
 Well Casing Type: PVC  
 Screened Interval: 30-40  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 30.27  
 Water Column Ht./Vol.: 9.73  
 Purge Est.: 26.20  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 18-Aug-99  
 9:32  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 30.20  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 30.20  
 Sample Date/Time: 18-Aug-99 10:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 30.20  
 Chain-of-Custody No.(s): 33  
 Analytical Lab(s): H2M  
 Sampling Observations:

8.7

9:47

SAMPLE CHEMISTRIES				
	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.6	6.9	312	29.3
End	15.9	7.1	320	>200

SAMPLE ANALYSES			
Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.1	6	317	>200
5	15.2	6	306	>200
10	16.1	6.4	305	>100
15	15.7	6.7	312	77.1
20	15.3	6.7	315	52.1
25	15.1	6.8	312	39.5
30	15.6	6.9	312	29.30

Comments:

Air Temp: 80s

Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E. Hollister

Date: 3-7-00

**LMS**

**Well Sampling Log**

Date: 17-Aug-99  
Crew: E. HOLLISTER/D. KASELL  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: DARLINGTON (ANNA)

**METERS USED**

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: DRT 15C s/n 19834

Well ID No.: N-11848  
Well Condition: GOOD  
Well Depth/Diameter: 60.00  
Well Casing Type: PVC  
Screened Interval: 50-55  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 43.18  
Water Column Ht./Vol.: 16.82 11.6  
Purge Est.: 35.00  
Purge Method(s): GRUNDFOS  
Purge Date/Time(s): 17-Aug-99  
9:10 9:20  
Depth(s): ALL  
Rates (gpm): 2, 1.5  
Purged Volume: 15.00  
DTW After Purging: DRY  
Yield Rate: L - M - H **L-M**  
Purge Observations:  
PURGED DRY TWICE

DTW Before Sampling: 43.2  
Sample Date/Time: 17-Aug 9:40  
2 Sampling Method: Teflon bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 43.2  
Chain-of-Custody No.(s): 27  
Analytical Lab(s): H2M  
Sampling Observations:

**SAMPLE CHEMISTRIES**

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.2	6.6	386	43.2
End	16.4	7.4	372	>100

**SAMPLE ANALYSES**

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

**PURGE CHEMISTRIES**

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.5	6	353	>200
5	16.3	6.9	376	>200
10	16.4	6.9	375	90.1
15	16.2	6.6	386	43.2

Comments:  
IN GRASS  
WATER COVERING CAP

Air Temp:  
Weather Conditions:

Crew Chief Signature E Hollister

Date: 8-17-99



# Well Sampling Log

Date: 19-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 25 ELTON

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11849  
 Well Condition: GOOD  
 Well Depth/Diameter: 60.00  
 Well Casing Type: PVC  
 Screened Interval: 50-55  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.25  
 Water Column Ht./Vol.: 10.75 9.6  
 Purge Est.: 28.90  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 19-Aug-99  
 16:35 16:50  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 49.28  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 49.28  
 Sample Date/Time: 19-Aug-99 17:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.28  
 Chain-of-Custody No.(s): 47  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.7	6.3	217	67
End	16.2	6.3	192	>200

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.5	6.4	477	>200
6	15.8	6.6	201	>200
12	15.7	6.4	208	>100
18	16.2	6.6	212	>100
24	15.8	6.5	215	75.0
30	15.7	6.3	217	67.0

Comments:

Air Temp: 70-80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 18-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: GRAND AND HOPPER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11850  
 Well Condition: GOOD  
 Well Depth/Diameter: 65.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 51.70  
 Water Column Ht./Vol.: 13.30 11  
 Purge Est.: 33.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 18-Aug-99  
 14:27 14:42  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 30.00  
 DTW After Purging: 51.70  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 51.70  
 Sample Date/Time: 18-Aug-99 15:05  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 51.70  
 Chain-of-Custody No.(s): 36  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.4	6.5	383	4
End	18.1	6.6	225	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	22.2	6.2	478	>200
6	17.3	6.4	355	18.0
12	17.4	6.4	366	7.0
18	17.9	6.2	371	5.0
24	17.4	6.4	375	4.0
30	17.4	6.5	383	4.0

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 19-Aug-99  
 Crew: E. HOLLISTER/D. KASELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: OLIVER & GRAND

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11851  
 Well Condition: GOOD  
 Well Depth/Diameter: 62.50  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.20  
 Water Column Ht./Vol.: 9.30 8.3  
 Purge Est.: 25.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 19-Aug-99  
 8:50 9:04  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 28.00  
 DTW After Purging: 53.24  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 53.2  
 Sample Date/Time: 19-Aug-99 9:35  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.2  
 Chain-of-Custody No.(s): 41  
 Analytical Lab(s): H2M  
 Sampling Observations:

<u>SAMPLE CHEMISTRIES</u>				
	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.9	7	616	10
End	17.1	6.9	630	>100

<u>SAMPLE ANALYSES</u>			
Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.8	6.5	606	>200
7	17.4	6.8	599	17.0
14	17.3	6.9	600	10.2
21	16.9	6.9	611	6.0
28	16.9	7	616	10.0

Comments:

Air Temp: 70s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E Hollister

Date: 3-7-00



# Well Sampling Log

Date: 19-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: OLIVER & GRAND

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11852  
 Well Condition: GOOD  
 Well Depth/Diameter: 100.00  
 Well Casing Type: PVC  
 Screened Interval: 90-95  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 52.19  
 Water Column Ht./Vol.: 47.81 16.6  
 Purge Est.: 50.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 19-Aug-99  
   7:47 8:13  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 50.00  
 DTW After Purging: 52.20  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 52.20  
 Sample Date/Time: 19-Aug-99 10:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 52.20  
 Chain-of-Custody No.(s): 40  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.8	5.8	222	10
End	17.6	6.9	217	76.1

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.5	6.5	228	48.0
10	16.8	6.2	220	7.1
20	16.6	6.2	220	4.2
30	16.6	5.9	221	5.0
40	16.8	6	220	>100
50	16.8	5.8	222	10.0

Comments:

Air Temp: 70s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E. Hollister

Date: 3-7-00





# Well Sampling Log

Date: 20-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 989 OCR (BROOKLYN)

## METERS USED

Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: N-11855  
 Well Condition: FAIR  
 Well Depth/Diameter: 60.25  
 Well Casing Type: PVC  
 Screened Interval: bottom 5' + 5' sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 50.10  
 Water Column Ht./Vol.: 10.15 9.1  
 Purge Est.: 27.30  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 20-Aug-99  
 9:50 10:55  
 Depth(s): ALL  
 Rates (gpm): 0.50  
 Purged Volume: 30.00  
 DTW After Purging: 50.15  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 50.15  
 Sample Date/Time: 20-Aug-99 11:05  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 50.15  
 Chain-of-Custody No.(s): 53  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	20.3	6.7	312	4
End	19.6	6.7	163	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.3	6.7	365	>200
5	19.2	6.7	368	>200
10	19.4	6.6	372	42.0
15	19.7	6.7	357	22.0
20	19.7	6.5	350	6.0
25	19.9	6.6	333	5.0
30	20.3	6.7	312	4.00

Comments:

Air Temp: High 70s  
 Weather Conditions: OVERCAST

Crew Chief Signature E. Halliwell

Date: 3-7-00



# Well Sampling Log

Date: 23-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: DAYTON & OLIVER

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11858  
 Well Condition: GOOD  
 Well Depth/Diameter: 60.00  
 Well Casing Type: PVC  
 Screened Interval: 50-55  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 47.65  
 Water Column Ht./Vol.: 12.35 10.8  
 Purge Est.: 32.50  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 23-Aug-99  
 11:36 12:50  
 Depth(s): bottom  
 Rates (gpm): 0.50  
 Purged Volume: 33.00  
 DTW After Purging: 49.35  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 47.9  
 Sample Date/Time: 23-Aug-99 13:09  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 47.7  
 Chain-of-Custody No.(s): 56  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	19.5	6.1	332	5
End	16.9	6.4	335	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.6	6.4	349	23.0
6	19.2	5.9	336	20.0
12	19.1	6.1	336	9.0
18	19.5	6.2	335	7.0
24	19.4	6.1	335	6.0
33	19.5	6.1	332	5.0

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, HUMID, SUNNY

Crew Chief Signature E Hollister Date: 5-7-00



# Well Sampling Log

Date: 16-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: GRAYSTON & OCR

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11859  
 Well Condition: GOOD  
 Well Depth/Diameter: 60.20  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 5 + 5 sump  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.57  
 Water Column Ht./Vol.: 10.63 9.5  
 Purge Est.: 28.60  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 16-Aug-99 13:33 13:48  
 Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 30.00  
 DTW After Purging: 49.57  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 49.57  
 Sample Date/Time: 16-Aug-99 14:15  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.57  
 Chain-of-Custody No.(s): 22-24  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17	5.5	339	89.1
End	17.9	5.7	449	>200

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.3	6.2	307	>200
5	17.1	5.9	362	>100
10	17.1	5.8	369	73.0
15	17	5.6	356	36.5
20	17	5.6	351	51.0
25	17	5.5	347	21.2
30	17	5.5	339	89.10

Air Temp:  
 Weather Conditions:

Comments:

MS/MSD

Crew Chief Signature

*E Hollister*

Date: 3-7-00

# LMS Well Sampling Log

Date: 23-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 2541 ASTER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11860  
 Well Condition: FAIR  
 Well Depth/Diameter: 60.15  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 5'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.16  
 Water Column Ht./Vol.: 10.99 6.9  
 Purge Est.: 21.00  
 Purge Method(s): Submersible pump  
 Purge Date/Time(s): 23-Aug-99  
 10:15 10:40  
 Depth(s): bottom  
 Rates (gpm): 1.00  
 Purged Volume: 21.00  
 DTW After Purging: 49.16  
 Yield Rate: L - M - H L  
 Purge Observations:

DTW Before Sampling: 49.16  
 Sample Date/Time: 23-Aug-99 11:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.16  
 Chain-of-Custody No.(s): 55  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.2	5.6	150	4
End	16.6	6	150	>200

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.8	6	157	>200
5	16.3	5.8	139	16.0
10	16.3	5.8	139	9.0
15	16.2	5.8	139	6.0
21	16.2	5.6	150	4.0

Comments:

Air Temp: 70s  
 Weather Conditions: HUMID, SUNNY

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 1054 Bowling Green Dr.

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11861 DTW Before Sampling: 49.04  
 Well Condition: good Sample Date/Time: 10-Aug-99  
 Well Depth/Diameter: 60.10 2 Sampling Method: Teflon bailer  
 Well Casing Type: PVC Sampling Depth(s): TOC  
 Screened Interval: Bottom 5 + 5 sump DTW After Sampling: 49.04  
 Casing Ht./Lock No.: Chain-of-Custody No.(s): 09  
 Reference Pt.: TOC Analytical Lab(s): H2M  
 Depth to Water (DTW): 49.04 Sampling Observations:  
 Water Column Ht./Vol.: 11.06 9.9  
 Purge Est.: 30.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.4	4.7	172	6.4
End	16.9	5.7	172	>200

Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 30.00  
 DTW After Purging: 49.04  
 Yield Rate: L - M - H H  
 Purge Observations:  
 tan, silty

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.3	4.7	174	>200
5	16.6	4.8	169	>100
10	16.6	4.7	168	22.6
15	16.5	4.6	169	12.4
20	16.4	4.7	170	7.5
25	16.4	4.7	170	7.1
30	16.4	4.7	172	6.4

Comments: in grass

Air Temp: 80s  
 Weather Conditions:

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 17-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 653 EDGEWOOD (MYRON)

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: N-11862  
 Well Condition: GOOD  
 Well Depth/Diameter: 60.00  
 Well Casing Type: PVC  
 Screened Interval: 50-55  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.18  
 Water Column Ht./Vol.: 13.82  
 Purge Est.: 35.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 17-Aug-99  
   11:40 11:59  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 35.00  
 DTW After Purging: 46.20  
 Yield Rate: L - M - H           H  
 Purge Observations:

DTW Before Sampling: 46.24  
 Sample Date/Time: 17-Aug-99 12:15  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.24  
 Chain-of-Custody No.(s): 29  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.3	5.5	205	21.2
End	17.4	5.6	210	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	19.4	5.6	216	>200
7	16.8	5.6	206	>100
14	17.4	5.4	206	97.0
21	17.3	5.4	208	45.2
28	17.1	5.6	205	14.1
35	17.3	5.5	205	21.20

Comments:

Air Temp:  
 Weather Conditions:

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS

## Well Sampling Log

Date: 17-Aug-99  
Crew: E. HOLLISTER/D. KASSELL  
Job No: 650-422  
Project: NCIA WELL SAMPLING  
Project Site: 33 SYLVESTER (DRIVEWAY)

### METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: DRT 15C s/n 19834

Well ID No.: AIM-33-1  
Well Condition: GOOD  
Well Depth/Diameter: 64.00  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 53.35  
Water Column Ht./Vol.: 9.65 16.2  
Purge Est.: 50.00  
Purge Method(s): GRUNDFOS  
Purge Date/Time(s): 17-Aug-99  
15:10 15:50  
Depth(s): ALL  
Rates (gpm): 2.00  
Purged Volume: 50.00  
DTW After Purging: 53.35  
Yield Rate: L - M - H **M**

DTW Before Sampling: 53.35  
Sample Date/Time: 17-Aug-99 16:00  
4 Sampling Method: Teflon bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 53.35  
Chain-of-Custody No.(s): 31  
Analytical Lab(s): H2M  
Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	18.5	5.4	171	>200
End	17.9	5.4	153	>200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

Purge Observations:  
PUMP PROBLEMS VERY SILTY  
STOPPED PUMPING TWICE

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	20.5	5.2	182	>200
10	18.1	5.1	173	>200
20	19.3	5.3	149	>200
30	18.9	5.3	161	>200
40	18.6	5.2	170	>200
50	18.5	5.4	171	>200

Comments:

Air Temp: 80s  
Weather Conditions: HOT, HAZY, HUMID  
SLIGHT BREEZE

Crew Chief Signature

*E. Hollister*

Date: 5-7-00



# Well Sampling Log

Date: 19-Aug-99  
 Crew: B. CAR / J. PFAFF  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: NE CORNER BOND & MAIN

METERS USED  
 Temp.: TLC #10  
 pH: N-3  
 Cond.: TLC #10  
 Turb.: NYSDEC MONITEK S/N L-3324

Well ID No.: ANSON MW-8 DTW Before Sampling: 54.60  
 Well Condition: FAIR Sample Date/Time: 19-Aug-99 7:50  
 Well Depth/Diameter: 57.20 4 Sampling Method: Teflon bailer  
 Well Casing Type: PVC Sampling Depth(s): TOC  
 Screened Interval: BOTTOM 10' DTW After Sampling: 54.60  
 Casing Ht./Lock No.: Chain-of-Custody No.(s): 45  
 Reference Pt.: TOC Analytical Lab(s): H2M  
 Depth to Water (DTW): 53.80 Sampling Observations:  
 Water Column Ht./Vol.: 3.40 5.7  
 Purge Est.: 17.10

Purge Method(s): Submersible pump  
 Purge Date/Time(s): 19-Aug-99 7:10 7:45

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.8	5.3	79	>200
End	17.1	5.3	76	>200

Depth(s): ALL  
 Rates (gpm): 1.25  
 Purged Volume: 30.00  
 DTW After Purging: 54.60  
 Yield Rate: L - M - H L  
 Purge Observations:

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.3	5.2	88	>200
5	17.2	5.2	81	>200
10	17.3	5.1	80	>200
15	17.7	5.1	80	>200
20	18.4	5.1	78	>200
25	17.4	5.3	81	>200
30	17.8	5.3	79	>200

Air Temp: 70-80s  
 Weather Conditions: HOT, HAZY, HUMID

Comments: Stopped flow @ 7:30, well dry. Allow 5 mins. Recharge.

Crew Chief Signature E. Hollatz Date: 3-7-99





# Well Sampling Log

Date: 17-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 67 SYLVESTER

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: DOAK-MW-1  
 Well Condition: GOOD  
 Well Depth/Diameter: 64.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 54.00  
 Water Column Ht./Vol.: 10.00 16.8  
 Purge Est.: 50.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 17-Aug-99  
 13:35 14:00  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 50.00  
 DTW After Purging: 64.00  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 64.00  
 Sample Date/Time: 17-Aug-99 14:25  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 64.00  
 Chain-of-Custody No.(s): 30  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.9	5.1	392	18.4
End	17.7	5.1	495	31.2

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	22.3	5.6	456	>200
10	18.1	5.1	407	>200
20	17.9	5.1	402	70.0
30	17.9	5	393	33.0
40	17.9	5.1	394	27.2
50	17.9	5.1	392	18.4

Comments:

Air Temp: 80s

Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature

*E. Hollister*

Date: 3-7-00



# Well Sampling Log

Date: \_\_\_\_\_  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: ALLEY BETWEEN KINKLE AND SYLVESTE

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

OFF MAIN

Well ID No.: FLMW-204B  
 Well Condition: GOOD  
 Well Depth/Diameter: 110.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 54.47  
 Water Column Ht./Vol.: 55.53 17.9  
 Purge Est.: 53.60  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 16-Aug-99  
 15:13 15:31  
 Depth(s): ALL  
 Rates (gpm): 3.00  
 Purged Volume: 54.00  
 DTW After Purging: 54.47  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 54.47  
 Sample Date/Time: 16-Aug-99 16:05  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 54.47  
 Chain-of-Custody No.(s): 25  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.3	5.5	410	>100
End	16.6	5.9	441	27

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.6	5.8	421	>200
9	16.6	5.6	414	>200
18	16.5	5.6	411	>200
27	16.4	5.6	410	>200
36	16.4	5.6	411	>100
45	16.3	5.6	404	>100
54	16.3	5.5	410	>100

Air Temp: 80s  
 Weather Conditions: SUNNY, HOT, HUMID

Comments:

Crew Chief Signature

Date:

8-2-99

Date: 20-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 57 KINKLE

### METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: FLMW-205B  
 Well Condition: GOOD  
 Well Depth/Diameter: 110.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.70  
 Water Column Ht./Vol.: 56.30 18  
 Purge Est.: 54.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 20-Aug-99

DTW Before Sampling: 53.8  
 Sample Date/Time: 20-Aug-99 12:50  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.75  
 Chain-of-Custody No.(s): 51  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 55.00  
 DTW After Purging: 53.80  
 Yield Rate: L - M - H H  
 Purge Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.5	5	325	>100
End	17.3	5.5	339	>100

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.2	5.2	326	>200
10	15.9	5.2	328	>200
20	15.8	5.3	327	>200
30	16	5.3	326	>200
40	15.8	5.1	327	>200
55	16.5	5	325	>100

Comments:

Air Temp: High 70s  
 Weather Conditions: OVERCAST

Crew Chief Signature

*E Hollister*

Date: 8-20-99

# LMS Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: SALISBURY

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: NRMW-1  
 Well Condition: NEW  
 Well Depth/Diameter: 70.36  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.68  
 Water Column Ht./Vol.: 26.68 13.2  
 Purge Est.: 40.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99

DTW Before Sampling: 43.68  
 Sample Date/Time: 10-Aug-99 10:00  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 43.68  
 Chain-of-Custody No.(s): 06  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 40.00  
 DTW After Purging: 43.68  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.3	5	155	87.5
End	15.4	5.6	133	21.4

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCI	

PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.2	5.6	154	>200
10	15.5	5.4	152	112.5
20	15.4	5.5	154	17.0
30	15.3	5.1	154	11.0
40	15.3	5	155	87.5

Comments:

Air Temp: 70  
 Weather Conditions:

Crew Chief Signature E. Hollister

Date: 3.7.00

# LMS

## Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: BOWLING GREEN

### METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: NRMW-2  
 Well Condition: NEW  
 Well Depth/Diameter: 70.20  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 47.44  
 Water Column Ht./Vol.: 22.76 12.5  
 Purge Est.: 38.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99  
 11:38 11:55  
 Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 40.00  
 DTW After Purging: 47.44  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 47.44  
 Sample Date/Time: 10-Aug-99 12:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 47.44  
 Chain-of-Custody No.(s): 08  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.9	4.7	271	9.7
End	17.7	5.4	225	31.7

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	16.2	5.3	256	>200
10	17.3	4.7	270	47.2
20	16.9	4.7	270	35.4
30	16.8	4.7	271	19.5
40	16.9	4.7	271	9.7

Comments:

Air Temp: 80s

Weather Conditions:

Crew Chief Signature

Date: 3-7-00



# Well Sampling Log

Date: 10-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: MERILLON

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: NRMW-3  
 Well Condition: NEW  
 Well Depth/Diameter: 70.90  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.29  
 Water Column Ht./Vol.: 27.61 13.3  
 Purge Est.: 40.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 10-Aug-99  
 10:30 10:55  
 Depth(s): ALL  
 Rates (gpm): 2.50  
 Purged Volume: 40.00  
 DTW After Purging: 43.30  
 Yield Rate: L - M - H H  
 Purge Observations:  
 tan, silty

DTW Before Sampling: 43.3  
 Sample Date/Time: 10-Aug-99 11:10  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 43.3  
 Chain-of-Custody No.(s): 07  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.8	6.2	163	4.2
End	15.8	6.2	131	19

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17	5.7	159	>100
10	16	5.9	161	30.0
20	16	6	162	7.2
30	15.8	6	162	12.4
40	15.8	6.2	163	4.2

Comments:

Air Temp: 70s  
 Weather Conditions:

Crew Chief Signature

Date: 5-7-00

# LMS

## Well Sampling Log

Date: 17-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 1145 ROXBURY

### METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: NRMW-4  
 Well Condition: NEW  
 Well Depth/Diameter: 70.60  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 45.00  
 Water Column Ht./Vol.: 25.60 13  
 Purge Est.: 39.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 17-Aug-99  
 10:25 10:45  
 Depth(s): ALL  
 Rates (gpm): 2.00  
 Purged Volume: 40.00  
 DTW After Purging: 45.00  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 45.00  
 Sample Date/Time: 17-Aug-99  
 2 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 45.00  
 Chain-of-Custody No.(s): 28  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.6	5.7	93	67
End	16.7	97	23	

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	17.6	6.2	109	>200
10	17.6	6.1	97	>200
20	17.6	6.1	94	>100
30	17.6	5.9	94	61.2
40	17.6	5.7	93	67.0

Comments:

Air Temp:  
 Weather Conditions:

Crew Chief Signature E. Hollister

Date: 8-20-99



# Well Sampling Log

Date: 18-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: ROYAL GUARD, MAIN STREET

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: RGMW-1  
 Well Condition: FAIR  
 Well Depth/Diameter: 56.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.31  
 Water Column Ht./Vol.: 2.69 2.4  
 Purge Est.: 7.50  
 Purge Method(s): Teflon bailer  
 Purge Date/Time(s): 18-Aug-99  
 15:49 16:54  
 Depth(s): ALL  
 Rates (gpm): <.25  
 Purged Volume: 7.50  
 DTW After Purging: 53.32  
 Yield Rate: L - M - H **M**  
 Purge Observations:

DTW Before Sampling: 53.32  
 Sample Date/Time: 18-Aug-99 17:05  
 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.32  
 Chain-of-Custody No.(s): 37  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.2	6	210	>200
End	17.3	6.1	217	>200

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.1	6	218	>200
2	17.3	6	210	>200
4	17.2	6.1	208	>200
6	17.1	6	211	>200
7.5	17.2	6	210	>200

Comments:

Air Temp: 80s  
 Weather Conditions: HOT, HAZY, HUMID

Crew Chief Signature E Hollister

Date: 3-7-00





# Well Sampling Log

Date: 16-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 80 SWALM

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

Well ID No.: UN-16  
 Well Condition: GOOD  
 Well Depth/Diameter: 70.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.70  
 Water Column Ht./Vol.: 16.30 23  
 Purge Est.: 70.00  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 16-Aug-99  
 17:07 17:32  
 Depth(s): ALL  
 Rates (gpm): 3.00  
 Purged Volume: 72.00  
 DTW After Purging: 53.70  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 53.70  
 Sample Date/Time: 16-Aug-99 18:00  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.70  
 Chain-of-Custody No.(s): 26  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.1	5.9	392	12.1
End	17.2	6	375	61.2

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	18.8	6	394	>200
12	17.1	6	393	>200
24	17.2	6	392	56.1
36	17	6	390	27.40
48	17	5.9	388	18.0
60	17.1	6	387	15.1
72	17.1	5.9	392	12.1

Comments:

Air Temp: 80s  
 Weather Conditions:

SUNNY, HOT, HUMID, SLIGHT BREEZE

Crew Chief Signature

*E. Hollister*

Date:

8-20-99



# Well Sampling Log

Date: 24-Aug-99  
 Crew: E. HOLLISTER/D. KASSELL  
 Job No: 650-422  
 Project: NCIA WELL SAMPLING  
 Project Site: 558 MAIN ST (SWALM)

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: DRT 15C s/n 19834

## FEDERICO'S

Well ID No.: UN-23  
 Well Condition: FAIR  
 Well Depth/Diameter: 65.00  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 54.00  
 Water Column Ht./Vol.: 11.00 18.5  
 Purge Est.: 55.50  
 Purge Method(s): GRUNDFOS  
 Purge Date/Time(s): 24-Aug-99  
 10:56 11:16  
 Depth(s): BOTTOM  
 Rates (gpm): 3.00  
 Purged Volume: 60.00  
 DTW After Purging:  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling:  
 Sample Date/Time: 24-Aug-99 11:30  
 4 Sampling Method: Teflon bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling:  
 Chain-of-Custody No.(s): 60  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	17.1	5.7	463	7
End	18.3	5.7	438	34

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
VOCs		HCl	

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
0	20.1	6	451	>200
10	17.4	5.6	454	>100
20	17.3	5.6	456	>100
30	17	5.7	460	32.0
40	17.3	5.6	460	19.0
50	17.2	5.7	460	11.0
60	17.1	5.7	463	7.00

Comments:

Air Temp: 80s  
 Weather Conditions:  
 HOT, HUMID, PARTLY CLOUDY

Crew Cheif Signature

*E. Hollister*

Date: 3-7-00

Table D-2  
Well sampling list  
August 1999

NYSDEC sample #	Well ID	date	time	sampler	NOTES
01	EW-2C	9-Aug	13:45	eh/dk	
02	EW-2B	9-Aug	15:25	eh/dk	
03	EW-1C	9-Aug	16:50	eh/dk	
04	EW-1B	9-Aug	18:25	eh/dk	
	TB-1	9-Aug			
05	N-9939	10-Aug	9:00	eh/dk	with
06	NRMW-1	10-Aug	10:00	eh/dk	
07	NRMW-3	10-Aug	11:10	eh/dk	
08	NRMW-2	10-Aug	12:10	eh/dk	
09	N-11861	10-Aug	13:20	eh/dk	
10	N-9937	10-Aug	14:15	eh/dk	blind dup OF N-9938
11-13	N-9938	10-Aug	15:45	eh/dk	MS/MSD
14	N-10459	12-Aug	11:50	eh/dk	
15	N-10329	12-Aug	13:50	eh/dk	
16	N-10462	12-Aug	15:40	eh/dk	
17	N-10323	12-Aug	17:00	eh/dk	blind dup of N-10324
	TB-2	12-Aug			
18	N-10324	13-Aug	10:00	eh/dk	with
19	N-10472	13-Aug	12:10	eh/dk	
20	TB-3	16-Aug			
21	N-10474	16-Aug	12:10	eh/dk	
25	FLMW-204B	16-Aug	16:05	eh/dk	
26	UN-16	16-Aug	18:00	eh/dk	
22-24	N-11859	16-Aug	14:15	eh/dk	MS/MSD
27	N-11848	17-Aug	9:40	eh/dk	
28	NRMW-4	17-Aug	11:00	eh/dk	
29	N-11862	17-Aug	12:15	eh/dk	
30	DOAK-MW-1	17-Aug	14:25	eh/dk	
31	AIM-33-1	17-Aug	16:00	eh/dk	
32	TB-4	18-Aug			
33	N-10479	18-Aug	10:10	DK	
34	N-10478	18-Aug	12:15	DK	
35	N-10477	18-Aug	12:55	DK	
36	N-11850	18-Aug	15:05	eh/dk	
37	RGMW-1	18-Aug	17:05	eh/dk	
38	N-10321	18-Aug	16:00	BC/JP	
39	TB-5	19-Aug			
40	N-11852	19-Aug	10:00	JT/DK	
41	N-11851	19-Aug	9:35	eh/dk	
42	N-10470	19-Aug	11:25	eh/dk	
43	N-10328	19-Aug	8:50	BC/JP	
44	N-10326	19-Aug	10:40	BC/JP	
45	Anson MW-8	19-Aug	7:50	BC/JP	
46	N-10476	19-Aug	18:10	eh/dk	
47	N-11849	19-Aug	17:10	eh/dk	
48	N-10471D	20-Aug	9:00	eh/dk	
49	N-10471S	20-Aug	10:23	eh/dk	
50	N-10327	20-Aug	8:55	BC/JP	
51	FLMW-205B	20-Aug	12:50	eh/dk	
52	N-10325	20-Aug	12:08	BC/JP	
53	N-11855	20-Aug	11:05	BC/JP	
54	TB-6	23-Aug			
55	N-11860	23-Aug	11:00	eh/dk	
56	N-11858	23-Aug	13:09	eh/dk	
57	N-10464	23-Aug	14:35	eh/dk	
58	N-10465	23-Aug	16:00	eh/dk	
59	N-10322	23-Aug	17:45	eh/dk	
60	UN-23	24-Aug	11:30	eh/dk	
	N-11854	ocr & sylvester			
	NYT MW-3	between rushmore & urban			
	N-10475	CONNECTED TO N-10476 ?			
	N-11853	NOT LOCATED			
	HARMON MW-1	NOT LOCATED			
TOTAL WELLS SAMPLED = 50					



MONITORING WELL SAMPLING LOGS  
JANUARY 2000



# LMS Well Sampling Log

Date: 1/13/2000  
Crew: EH, JP, DK  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: FLOWER

Early warning well 1 shallower

Well ID No.: EW-1B  
Well Condition: GOOD  
Well Depth/Diameter: 164.00 2  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 48.04  
Water Column Ht./Vol.: 115.96 27.7  
Purge Est.: 83.2  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/13/2000 12:15-12:45

Depth(s): All  
Rates (gpm): 3  
Purged Volume: 90  
DTW After Purging: 48.04  
Yield Rate: L - M - H H  
Purge Observations:

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

## METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

DTW Before Sampling: 48.04  
Sample Date/Time: 13-Jan 13:00  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 48.04  
Chain-of-Custody No.(s): B94816  
Analytical Lab(s): H2M  
Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	<u>14.2</u>	<u>5.9</u>	<u>283</u>	<u>5</u>
End	<u>14.0</u>	<u>6.2</u>	<u>296</u>	<u>50</u>

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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Crew Chief Signature



Date: 3-7-00

# LMS Well Sampling Log

Date: 1/10/2000  
 Crew: EH, LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: FLOWER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Early warning well 1 deep

Well ID No.: EW-1C  
 Well Condition: good  
 Well Depth/Diameter: 516 4  
 Well Casing Type: carbon steel  
 Screened Interval: bottom 10  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): -  
 Water Column Ht./Vol.: -  
 Purge Est.: 1000  
 Purge Method(s): dedicatedgrundfos  
 Purge Date/Time(s): 1/10/2000 12:00-13:10

DTW Before Sampling: -  
 Sample Date/Time: 10-Jan 13:30  
 Sampling Method: dedicated HDPE tubing  
 Sampling Depth(s): -  
 DTW After Sampling: -  
 Chain-of-Custody No.(s): B94801  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): -  
 Rates (gpm): 15  
 Purged Volume: 1000  
 DTW After Purging: -  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	12.0	7.0	116	10
End	12.1	6.6	115	5

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:  
 EH miscalculated frequency of purge volumes

Air Temp: 40-50s  
 Weather Conditions: rain, wind

Crew Chief Signature E. Holbert

Date: 3-7-00



# LMS Well Sampling Log

Date: 1/13/2000  
 Crew: EH, JP, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: ASTER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Early warning well 2 shallower

Well ID No.: EW-2B  
 Well Condition: good  
 Well Depth/Diameter: 142.00 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.32  
 Water Column Ht./Vol.: 92.68 23.9  
 Purge Est.: 72  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/13/2000 14:25-15:06

DTW Before Sampling: 49.32  
 Sample Date/Time: 13-Jan 15:15  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.32  
 Chain-of-Custody No.(s): B94817  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): All  
 Rates (gpm): 2  
 Purged Volume: 72  
 DTW After Purging: 49.32  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.6	5.7	240	4
End	14.4	6.6	254	15

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 20-30  
 Weather Conditions: overcast, breezy, occassional snow

Crew Chief Signature E. Hall

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/10/2000  
Crew: EH, LR, DK  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: ASTER

Early warning well 2 deep

Well ID No.: EW-2C  
Well Condition: GOOD  
Well Depth/Diameter: 500.00      4  
Well Casing Type: CARBON STEEL  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.: -  
Reference Pt.: -  
Depth to Water (DTW): -  
Water Column Ht./Vol.: -  
Purge Est.: 1200  
Purge Method(s): dedicatedgrundfos  
Purge Date/Time(s): 1/10/2000 14:30-16:00

Depth(s): -  
Rates (gpm): 15  
Purged Volume: 1200  
DTW After Purging: -  
Yield Rate: L - M - H      H  
Purge Observations:

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.  
400 - rusty colored

Comments:  
B94803 blind dup 17:00

## METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

DTW Before Sampling: -  
Sample Date/Time: 10-Jan 16:20  
Sampling Method: DEDICATED TUBING  
Sampling Depth(s): -  
DTW After Sampling: -  
Chain-of-Custody No.(s): B94802 B94803  
Analytical Lab(s): H2M  
Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	12.6	6.9	57	5
End	12.9	6.9	59	10

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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Crew Chief Signature

*E. Holler*

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/17/2000  
Crew: EH, JP, DK, MB  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: 57 KINKLE

Well ID No.: FLMW-205B  
Well Condition: GOOD  
Well Depth/Diameter: 110.00 2  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 53.42  
Water Column Ht./Vol.: 56.58 18.0  
Purge Est.: 54.1  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/17/2000

Depth(s): All  
Rates (gpm): 2  
Purged Volume: 60  
DTW After Purging: 53.42  
Yield Rate: L - M - H H  
Purge Observations:

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:  
equipment freezing

## METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

DTW Before Sampling: 53.42  
Sample Date/Time: 17-Jan 12:10  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 53.42  
Chain-of-Custody No.(s): B94823  
Analytical Lab(s): H2M  
Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	<u>12.9</u>	<u>5.0</u>	<u>288</u>	<u>4</u>
End	<u>11.9</u>	<u>5.7</u>	<u>304</u>	<u>20</u>

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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Crew Chief Signature

*E. Holbrit*

Date: 3-7-00

# LMS

## Well Sampling Log

Date: 1/13/2000  
Crew: EH, DK  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: Off-Site middle of parking lot

### METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

Well ID No.: FSMW-6A  
Well Condition: New  
Well Depth/Diameter: 70.00 2  
Well Casing Type: PVC  
Screened Interval: Bottom 10'  
Casing Ht./Lock No.: Flush Mounted  
Reference Pt.: Mark on PVC  
Depth to Water (DTW): 51.60  
Water Column Ht./Vol.: 18.40 11.8  
Purge Est.: 36  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/13/2000 08:31-09:07

Depth(s): All  
Rates (gpm): 1  
Purged Volume: 36  
DTW After Purging: 51.6  
Yield Rate: L - M - H H  
Purge Observations:

DTW Before Sampling: 51.60  
Sample Date/Time: 13-Jan 9:45  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 51.60  
Chain-of-Custody No.(s): B94814  
Analytical Lab(s): H2M  
Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.6	6.3	204	5
End	16.6	7.0	70	45

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 20-30  
Weather Conditions: overcast, breezy,  
occasional snow

Crew Chief Signature

*E. Holbert*

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/13/2000  
Crew: EH, JP, DK  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: Off-Site

METERS USED  
Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

Well ID No.: FSMW-6B  
Well Condition: New  
Well Depth/Diameter: 149.15      2  
Well Casing Type: PVC  
Screened Interval: Bottom 10'  
Casing Ht./Lock No.: Flush Mounted  
Reference Pt.: Mark on PVC  
Depth to Water (DTW): 52.00  
Water Column Ht./Vol.: 97.15      24.7  
Purge Est.: 74  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/13/2000 10:15-10:53

DTW Before Sampling: 52.00  
Sample Date/Time: 13-Jan 11:00  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 52.00  
Chain-of-Custody No.(s): B94815  
Analytical Lab(s): H2M  
Sampling Observations:

Depth(s): All  
Rates (gpm): 2  
Purged Volume: 75  
DTW After Purging: 52  
Yield Rate: L - M - H      H  
Purge Observations:

SAMPLE CHEMISTRIES

	<u>Temp. (°C)</u>	<u>pH</u>	<u>Sp. Cond.</u>	<u>Turb.</u>
<u>Start</u>	<u>14.3</u>	<u>5.4</u>	<u>312</u>	<u>6</u>
<u>End</u>	<u>15.9</u>	<u>6.0</u>	<u>272</u>	<u>75</u>

SAMPLE ANALYSES

<u>Parameters</u>	<u>Inv. No.</u>	<u>Pres. Meth.</u>	<u>Filter</u>
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## PURGE CHEMISTRIES

Vol.   Temp. (°C)   pH   Sp. Cond.   Turb.

See Table D-3.

Comments:

Air Temp: 20-30  
Weather Conditions: overcast, breezy,  
occassional snow

Crew Chief Signature E. Holheit

Date: 3-7-00



# Well Sampling Log

Date: 1/12/2000  
 Crew: EH, LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: Off Site (Chase)

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: FSMW-7A  
 Well Condition: New  
 Well Depth/Diameter: 69.65 2  
 Well Casing Type: PVC  
 Screened Interval: Bottom 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 54.39  
 Water Column Ht./Vol.: 15.61 11.4  
 Purge Est.: 36  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/12/2000 08:24-09:00

DTW Before Sampling: 54.39  
 Sample Date/Time: 12-Jan 9:15  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 54.39  
 Chain-of-Custody No.(s): B94810  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 36  
 DTW After Purging: 54.38  
 Yield Rate: L - M - H  
 Purge Observations:

water silty, then clear

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.5	6.4	273	5
End	15.9	6.6	178	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 40-50  
 Weather Conditions: sunny, breezy  
breezy, with gusts

Crew Chief Signature E. Hollister

Date: 1-7-00

# LMS Well Sampling Log

Date: 1/12/2000  
 Crew: EH, LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: Off Site (Chase)

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: FSMW-7B  
 Well Condition: New  
 Well Depth/Diameter: 148.25 2  
 Well Casing Type: PVC  
 Screened Interval: Bottom 10'  
 Casing Ht./Lock No.: Flush Mounted  
 Reference Pt.: Mark on PVC  
 Depth to Water (DTW): 54.40  
 Water Column Ht./Vol.: 94.75 24.3  
 Purge Est.: 73  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/12/2000 09:46-10:24

DTW Before Sampling: 54.40  
 Sample Date/Time: 12-Jan 10:55  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 54.40  
 Chain-of-Custody No.(s): B94811  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): All  
 Rates (gpm): 2  
 Purged Volume: 75  
 DTW After Purging: 54.4  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.2	7.2	218	5
End	15.6	7.3	216	60

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 40-50  
 Weather Conditions: sunny, breezy

Crew Chief Signature E. Hollister

Date: 3-7-00



# Well Sampling Log

Date: 1/11/2000  
 Crew: LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 2360 SALISBURY

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: NRMW-1  
 Well Condition: NEW  
 Well Depth/Diameter: 70.36 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 43.53  
 Water Column Ht./Vol.: 26.83 13.2  
 Purge Est.: 39.6  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/11/2000 8:41-9:24  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 42  
 DTW After Purging: 43.55  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 43.55  
 Sample Date/Time: 11-Jan 9:45  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 43.55  
 Chain-of-Custody No.(s): B94804  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.4	4.8	151	5
End	14.5	5.5	142	

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 45° F  
 Weather Conditions: overcast, drizzle  
 slightly windy

Crew Chief Signature E. Holtho

Date: 3-7-00





# Well Sampling Log

Date: 1/11/2000  
 Crew: LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 1018 BOWLING GREEN DR.

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: NRMW-2  
 Well Condition: NEW  
 Well Depth/Diameter: 70.20 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.00  
 Water Column Ht./Vol.: 21.20 12.3  
 Purge Est.: 36.8  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/11/2000 12:34-13:16

DTW Before Sampling: 49.40  
 Sample Date/Time: 11-Jan 13:45  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.40  
 Chain-of-Custody No.(s): B94805  
 Analytical Lab(s): H2M  
 Sampling Observations: clear

Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 42  
 DTW After Purging: 49.4  
 Yield Rate: L - M - H H  
 Purge Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.3	4.5	226	55
End	14.1	5.5	216	20

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 45° F  
 Weather Conditions: overcast, drizzle  
slightly windy

Crew Chief Signature

Date:

3-7-00



# Well Sampling Log

Date: 1/11/2000  
 Crew: LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 967 MERILLON

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: NRMW-3  
 Well Condition: NEW  
 Well Depth/Diameter: 70.90 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 42.68  
 Water Column Ht./Vol.: 28.22 13.4  
 Purge Est.: 40.3  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/11/2000 10:39-11:23  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 42  
 DTW After Purging: 42.75  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 42.70  
 Sample Date/Time: 11-Jan 12:00  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 42.70  
 Chain-of-Custody No.(s): B94806  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.1	6.4	89	5
End	14.6	6.4	89	

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 45° F  
 Weather Conditions: overcast, drizzle  
slightly windy

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/11/2000  
 Crew: LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 1145 ROXBURY

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: NRMW-4  
 Well Condition: NEW  
 Well Depth/Diameter: 70.60 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 44.79  
 Water Column Ht./Vol.: 25.81 13.0  
 Purge Est.: 39.1  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/11/2000 14:30-15:14  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 42  
 DTW After Purging: 44.8  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 44.79  
 Sample Date/Time: 11-Jan 15:30  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 44.79  
 Chain-of-Custody No.(s): B94807  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.4	5.5	77	7
End	14.4	6.2	86	12

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 45° F  
 Weather Conditions: overcast, drizzle  
 slightly windy

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: \_\_\_\_\_  
Crew: EH, JP, DK  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: 675 Brooklyn

METERS USED  
Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

Well ID No.: N-9938  
Well Condition: FAIR-Poor  
Well Depth/Diameter: 70.56 4  
Well Casing Type: PVC  
Screened Interval: Bottom 5 + 3 sump  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 55.10  
Water Column Ht./Vol.: 15.46 20.4  
Purge Est.: 61.1  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/14/2000 11:05-12:06  
  
Depth(s): All  
Rates (gpm): 1  
Purged Volume: 61  
DTW After Purging: 70.58  
Yield Rate: L - M - H **M**  
Purge Observations:

DTW Before Sampling:  
Sample Date/Time: 14-Jan 12:30  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling:  
Chain-of-Custody No.(s): B94821  
Analytical Lab(s): H2M  
Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.6	5.1	405	3
End	14.1	5.4	281	20

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 10's  
Weather Conditions: sunny, windy

Crew Chief Signature

*E. Holstein*

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/18/2000  
Crew: JP, DK, MB  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: Magnolia and Grand

Well ID No.: N-10324  
Well Condition: FAIR  
Well Depth/Diameter: 54.60 2  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.: FLUSH  
Reference Pt.: TOC  
Depth to Water (DTW): 50.60  
Water Column Ht./Vol.: 4.00 3.6  
Purge Est.: 10.80  
Purge Method(s): teflon bailer  
Purge Date/Time(s): 1/18/2000 15:00-15:30

Depth(s): All  
Rates (gpm): 0.6  
Purged Volume: 12  
DTW After Purging: 50.6  
Yield Rate: L - M - H  
Purge Observations:

## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

## METERS USED

Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

DTW Before Sampling: 50.6  
Sample Date/Time: 18-Jan 15:45  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 50.6  
Chain-of-Custody No.(s): B94826  
Analytical Lab(s): H2M  
Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	12.1	6.3	427	4
End	12.6	5.7	426	5

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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Crew Chief Signature

*E. Hollister*

Date:

*3-7-00*



# Well Sampling Log

Date: 1/18/2000  
 Crew: JP, DK, MB  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: Swalm

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

ACROSS STREET AND SOUTH OF 80 SWALM

Well ID No.: N-10325  
 Well Condition: GOOD  
 Well Depth/Diameter: 55.30 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.: FLUSH  
 Reference Pt.: TOC  
 Depth to Water (DTW): 51.93  
 Water Column Ht./Vol.: 3.37 3.0  
 Purge Est.: 9  
 Purge Method(s): Teflon Bailer  
 Purge Date/Time(s): 1/18/2000 11:00-11:25  
  
 Depth(s): All  
 Rates (gpm): 0.6  
 Purged Volume: 9  
 DTW After Purging: 51.93  
 Yield Rate: L - M - H  
 Purge Observations:

DTW Before Sampling: 51.93  
 Sample Date/Time: 18-Jan 11:50  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 51.93  
 Chain-of-Custody No.(s): B94828  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	12.1	6.1	164	5
End	12.8	6.6	137	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 0-10  
 Weather Conditions: sunny, breezy

Crew Chief Signature 3-7-00

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/18/2000  
Crew: JP, DK, MB  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: 979 OCR (NY AVE)

METERS USED  
Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

Well ID No.: N-10328  
Well Condition: FAIR  
Well Depth/Diameter: 53.80 2  
Well Casing Type: PVC  
Screened Interval: BOTTOM 10'  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 50.70  
Water Column Ht./Vol.: 3.10 2.8  
Purge Est.: 8.3  
Purge Method(s): Teflon Bailer  
Purge Date/Time(s): 1/18/2000 08:45-09:35

DTW Before Sampling: 50.7  
Sample Date/Time: 18-Jan 9:45  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 50.7  
Chain-of-Custody No.(s): B94825  
Analytical Lab(s): H2M  
Sampling Observations:

Depth(s): All  
Rates (gpm): 0.5  
Purged Volume: 9  
DTW After Purging: 50.7  
Yield Rate: L - M - H  
Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	13.9	6.0	261	>100
End	13.3	5.9	302	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments: Air Temp: 0-10  
Weather Conditions: sunny, breezy

Crew Chief Signature E. Holbert Date: 3-7-00

# LMS Well Sampling Log

Date: 1/17/2000  
 Crew: JP, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 17 BROOKLYN

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-10470  
 Well Condition: GOOD  
 Well Depth/Diameter: 64.90 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 53.85  
 Water Column Ht./Vol.: 11.00 9.9  
 Purge Est.: 30  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/17/2000 13:30-14:00

DTW Before Sampling: 53.88  
 Sample Date/Time: 17-Jan 14:30  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 53.88  
 Chain-of-Custody No.(s): B94827  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 30  
 DTW After Purging: 54.06  
 Yield Rate: L - M - H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.3	5.5	329	>100
End	13.8	6.8	358	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:  
 equipment freezing

Air Temp: 10's or less  
 Weather Conditions: sunny, windy

Crew Chief Signature E. Holth Date: 3-7-00





# Well Sampling Log

Date: \_\_\_\_\_  
 Crew: EH, JP, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 2548 Astor

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-10474  
 Well Condition: FAIR  
 Well Depth/Diameter: 60.00 2  
 Well Casing Type: PVC SCH 80  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 49.45  
 Water Column Ht./Vol.: 10.55 9.5  
 Purge Est.: 28.4  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/13/2000 15:35-16:05  
  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 30  
 DTW After Purging: 49.5  
 Yield Rate: L - M - H H  
 Purge Observations:

DTW Before Sampling: 49.50  
 Sample Date/Time: 13-Jan 16:35  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 49.48  
 Chain-of-Custody No.(s): B94818  
 Analytical Lab(s): H2M  
 Sampling Observations:

### SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	15.5	5.7	325	15
End	14.4	6.2	274	>100

### SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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### PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 20-30  
 Weather Conditions: overcast, breezy,  
 occassional snow

Crew Chief Signature E. Halliath

Date: 3-7-00



# Well Sampling Log

Date: 1/12/2000  
 Crew: EH, LR, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: BARRINGTON ST

## METERS USED

Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-10477  
 Well Condition: GOOD  
 Well Depth/Diameter: 62.50 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.60  
 Water Column Ht./Vol.: 15.90 11.4  
 Purge Est.: 35  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/12/2000 11:52-12:28  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 36  
 DTW After Purging: 46.38  
 Yield Rate: L - M - H  
 Purge Observations:

DTW Before Sampling: 46.60  
 Sample Date/Time: 12-Jan 13:00  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.60  
 Chain-of-Custody No.(s): b94812  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	16.5	5.1	554	5
End	15.3	5.2	553	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:  
 water up & over cover of well

Air Temp: 40-50  
 Weather Conditions: sunny, breezy  
 low-med humid

Crew Chief Signature E. Hollister

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/12/2000  
 Crew: EH, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: BARRINGTON ST

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-10478  
 Well Condition: POOR  
 Well Depth/Diameter: 121.00 4  
 Well Casing Type: PVC SCH 80  
 Screened Interval: 100-121'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 46.50  
 Water Column Ht./Vol.: 74.50 72.3  
 Purge Est.: 220  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/12/2000 13:40-14:55

DTW Before Sampling: 46.50  
 Sample Date/Time: 12-Jan 15:30  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 46.50  
 Chain-of-Custody No.(s): B94813  
 Analytical Lab(s): H2M  
 Sampling Observations:

Depth(s): All  
 Rates (gpm): 3  
 Purged Volume: 225  
 DTW After Purging: 46.5  
 Yield Rate: L - M - H H  
 Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.8	5.1	206	5
End	15.1	5.2	211	14

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 40-50  
 Weather Conditions: sunny, breezy

Crew Chief Signature E. Holthorst Date: 3-7-00

# LMS Well Sampling Log

Date: 1/14/2000  
 Crew: EH, JP, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: OLIVER & GRAND

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-11851  
 Well Condition: Fair  
 Well Depth/Diameter: 62.50 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 10'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 51.60  
 Water Column Ht./Vol.: 10.90 9.8  
 Purge Est.: 29.4  
 Purge Method(s): Whale  
 Purge Date/Time(s): 1/14/2000 08:30-09:00  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 30  
 DTW After Purging: 51.8  
 Yield Rate: L - M - H H  
 Purge Observations: clear

DTW Before Sampling: 51.60  
 Sample Date/Time: 14-Jan 9:30  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 51.60  
 Chain-of-Custody No.(s): B94820  
 Analytical Lab(s): H2M  
 Sampling Observations:

## SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	13.6	6.5	234	4
End	12.8	7.6	249	>100

## SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 10's  
 Weather Conditions: sunny, windy

Crew Chief Signature

*E. Holthorst*

Date:

3-7-00

# LMS Well Sampling Log

Date: 1/18/2000  
Crew: JP, DK, MB  
Job No: 650-426  
Project: NCIA Well Sampling  
Project Site: 989 OCR (BROOKLYN)

METERS USED  
Temp.: DEC 560  
pH: DEC 4-99-03  
Cond.: DEC 560  
Turb.: Monitek

Well ID No.: N-11855  
Well Condition: FAIR  
Well Depth/Diameter: 64.20 2  
Well Casing Type: PVC  
Screened Interval:  
Casing Ht./Lock No.:  
Reference Pt.: TOC  
Depth to Water (DTW): 51.90  
Water Column Ht./Vol.: 12.30 10.8  
Purge Est.: 32.5  
Purge Method(s): Grundfos  
Purge Date/Time(s): 1/18/2000 13:00-13:36

DTW Before Sampling: 51.90  
Sample Date/Time: 18-Jan 14:15  
Sampling Method: Teflon Bailer  
Sampling Depth(s): TOC  
DTW After Sampling: 51.90  
Chain-of-Custody No.(s): B94824  
Analytical Lab(s): H2M  
Sampling Observations:

Depth(s): All  
Rates (gpm): 1  
Purged Volume: 36  
DTW After Purging: 51.90  
Yield Rate: L - M - H  
Purge Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.4	5.7	327	4
End	13.7	5.9	420	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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## PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:

Air Temp: 0-10  
Weather Conditions: sunny, breezy

Crew Chief Signature E. Hollist

Date: 3-7-00

# LMS Well Sampling Log

Date: 1/17/2000  
 Crew: JP, DK  
 Job No: 650-426  
 Project: NCIA Well Sampling  
 Project Site: 2541 ASTER

METERS USED  
 Temp.: DEC 560  
 pH: DEC 4-99-03  
 Cond.: DEC 560  
 Turb.: Monitek

Well ID No.: N-11860  
 Well Condition: FAIR  
 Well Depth/Diameter: 60.15 2  
 Well Casing Type: PVC  
 Screened Interval: BOTTOM 5'  
 Casing Ht./Lock No.:  
 Reference Pt.: TOC  
 Depth to Water (DTW): 48.87  
 Water Column Ht./Vol.: 11.28 7.0  
 Purge Est.: 20.9  
 Purge Method(s): Grundfos  
 Purge Date/Time(s): 1/17/2000 15:25-15:55  
 Depth(s): All  
 Rates (gpm): 1  
 Purged Volume: 30  
 DTW After Purging: 48.87  
 Yield Rate: L - M - H  
 Purge Observations:

DTW Before Sampling: 48.87  
 Sample Date/Time: 17-Jan 16:20  
 Sampling Method: Teflon Bailer  
 Sampling Depth(s): TOC  
 DTW After Sampling: 48.87  
 Chain-of-Custody No.(s): B94829  
 Analytical Lab(s): H2M  
 Sampling Observations:

SAMPLE CHEMISTRIES

	Temp. (°C)	pH	Sp. Cond.	Turb.
Start	14.3	5.3	140	4
End	13.7	5.5	143	>100

SAMPLE ANALYSES

Parameters	Inv. No.	Pres. Meth.	Filter
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PURGE CHEMISTRIES

Vol.	Temp. (°C)	pH	Sp. Cond.	Turb.
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See Table D-3.

Comments:  
 equipment freezing

Air Temp: 10's or less  
 Weather Conditions: sunny, windy

Crew Chief Signature E. Holbert Date: 3-7-00

Table 1  
Purge Chemistries  
January 2000  
(Page 1 of 3)

NYSDEC Greensheet Number	Well ID	Volume	Alkalinity	Chloride	Dissolved Oxygen	Conductivity	ORP	pH	Temperature	Turbidity	Hardness	Notes	Dissolved Oxygen	ORP	Fe <sup>2+</sup>	filtered?	
B94816	EW-1B	1	0	0/20	45	0.9	282	260	6.0	13.2	7	31	NA - water too turbid to see any color change				
13-Jan			0.5			1.0	280	255	5.8	14.3	7		1.6	300	0	no	
13:00			1	0/25	55	1.0	280	260	6.0	14.0	4	XX					
			1.5			1.3	281	260	5.9	14.6	5						
			2	0/25	25	1.0	283	255	5.9	14.1	60	41					
			2.5			1.0	283	265	5.8	14.3	7						
			3	0/25	40	1.0	283	265	5.9	14.2	5	XX					
B94801	EW-1C	2	0	20/30	20	2.2	150	125	9.5/9	14.0	15	21	miscalculated frequency of purge volumes				
10-Jan			250			2.1	114	155	8.9	12.0	45						
13:30			500	0/15	25	7.3	118	190	8.0	12.0	15	35					
			750			8.4	116	200	7.1	12.0	7						
			1000	0/15	20	9.0	116	210	7.3	12.0	10	32					
B94817	EW-2B	3	0	0/35	50	1.0	244	240	6.3	13.5	7	42					
13-Jan			0.5			1.0	244	255	5.8	14.4	8						
15:15			1	0/20	55	1.0	241	260	5.6	14.6	5	XX					
			1.5			0.9	240	260	5.5	14.8	5						
			2	0/20	55	1.0	240	260	5.5	14.6	4	46					
			2.5			1.1	243	275	5.7	14.7	5						
			3	0/20	55	1.0	240	280	5.7	14.6	4	XX					
B94802	EW-2C	4	0	15/25	20	2.7	108	120	9.5/9	13.9	55	14					
B94803			0.5			2.0	100	NA	10.1/	13.4	5						
10-Jan			1	0/20	15	7.8	63	180	8.1	12.5	>200	>35					
16:20			1.5			8.4	59	190	7.7	12.4	60						
17:00			2	0/15	30	8.4	58	200	7.6	12.5	30	22					
			2.5			8.6	58	200	7.4	12.5	10						
			3	0/15	20	8.8	57	205	6.9	12.6	5	18					
B94823	FLMW-205B	5	0	0/15	45	12.9	300	285	6.8	10.3	50	56	H				
12:10			0.5			1.5	286	290	5.2	12.6	7						
17-Jan			1	0/10	50	1.5	280	300	5.2/5	12.6	5	0	F	unfiltered			
			1.5			1.5	284	300	5.2	13.2	4						
			2	0/10	45	17-1.4	289	305	5.3	13.0	4	58	H				
			2.5			1.4	291	315	5.0	13.1	80						
			3	0/10	50	1.2	288	315	5.0	12.9	4	0	F	unfiltered			
B94814	FSMW-6A	6	0	0/35	25	6.6	85	255	7.6	14.5	>100	>40		9.3	245	0	no
13-Jan			0.5			6.6	114	250	6.8	16.3	>100						
9:45			1	0/25	30	7.0	155	255	6.3/6	16.5/16.6	70	XX					
			1.5			7.3	176	255	6.2	16.8	50						
			2	0/20	45	7.3	191	260	6.3	16.6	50	48					
			2.5			7.4	197	265	6.3	16.8	7						
			3	0/20	50	7.6	204	265	6.3	16.6	5	XX					
B94815	FSMW-6B	7	0	0/20	45	6.7	275	290	5.8	12.4	>100	60		5.1	265	0	no
13-Jan			0.5			6.3	299	295	5.7	14.4	>100						
11:00			1	0/15	50	6.0	305	295	5.7	14.4	40	XX					
			1.5			5.9	308	300	5.5	14.5	>100						
			2	0/15	50	5.6	312	290	5.4	14.4	50	71					
			2.5			5.6	312	290	5.7	14.3	60						
			3	0/15	50	5.4	312	290	5.4	14.3	6	XX					
B94810	FSMW-7A	8	0	0/30	25	7.3	197	210	7.7	14.0	>100	42					
12-Jan			0.5			7.3	238	235	7.4	16.2	70						
9:15			1	0/25	45	7.4	257	240	7.0	16.3	20	56					
			1.5			7.4	265	250	6.2/6	16.7	>100						
			2	0/30	45	7.3	267	255	6.2	16.1	15	60					
			2.5			7.4	271	255	6.3	16.7	7						
			3	0/30	40	7.4	273	266	6.4	16.5	5	57					

Table D-3  
Purge Chemistries  
January 2000  
(Page 2 of 3)

NYSDEC Greensheet Number	Well ID	Volume	Alkalinity	Chloride	Dissolved Oxygen	Conductivity	ORP	pH	Temperature	Turbidity	Hardness	Notes	Dissolved Oxygen	ORP	Fe <sup>2+</sup>	filtered?	
B94811	FSMW-7B	9	0	0/45	25	6.2	253	245	6.8	15.3	>100	26					
12-Jan			0.5			6.1	217	245	7.1	15.3	90						
10:55			1	0/40	30	6.4	213	245	7.1	15.3	40	48					
			1.5			6.1	217	240	7.2	15.2	40						
			2	0/40	35	6.1	217	235	7.2	15.3	15	49					
			2.5			6.1	217	230	7.3	15.4	14						
			3	0/40	30	6.2	218	240	7.2	15.2	5	46					
B94826	backup N-10324	10	0	0/40	35	8.4	525	130	6.5	7.1	15	0	f				
18-Jan			0.5			8.4	501	140	6.5	9.4	4						
15:45			1	0/30	85	8.1	460	150	6.3	12.4	4	>60	h				
			1.5			8.1	460	175	6.4	11.1	4						
			2	0/30	80	8.2	475	175	6.6	10.8	4	0	f				
			2.5			8.0	460	180	6.5	11.9	3						
			3	0/30	80	8.0	467	200	6.3	12.1	4						
B94828	backup N-10325	11	0	0/20	35	8.7	156	345	6.7	9.7	50	0	f				
18-Jan			0.5			8.5	151	345	6.2	11.2	30						
11:50			1	0/20	30	8.3	145	340	6.1	13.5	15	35	h				
			1.5			8.4	154	345	6.1	12.7	6						
			2	0/25	35	8.1	162	340	6.1	11.4	4	0	f				
			2.5			8.3	159	330	6.3	11.9	5						
			3	0/20	30	8.4	164	330	6.1	12.1	5	XX					
B94825	N-10328	14	0	0/15	80	7.6	317	265	6.9	12.0	>100	0	f				
18-Jan			0.5			7.4	203	295	6.7	11.9	>100						
9:45			1	0/20	45	7.4	239	305	6.2	12.5	>100	37	h				
			1.5			7.3	263	305	6.0	14.1	>100						
			2	0/15	60	7.2	280	310	5.9	14.0	>100	0	f	filtered			
			2.5			7.1	243	320	5.9	13.9	>100						
			3	0/20	55	7.3	261	330	6.0	13.9	>100	XX					
B94827	N-10470	15	0	0/20	45	12.6	357	270	6.5	11.3	>100	0	f				
17-Jan			0.5			12.9	330	275	6.8	14.3	>100						
14:30			1	0/15	55	12.6	327	280	6.6	13.7	>100	51	h				
			1.5			12.6	331	285	6.4	14.6	>100						
			2	0/15	65	12.6	328	290	5.5	14.5	>100	0	f				
			2.5			12.6	328	285	5.5	14.5	>100						
			3	0/15	50	12.5	329	285	5.5	14.3	>100	58	h				
B94818	N-10474	17	0	0/35	70	3.5	335	280	6.8	12.7	>100	>65		7.6	360	0	no
13-Jan			0.5			4.5	339	285	5.9	14.5	>100						
16:35			1	0/20	60	4.3	333	280	5.7	14.9	>100	XX					
			1.5			4.5	331	290	5.7	15.5	>100						
			2	0/25	65	4.3	327	285	5.6	15.3	70	64					
			2.5			4.5	326	285	5.6	15.6	40						
			3	0/20	65	4.4	325	280	5.7	15.5	15	XX					
B94812	N-10477	18	0	0/25	100	2.5	535	315	5.1/5	15.0	>100	83		3.3	240	0	no
12-Jan			0.5			2.6	549	315	5.1	16.4	>100						
13:00			1	0/25	100/120	2.4	553	315	5.1	16.5	40	83					
			1.5			2.3	556	320	5.1	16.7	>100						
			2	0/20	115	2.4	556	315	5.1	16.5	>100	86					
			2.5			2.2	556	320	5.1	16.0	10						
			3	0/15	110	2.3	554	320	5.1	16.5	5	XX					
B94813	N-10478	19	0	0/20	35	2.3	211	60	5.5	14.1	25	43		3.3	340	0	no
12-Jan			0.5			4.5	207	225	5.2	14.9	5						
15:30			1	0/15	40	5.4	207	265	5.2	14.9	5	XX					
			1.5			5.2	207	270	5.1	14.9	5						
			2	0/10	20	5.5	207	290	5.1	14.9	4	43					
			2.5			5.5	206	300	5.1	15.0	4						
			3	0/10	35	5.5	206	280	5.1	14.8	5	XX					



Tab 1  
**Purge Chemistries**  
**January 2000**  
 (Page 3 of 3)

NYSDEC Greensheet Number	Well ID	Volume	Alkalinity	Chloride	Dissolved Oxygen	Conductivity	ORP	pH	Temperature	Turbidity	Hardness	Notes	Dissolved Oxygen	ORP	Fe <sup>2+</sup>	filtered?
B94820	N-11851	21	0	0/80	60	8.2	283	260	7.5	11.7	50	>80	6.9	285	0	no
14-Jan			0.5			7.7	234	255	7.5	13.6	5					
9:30			1	0/35	40	7.4	231	260	7.1	13.2	4	XX				
			1.5			7.7	231	260	6.8	13.3	3					
			2	0/30	35	7.5	232	265	6.6	13.3	3	51				
			2.5			7.5	234	270	6.6	13.6	3					
			3	0/40	35	7.6	234	265	6.5	13.6	4					
B94824	N-11855	23	0	0/30	70	4.3	450	175	5.8	12.0	>100	2.55	f	filtered		
18-Jan			0.5			3.1	390	150	5.7/5	13.6	15					
14.15			1	0/20	55	3.0	363	160	5.7	14.4	5	>60	h			
			1.5			3.2	351	165	5.7	14.5	5					
			2	0/20	55	3.1	345	155	5.7	14.2	4	2.4	f	filtered?		
			2.5			3.3	333	155	5.7	14.5	3					
			3	XX	XX	3.4	327	160	5.7	14.4	4					
B94829	N-11860	24	0	0/10	25	11.2	148	310	5.7	11.7	>100	0	f			
17-Jan			0.5			10.8	141	315	5.6	13.9	60					
16.20			1	0/10	30	10.7	141	315	5.4	14.0	4	41	h			
			1.5			10.7	140	315	5.4	14.1	5					
			2	0/10	30	10.8	140	315	5.4	14.4	4	0	f			
			2.5			10.8	141	315	5.5	14.2	4					
			3	0/10	30	10.7	140	315	5.3	14.3	4	XX				
B94821	N-9938	25	0	0/15	50	8.4	261	275	6.1	11.0	19	0	F	filtered		
14-Jan			0.5			8.2	415	280	5.2/5	14.2	15					
12.30			1	0/10	75	8.3	407	275	5.1	14.7	7	>80	H			
			1.5			8.5	409	280	5.1	14.7	5					
			2	0/10	80	8.4	390	300	5.1	14.5	4	0	F	filtered		
			2.5			8.5	399	305	5.1	14.7	4					
			3	0/10	75	8.6	405	310	5.1	14.6	3	0	F	unfiltered		
B94804	NRMW-1	26	0	0/15	20	8.6	117	305	8.9	13.4	>100	44	6.6	345	0	no
11-Jan			0.5			8.4	151	320	5.1/5	14.5	>100					
9.45			1	0/10	25	8.4	152	330	5.1	14.2	>100	40				
			1.5			8.4	150	335	4.9/4	14.3	50					
			2	0/10	20	8.3	151	345	4.8	14.3	45	40				
			2.5			7.5	151	350	4.9	14.7	7					
			3	0/5	20	8.1	151	355	4.8	14.4	5	41				
B94805	NRMW-2	27	0	0/15	30	8.3	224	345	4.8/4	14.4	>100	65	6.8	405	0	no
11-Jan			0.5			8.1	228	355	4.7	14.9	12					
13.45			1	0/10	30	8.5	228	375	4.7	14.9	7	58				
			1.5			8.5	225	375	4.7	15.0	>100					
			2	0/5	35	8.4	228	375	4.6	15.2	9	59				
			2.5			8.4	227	375	4.6	15.3	5					
			3	0/10	35	8.4	226	375	4.5	15.3	55	58				
B94806	NRMW-3	28	0	0/25	20	7.5	89	235	6.3	14.1	>100	17	7.5	115	0	no
11-Jan			0.5			7.8	88	235	6.3	14.3	40					
12.00			1	0/15	15	7.7	82	240	6.2	14.6	>100	16				
			1.5			7.8	89	250	6.8	14.7	7					
			2	0/15	20	7.6	89	250	6.2	14.8	60	18				
			2.5			7.6	89	265	6.3	15.2	5					
			3	0/20	20	7.8	89	275	6.4	15.1	5	15				
B94807	NRMW-4	29	0	NA	NA	7.9	85	305	5.5	13.4	>100	NA	8.4	405	0	no
11-Jan			0.5			8.5	80	315	5.1	14.6	>100					
15.30			1	0/10 0/20	15 20	8.5	79	330	5.4	13.9	17	25	high turned red, not pink/turned dark brown			
			1.5			8.4	77	325	5.1	14.2	60					
			2	0/10	15	8.5	79	335	5.1	14.6	10	25				
			2.5			8.4	77	330	5.1	14.3	60					
			3	0/10	20	8.4	77	325	5.5	14.4	7	27				

Table D-4  
Well Sampling List  
January 2000

NYSDEC sample #	Well ID	depth	date	time	NOTES	
B94803	BD of EW-2C		10-Jan	17:00		
B94801	EW-1C	500	10-Jan	13:30	4"	dedicated MS/MSD
B94802	EW-2C	500	10-Jan	16:20	4"	dedicated BD B94803 17:00
B94808	TB-1		10-Jan	X		
B94804	NRMW-1	70.36	11-Jan	9:45		Grundfos
B94805	NRMW-2	70.2	11-Jan	13:45		Grundfos
B94806	NRMW-3	70.9	11-Jan	12:00		Grundfos
B94807	NRMW-4	70.6	11-Jan	15:30		Grundfos
B94810	FSMW-7A	70	12-Jan	9:15		Grundfos
B94811	FSMW-7B	148	12-Jan	10:55		Grundfos
B94812	N-10477	62.5	12-Jan	13:00		Grundfos
B94813	N-10478	121	12-Jan	15:30	4"	Grundfos
B94809	TB-2		12-Jan	X		
B94816	EW-1B	164	13-Jan	13:00	4"	Grundfos
B94817	EW-2B	142	13-Jan	15:15	4"	Grundfos
B94814	FSMW-6A	70	13-Jan	9:45		Grundfos
B94815	FSMW-6B	149	13-Jan	11:00		Grundfos
B94818	N-10474	60	13-Jan	16:45		Grundfos
B94819	TB-3		13-Jan	X		
B94820	N-11851	62.5	14-Jan	9:30		Whale
B94821	N-9938	70.56	14-Jan	12:30		Grundfos
B94823	FLMW-205B	110	17-Jan			Grundfos
B94827	N-10470	64.9	17-Jan	14:30		Whale
B94829	N-11860	60.15	17-Jan	16:20		Whale
B94822	TB-4		17-Jan	X		not submitted
B94826	N-10324	57	18-Jan	15:45		bailer
B94828	N-10325	55.3	18-Jan	11:50		bailer
B94825	N-10328	53.8	18-Jan	9:45		bailer
B94824	N-11855	60.25	18-Jan	14:15		Whale
iced in	N-10326	57.2				
iced in	N-10327	54.95				
iced in	N-10472	62				
backup	N-11850	65				
loose	N-11852	100				
	Total number of wells sampled = 24					

**APPENDIX E**  
**ANALYTICAL LABORATORY DATA SUMMARY SHEETS**



# H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES  
SAMPLES RECEIVED: 4/13 & 15/99  
CONTRACT: C003786  
CASE: RA-098  
SDG #: 0127

For Samples:

ANSON MW-8	N-10464	N-11850	TRIP BLANK
N-9938	N-10465	N-11854	FLMW-204B
N-9939	N-10470	N-11855	N-10328MS/MSD
N-10322	N-10477	N-11862	
N-10325	N-10478	NYT MW-3	
N-10326	N-10479	UN-16	

The above samples were analyzed according to the requirements of the NYS DECASP 10/95 method 95-1 for the TCL volatile organic analytes.


Sample N-10328 was analyzed as the matrix spike/matrix spike duplicate sample. All percent recoveries in the MS/MSD were within the QC limits. Several RPD's were slightly high. All percent recoveries were within QC limits for the matrix spike blank.

Samples N-10470 and N-10328 were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

All quality control and calibration requirements were met

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

Date Reported: May 5, 1999

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\*  \*  
\* \*\*\*\*\*  
Joann M. Slavin  
Quality Assurance Manager

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S 0016

# H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES  
CONTRACT: C003786  
CASE NO.: RA098  
SDG NO.: 0127A  
SAMPLES RECEIVED: 4/15 & 4/16/99

For Samples:

FLMW-205B	N-10471 MS/MSD	N-11851
N-72301	N-10472	N-11852
N-92301	N-10474	N-11858
N-10324	N-10475	TRIP BLANK 4/14
N-10327	N-10476	TRIP BLANK 4/15
N-10329	N-11848	EW-1B
N-10459	N-11849	EW-2B

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

Sample N-10471 was analyzed as the matrix spike/matrix spike duplicate sample. All percent recoveries and RPD's were met.

Due to concentration levels above the calibration range, samples EW-1B and EW-2B were reanalyzed at a dilution. Both sets of data are submitted.

All quality control and calibration requirements were met.

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

Date Reported: May 11, 1999

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Joann M. Slavin  
Quality Assurance Manager

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANSON MW-8

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910142  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22795.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U

S 0020

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW-1B

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910428  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22861.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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 <sup>d</sup>		27	
75-34-4	1,1-Dichloroethane		5	J
540-59-0	1,2-Dichloroethene (total)		63	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		51	
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		75	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		610	E
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-88-3	Toluene		3	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		2	J
1330-20-7	Xylene (total)		5	J

not EW-1B BL



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW-1BDL

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910428DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22874.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 50.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl Chloride	500	U
75-00-3	Chloroethane	500	U
75-09-2	Methylene Chloride	500	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	500	U
75-34-4	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	59	JD
78-93-3	2-Butanone	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	71	JD
71-43-2	Benzene	500	U
124-48-1	Dibromochloromethane	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	620	D
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
1330-20-7	Xylene (total)	500	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW-1C

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910968  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22863.D  
 Level: (low/med) LOW Date Received: 04/21/99  
 % Moisture: not dec. Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
67-84-1	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
640-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-86-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-97-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		9	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0021

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW-2B

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910429  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22862.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	130		
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	9		J
75-34-4	1,1-Dichloroethane	3		J
540-59-0	1,2-Dichloroethene (total)	65		
78-93-3	2-Butanone	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	2		J
71-55-6	1,1,1-Trichloroethane	6		J
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	230		E
71-43-2	Benzene	10		U
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
79-00-5	1,1,2-Trichloroethane	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	31		
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	6		J
108-90-7	Chlorobenzene	3		J
100-41-4	Ethylbenzene	1		J
100-42-5	Styrene	2		J
1330-20-7	Xylene (total)	6		J

USE EW-2B DL

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**EW-2BDL**

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910429DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22875.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 2.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		20	U
74-83-9	Bromomethane		20	U
75-01-4	Vinyl Chloride		110	D
75-00-3	Chloroethane		20	U
75-09-2	Methylene Chloride		20	U
67-64-1	Acetone		20	U
75-15-0	Carbon Disulfide		20	U
75-35-4	1,1-Dichloroethene*		8	JD
75-34-4	1,1-Dichloroethane		3	JD
540-59-0	1,2-Dichloroethene (total)		62	D
78-93-3	2-Butanone		20	U
67-66-3	Chloroform		20	U
107-06-2	1,2-Dichloroethane		20	U
71-55-6	1,1,1-Trichloroethane		6	JD
56-23-5	Carbon Tetrachloride		20	U
75-27-4	Bromodichloromethane		20	U
78-87-5	1,2-Dichloropropane		20	U
10061-01-5	cis-1,3-Dichloropropene		20	U
79-01-6	Trichloroethene		220	D
71-43-2	Benzene		20	U
124-48-1	Dibromochloromethane		20	U
10061-02-6	trans-1,3-Dichloropropene		20	U
79-00-5	1,1,2-Trichloroethane		20	U
75-25-2	Bromoform		20	U
108-10-1	4-Methyl-2-Pentanone		20	U
591-78-6	2-Hexanone		20	U
127-18-4	Tetrachloroethene		27	D
79-34-5	1,1,2,2-Tetrachloroethane		20	U
108-88-3	Toluene		6	JD
108-90-7	Chlorobenzene		3	JD
100-41-4	Ethylbenzene		20	U
100-42-5	Styrene		2	JD
1330-20-7	Xylene (total)		5	JD

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW-02C

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910969  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22864.D  
 Level: (low/med) LOW Date Received: 04/21/99  
 % Moisture: not dec. Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

FORM I VOA

S 0023

3/90

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLM204B

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910364  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22826.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		1	J
75-34-3	1,1-Dichloroethane		1	J
540-59-0	1,2-Dichloroethene (total)		7	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		6	J
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		46	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
106-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		52	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLMW-205B

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910367  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22852.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		17	
75-34-4	1,1-Dichloroethane		11	
540-59-0	1,2-Dichloroethene (total)		16	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		64	
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		67	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		110	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10321

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910970  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22865.D  
 Level: (low/med) LOW Date Received: 04/21/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		6	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		7	J
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	Xylene (total)		10	U

S 0025



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10322

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910145  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22799.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		5	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		12	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	Xylene (total)		10	U

S 0023

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10324

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910370  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22833.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene *		2	J
75-34-4	1,1-Dichloroethane		5	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		47	
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		13	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		18	
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-88-3	Toluene		2	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		3	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10325

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910146  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22800.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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		2	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		42	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	Xylene (total)		10	U

S 0030

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10326

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910147  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22801.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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		7	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		110	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		42	
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		11	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		89	
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	Xylene (total)		10	U

S 0032

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10327

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910371  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22825.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene*		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		3	J
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10328

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910365  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22827.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		63	
75-34-3	1,1-Dichloroethane		36	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		670	E
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		4	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0034

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10328DL

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910365DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22851.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		54	D
75-34-3	1,1-Dichloroethane		31	JD
540-59-0	1,2-Dichloroethene (total)		50	U
78-93-3	2-Butanone		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
71-55-6	1,1,1-Trichloroethane		540	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		50	U
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

S 0036

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10329

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910372  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22834.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502, ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10459

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910373  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22835.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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		2	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10462
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Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C

Matrix: (soil/water) WATER Lab Sample ID: 8910971

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22866.D

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		14	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10464

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910148  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22802.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0038

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10465

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910149  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22803.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U

S 0040

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10470

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910150  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22804.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		19	
75-09-2	Methylene Chloride		1	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		500	E
75-34-3	1,1-Dichloroethane		520	E
540-59-0	1,2-Dichloroethene (total)		18	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		3	J
71-55-6	1,1,1-Trichloroethane		4100	E
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		51	
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	Xylene (total)		10	U

USE N 10470 B  
USE N 10470 D

USE N 10470 C

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10470DL

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910150DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22822.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 100.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1000	U
74-83-9	Bromomethane		1000	U
75-01-4	Vinyl Chloride		1000	U
75-00-3	Chloroethane		1000	U
75-09-2	Methylene Chloride		1000	U
67-64-1	Acetone		330	JBD
75-15-0	Carbon Disulfide		1000	U
75-35-4	1,1-Dichloroethene		420	JD
75-34-3	1,1-Dichloroethane		460	JD
540-59-0	1,2-Dichloroethene (total)		1000	U
78-93-3	2-Butanone		1000	U
67-66-3	Chloroform		1000	U
107-06-2	1,2-Dichloroethane		1000	U
71-55-6	1,1,1-Trichloroethane		9600	D
56-23-5	Carbon Tetrachloride		1000	U
75-27-4	Bromodichloromethane		1000	U
78-87-5	1,2-Dichloropropane		1000	U
10061-01-5	cis-1,3-Dichloropropene		1000	U
79-01-6	Trichloroethene		1000	U
71-43-2	Benzene		1000	U
124-48-1	Dibromochloromethane		1000	U
10061-02-6	trans-1,3-Dichloropropene		1000	U
79-00-5	1,1,2-Trichloroethane		1000	U
75-25-2	Bromoform		1000	U
108-10-1	4-Methyl-2-Pentanone		1000	U
591-78-6	2-Hexanone		1000	U
127-18-4	Tetrachloroethene		1000	U
79-34-5	1,1,2,2-Tetrachloroethane		1000	U
108-88-3	Toluene		1000	U
108-90-7	Chlorobenzene		1000	U
100-41-4	Ethylbenzene		1000	U
100-42-5	Styrene		1000	U
1330-20-7	Xylene (total)		1000	U

S 0044

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10471

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910374  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22836.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		1	J
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10472

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910375  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22839.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		4	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		1	J
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10474

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910376  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22840.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		9	J
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		2	J
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		2	J
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		7	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		1	J
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		8	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10475

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910377  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22841.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		6	JB
75-15-0	Carbon Disulfide *		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10476

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910378  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22842.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		1	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10477

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910151  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22805.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	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)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
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	Xylene (total)		10	U

S 0046

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10478

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910152  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22806.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
106-10-i	4-methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		1	J
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	Xylene (total)		10	U

S 0043

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10479

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910153  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22807.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0050

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11848

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910379  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22843.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	JB
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11849

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910380  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22844.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502, ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10850

N-11850

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910154  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22808.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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 <sup>d</sup>		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		1	J
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		12	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		13	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		35	
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	Xylene (total)		10	U

S 0052

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11851

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A

Matrix: (soil/water) WATER Lab Sample ID: 9910381

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22856.D

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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		2	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**N-11852**

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910382  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22857.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		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		7	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10854

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127

Matrix: (soil/water) WATER Lab Sample ID: 9910155

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22809.D

Level: (low/med) LOW Date Received: 04/13/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

N-11854

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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 <sup>†</sup>		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U

S 0054

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10855

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127

Matrix: (soil/water) WATER Lab Sample ID: 9910156

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22810.D

Level: (low/med) LOW Date Received: 04/13/99

% Moisture: not dec. Date Analyzed: 04/19/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

N-11855

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		13	
75-34-3	1,1-Dichloroethane		4	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		190	
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xyiene (total)		10	U

S 0056

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11858

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910383  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22858.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11859
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Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C

Matrix: (soil/water) WATER Lab Sample ID: 9910972

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22867.D

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0029

FORM I VOA

3/90

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11860
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Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910431  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22823.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	JB
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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		5	J
107-06-2	1,2-Dichloroethane		10	U
71-65-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

FORM I VOA

S 0031

3/90



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-11861
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Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910432  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22824.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropane		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-10862

N-11862

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910157  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22811.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0053

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-9938

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910143  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22798.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		21	
75-34-3	1,1-Dichloroethane		27	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		170	
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		12	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		8	J
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	Xylene (total)		10	U

S 0024

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-9939

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910144  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22797.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
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	Xylene (total)		10	U

S 0026

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C  
 Matrix: (soil/water) WATER Lab Sample ID: 9910433  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22791.D  
 Level: (low/med) LOW Date Received: 04/16/99  
 % Moisture: not dec. Date Analyzed: 04/19/99  
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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)		130	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		4	J
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		69	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		4	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NRMW-1
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Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C

Matrix: (soil/water) WATER Lab Sample ID: 9910973

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22868.D

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
75-15-0	Carbon Disulfide		10	U
76-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Tetrachloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NRMW-2
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Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C

Matrix: (soil/water) WATER Lab Sample ID: 9910974

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22869.D

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	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)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		1	J
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromofom		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NRMW-03
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Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127C

Matrix: (soil/water) WATER Lab Sample ID: 9910975

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22870.D

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/22/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
640-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	1	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-72301

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910368  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22831.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		3	J
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-92301

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127A  
 Matrix: (soil/water) WATER Lab Sample ID: 9910369  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22832.D  
 Level: (low/med) LOW Date Received: 04/15/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/21/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NYT MW-3

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910158  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22812.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

S 0060

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

UN-16

Lab Name: H2M LABS, INC. Contract: C003786  
 Lab Code: 10478 Case No.: RA098 SAS No.: NDEC SDG No.: 0127  
 Matrix: (soil/water) WATER Lab Sample ID: 9910159  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A22813.D  
 Level: (low/med) LOW Date Received: 04/13/99  
 % Moisture: not dec. Date Analyzed: 04/19/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
540-59-0	1,2-Dichloroethene (total)		32	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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		34	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		66	
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	Xylene (total)		10	U

S 0062

# H2M LABS, INC.

## SDG NARRATIVE FOR VOLATILES

CONTRACT: C003786

CASE: RA099

SDG: 0809

SAMPLES RECEIVED: 8/10 - 8/24/99

For Samples:

EW-1B	N-10323/B94817	B94832	B94847 (N-11849)
EW-1C	N-10324/B94818	B94833	B94848 (N-10471D)
EW-2B	N-10472/B94819	B94834	B94849 (N-10471S)
EW-2C	TB-2	B94835	B94850 (N-10327)
NRMW-1	B94820	B94836	B94851 (N-FLMW-205B)
NRMW-2	B94821	B94837	B94852 (N-10325)
NRMW-3	B94822 MS/MSD	B94838	B94853 (N-11855)
N-11861	B94825	B94839 (TB-5)	B94854 (TB-6)
N-9937	B94826	B94840 (N-11852)	B94855 (N-11860)
N-9938 MS/MSD	B94827	B94841 (N-11851)	B94856 (N-11858)
N-9939	B94828	B94842 (N-10470)	B94857 (N-10464)
TB-1	B94829	B94843 (N-10328)	B94858 (N-10465)
N-10459/B94814	B94830	B94844 (N-10326)	B94859 (N-10322)
N-10329/B94815	B94831	B94845 (ANSON MW-8)	B94860 (UN-23)
N-10462/B94816		B94846 (N-10476)	

The above samples were analyzed according to the requirements of the NYS DEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

Samples B94822 and N-9938 were analyzed as the matrix spike/matrix spike duplicate samples. All percent recovery and RPD criteria were met except for the RPD of 1,1-dichloroethene in sample N-9938 at 15% (limit 14%).

Due to concentration levels of targeted analytes above the calibration range the following samples required reanalysis at a dilution: B94842, B94843, B94844, B94853, EW1B, N9937 and N9938. Both sets of data are submitted.

All quality control and calibration requirements were met.

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

Date Reported: September 27, 1998

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Joann M. Slavin  
Quality Assurance Manager

S 0030

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94825

Lab Name: H2M LABS,INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924246  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24324.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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)		7	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		3	J
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		42	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		43	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94826

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924247  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24325.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		1	J
540-59-0	1,2-Dichloroethene (total)		32	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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		36	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		96	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94827

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924248  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24326.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94828

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924249  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24327.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94829

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924250  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24328.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94830

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924251  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24329.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		6	J
75-34-3	1,1-Dichloroethane		8	J
540-59-0	1,2-Dichloroethene (total)		3	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		43	
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		6	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		47	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94831

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924252  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24330.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		9	J
75-34-3	1,1-Dichloroethane		1	J
540-59-0	1,2-Dichloroethene (total)		20	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		23	
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		18	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		41	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94832

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924429  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1390.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94833

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924430  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1391.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(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	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	1	J	
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	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94834

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924431  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1392.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		14	
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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10051-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94835**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924432  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1393.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94836

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924433  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1394.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		20	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94837

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924434  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1395.D  
 Level: (low/med) LOW Date Received: 08/18/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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)		100	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		4	J
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		73	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		5	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94838

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9924435

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1396.D

Level: (low/med) LOW Date Received: 08/18/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		3	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94839

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9924671

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1397.D

Level: (low/med) LOW Date Received: 08/20/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94840

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924672  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1398.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		4	J
540-59-0	1,2-Dichloroethene (total)		17	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		3	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		4	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94841

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924673  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1399.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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		3	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94842

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9924674

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1400.D

Level: (low/med) LOW Date Received: 08/20/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		68	
75-09-2	Methylene Chloride		3	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		1400	E
75-34-3	1,1-Dichloroethane		1300	E
540-59-0	1,2-Dichloroethene (total)		13	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		8	J
71-55-6	1,1,1-Trichloroethane		6000	E
56-23-5	Carbon Tetrachloride		910	E
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		7	J
71-43-2	Benzene		2	J
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		27	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94842DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924674DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1445.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 500.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		5000	U
74-83-9	Bromomethane		5000	U
75-01-4	Vinyl Chloride		5000	U
75-00-3	Chloroethane		5000	U
75-09-2	Methylene Chloride		5000	U
67-64-1	Acetone		5000	U
75-15-0	Carbon Disulfide		5000	U
75-35-4	1,1-Dichloroethene		1400	JD
75-34-3	1,1-Dichloroethane		1700	JD
540-59-0	1,2-Dichloroethene (total)		5000	U
78-93-3	2-Butanone		5000	U
67-66-3	Chloroform		5000	U
107-06-2	1,2-Dichloroethane		5000	U
71-55-6	1,1,1-Trichloroethane		26000	D
56-23-5	Carbon Tetrachloride		5000	U
75-27-4	Bromodichloromethane		5000	U
78-87-5	1,2-Dichloropropane		5000	U
10061-01-5	cis-1,3-Dichloropropene		5000	U
79-01-6	Trichloroethene		5000	U
71-43-2	Benzene		5000	U
124-48-1	Dibromochloromethane		5000	U
10061-02-6	trans-1,3-Dichloropropene		5000	U
79-00-5	1,1,2-Trichloroethane		5000	U
75-25-2	Bromoform		5000	U
108-10-1	4-Methyl-2-Pentanone		5000	U
591-78-6	2-Hexanone		5000	U
127-18-4	Tetrachloroethene		5000	U
79-34-5	1,1,2,2-Tetrachloroethane		5000	U
108-88-3	Toluene		5000	U
108-90-7	Chlorobenzene		5000	U
100-41-4	Ethylbenzene		5000	U
100-42-5	Styrene		5000	U
1330-20-7	Xylene (total)		5000	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94843

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924675  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1401.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		58	
75-34-3	1,1-Dichloroethane		28	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	J
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		630	E
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		2	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94843DL**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924675DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1446.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 5.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		32	JD
75-34-3	1,1-Dichloroethane		19	JD
540-59-0	1,2-Dichloroethene (total)		50	U
78-93-3	2-Butanone		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
71-55-6	1,1,1-Trichloroethane		320	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		50	U
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94844

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924676  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1402.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		9	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		270	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		50	
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		18	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		160	
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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94844DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924676DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1447.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 2.5  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		25	U
74-83-9	Bromomethane		25	U
75-01-4	Vinyl Chloride		25	U
75-00-3	Chloroethane		25	U
75-09-2	Methylene Chloride		25	U
67-64-1	Acetone		25	U
75-15-0	Carbon Disulfide		25	U
75-35-4	1,1-Dichlorobethene		6	JD
75-34-3	1,1-Dichloroethane		3	JD
540-59-0	1,2-Dichloroethene (total)		210	D
78-93-3	2-Butanone		25	U
67-66-3	Chloroform		25	U
107-06-2	1,2-Dichloroethane		25	U
71-55-6	1,1,1-Trichloroethane		32	D
56-23-5	Carbon Tetrachloride		25	U
75-27-4	Bromodichloromethane		25	U
78-87-5	1,2-Dichloropropane		25	U
10061-01-5	cis-1,3-Dichloropropene		25	U
79-01-6	Trichloroethene		14	JD
71-43-2	Benzene		25	U
124-48-1	Dibromochloromethane		25	U
10061-02-6	trans-1,3-Dichloropropene		25	U
79-00-5	1,1,2-Trichloroethane		25	U
75-25-2	Bromoform		25	U
108-10-1	4-Methyl-2-Pentanone		25	U
591-78-6	2-Hexanone		25	U
127-18-4	Tetrachloroethene		120	D
79-34-5	1,1,2,2-Tetrachloroethane		25	U
108-88-3	Toluene		25	U
108-90-7	Chlorobenzene		25	U
100-41-4	Ethylbenzene		25	U
100-42-5	Styrene		25	U
1330-20-7	Xylene (total)		25	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94844**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924676  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1402.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		9	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		270	E
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		50	
58-23-5	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		18	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		160	
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	Xylene (total)		10	U

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*11/2/99*

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94844**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924676  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1402.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		9	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		270	E
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		50	
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		18	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		180	
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	Xylene (total)		10	U

*31/11/99*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94845**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924677  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1403.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		3	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94846

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924678  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1404.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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)		1	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94847**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924679  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1405.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94848**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924680  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1406.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		6	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)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94849**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924681  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1407.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
75-34-3	1,1-Dichloroethane		8	J
540-59-0	1,2-Dichloroethene (total)		17	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		23	
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		4	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		19	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94850**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924682  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1408.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		4	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		1	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94851**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924683  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1409.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		14	
75-34-3	1,1-Dichloroethane		7	J
540-59-0	1,2-Dichloroethene (total)		46	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		32	
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		100	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		130	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94852**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924684  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1410.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/L</u>	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)		3	J
78-93-3	2-Butanone		4	J
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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		5	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		33	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94853

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924685  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1411.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/23/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		20	
75-34-3	1,1-Dichloroethane		5	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		6	J
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		260	E
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		2	J
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	Xylene (total)		3	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94853DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924685DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1448.D  
 Level: (low/med) LOW Date Received: 08/20/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 10.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		100	U
74-83-9	Bromomethane		100	U
75-01-4	Vinyl Chloride		100	U
75-00-3	Chloroethane		100	U
75-09-2	Methylene Chloride		100	U
67-64-1	Acetone		100	U
75-15-0	Carbon Disulfide		100	U
75-35-4	1,1-Dichloroethene		25	JD
75-34-3	1,1-Dichloroethane		100	U
540-59-0	1,2-Dichloroethene (total)		100	U
78-93-3	2-Butanone		100	U
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane		100	U
71-55-6	1,1,1-Trichloroethane		320	D
56-23-5	Carbon Tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		100	U
71-43-2	Benzene		100	U
124-48-1	Dibromochloromethane		100	U
10061-02-6	trans-1,3-Dichloropropene		100	U
79-00-5	1,1,2-Trichloroethane		100	U
75-25-2	Bromoform		100	U
108-10-1	4-Methyl-2-Pentanone		100	U
591-78-6	2-Hexanone		100	U
127-18-4	Tetrachloroethene		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-88-3	Toluene		100	U
108-90-7	Chlorobenzene		100	U
100-41-4	Ethylbenzene		100	U
100-42-5	Styrene		100	U
1330-20-7	Xylene (total)		100	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94854

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9924968

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1486.D

Level: (low/med) LOW Date Received: 08/24/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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	3	J
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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94855

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9924969

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1493.D

Level: (low/med) LOW Date Received: 08/24/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		3	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		1	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94857

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924971  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1489.D  
 Level: (low/med) LOW Date Received: 08/24/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94856

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924970  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1488.D  
 Level: (low/med) LOW Date Received: 08/24/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		1	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94858

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924972  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1490.D  
 Level: (low/med) LOW Date Received: 08/24/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94859

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924973  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1491.D  
 Level: (low/med) LOW Date Received: 08/24/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		6	J
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		2	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		19	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94860

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924974  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F1492.D  
 Level: (low/med) LOW Date Received: 08/24/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/99  
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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)		7	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		1	J
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		11	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		21	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW1B

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923516  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24289.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		33	
75-34-3	1,1-Dichloroethane		5	J
540-59-0	1,2-Dichloroethene (total)		68	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		56	
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		90	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		750	E
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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW1BDL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923516DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24297.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		31	JD
75-34-3	1,1-Dichloroethane		5	JD
540-59-0	1,2-Dichloroethene (total)		68	D
78-93-3	2-Butanone		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
71-55-6	1,1,1-Trichloroethane		54	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		88	D
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		780	D
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**EW1C**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923517  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24293.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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	
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**EW2B**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923518  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24294.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		53	
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		7	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		32	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		1	J
71-55-6	1,1,1-Trichloroethane		7	J
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		130	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		20	
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-88-3	Toluene		10	U
108-90-7	Chlorobenzene		2	J
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW2C

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923519  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24295.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N11861

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9923523

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24301.D

Level: (low/med) LOW Date Received: 08/10/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N9937

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923524  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24302.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		39	
75-34-3	1,1-Dichloroethane		48	
540-59-0	1,2-Dichloroethene (total)		2	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		2	J
71-55-6	1,1,1-Trichloroethane		300	E
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		29	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		14	
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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N9937DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923524DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24317.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 2.5  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		25	U
74-83-9	Bromomethane		25	U
75-01-4	Vinyl Chloride		25	U
75-00-3	Chloroethane		25	U
75-09-2	Methylene Chloride		25	U
67-64-1	Acetone		25	U
75-15-0	Carbon Disulfide		25	U
75-35-4	1,1-Dichloroethene		40	D
75-34-3	1,1-Dichloroethane		49	D
540-59-0	1,2-Dichloroethene (total)		25	U
78-93-3	2-Butanone		25	U
67-66-3	Chloroform		25	U
107-06-2	1,2-Dichloroethane		25	U
71-55-6	1,1,1-Trichloroethane		320	D
56-23-5	Carbon Tetrachloride		25	U
75-27-4	Bromodichloromethane		25	U
78-87-5	1,2-Dichloropropane		25	U
10061-01-5	cis-1,3-Dichloropropene		25	U
79-01-6	Trichloroethene		31	D
71-43-2	Benzene		25	U
124-48-1	Dibromochloromethane		25	U
10061-02-6	trans-1,3-Dichloropropene		25	U
79-00-5	1,1,2-Trichloroethane		25	U
75-25-2	Bromoform		25	U
108-10-1	4-Methyl-2-Pentanone		25	U
591-78-6	2-Hexanone		25	U
127-18-4	Tetrachloroethene		15	JD
79-34-5	1,1,2,2-Tetrachloroethane		25	U
108-88-3	Toluene		25	U
108-90-7	Chlorobenzene		25	U
100-41-4	Ethylbenzene		25	U
100-42-5	Styrene		25	U
1330-20-7	Xylene (total)		25	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N9938

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923525  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24292.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

CAS NO.	COMPOUND	(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		2	J
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		44	
75-34-3	1,1-Dichloroethane		51	
540-59-0	1,2-Dichloroethene (total)		2	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		2	J
71-55-6	1,1,1-Trichloroethane		320	E
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		31	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		15	
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	Xylene (total)		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N9938DL

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809

Matrix: (soil/water) WATER Lab Sample ID: 9923525DL

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24298.D

Level: (low/med) LOW Date Received: 08/10/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 2.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		20	U
74-83-9	Bromomethane		20	U
75-01-4	Vinyl Chloride		20	U
75-00-3	Chloroethane		20	U
75-09-2	Methylene Chloride		20	U
67-64-1	Acetone		20	U
75-15-0	Carbon Disulfide		20	U
75-35-4	1,1-Dichloroethene		33	D
75-34-3	1,1-Dichloroethane		46	D
540-59-0	1,2-Dichloroethene (total)		20	U
78-93-3	2-Butanone		20	U
67-66-3	Chloroform		20	U
107-06-2	1,2-Dichloroethane		2	JD
71-55-6	1,1,1-Trichloroethane		280	D
56-23-5	Carbon Tetrachloride		20	U
75-27-4	Bromodichloromethane		20	U
78-87-5	1,2-Dichloropropane		20	U
10061-01-5	cis-1,3-Dichloropropene		20	U
79-01-6	Trichloroethene		27	D
71-43-2	Benzene		20	U
124-48-1	Dibromochloromethane		20	U
10061-02-6	trans-1,3-Dichloropropene		20	U
79-00-5	1,1,2-Trichloroethane		20	U
75-25-2	Bromoform		20	U
108-10-1	4-Methyl-2-Pentanone		20	U
591-78-6	2-Hexanone		20	U
127-18-4	Tetrachloroethene		14	JD
79-34-5	1,1,2,2-Tetrachloroethane		20	U
108-88-3	Toluene		20	U
108-90-7	Chlorobenzene		20	U
100-41-4	Ethylbenzene		20	U
100-42-5	Styrene		20	U
1330-20-7	Xylene (total)		20	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N9939

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923526  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24303.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	2	J
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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NRMW1

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923520  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24296.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**NRMW2**

Lab Name: H2M LABS,INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923521  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24299.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NRMW3

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923522  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24300.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB1

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923527  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24304.D  
 Level: (low/med) LOW Date Received: 08/10/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**TB2**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923882  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24311.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	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)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94814

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923876  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24305.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94815

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923877  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24306.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/L</u>	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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94816

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923878  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24307.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		8	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94817

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923879  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24308.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		45	
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		22	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		26	
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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94818

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923880  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24309.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-34-3	1,1-Dichloroethane		3	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		42	
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		21	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		24	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94819

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9923881  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24310.D  
 Level: (low/med) LOW Date Received: 08/13/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/17/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94820

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924243  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24319.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)                      UG/L                      Q

CAS NO.	COMPOUND	(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
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94821

Lab Name: H2M LABS,INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924244  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24320.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		20	
75-34-3	1,1-Dichloroethane		7	J
540-59-0	1,2-Dichloroethene (total)		2	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		1	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		97	
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		20	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		11	
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	Xylene (total)		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94822

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA099 SAS No.: \_\_\_\_\_ SDG No.: 0809  
 Matrix: (soil/water) WATER Lab Sample ID: 9924245  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A24321.D  
 Level: (low/med) LOW Date Received: 08/17/99  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/18/99  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	Xylene (total)	10	U



# H2M LABS, INC.

## SDG NARRATIVE FOR VOLATILE ORGANICS

CONTRACT #: C003786

CASE #: RA000

SDG #: 0110

SAMPLES RECEIVED: 1/11, 1/13, 1/14 & 1/18/00

For Samples:

B94801	B94808 (TB-1)	B94815	B94823
B94802	B94809	B94816	B94824
B94803	B94810	B94817	B94825
B94804	B94811	B94818	B94826
B94805	B94812	B94819	B94827
B94806	B94813	B94820	B94828
B94807	B94814	B94821	B94829

The above samples were analyzed according to the requirements of the NYSDWEC ASP 10/95 method 624 for the priority pollutant volatile organic analytes plus xylenes.

Sample B94801 was analyzed as the matrix spike/matrix spike duplicate. All percent recovery and RPD criteria were met.


Due to concentration levels of targeted analytes above the calibration range the following samples were reanalyzed at a dilution: B94816, B94824, B94825 and B94827. Both sets of data are submitted.

A lab fortified blank was analyzed. All percent recoveries were within QC limits except for a 69% recovery for methylene chloride in the LFB of 1/18 (lower limit 76%).

All other quality control and calibration requirements were met.

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

Date Reported: February 21, 2000

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Joann M. Slavin  
Quality Assurance Manager

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S 0048

# H2M LABS, INC.

## SDG NARRATIVE FOR GC VOLATILE ORGANICS

CONTRACT #: C003786

CASE #: RA000

SDG #: 0110

SAMPLES RECEIVED: 1/11, 1/13, 1/14 & 1/18/00

For Samples:

B94801	B94808 (TB-1)	B94815	B94823
B94802	B94809	B94816	B94824
B94803	B94810	B94817	B94825
B94804	B94811	B94818	B94826
B94805	B94812	B94819	B94827
B94806	B94813	B94820	B94828
B94807	B94814	B94821	B94829

The above samples were analyzed for dissolved methane ethane and ethene according to the requirements of method RSKSOP-175. The method employs analysis of headspace with back-calculation of the water concentration by means of the Henry's law. Parameters used in the computations are summarized in spreadsheets, and the formula is presented in Section IV under Calculation.

### QC DATA

No QC limits have been established due to insufficient number of data points. Surrogate recoveries for propene and spike recoveries for the lab fortified blank and the spiked sample duplicates indicate good method efficiency. Sample B94801 was analyzed as the matrix spike/matrix spike duplicate.

### CALIBRATION

The multi-point calibrations showed linear responses.

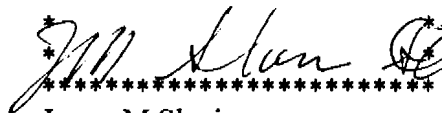
### SAMPLE ANALYSIS

No problems were encountered.

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

Date Reported: February 21, 2000

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Joann M. Slavin  
Quality Assurance Manager

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S 0049

# H2M LABS, INC.

## SDG NARRATIVE FOR METALS

CONTRACT #: C003786

CASE #: RA000

SDG #: 0110

SAMPLES RECEIVED: 1/11, 1/13, 1/14 & 1/18/00

For Samples:

B94801	B94806	B94813	B94818	B94825
B94802	B94807	B94814	B94819	B94826
B94803	B94810	B94815	B94820	B94827
B94804	B94811	B94816	B94823	B94828
B94805	B94812	B94817	B94824	B94829

Twenty five water samples were received by H2M Labs, Inc. on 1/11, 1/13, 1/14 & 1/18/00 for arsenic, iron and manganese metals analysis.

The samples were prepared and analyzed using the following method: ICP analysis was performed on a TJA61E Trace Analyzer using method 6010B.

Sample B94801 (20000112-062) was utilized for duplicate and spike QC reporting.

No problems were noted during the analysis of this sample group.

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Date Reported: February 21, 2000

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Vincent Stancampiano  
Vice President

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S 0050

# H2M LABS, INC.

## SDG NARRATIVE FOR WET CHEMISTRY ANALYSIS

CONTRACT #: C003786

CASE #: RA000

SDG #: 0110

SAMPLES RECEIVED: 1/11, 1/13, 1/14 & 1/18/00

For Samples:

B94801	B94806	B94813	B94818	B94825
B94802	B94807	B94814	B94819	B94826
B94803	B94810	B94815	B94820	B94827
B94804	B94811	B94816	B94823	B94828
B94805	B94812	B94817	B94824	B94829

Twenty five water samples were received by H2M Labs, Inc. on 1/11, 1/13, 1/14 & 1/18/00 for select wet chemistry analysis.

The samples were prepared and analyzed using methods listed on the report forms.

Sample B94801 (20000112-062) was utilized for duplicate and spike QC reporting.

Sulfate method 375.4 was utilized for confirmation and reporting of samples B94826, B94827 and B94828.

No other problems were noted during the analysis of this sample group.

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

Date Reported: February 21, 2000

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Vincent Stancampiano  
Vice President

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S 0051

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94801**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-062  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25666.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		10	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94802

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-063  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25648.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/17/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
110-75-8	2-Chloroethylvinylether		10	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94803

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-064  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25649.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/17/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-4	1,1-Dichloroethane	5	U	
75-694	Trichlorofluoromethane	10	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
110-75-8	2-Chloroethylvinylether	10	U	
75-27-4	Bromodichloromethane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
79-01-6	Trichloroethene	5	U	
71-43-2	Benzene	5	U	
124-48-1	Dibromochloromethane	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
75-25-2	Bromoform	5	U	
127-18-4	Tetrachloroethene	5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
1330-20-7	Xylene (total)	5	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

B94804

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-065  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25661.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		2	JB
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94805

Lab Name: H2M LABS,INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-066  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25663.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94806

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-067  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25664.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94807

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-068  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25665.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	U
74-83-9	Bromomethane	10	U	U
75-01-4	Vinyl Chloride	10	U	U
75-00-3	Chloroethane	10	U	U
75-09-2	Methylene Chloride	5	U	U
75-35-4	1,1-Dichloroethene	5	U	U
75-34-4	1,1-Dichloroethane	5	U	U
67-66-3	Chloroform	5	U	U
107-06-2	1,2-Dichloroethane	5	U	U
71-55-6	1,1,1-Trichloroethane	5	U	U
56-23-5	Carbon Tetrachloride	5	U	U
75-27-4	Bromodichloromethane	5	U	U
78-87-5	1,2-Dichloropropane	5	U	U
10061-01-5	cis-1,3-Dichloropropene	5	U	U
79-01-6	Trichloroethene	5	U	U
71-43-2	Benzene	5	U	U
124-48-1	Dibromochloromethane	5	U	U
10061-02-6	trans-1,3-Dichloropropene	5	U	U
79-00-5	1,1,2-Trichloroethane	5	U	U
75-25-2	Bromoform	5	U	U
127-18-4	Tetrachloroethene	5	U	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	U
108-88-3	Toluene	5	U	U
108-90-7	Chlorobenzene	5	U	U
100-41-4	Ethylbenzene	5	U	U
1330-20-7	Xylene (total)	5	U	U
75-694	Trichlorofluoromethane	10	U	U
156-60-5	trans-1,2-Dichloroethene	5	U	U
110-75-8	2-Chloroethylvinylether	10	U	U
541-73-1	1,3-Dichlorobenzene	10	U	U
106-46-7	1,4-Dichlorobenzene	10	U	U
95-50-1	1,2-Dichlorobenzene	10	U	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94808(TB1)

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000112-074  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25669.D  
 Level: (low/med) LOW Date Received: 01/11/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-4	1,1-Dichloroethane	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
75-27-4	Bromodichloromethane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
79-01-6	Trichloroethene	5	U	
71-43-2	Benzene	5	U	
124-48-1	Dibromochloromethane	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
75-25-2	Bromoform	5	U	
127-18-4	Tetrachloroethene	5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
1330-20-7	Xylene (total)	5	U	
75-694	Trichlorofluoromethane	10	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
110-75-8	2-Chloroethylvinylether	10	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94809

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-011  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25673.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94810

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-003  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25675.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94811

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-004  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25676.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94812

Lab Name: H2M LABS INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-005  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25677.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	U
74-83-9	Bromomethane	10	U	U
75-01-4	Vinyl Chloride	10	U	U
75-00-3	Chloroethane	10	U	U
75-09-2	Methylene Chloride	5	U	U
75-35-4	1,1-Dichloroethene	5	U	U
75-34-4	1,1-Dichloroethane	5	U	U
67-66-3	Chloroform	5	U	U
107-06-2	1,2-Dichloroethane	5	U	U
71-55-6	1,1,1-Trichloroethane	5	U	U
56-23-5	Carbon Tetrachloride	5	U	U
75-27-4	Bromodichloromethane	5	U	U
78-87-5	1,2-Dichloropropane	5	U	U
10061-01-5	cis-1,3-Dichloropropene	5	U	U
79-01-6	Trichloroethene	5	U	U
71-43-2	Benzene	5	U	U
124-48-1	Dibromochloromethane	5	U	U
10061-02-6	trans-1,3-Dichloropropene	5	U	U
79-00-5	1,1,2-Trichloroethane	5	U	U
75-25-2	Bromoform	5	U	U
127-18-4	Tetrachloroethene	5	U	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	U
108-88-3	Toluene	5	U	U
108-90-7	Chlorobenzene	5	U	U
100-41-4	Ethylbenzene	5	U	U
1330-20-7	Xylene (total)	5	U	U
75-694	Trichlorofluoromethane	10	U	U
156-60-5	trans-1,2-Dichloroethene	5	U	U
110-75-8	2-Chloroethylvinylether	10	U	U
541-73-1	1,3-Dichlorobenzene	10	U	U
106-46-7	1,4-Dichlorobenzene	10	U	U
95-50-1	1,2-Dichlorobenzene	10	U	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94813

Lab Name: H2M LABS. INC

Contract: C003786

Lab Code: H2M

Case No.: RA000

SAS No.:

SDG No.: 0110

Matrix: (soil/water) WATER

Lab Sample ID: 20000114-006

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: A25678.D

Level: (low/med) LOW

Date Received: 01/13/00

% Moisture: not dec.

Date Analyzed: 01/18/00

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		1	J
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94814

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-007  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13784.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94815

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-008  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13785.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		2	J
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		52	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94816

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-009  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13786.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		51	
75-34-4	1,1-Dichloroethane		8	
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		85	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		150	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		910	E
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		1	J
541-73-1	1,3-Dichlorobenzene		4	J
106-46-7	1,4-Dichlorobenzene		1	J
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94816DL

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-009  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13788.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 20.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		200	U
74-83-9	Bromomethane		200	U
75-01-4	Vinyl Chloride		200	U
75-00-3	Chloroethane		200	U
75-09-2	Methylene Chloride		100	U
75-35-4	1,1-Dichloroethene		35	JD
75-34-4	1,1-Dichloroethane		100	U
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane		100	U
71-55-6	1,1,1-Trichloroethane		63	JD
56-23-5	Carbon Tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		130	D
71-43-2	Benzene		100	U
124-48-1	Dibromochloromethane		100	U
10061-02-6	trans-1,3-Dichloropropene		100	U
79-00-5	1,1,2-Trichloroethane		100	U
75-25-2	Bromoform		100	U
127-18-4	Tetrachloroethene		1100	D
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-88-3	Toluene		100	U
108-90-7	Chlorobenzene		100	U
100-41-4	Ethylbenzene		100	U
75-694	Trichlorofluoromethane		200	U
110-75-8	2-Chloroethylvinylether		200	U
156-60-5	trans-1,2-Dichloroethene		100	U
541-73-1	1,3-Dichlorobenzene		200	U
106-46-7	1,4-Dichlorobenzene		200	U
95-50-1	1,2-Dichlorobenzene		200	U
1330-20-7	Xylene (total)		100	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94817

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-010  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25674.D  
 Level: (low/med) LOW Date Received: 01/13/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/18/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		6	J
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		5	U
75-35-4	1,1-Dichloroethene		6	
75-34-4	1,1-Dichloroethane		3	J
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		8	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		41	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		10	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

**S 0134**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94818

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-056  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13789.D  
 Level: (low/med) LOW Date Received: 01/14/00  
 % Moisture: not dec. Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		6	
75-34-4	1,1-Dichloroethane		3	J
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		41	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		2	J
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		3	J
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U

**S 0139**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94819

Lab Name: H2M LAGS.INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-066  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13790.D  
 Level: (low/med) LOW Date Received: 01/14/00  
 % Moisture: not dec. Date Analyzed: 01/20/00  
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94820

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-057  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13791.D  
 Level: (low/med) LOW Date Received: 01/14/00  
 % Moisture: not dec. Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-4	1,1-Dichloroethane	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
75-27-4	Bromodichloromethane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
79-01-6	Trichloroethene	2	J	
71-43-2	Benzene	5	U	
124-48-1	Dibromochloromethane	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
75-25-2	Bromoform	5	U	
127-18-4	Tetrachloroethene	3	J	
79-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
75-694	Trichlorofluoromethane	10	U	
110-75-8	2-Chloroethylvinylether	10	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
1330-20-7	Xylene (total)	5	U	

S 0147

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94821

Lab Name: H2M LAGS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000114-058  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13792.D  
 Level: (low/med) LOW Date Received: 01/14/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/20/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		16	
75-34-4	1,1-Dichloroethane		23	
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		1	J
71-55-6	1,1,1-Trichloroethane		120	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		10	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		9	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
75-694	Trichlorofluoromethane		10	U
110-75-8	2-Chloroethylvinylether		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
1330-20-7	Xylene (total)		5	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94823

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-034  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25800.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		17	
75-34-4	1,1-Dichloroethane		9	
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		50	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		98	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		150	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

**S 0157**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94824

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-035  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25801.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. Date Analyzed: 01/24/00  
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		61	
75-09-2	Methylene Chloride		7	
75-35-4	1,1-Dichloroethene		3400	E
75-34-4	1,1-Dichloroethane		3200	E
67-66-3	Chloroform		5	
107-06-2	1,2-Dichloroethane		11	
71-55-6	1,1,1-Trichloroethane		32000	E
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		4	J
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		12	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94825

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110

Matrix: (soil/water) WATER Lab Sample ID: 20000119-036

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25805.D

Level: (low/med) LOW Date Received: 01/18/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		60	
75-34-4	1,1-Dichloroethane		27	
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		570	E
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		2	J
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94826

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-037  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25806.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		2	J
75-34-4	1,1-Dichloroethane		4	J
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		52	
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		20	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		26	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94827**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-038  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25807.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		150	
75-34-4	1,1-Dichloroethane		94	
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		2800	E
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		10	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		29	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94827DL

Lab Name: H2M LABS.INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-038  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25818.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/25/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 20.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		200	U
74-83-9	Bromomethane		200	U
75-01-4	Vinyl Chloride		200	U
75-00-3	Chloroethane		200	U
75-09-2	Methylene Chloride		100	U
75-35-4	1,1-Dichloroethene		59	JD
75-34-4	1,1-Dichloroethane		61	JD
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane		100	U
71-55-6	1,1,1-Trichloroethane		1500	D
56-23-5	Carbon Tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		100	U
71-43-2	Benzene		100	U
124-48-1	Dibromochloromethane		100	U
10061-02-6	trans-1,3-Dichloropropene		100	U
79-00-5	1,1,2-Trichloroethane		100	U
75-25-2	Bromoform		100	U
127-18-4	Tetrachloroethene		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-88-3	Toluene		100	U
108-90-7	Chlorobenzene		100	U
100-41-4	Ethylbenzene		100	U
1330-20-7	Xylene (total)		100	U
75-694	Trichlorofluoromethane		200	U
156-60-5	trans-1,2-Dichloroethene		100	U
110-75-8	2-Chloroethylvinylether		200	U
541-73-1	1,3-Dichlorobenzene		200	U
106-46-7	1,4-Dichlorobenzene		200	U
95-50-1	1,2-Dichlorobenzene		200	U

S 0183



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94828**

Lab Name: H2M LABS.INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-039  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25808.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		5	U
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		2	J
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		7	
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		37	
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94829

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: H2M Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0110  
 Matrix: (soil/water) WATER Lab Sample ID: 20000119-040  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25809.D  
 Level: (low/med) LOW Date Received: 01/18/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/24/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	U
75-35-4	1,1-Dichloroethene		5	U
75-34-4	1,1-Dichloroethane		5	U
67-66-3	Chloroform		6	
107-06-2	1,2-Dichloroethane		5	U
71-55-6	1,1,1-Trichloroethane		2	J
56-23-5	Carbon Tetrachloride		5	U
75-27-4	Bromodichloromethane		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
79-01-6	Trichloroethene		5	U
71-43-2	Benzene		5	U
124-48-1	Dibromochloromethane		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
75-25-2	Bromoform		5	U
127-18-4	Tetrachloroethene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
108-88-3	Toluene		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylene (total)		5	U
75-694	Trichlorofluoromethane		10	U
156-60-5	trans-1,2-Dichloroethene		5	U
110-75-8	2-Chloroethylvinylether		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U

**S 0193**

# H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES**  
**CONTRACT: C003786**  
**CASE NO.: RA000**  
**SDG NO.: 0120**  
**SAMPLES RECEIVED: 1/21/00 and 1/25/00**

For Samples:

B94830	B94837
B94831	B94838
B94832	B94839 (TB-6)
B94833	B94840
B94834	B94841
B94835 MS/MSD	B94842
B94836	

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

Sample B94835 was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPD's were met.

Due to concentration levels of targeted analytes above the calibration range, the following samples were reanalyzed at a dilution:

B94836, B94837, B94838, B94840 and B94841

Both sets of data are submitted.

All quality control and calibration requirements were met.

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

Date Reported: February 15, 2000

\*\*\*\*\*  
\* *Joann M. Slavin* \*  
\* *Joann M. Slavin* \*  
\*\*\*\*\*

Joann M. Slavin  
Quality Assurance Manager

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94830**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 00000121-077  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25832.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/25/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94831

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120

Matrix: (soil/water) WATER Lab Sample ID: 20000121-078

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25836.D

Level: (low/med) LOW Date Received: 01/21/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94832

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120

Matrix: (soil/water) WATER Lab Sample ID: 20000121-079

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25837.D

Level: (low/med) LOW Date Received: 01/21/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94833

Lab Name: H2M LABS. INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120

Matrix: (soil/water) WATER Lab Sample ID: 20000121-080

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25838.D

Level: (low/med) LOW Date Received: 01/21/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2	J
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94834

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000121-081  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25839.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	25		
75-34-4	1,1-Dichloroethane	13		
540-59-0	1,2-Dichloroethene (total)	2		J
78-93-3	2-Butanone	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
71-55-6	1,1,1-Trichloroethane	21		
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	19		
71-43-2	Benzene	10		U
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
79-00-5	1,1,2-Trichloroethane	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	6		J
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	Xylene (total)	10		U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94835**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0121-082  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25829.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. Date Analyzed: 01/25/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		24	
75-34-4	1,1-Dichloroethane		12	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		21	
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		17	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		5	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94836**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000121-083  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25841.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-09-2	Methylene Chloride		1	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		300	E
75-34-4	1,1-Dichloroethane		110	
540-59-0	1,2-Dichloroethene (total)		29	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		3	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		200	E
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		240	E
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		1	J
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		51	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94836DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0121-083DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25848.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 2.5  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	25		U
74-83-9	Bromomethane	25		U
75-01-4	Vinyl Chloride	25		U
75-00-3	Chloroethane	25		U
75-09-2	Methylene Chloride	25		U
67-64-1	Acetone	25		U
75-15-0	Carbon Disulfide	25		U
75-35-4	1,1-Dichloroethene	260		D
75-34-4	1,1-Dichloroethane	110		D
540-59-0	1,2-Dichloroethene (total)	28		D
78-93-3	2-Butanone	25		U
67-66-3	Chloroform	3		JD
107-06-2	1,2-Dichloroethane	25		U
71-55-6	1,1,1-Trichloroethane	180		D
56-23-5	Carbon Tetrachloride	25		U
75-27-4	Bromodichloromethane	25		U
78-87-5	1,2-Dichloropropane	25		U
10061-01-5	cis-1,3-Dichloropropene	25		U
79-01-6	Trichloroethene	220		D
71-43-2	Benzene	25		U
124-48-1	Dibromochloromethane	25		U
10061-02-6	trans-1,3-Dichloropropene	25		U
79-00-5	1,1,2-Trichloroethane	25		U
75-25-2	Bromoform	25		U
108-10-1	4-Methyl-2-Pentanone	25		U
591-78-6	2-Hexanone	25		U
127-18-4	Tetrachloroethene	46		D
79-34-5	1,1,2,2-Tetrachloroethane	25		U
108-88-3	Toluene	25		U
108-90-7	Chlorobenzene	25		U
100-41-4	Ethylbenzene	25		U
100-42-5	Styrene	25		U
1330-20-7	Xylene (total)	25		U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94837

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000121-084  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25842.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		630	E
75-34-4	1,1-Dichloroethane		230	E
540-59-0	1,2-Dichloroethene (total)		65	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		6	J
107-06-2	1,2-Dichloroethane		4	J
71-55-6	1,1,1-Trichloroethane		330	E
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		570	E
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		2	J
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		86	
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	Xylene (total)		2	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94837DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0121-084DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25849.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		460	D
75-34-4	1,1-Dichloroethane		190	D
540-59-0	1,2-Dichloroethene (total)		53	D
78-93-3	2-Butanone		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
71-55-6	1,1,1-Trichloroethane		260	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		420	D
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		66	D
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94838**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000121-085  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25843.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		490	E
75-34-4	1,1-Dichloroethane		200	
540-59-0	1,2-Dichloroethene (total)		46	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		5	J
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		340	E
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		400	E
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		2	J
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		76	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94838DL

Lab Name: H2M LABS. INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0121-085DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25850.D  
 Level: (low/med) LOW Date Received: 01/21/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		360	D
75-34-4	1,1-Dichloroethane		170	D
540-59-0	1,2-Dichloroethene (total)		35	JD
78-93-3	2-Butanone		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
71-55-6	1,1,1-Trichloroethane		270	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		300	D
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		59	D
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94839 (TB-6)

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000125-055  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25844.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94840

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000125-056  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25845.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		6	J
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		11	
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		2100	E
75-34-4	1,1-Dichloroethane		820	E
540-59-0	1,2-Dichloroethene (total)		94	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		8	J
107-06-2	1,2-Dichloroethane		16	
71-55-6	1,1,1-Trichloroethane		840	E
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		2500	E
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		6	J
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		180	
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	Xylene (total)		1	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94840DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0125-056DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25851.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		250	U
74-83-9	Bromomethane		250	U
75-01-4	Vinyl Chloride		250	U
75-00-3	Chloroethane		250	U
75-09-2	Methylene Chloride		250	U
67-64-1	Acetone		250	U
75-15-0	Carbon Disulfide		250	U
75-35-4	1,1-Dichloroethene		1600	D
75-34-4	1,1-Dichloroethane		750	D
540-59-0	1,2-Dichloroethene (total)		80	JD
78-93-3	2-Butanone		250	U
67-66-3	Chloroform		250	U
107-06-2	1,2-Dichloroethane		250	U
71-55-6	1,1,1-Trichloroethane		790	D
56-23-5	Carbon Tetrachloride		250	U
75-27-4	Bromodichloromethane		250	U
78-87-5	1,2-Dichloropropane		250	U
10061-01-5	cis-1,3-Dichloropropene		250	U
79-01-6	Trichloroethene		1800	D
71-43-2	Benzene		250	U
124-48-1	Dibromochloromethane		250	U
10061-02-6	trans-1,3-Dichloropropene		250	U
79-00-5	1,1,2-Trichloroethane		250	U
75-25-2	Bromoform		250	U
108-10-1	4-Methyl-2-Pentanone		250	U
591-78-6	2-Hexanone		250	U
127-18-4	Tetrachloroethene		150	JD
79-34-5	1,1,2,2-Tetrachloroethane		250	U
108-88-3	Toluene		250	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		250	U
100-42-5	Styrene		250	U
1330-20-7	Xylene (total)		250	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94841

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000125-057  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25846.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		5	J
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		17	
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		2300	E
75-34-4	1,1-Dichloroethane		1000	E
540-59-0	1,2-Dichloroethene (total)		77	
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		8	J
107-06-2	1,2-Dichloroethane		22	
71-55-6	1,1,1-Trichloroethane		920	E
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		2600	E
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		8	J
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		200	E
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94841DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 0125-057DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25852.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 25.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		250	U
74-83-9	Bromomethane		250	U
75-01-4	Vinyl Chloride		250	U
75-00-3	Chloroethane		250	U
75-09-2	Methylene Chloride		250	U
67-64-1	Acetone		250	U
75-15-0	Carbon Disulfide		250	U
75-35-4	1,1-Dichloroethene		1700	D
75-34-4	1,1-Dichloroethane		880	D
540-59-0	1,2-Dichloroethene (total)		64	JD
78-93-3	2-Butanone		250	U
67-66-3	Chloroform		250	U
107-06-2	1,2-Dichloroethane		250	U
71-55-6	1,1,1-Trichloroethane		820	D
56-23-5	Carbon Tetrachloride		250	U
75-27-4	Bromodichloromethane		250	U
78-87-5	1,2-Dichloropropane		250	U
10061-01-5	cis-1,3-Dichloropropene		250	U
79-01-6	Trichloroethene		1800	D
71-43-2	Benzene		250	U
124-48-1	Dibromochloromethane		250	U
10061-02-6	trans-1,3-Dichloropropene		250	U
79-00-5	1,1,2-Trichloroethane		250	U
75-25-2	Bromoform		250	U
108-10-1	4-Methyl-2-Pentanone		250	U
591-78-6	2-Hexanone		250	U
127-18-4	Tetrachloroethene		160	JD
79-34-5	1,1,2,2-Tetrachloroethane		250	U
108-88-3	Toluene		250	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		250	U
100-42-5	Styrene		250	U
1330-20-7	Xylene (total)		250	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94842**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0120  
 Matrix: (soil/water) WATER Lab Sample ID: 20000125-058  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25853.D  
 Level: (low/med) LOW Date Received: 01/25/00  
 % Moisture: not dec. Date Analyzed: 01/26/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		4	J
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		4	J
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		6	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

# H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES  
CONTRACT: C003786  
CASE NO.: RA000  
SDG NO.: 0128  
SAMPLES RECEIVED: 1/28, 2/1 & 2/4/00

For Samples:

B94843	B94850	B94857
B94844	B94851	B94858
B94845	B94852	B94859
B94846	B94853	B94860
B94847	B94854 (TB-8)	B94861
B94848	B94855	B94862
B94849	B94856 MS/MSD	B94863

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

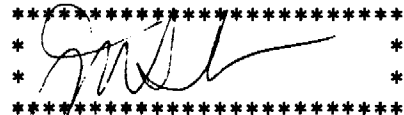
Sample B94856 was analyzed as the matrix spike/matrix spike duplicate sample. All percent recoveries and RPD's were met except for a 33% RPD for 1,1-dichloroethene (upper limit 14%), a 122% recovery for trichloroethene (upper limit 120%) and a 128% recovery for toluene (upper limit 125%) in the matrix spike duplicate.

Samples B94857 and B94859 were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

All other quality control and calibration requirements were met.

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

Date Reported: March 1, 2000

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Joann M. Slavin  
Quality Assurance Manager

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94843

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000128-254  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13908.D  
 Level: (low/med) LOW Date Received: 01/28/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/01/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94844

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000128-255  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13909.D  
 Level: (low/med) LOW Date Received: 01/28/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/01/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94845

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000128-256  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13910.D  
 Level: (low/med) LOW Date Received: 01/28/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/01/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94846

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000128-257  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13911.D  
 Level: (low/med) LOW Date Received: 01/28/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/01/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94847**

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128

Matrix: (soil/water) WATER Lab Sample ID: 20000202-001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13976.D

Level: (low/med) LOW Date Received: 02/01/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94848

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000202-002  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13977.D  
 Level: (low/med) LOW Date Received: 02/01/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		8	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94849

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000202-003  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13978.D  
 Level: (low/med) LOW Date Received: 02/01/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		3	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		3	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94850

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000202-004  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13979.D  
 Level: (low/med) LOW Date Received: 02/01/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		2	J
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		3	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94851

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128

Matrix: (soil/water) WATER Lab Sample ID: 20000202-005

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13980.D

Level: (low/med) LOW Date Received: 02/01/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	2	J
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
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	3	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94852

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000202-006  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13981.D  
 Level: (low/med) LOW Date Received: 02/01/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94853

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000202-007  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P13982.D  
 Level: (low/med) LOW Date Received: 02/01/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/04/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		4	J
75-34-4	1,1-Dichloroethane		2	J
540-59-0	1,2-Dichloroethene (total)		2	J
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		8	J
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	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		5	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94854(TB-8)

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-077  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14046.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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
130-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94855

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-078  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14047.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		6	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94856

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-079  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14048.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-34-4	1,1-Dichloroethane		2	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		23	
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94857

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-080  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14051.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		24	
75-34-4	1,1-Dichloroethane		46	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		300	E
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		6	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		11	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94857DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 0204-080DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14058.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (m:m) Dilution Factor: 2.5  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		25	U
74-83-9	Bromomethane		25	U
75-01-4	Vinyl Chloride		25	U
75-00-3	Chloroethane		25	U
75-09-2	Methylene Chloride		25	U
67-64-1	Acetone		25	U
75-15-0	Carbon Disulfide		25	U
75-35-4	1,1-Dichloroethene		17	JD
75-34-4	1,1-Dichloroethane		38	D
540-59-0	1,2-Dichloroethene (total)		25	U
78-93-3	2-Butanone		25	U
67-66-3	Chloroform		25	U
107-06-2	1,2-Dichloroethane		25	U
71-55-6	1,1,1-Trichloroethane		230	D
56-23-5	Carbon Tetrachloride		25	U
75-27-4	Bromodichloromethane		25	U
78-87-5	1,2-Dichloropropane		25	U
10061-01-5	cis-1,3-Dichloropropene		25	U
79-01-6	Trichloroethene		4	JD
71-43-2	Benzene		25	U
124-48-1	Dibromochloromethane		25	U
10061-02-6	trans-1,3-Dichloropropene		25	U
79-00-5	1,1,2-Trichloroethane		25	U
75-25-2	Bromoform		25	U
108-10-1	4-Methyl-2-Pentanone		25	U
591-78-6	2-Hexanone		25	U
127-18-4	Tetrachloroethene		8	JD
79-34-5	1,1,2,2-Tetrachloroethane		25	U
108-88-3	Toluene		25	U
108-90-7	Chlorobenzene		25	U
100-41-4	Ethylbenzene		25	U
100-42-5	Styrene		25	U
1330-20-7	Xylene (total)		25	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94858

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128

Matrix: (soil/water) WATER Lab Sample ID: 20000204-081

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14052.D

Level: (low/med) LOW Date Received: 02/04/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
75-34-4	1,1-Dichloroethane		2	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		23	
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
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		1	J
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94859

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-082  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14053.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		26	
75-34-4	1,1-Dichloroethane		36	
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		310	E
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		7	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		16	
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	Xylene (total)		10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94859DL

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 0204-082DL  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14059.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 2.5  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		25	U
74-83-9	Bromomethane		25	U
75-01-4	Vinyl Chloride		25	U
75-00-3	Chloroethane		25	U
75-09-2	Methylene Chloride		25	U
67-64-1	Acetone		25	U
75-15-0	Carbon Disulfide		25	U
75-35-4	1,1-Dichloroethene		18	JD
75-34-4	1,1-Dichloroethane		29	D
540-59-0	1,2-Dichloroethene (total)		25	U
78-93-3	2-Butanone		25	U
67-66-3	Chloroform		25	U
107-06-2	1,2-Dichloroethane		25	U
71-55-6	1,1,1-Trichloroethane		230	D
56-23-5	Carbon Tetrachloride		25	U
75-27-4	Bromodichloromethane		25	U
78-87-5	1,2-Dichloropropane		25	U
10061-01-5	cis-1,3-Dichloropropene		25	U
79-01-6	Trichloroethene		5	JD
71-43-2	Benzene		25	U
124-48-1	Dibromochloromethane		25	U
10061-02-6	trans-1,3-Dichloropropene		25	U
79-00-5	1,1,2-Trichloroethane		25	U
75-25-2	Bromoform		25	U
108-10-1	4-Methyl-2-Pentanone		25	U
591-78-6	2-Hexanone		25	U
127-18-4	Tetrachloroethene		12	JD
79-34-5	1,1,2,2-Tetrachloroethane		25	U
108-88-3	Toluene		25	U
108-90-7	Chlorobenzene		25	U
100-41-4	Ethylbenzene		25	U
100-42-5	Styrene		25	U
1330-20-7	Xylene (total)		25	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94860**

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-083  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14054.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		3	J
75-34-4	1,1-Dichloroethane		2	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		38	
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		21	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		59	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94861

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-084  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14055.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		7	J
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	
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		32	
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	Xylene (total)		10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B94862

Lab Name: H2M LABS, INC Contract: C003786  
 Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128  
 Matrix: (soil/water) WATER Lab Sample ID: 20000204-085  
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14056.D  
 Level: (low/med) LOW Date Received: 02/04/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00  
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (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
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	2	J
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	2	J
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	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	7	J
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	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**B94863**

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: RA000 SAS No.: \_\_\_\_\_ SDG No.: 0128

Matrix: (soil/water) WATER Lab Sample ID: 20000204-086

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P14057.D

Level: (low/med) LOW Date Received: 02/04/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/00

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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
75-34-4	1,1-Dichloroethane		1	J
540-59-0	1,2-Dichloroethene (total)		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		9	J
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		3	J
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		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		9	J
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	Xylene (total)		10	U



**APPENDIX F**

**HISTORICAL GROUNDWATER DATA SUMMARY**

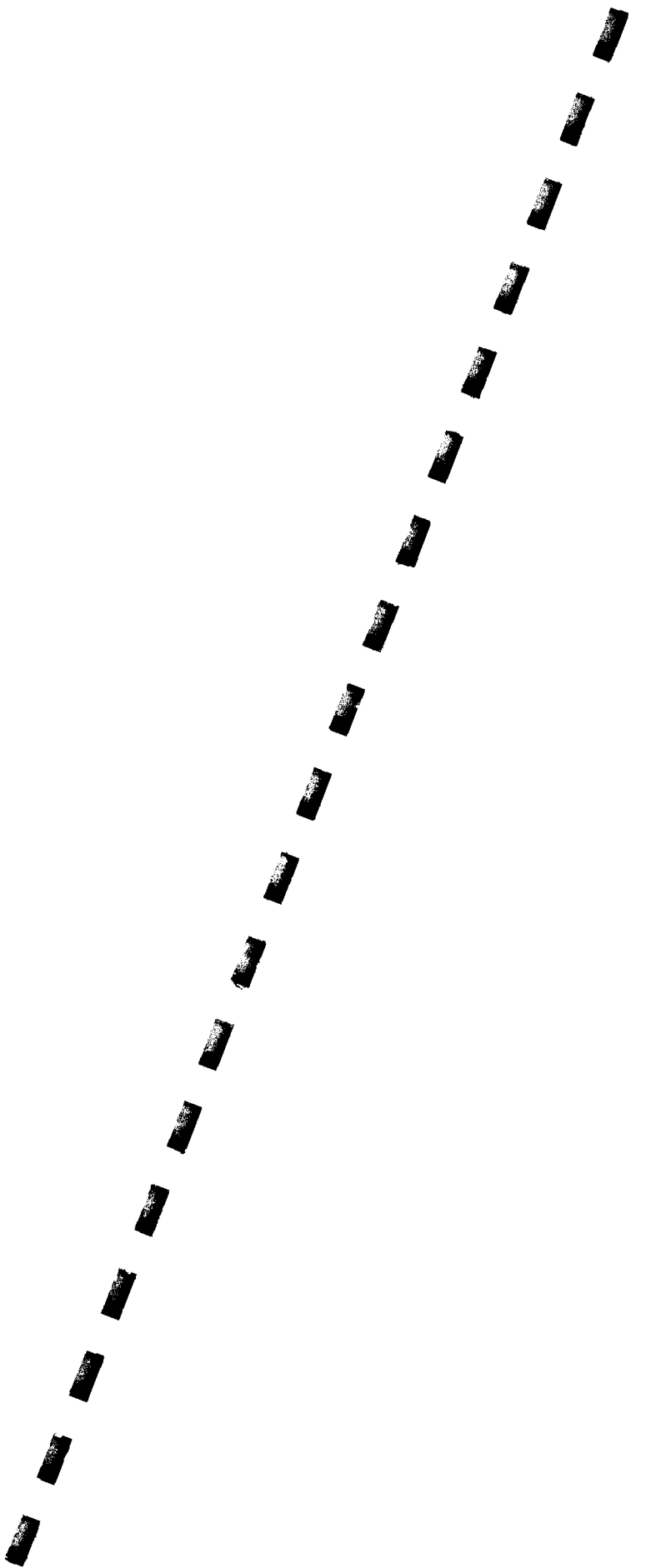




TABLE 5-2  
SUMMARY TABLE OF DATABASE



**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs NYSDEC Class GA Standards (n)	PCE 5	TCE 5	cis 1,2 DCE 5	trans 1,2 DCE 5	1,1 DCE 5	1,2 DCE (total) 5	1,1,1 TCA 5	1,1,2 TCA 1	1,2 DCA 0.6	Chloroform 7	Vinyl Chloride 2	Chloroethane 5	Benzene 1	Toluene 5	Ethylbenzene 5	Xylenes (total) 5	o- Xylene 5	m-p- Xylene 5	Acetone 50 GV	Methylene Chloride 5	4 Methyl 2 Pentane N/A	
101-DW-00 (SW)	12/4/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	
101-DW-2 (SW)	8/24/1998	0	0	0	0	0	0		0		0													
101-DW-3 (SW)	8/24/1998	6	1	0	0	5	0		0		0													
101-DW-5 (SW)	8/24/1998	6	1	0	0	6	0		0		0													
101-DW-7 (SW)	8/24/1998	13	0	0	0	13	0		0		0													
101-DW-8 (SW)	8/24/1998	1	1	0	0	0	0		0		0													
101-DW-9 (SW)	8/18/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DW-N/S (SW)	7/12/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-1 (63-64')	8/24/1998	14	3	0	0	0	0		12		0													
101-DWA-1 (79-80')	8/24/1998	10	0	0	0	0	0		10		0													
101-DWA-1 (94-95')	8/24/1998	2	1	0	0	0	0		1		0													
101-DWA-12 (63-64')	9/15/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-12 (79-80')	9/15/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-12 (90-91')	9/15/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-13 (63-64')	9/16/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-13 (79-80')	9/16/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-13 (90-91')	9/16/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-4 (63-64')	8/24/1998	6	0	0	0	0	0		6		0				0	0	0		0	0				
101-DWA-4 (79-80')	8/24/1998	2	0	0	0	0	0		2		0				0	0	0		0	0				
101-DWA-4 (92-93')	8/24/1998	8	1	1	0	0	0		5		0				0	0	0		0	0				
101-DWA-6 (63-64')	8/24/1998	27	1	0	0	0	0		26		0				0	0	0		0	0				
101-DWA-6 (79-80')	8/24/1998	14	1	1	0	0	0		12		0				0	0	0		0	0				
101-DWA-6 (93-94')	8/24/1998	4	0	3	0	0	0		1		0				0	0	0		0	0				
101-DWA-7 (63-64')	9/16/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-7 (80-81')	9/16/1998	13	0	0			0	0	13	0	0	0	0	0	0	0	0	0				0	0	0
101-DWA-7 (90-91')	9/16/1998	554	20	20			20	0	20	0	0	0	0	0	0	0	0	0				400	0	0
101-DWA-8 (63-64')	8/24/1998	9	1	1	0	0	0		7		0				0	0	0		0	0				
101-DWA-8 (79-80')	9/1/1998	53	0	0			0	0	38	0	0	0	0	0	0	0	0	0				15	0	0
101-DWA-8 (93-94')	8/24/1998	6	6	0	0	0	0		0		0				0	0	0		0	0				
101-DWA-N/S (63-64')	8/24/1998	24	20	2	0	0	0		2		0													
101-DWA-N/S (79-80')	8/24/1998	128	83	6	0	0	0		39		0													
101-DWA-N/S (94-95')	8/24/1998	10	4	1	0	0	0		5		0													
101DW00_SW-01	12/4/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
89-DW-10 (SW)	7/9/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NYSDEC Class GA Standards (a)	Total VOCs	PCE	TCE	cis-1,2 DCE			1,1 DCE			1,1,1 DCE			1,2 DCE (total)	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Penanonic
					DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE						DCE	DCE	DCE				
89-DW-11 (SW)	7/9/1998	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-12 (SW)	7/9/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-14 (SW)	7/10/1998	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-15 (SW)	7/9/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-16 (SW)	7/8/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-2 (SW)	7/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-7 (SW)	7/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DW-9 (SW)	7/12/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-1 (60-65')	8/24/1998	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-1 (78')	8/24/1998	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-1 (92')	8/24/1998	13	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-10 (60-65')	8/24/1998	5,345	4,986	359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-10 (78')	8/24/1998	2,071	1,792	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-10 (92')	8/24/1998	2,899	2,830	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-11 (63-64')	8/24/1998	302	271	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-11 (79-80')	8/24/1998	452	356	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-11 (93-94')	8/24/1998	330	291	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-12 (63-64')	8/24/1998	68	50	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-12 (79-80')	8/24/1998	54	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-12 (93-94')	8/24/1998	42	14	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-14 (60-65')	9/2/1998	5,600	5,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-14 (78')	8/24/1998	354	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-14 (92')	8/24/1998	599	351	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-15 (60-65')	8/24/1998	3,064	1,855	1,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-15 (78')	8/24/1998	554	351	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-15 (92')	8/24/1998	958	347	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-16 (79-80')	8/24/1998	404	289	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-16 (93-94')	8/24/1998	552	395	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-17 (60-65')	8/24/1998	779	471	304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-17 (78')	8/24/1998	347	292	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-17 (92')	8/24/1998	528	389	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-2 (93-94')	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-4 (63-64')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-4 (79-80')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	p-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class G/A Standards (a)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	\$0 GV	5	N/A
89-DWA-4 (93-94')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-5 (63-64')	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-5 (79-80')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-5 (93-94')	8/24/1998	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-6 (60-65')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-6 (78')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-6 (92')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-7 (63-64')	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-7 (79-80')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-7 (93-94')	8/24/1998	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-8 (63-64')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-8 (79-80')	8/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89-DWA-8 (93-94')	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADCHEM MW-1	1/1/1993	124	36	19	0	0	0	10	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADCHEM MW-2	1/1/1993	20	11	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADCHEM MW-3	1/1/1993	110	23	19	0	0	0	3	6	51	0	0	0	0	0	0	0	0	0	0	0	0	0
AGGW-01 (56-60')	11/11/1998	212	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0	2	0	0	150	0	0
AGGW-01 (76-80')	11/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGGW-03 (56-60')	11/11/1998	413	30	310	0	0	0	10	47	0	0	0	0	0	0	0	0	0	0	0	16	0	0
AGGW-03 (66-70')	11/11/1998	16	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGGW-03 (76-80')	11/11/1998	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGGW-05 (56-60')	11/11/1998	1,000	15	710	0	0	0	13	160	0	0	0	0	0	0	10	0	0	0	0	92	0	0
AGGW-05 (66-70')	11/11/1998	751	17	550	0	0	0	0	17	0	0	0	0	0	0	37	0	0	0	0	130	0	0
AGGW-05 (76-80')	11/11/1998	4,798	56	3,900	0	0	0	0	82	0	0	0	0	0	0	320	0	0	0	0	440	0	0
AGHP-01 (60')	2/24/1998	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGHP-01 (70')	2/24/1998	53	35	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGHP-01 (90')	2/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGHP-05 (60')	9/22/1997	753	53	570	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGHP-05 (70')	9/22/1997	908	48	680	0	0	5	0	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGHP-05 (80')	9/22/1997	1,638	99	1,400	0	0	0	0	100	0	0	0	0	0	0	39	0	0	0	0	0	0	0
AIGPW-1 ((76-77')	10/1/1998	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIGPW-1 (57-58')	10/1/1998	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIGPW-1 (67-68')	10/1/1998	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIGPW-2 (57-58')	10/1/1998	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled NYSDEC Class GA Standards (a)	Total VOCs	PCE	TCE	cis-1,2 DCE		trans-1,2 DCE		1,1 DCE		1,1,1 DCE		1,1,1,2 DCE		Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m+p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
					5	5	5	5	5	5	5	5	5	5											5
AIQPW-2 (67-68')	10/11/1998	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIQPW-2 (79-80')	10/11/1998	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIQPW-3 (57-58')	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIQPW-3 (67-68')	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIQPW-3 (79-80')	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-10A	10/11/1998	73	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-10B	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-10C	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-11A	10/11/1998	513	57	17	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-11B	10/11/1998	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-11C	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-70-STATE-D	1/11/1993	25	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-70-STATE-D	12/11/1995	93	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-8A	10/11/1998	39	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-8B	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-8C	10/11/1998	71	29	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-9A	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-9B	10/11/1998	200	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIMW-9C	10/11/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-10	1/11/1993	122	120	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-2	1/11/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-2	1/11/1995	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-3	1/11/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-3	1/11/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-4	1/11/1993	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-4	1/11/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-5	1/11/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-5	8/31/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-6	1/11/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-6	1/11/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-7	1/11/1993	326	11	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-7	8/31/1998	159	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-8	1/11/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANSON MW-8	4/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
N/A - Not applicable.  
GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
ANSON MW-8	8/19/1999	0	0	0			0	0	0		0	0	0	0	0	0	0	0			0	0	
ANSON MW-9	1/1/1993	8	0	0			0	0	8		0		0		0	0	0		0	0			
ANSON MW-9	1/1/1995	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
DOAK MW-1	1/1/1994	237	63	14	0	0	26		134		0		0									0	
DOAK MW-1	1/1/1996	188	52	11			11	4	97		5				0	0	0	0				0	
DOAK MW-1	2/1/1998	109	56	0			0	0	53	0	0	0	0	0	0	0	0	0			0	0	0
DOAK MW-1	8/17/1999	90	47	0			0	0	43		0	0	0	0	0			0			0	0	
DOAK MW-2	1/1/1994	722	42	30	12	0	60		490		0		0									0	
DOAK MW-2	12/1/1995	140	0	0	0	0	0		140		0		0		0	0	0	0	0	0		0	
DOAK MW-2	1/1/1996	171	19	9			8	5	110		0				0	0	0	0				0	
DOAK MW-2	2/1/1998	58	15	0			0	0	43	0	0	0	0	0	0	0	0	0			0	0	0
DOAK MW-3	12/1/1995	340	0	0	340	0	0		0		0		0		0	0	0		0	0		0	
DOAK MW-3	1/1/1996	542	28	120			0	0	21		370				0	0	0	0				0	
DOAK MW-3	2/1/1998	197	10	29			0	94	39	0	0	0	0	0	0	0	0	0			0	0	0
EW-01C (100')	6/1/1997	674	406	61	96	0	36	0	64	0	0	4	0	0	0	0	0	0	0	0	0	0	0
EW-01C (100)	6/1/1997	674	406	61	96		36		64		0	4										0	
EW-01C (114')	6/1/1997	607	446	41	60	0	16	1	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (114)	6/1/1997	607	446	41	60		16		35		0	0										0	
EW-01C (122')	6/1/1997	389	263	29	44	0	17	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (122)	6/1/1997	389	263	29	44		17		29		0	0										0	
EW-01C (130')	6/1/1997	218	151	15	22	0	10	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (130)	6/1/1997	218	151	15	22		10		15		0	0										0	
EW-01C (144')	6/1/1997	985	232	201	353	0	67	0	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (144)	6/1/1997	985	232	201	353		67		124													0	
EW-01C (150')	6/1/1997	1,291	459	216	380	0	81	0	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (150)	6/1/1997	1,291	459	216	380		81		147		0	0										0	
EW-01C (170')	6/1/1997	573	279	93	31	0	51	0	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (170)	6/1/1997	573	279	93	31		51		102		0	0										0	
EW-01C (210')	6/1/1997	190	79	23	40	0	9	22	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (210)	6/1/1997	190	79	23	40		9		13		0	0										0	
EW-01C (300')	6/1/1997	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (300)	6/1/1997	1	1	0	0		0		0		0	0										0	
EW-01C (350')	6/1/1997	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (350)	6/1/1997	1	1	0	0		0		0		0	0										0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

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N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
	NYSDEC Class	GA Standards (n)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	5	5	5
EW-01C (400')	6/1/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (400)	6/1/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (450')	6/1/1997	18	12	0	3	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
EW-01C (450)	6/1/1997	18	12	0	3	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
EW-01C (62')	6/1/1997	4	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (62)	6/1/1997	4	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (72')	6/1/1997	92	42	20	15	0	5	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (72)	6/1/1997	92	42	20	15	0	5	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (80')	6/1/1997	166	104	22	18	0	6	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (80)	6/1/1997	166	104	22	18	0	6	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-01C (95')	6/1/1997	415	283	31	11	0	37	1	41	0	0	1	0	0	0	0	0	0	0	0	0	2	0
EW-01C (95)	6/1/1997	415	283	31	11	0	37	1	41	0	0	1	0	0	0	0	0	0	0	0	0	2	0
EW-02C (100')	6/1/1997	294	11	90	82	0	11	0	20	0	0	0	40	0	0	0	0	0	0	0	0	0	0
EW-02C (100)	6/1/1997	294	11	90	82	0	11	0	20	0	0	0	40	0	0	0	0	0	0	0	0	0	0
EW-02C (110')	6/1/1997	104	0	28	17	0	3	0	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0
EW-02C (110)	6/1/1997	104	0	28	17	0	3	0	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0
EW-02C (120')	6/1/1997	226	3	81	19	0	8	0	12	0	0	0	6	0	0	0	0	0	0	0	0	0	0
EW-02C (120)	6/1/1997	226	3	81	19	0	8	0	12	0	0	0	6	0	0	0	0	0	0	0	0	0	0
EW-02C (130')	6/1/1997	961	299	274	165	0	6	0	0	0	0	0	217	0	0	0	0	0	0	0	0	0	0
EW-02C (130)	6/1/1997	961	299	274	165	0	6	0	0	0	0	0	217	0	0	0	0	0	0	0	0	0	0
EW-02C (140')	6/1/1997	313	25	202	56	0	5	0	3	0	0	0	16	0	0	0	0	0	0	0	0	0	0
EW-02C (140)	6/1/1997	312	25	202	56	0	5	0	3	0	0	0	16	0	0	0	0	0	0	0	0	0	0
EW-02C (170')	6/1/1997	169	10	79	25	0	0	0	4	0	9	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (170)	6/1/1997	169	10	79	25	0	0	0	4	0	9	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (190')	6/1/1997	187	79	77	14	0	4	0	5	0	0	0	0	0	0	3	0	0	0	0	0	0	0
EW-02C (190)	6/1/1997	187	79	77	14	0	4	0	5	0	0	0	0	0	0	3	0	0	0	0	0	0	0
EW-02C (212')	6/1/1997	104	37	40	10	0	6	0	9	0	0	0	0	0	0	2	0	0	0	0	0	0	0
EW-02C (212)	6/1/1997	104	37	40	10	0	6	0	9	0	0	0	0	0	0	2	0	0	0	0	0	0	0
EW-02C (230')	6/1/1997	161	35	87	36	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (230)	6/1/1997	161	35	87	36	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (250')	6/1/1997	110	17	59	33	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (250)	6/1/1997	110	17	59	33	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EW-02C (300')	6/1/1997	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (300)	6/1/1997	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value



**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
EW-02C (400')	6/1/1997	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (400)	6/1/1997	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (62')	6/1/1997	23	7	4	2	0	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (62)	6/1/1997	23	7	4	2	0	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (80')	6/1/1997	1,010	38	5	0	0	151	0	649	0	5	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (80)	6/1/1997	1,005	38	5	0	0	151	0	649	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (90')	6/1/1997	557	129	19	22	0	112	0	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-02C (90)	6/1/1997	557	129	19	22	0	112	0	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1B	11/1/1998	1,060	487	197	138	0	86	0	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1B	4/16/1999	836	620	75	0	0	27	63	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1B	8/9/1999	1,002	750	90	0	0	33	68	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1C	11/1/1998	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1C	4/21/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-1C	8/9/1999	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-2B	11/1/1998	757	65	373	79	0	19	0	7	3	4	200	0	0	0	0	0	0	0	0	0	0	0
EW-2B	4/16/1999	446	31	220	0	0	0	65	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0
EW-2B	8/9/1999	245	20	130	0	0	0	32	0	0	0	53	0	0	0	0	0	0	0	0	10	0	0
EW-2C	11/1/1998	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-2C	4/21/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-2C	8/9/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EZ-EM MW-2	1/1/1993	71	62	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EZ-EM MW-2	1/1/1995	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EZ-EM UN-4	1/1/1995	441	210	81	0	0	0	17	130	2	0	0	0	0	0	0	0	0	0	0	0	0	0
EZ-EM UN-4	9/4/1998	547	293	109	0	0	0	24	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-1 (56-58)	12/17/1998	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	0	0
FG-2 (56-58)	12/17/1998	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0
FG-3 (56-58)	12/17/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-4 (56-58)	12/18/1998	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-5 (61-63)	12/18/1998	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-6 (61-63)	12/16/1998	52	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0
FG-7 (61-63)	1/8/1999	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-7 (76-78)	1/8/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-7 (91-93)	1/8/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FG-9 (61-63)	1/8/1999	560	560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NYSDEC Class G.A. Standards (n)	Total VOCs	PCE	TCE	cis 1,2 DCE		trans 1,2 DCE		1,1 DCE		1,1,1 DCE		1,2 DCA	1,2,4 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	p-Xylene	m-Xylene	o-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
					DCE	DCE	DCE	DCE	TCA	TCA	TCA	5																5
FG-9 (76-78)	1/8/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FG-9 (91-93)	1/8/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLGP-W1 (62-63)	9/1/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLGP-W1 (72-73)	9/1/1998	41	11	14	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLGP-W1 (92-93)	9/1/1998	227	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-202B	2/1/1998	57	38	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-204A	2/1/1998	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-204B	2/1/1998	68	33	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-204B	4/15/1999	98	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-204B	8/16/1999	85	43	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-205A	2/1/1998	144	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-205B	2/1/1998	340	110	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-205B	4/15/1999	285	110	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-205B	8/20/1999	322	130	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-206A	2/1/1998	205	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLMW-206B	2/1/1998	199	47	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-01 (60-61)	9/28/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-01 (80-81)	9/28/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-01 (91-92)	9/28/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-02 (63-64)	9/29/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-02 (79-80)	9/29/1998	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-02 (91-92)	9/29/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-03 (60-65)	9/1/1998	128	40	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-04 (60-65)	9/3/1998	3,200	3,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-10 (60-65)	8/24/1998	3,046	715	990	1,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-10 (78)	8/24/1998	518	426	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-10 (92)	8/24/1998	302	100	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-11 (63-64)	8/24/1998	149	38	46	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-11 (79-80)	8/24/1998	113	36	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-11 (93-94)	8/24/1998	128	35	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-12 (63-64)	8/24/1998	28	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-12 (79-80)	8/24/1998	34	29	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-12 (93-94)	8/24/1998	43	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-13 (63-64)	8/24/1998	232	96	80	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ppb/ft)	Date Sampled NYSDEC Class G-3 Standards (n)	Total VOCs	PCE	TCE	cis 1,2 DCE			1,1 DCE			1,1,1 TCA			1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	p-Xylene			m-Xylene			Methylene Chloride	Acetone	50 GV	4 Methyl 2 Pentanone	N/A			
					DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE									DCE	DCE	DCE	DCE	DCE	DCE						DCE	DCE	DCE
FSGP-13 (80-81)	8/24/1998	50	22	7	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
FSGP-13 (90-94)	8/24/1998	104	25	16	10	13	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
FSGP-14 (63-64)	8/24/1998	361	52	66	230	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-14 (79-80)	8/24/1998	354	50	56	239	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-14 (93-94)	8/24/1998	129	35	30	61	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-15 (63-64)	8/24/1998	812	82	80	641	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-15 (77-78)	8/24/1998	626	86	72	463	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-15 (91-92)	8/24/1998	55	26	11	0	0	0	6	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FSGP-3 (60-65)	8/24/1998	39	10	7	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-3 (73-78)	8/24/1998	28	5	2	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-3 (92)	8/24/1998	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-4 (60-65)	8/24/1998	534	458	68	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-4 (78)	8/24/1998	133	87	3	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-4 (92)	8/24/1998	181	50	8	0	0	0	0	0	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-6 (53-58)	8/24/1998	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-6 (78)	8/24/1998	12	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-6 (92)	8/24/1998	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-7 (58-63)	8/24/1998	194	146	39	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-7 (78)	8/24/1998	106	98	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-7 (92)	8/24/1998	137	123	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-8 (60-65)	8/24/1998	1,467	855	606	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-8 (78)	8/24/1998	306	245	50	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-8 (92)	8/24/1998	671	371	279	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-9 (60-65)	8/24/1998	117	32	37	47	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-9 (78)	8/24/1998	17	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSGP-9 (92)	8/24/1998	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (115)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (125)	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (50-60)	8/24/1998	9	3	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (75)	8/24/1998	14	2	1	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (85)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-01 (95)	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-02 (100)	8/24/1998	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-02 (110)	8/24/1998	5	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that component. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(n) - Division of Water Technical and Operational Guidance Series (1.1) June 1998.

N/A - Not applicable

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
FSHP-02 (120')	8/24/1998	13	10	1	0	0	0		2		0												
FSHP-02 (130')	8/24/1998	2	2	0	0	0	0		0		0												
FSHP-02 (55-65')	8/24/1998	1,098	1,020	78	0	0	0		0		0												
FSHP-02 (80')	8/24/1998	1,051	994	0	0	0	0		57		0												
FSHP-02 (90')	8/24/1998	411	52	0	0	0	0		359		0												
FSHP-03 (100')	8/24/1998	19	18	1	0	0	0		0		0												
FSHP-03 (110')	8/24/1998	14	14	0	0	0	0		0		0												
FSHP-03 (120')	8/24/1998	19	17	1	0	0	0		0		0												
FSHP-03 (130')	8/24/1998	13	13	0	0	0	0		0		0												
FSHP-03 (140')	8/24/1998	13	13	0	0	0	0		0		0												
FSHP-03 (150')	8/24/1998	11	10	1	0	0	0		0		0												
FSHP-03 (55-65')	8/24/1998	42	28	6	0	0	0		8		0												
FSHP-03 (80')	8/24/1998	25	21	2	0	0	0		2		0												
FSHP-03 (90')	8/24/1998	20	18	2	0	0	0		0		0												
FSHP-04 (100')	8/24/1998	103	44	27	7	0	0		25		0												
FSHP-04 (110')	8/24/1998	38	33	4	0	0	0		1		0												
FSHP-04 (120')	8/24/1998	16	14	2	0	0	0		1		0												
FSHP-04 (130')	8/24/1998	27	22	3	0	0	0		3		0												
FSHP-04 (140')	8/24/1998	13	12	1	0	0	0		1		0												
FSHP-04 (150')	8/24/1998	21	17	3	0	0	0		1		0												
FSHP-04 (55-65')	8/24/1998	473	92	98	274	6	0		3		0												
FSHP-04 (80')	8/24/1998	358	132	67	153	0	0		6		0												
FSHP-04 (90')	8/24/1998	79	33	3	0	0	8		35		0												
FSHP-5 (105')	8/24/1998	0	0	0	0	0	0		0		0												
FSHP-5 (115')	8/24/1998	1	1	0	0	0	0		0		0												
FSHP-5 (125')	8/24/1998	0	0	0	0	0	0		0		0												
FSHP-5 (135')	8/24/1998	1	1	0	0	0	0		0		0												
FSHP-5 (145')	8/24/1998	1	1	0	0	0	0		0		0												
FSHP-5 (50-60')	8/24/1998	3	3	0	0	0	0		0		0												
FSHP-5 (75')	8/24/1998	1	1	0	0	0	0		0		0												
FSHP-5 (85')	8/24/1998	11	11	0	0	0	0		0		0												
FSHP-5 (95')	8/24/1998	71	71	0	0	0	0		0		0												
FSHP-6 (100')	8/24/1998	105	97	7	0	0	0		0		0				0	0	0		0	0			
FSHP-6 (110')	8/24/1998	936	255	211	241	0	65		164		0				0	0	0		0	0			

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

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 Tuesday, May 02, 2000

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	DCE cis 1,2	DCE trans 1,2	DCE 1,1	DCE 1,1,1	TCA 1,1,2	TCA 1,1	1,2-DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-Xylene	p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
		(a)																						
FSHP-6 (120)	8/24/1998	123	112	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (130)	8/24/1998	151	129	19	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (140)	8/24/1998	164	130	28	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (150)	8/24/1998	133	113	16	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (50-60)	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (70)	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (80)	8/24/1998	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-6 (90)	8/24/1998	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (100)	8/24/1998	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (110)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (120)	8/24/1998	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (130)	8/24/1998	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (140)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (150)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (55-65)	8/24/1998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (80)	8/24/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSHP-7 (90)	8/24/1998	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-10A	9/9/1998	1,100	1,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-10B	9/9/1998	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-1A	9/2/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-1B	9/2/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-2A	9/1/1998	18,000	18,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-2B	9/1/1998	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-3A	9/3/1998	75	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-3B	9/3/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-4A	9/1/1998	120,000	120,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-4B	9/2/1998	26	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-5A	9/1/1998	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-5B	9/10/1998	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-6A	9/8/1998	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-6B	9/8/1998	220	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-7A	9/10/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-7B	9/8/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-8A	9/3/1998	44,000	44,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that component. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable  
 GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

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 Tuesday, May 02, 2000

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE (total)	1,2 DCE (total)	TCA	1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Chloroethene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	N/A
		5	5	5	5	5	5	5	5	5	5	5	5	2	5	1	5	5	5	5	5	50 GT	5	N/A	
FSMW-BB	9/3/1998	390	390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-9A	9/4/1998	29,355	26,680	1,249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FSMW-9B	9/9/1998	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-401 (60)	10/8/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-401 (85)	10/8/1999	37	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-402 (55)	10/11/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-402 (85)	10/11/1999	157	157	0	0	0	0	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-409 (58)	10/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-409 (85)	10/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-451 (60)	10/12/1999	11	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-451 (85)	10/12/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-458 (60)	10/15/1999	71	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-458 (87)	10/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-1 (65-)	1/1/1993	682	220	76	380	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-10 (65-)	1/1/1993	4,086	84	92	20	0	540	3,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-10 (75-)	1/1/1993	3,869	110	110	19	0	770	2,700	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-10 (85-)	1/1/1993	1,508	62	150	18	0	280	900	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-102 (63-65)	1/1/1994	96	96	7	2	0	10	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-102 (83-85)	1/1/1994	96	96	4	0	0	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-105 (63-65)	1/1/1994	458	42	160	250	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-105 (83-85)	1/1/1994	740	460	280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-106 (63-65)	1/1/1994	443	58	180	200	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-106 (83-85)	1/1/1994	4,290	2,200	2,000	74	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-107 (83-85)	1/1/1994	4,426	180	180	12	0	1,100	2,800	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-107 (90-92)	1/1/1994	2,247	120	180	17	0	520	1,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-11 (65-)	1/1/1993	631	12	23	6	0	100	460	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-11 (75-)	1/1/1993	447	13	48	3	0	66	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-11 (85-)	1/1/1993	324	14	38	2	0	25	146	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
GP-110 (63-65)	1/1/1994	474	80	12	14	0	46	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-113 (63-65)	1/1/1994	337	10	47	0	0	36	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-113 (83-85)	1/1/1994	423	18	44	0	0	70	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-114 (63-65)	1/1/1994	286	58	0	0	0	54	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-114 (83-85)	1/1/1994	75	0	47	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-115 (63-65)	1/1/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (n) - Division of Water Technical and Operational Guidance Series (L.L.1) June 1998.  
 N/A - Not applicable.  
 GT - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (49/89)	Date Sampled NYSDep Class	Total VOCs G4 Standards (a)	PCE	TCE	cis-1,2 DCE			trans-1,2 DCE			1,1,1 DCE (total)			1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene		m-Xylene		p-Xylene		Acetone	Methylene Chloride	4 Methyl 2 Pentanone		
					5	5	5	5	5	5	5	5	5										5	5	5	5	5	5				5	5
GP-115 (83-85)	1/1/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-116 (83-85)	1/1/1994	72	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-116 (83-85)	1/1/1994	50	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-117 (63-65)	1/1/1994	227	9	95	0	0	15	0	0	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-117 (65- )	1/1/1993	477	26	380	21	0	32	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-117 (73-75)	1/1/1994	477	26	380	21	0	32	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-12 (55- )	1/1/1993	237	9	31	3	0	32	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-12 (65- )	1/1/1993	2,435	62	440	0	3	520	0	0	1,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-12 (75- )	1/1/1993	4,848	140	1,100	130	5	990	3	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-120 (63-65)	1/1/1994	20	4	6	9	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-120 (83-85)	1/1/1994	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-121 (63-65)	1/1/1994	22	1	15	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-121 (83-85)	1/1/1994	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-122 (63-65)	1/1/1994	10	3	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-122 (83-85)	1/1/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-124 (63-65)	1/1/1994	50	5	14	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-124 (83-85)	1/1/1994	114	16	27	1	0	22	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-125 (73-75)	10/31/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-125 (90-92)	10/31/1995	17,000	17,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-126 (73-75)	1/1/1995	24,000	24,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-126 (93-95)	10/31/1995	21,000	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-127 (93-95)	1/1/1995	6	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-128 (60-62)	11/2/1995	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-128 (73-75)	11/2/1995	48	6	2	0	0	8	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-128 (93-95)	11/2/1995	6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-129 (60-62)	11/3/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-129 (75-77)	11/3/1995	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-13 (55- )	1/1/1993	61	45	9	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-13 (65- )	1/1/1993	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-13 (85- )	1/1/1993	20	8	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-130 (60-62)	11/6/1995	15	7	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-130 (73-75)	11/6/1995	18	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-130 (91-93)	11/6/1995	72	34	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-130 (SW) (0-0)	11/10/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
	NYSDEC Class GA Standards (n)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	5	5	5
GP-131 (60-62)	11/3/1995	20,000	20,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-131 (73-75)	11/3/1995	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-131 (93-95)	11/3/1995	14,000	14,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-132 (60-62)	11/6/1995	230	0	0	0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-132 (73-75)	11/7/1995	460	0	0	0	0	0	0	460	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-132 (93-95)	11/7/1995	24	8	4	0	0	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-133 (73-75)	11/6/1995	110	0	10	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-133 (93-95)	11/6/1995	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-134 (60-62)	11/7/1995	20,000	20,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-134 (73-75)	11/7/1995	2,200	2,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-134 (93-95)	11/7/1995	4,400	4,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-135 (73-75)	11/7/1995	37	23	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-135 (93-95)	11/7/1995	410	410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-136 (60-62)	11/7/1995	2,600	2,200	0	0	0	0	0	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-136 (73-75)	11/7/1995	830	0	0	0	0	0	0	830	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-136 (93-95)	11/7/1995	670	670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-137 (60-62)	11/8/1995	184	80	20	48	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-137 (73-75)	11/8/1995	191	24	0	32	0	16	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-137 (85-87)	11/8/1995	64	11	0	14	0	6	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-138 (60-62)	11/8/1995	253	160	27	32	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-138 (73-75)	11/8/1995	388	320	24	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-138 (88-90)	11/8/1995	55	23	0	0	0	12	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-139 (60-62)	11/8/1995	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-139 (73-75)	11/8/1995	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-139 (93-95)	11/8/1995	14	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-14 (55- )	1/1/1993	968	15	93	340	1	30	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-14 (65- )	1/1/1993	653	25	22	76	0	20	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-140 (60-62)	11/16/1995	70	0	6	0	0	5	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-140 (73-75)	11/16/1995	30	0	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-140 (93-95)	11/16/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-141 (60-62)	11/9/1995	12,000	12,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-141 (73-75)	11/9/1995	16,200	14,000	1,100	1,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-141 (93-95)	11/9/1995	22,000	22,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-142 (61-63)	11/9/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value



**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
GP-143 (64-66)	11/9/1995	15	6	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-144 (60-62)	11/10/1995	61	49	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-144 (73-75)	11/10/1995	76	48	13	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-144 (93-95)	11/10/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-145 (60-62)	11/10/1995	22,500	20,000	1,200	1,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-145 (73-75)	11/10/1995	40,200	37,000	2,200	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-145 (92-94)	11/10/1995	3,200	3,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-146 (60-62)	11/10/1995	300	130	0	0	0	0	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-146 (73-75)	11/10/1995	130	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-146 (93-95)	11/10/1995	85	59	15	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-147 (60-62)	11/13/1995	350	0	0	0	0	0	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-147 (73-75)	11/13/1995	134	25	25	0	0	14	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-147 (86-88)	11/13/1995	800	200	160	0	0	100	340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-148 (60-62)	11/13/1995	35	14	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-148 (67-69)	11/13/1995	30	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-149 (60-62)	11/13/1995	200	34	48	0	0	18	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-149 (70-72)	11/13/1995	289	40	150	14	0	23	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-15 (65- )	1/1/1993	789	89	470	44	0	66	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-15 (75- )	1/1/1993	2,173	150	1,500	72	2	290	140	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-15 (85- )	1/1/1993	33	11	10	0	0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-150 (60-62)	11/14/1995	660	0	490	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-150 (73-75)	11/14/1995	1,130	0	990	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-150 (78-81)	11/14/1995	4,080	0	3,700	380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-151 (60-62)	11/14/1995	36	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-151 (67-69)	11/14/1995	125	52	38	0	0	15	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-152 (60-62)	11/15/1995	12	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-152 (73-75)	11/15/1995	28	0	10	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-152 (93-95)	11/15/1995	85	20	23	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-157 (60-62)	11/16/1995	320	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-157 (73-75)	11/16/1995	1,100	1,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-157 (93-95)	11/16/1995	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-158 (60-62)	11/17/1995	69	20	36	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-158 (93-95)	11/17/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-159 (60-62)	11/17/1995	185	130	43	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

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N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	56 GV	5	N/A
GP-159 (73-75)	11/17/1995	62	50	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-159 (93-95)	11/17/1995	60	19	23	12	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-16 (65- )	1/1/1993	15	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-16 (75- )	1/1/1993	89	4	35	3	0	0	1	0	0	0	0	0	0	35	0	0	2	3	0	0	0	0
GP-16 (85- )	1/1/1993	86	0	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-160 (60-62)	11/17/1995	97	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-160 (73-75)	11/17/1995	190	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-160 (93-95)	11/17/1995	150	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-161 (60-62)	11/27/1995	510	0	140	370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-161 (73-75)	11/27/1995	238	0	110	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-161 (93-95)	11/27/1995	120	33	52	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162 (60-62)	11/27/1995	730	0	190	540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162 (73-75)	11/27/1995	116	64	27	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162 (93-95)	11/27/1995	380	140	100	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162D (60-62)	11/28/1995	44	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162D (73-75)	11/28/1995	249	150	89	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-162D (93-95)	11/28/1995	1,280	840	440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-163 (60-62)	11/27/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-163 (73-75)	11/27/1995	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-164 (60-62)	11/27/1995	154	0	14	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-164 (73-75)	11/27/1995	215	0	0	180	0	0	0	0	0	0	25	0	10	0	0	0	0	0	0	0	0	0
GP-164 (93-95)	11/27/1995	140	0	0	130	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
GP-165 (60-62)	11/27/1995	970	0	0	970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-165 (73-75)	11/27/1995	1,100	0	0	1,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-165 (93-95)	11/27/1995	1,520	0	120	1,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-166 (58-60)	11/27/1995	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-166 (73-75)	11/27/1995	250	230	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-166 (93-95)	11/27/1995	200	170	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-167 (60-62)	11/28/1995	820	300	240	280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-167 (73-75)	11/28/1995	3,560	3,000	560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-167 (93-95)	11/28/1995	4,160	3,000	820	0	0	0	340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-17 (65- )	1/1/1993	114	77	4	20	0	2	2	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
GP-17 (75- )	1/1/1993	105	54	5	23	0	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-171 (60-62)	11/28/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

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N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (up/kg)	Date Sampled	Total VOCs	PCE	TCE	cis-1,2 DCE		trans-1,2 DCE		1,1-DCE		1,2-DCE		1,1,1 TCA		1,1,1,1 TCA		Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-Xylene	p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
					DCE	DCE	DCE	DCE	5	5	5	5	5	5	5	5												5
GP-171 (73-75)	11/28/1995	160	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-171 (93-95)	11/28/1995	258	190	54	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-173 (60-62)	11/28/1995	1,240	0	0	0	0	0	280	0	780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-173 (70-72)	11/28/1995	2,470	180	1,900	120	0	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-174 (60-62)	11/29/1995	365	320	11	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-174 (73-75)	11/29/1995	234	180	14	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-174 (93-95)	11/29/1995	220	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-175 (60-62)	11/29/1995	22	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-175 (73-75)	11/29/1995	110	0	5	0	0	0	14	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-176 (60-62)	11/29/1995	133	70	30	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-176 (73-75)	11/29/1995	46	17	11	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-176 (93-95)	11/29/1995	30	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-178 (93-95)	11/29/1995	207	170	28	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-178R (73-75)	11/30/1995	1,950	1,800	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-178R (93-95)	11/30/1995	520	520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-179 (73-75)	11/30/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-179 (93-95)	11/30/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-18 (65- )	1/1/1993	92	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-18 (75- )	1/1/1993	22	20	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-18 (85- )	1/1/1993	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-180 (60-62)	11/30/1995	2,800	2,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-180 (73-75)	11/30/1995	12,900	11,000	0	1,900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-180 (93-95)	11/30/1995	14,800	12,000	1,200	1,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-181 (73-75)	12/1/1995	278	200	18	17	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-181 (82-84)	12/1/1995	50	36	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-182 (60-62)	12/1/1995	191	15	36	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-182 (73-75)	12/1/1995	96	74	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-182 (93-95)	12/1/1995	730	490	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-183 (73-75)	12/4/1995	79	74	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-183 (93-95)	12/4/1995	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-184 (60-62)	12/4/1995	1,600	1,500	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-184 (73-75)	12/4/1995	210	0	0	0	0	0	0	0	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-184 (93-95)	12/4/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-185 (63-65)	12/4/1995	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value



Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (wq/kg)	Date Sampled NYSDEC Class	Trial VOCs GA Standards (g)	PCE	cis 1,2 DCE			trans 1,2 DCE			1,1-DCE (total)	1,1,1-DCE	1,1,1,2-TCA	1,2-DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene			m-Xylene			p-Xylene	Acetone	Methylene Chloride	4-Methyl 2-Pentanone	N/A			
				5	5	5	5	5	5												5	5	5	5	5	5						5	5	5
GP-21 (65-)	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GP-21 (75-)	1/1/1993	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GP-21 (85-)	1/1/1993	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GP-21-GW01	10/1/1998	9	0	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0		
GP-210 (60-62)	1/1/1996	695	55	49	24	0	0	67	0	460																								
GP-211 (60-62)	1/1/1996	4	0	0	0	0	0	0	0	4																								
GP-212 (60-62)	1/1/1996	180	180	0	0	0	0	0	0	0																								
GP-219 (60-62)	1/1/1996	0	0	0	0	0	0	0	0	0																								
GP-22 (65-)	1/1/1993	156	50	11	13	0	0	0	0	0	0	0	0	0	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-22 (75-)	1/1/1993	882	530	130	20	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-22 (85-)	1/1/1993	296	46	17	11	0	0	0	0	0	0	0	0	0	0	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-22-GW01	10/1/1999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-220 (60-62)	1/1/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-221 (60-62)	1/1/1996	70	0	0	0	0	0	17	0	53																								
GP-222 (60-62)	1/1/1996	700	0	170	0	0	0	110	0	420																								
GP-223 (60-62)	1/1/1996	0	0	0	0	0	0	0	0	0																								
GP-224 (60-62)	1/1/1996	182	25	54	14	0	0	0	0	89																								
GP-225 (60-62)	1/1/1996	970	970	0	0	0	0	0	0	0																								
GP-226 (60-62)	1/1/1996	1,600	1,600	0	0	0	0	0	0	0																								
GP-228 (60-62)	1/1/1996	111	77	23	0	0	0	0	0	11																								
GP-229 (60-62)	1/1/1996	13	8	6	0	0	0	0	0	0																								
GP-23 (65-)	1/1/1993	676	280	240	5	0	21			130																								
GP-23 (75-)	1/1/1993	202	74	35	0	0	13			80																								
GP-23 (85-)	1/1/1993	75	21	49	1	0	0	0	0	4																								
GP-23-GW01	10/1/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GP-230 (60-62)	1/1/1996	464	34	170	260	0	0	0	0	0																								
GP-231 (60-62)	1/1/1996	0	0	0	0	0	0	0	0	0																								
GP-232 (60-62)	1/1/1996	37	37	0	0	0	0	0	0	0																								
GP-233 (60-62)	1/1/1996	1,100	1,100	0	0	0	0	0	0	0																								
GP-234 (60-62)	1/1/1996	126	0	7	0	0	0	9	0	110																								
GP-235 (60-62)	1/1/1996	0	0	0	0	0	0	0	0	0																								
GP-237 (60-62)	1/1/1996	340	340	0	0	0	0	0	0	0																								
GP-238 (60-62)	1/1/1996	1,330	0	330	1,000	0	0	0	0	0																								
GP-24 (65-)	1/1/1993	2,739	2	170	2,300	8	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(g) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GY - Guidance Value



Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (µg/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
		NYSDEC Class GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
GP-260 (92-96')	9/4/1997	1,223	180	200	170	0	180	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-261 (60-64')	9/4/1997	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-261 (72-76')	9/4/1997	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
GP-261 (92-96')	9/4/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-262 (60-64')	9/4/1997	22	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-262 (72-76')	9/4/1997	736	590	140	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-262 (92-96')	9/4/1997	427	340	83	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-263 (60-64)	9/5/1997	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-263 (72-76)	9/5/1997	12	1	0	0	0	1	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
GP-263 (92-96)	9/5/1997	82	9	5	8	8	8	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-264 (60-64)	9/29/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-264 (72-76)	9/29/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-264 (92-96)	9/29/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-265 (64-68)	9/29/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-27 (55- )	1/1/1993	33	14	13	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-27 (65- )	1/1/1993	53	29	19	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-27 (85- )	1/1/1993	65	28	26	6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-27-GW01	10/1/1999	390	0	0	31	0	0	0	0	0	0	0	0	0	3	91	81	75	98	0	0	0	0
GP-28 (65- )	1/1/1993	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
GP-28-GW01	10/1/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-29 (65- )	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-29 (75- )	1/1/1993	17	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-29-GW01	10/1/1999	56	0	6	19	0	0	0	0	0	0	0	0	0	0	11	3	6	10	0	0	2	0
GP-3 (55- )	1/1/1993	108	0	79	7	2	14	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-3 (65- )	1/1/1993	21	1	16	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-30 (65- )	1/1/1993	2,700	0	0	0	0	0	0	2,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-30 (75- )	1/1/1993	2,270	0	0	0	0	0	0	970	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-30 (85- )	1/1/1993	421	25	3	9	0	14	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-30-GW01	10/1/1999	633	1	2	46	0	0	0	0	0	0	0	0	0	5	96	130	150	160	0	0	6	0
GP-301 (55)	12/2/1998	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
GP-301 (65)	12/2/1998	184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0
GP-302 (55)	12/3/1998	248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0
GP-303 (55)	12/4/1998	102	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	70	0	0
GP-303 (65)	12/4/1998	460	0	0	0	0	17	0	100	0	0	0	0	0	0	0	0	0	0	0	180	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
	NYSDEC Class GA Standards (u)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	5	5	5
GP-304 (55)	12/10/1998	1,028	0	0			68	0	870	0	0	0		0	0	0	0	0			0	0	0
GP-304 (65)	12/10/1998	2,565	25	260			280	0	1,700	0	0	0		0	0	0	0	0			0	0	0
GP-305 (55)	12/4/1998	2,750	0	110			280	0	1,800	0	0	0		0	0	0	0	0			0	0	0
GP-306 (55)	12/7/1998	255	0	0			0	0	190	0	0	0		0	0	0	0	0			39	12	0
GP-31 (65- )	1/1/1993	325	300	10	0	0	0		15		0		0		0	0	0		0	0			
GP-31 (75- )	1/1/1993	165	140	13	0	0	0		12		0		0		0	0	0		0	0			
GP-31 (85- )	1/1/1993	84	21	48	0	0	0		15		0		0		0	0	0		0	0			
GP-31-GW01	10/1/1999	61	0	5	41	0	0		0	0	0	0		0	2	0	0		4	2		7	
GP-310 (55)	12/14/1998	41	0	0			0	0	15	0	0	0		0	0	0	0	0			26	0	0
GP-312 (65)	12/11/1998	102	0	0			0	0	0	0	0	0		0	0	0	0	0			80	0	0
GP-313 (55)	1/25/1999	31	0	0			0	0	0	0	0	0		0	0	31	0	0			0	0	0
GP-315 (55)	1/28/1999	14	14	0			0	0	0	0	0	0		0	0	0	0	0			0	0	0
GP-315 (65)	1/28/1999	421	370	51			0	0	0	0	0	0		0	0	0	0	0			0	0	0
GP-316 (55)	1/28/1999	38	0	15			0	12	0	0	0	0		0	0	0	0	0			11	0	0
GP-317 (55)	1/27/1999	55	0	0			0	12	0	0	0	0		0	0	0	0	0			29	0	0
GP-317 (65)	1/27/1999	11	0	0			0	0	0	0	0	0		0	0	0	0	0			11	0	0
GP-319 (55)	12/15/1998	215	26	56			0	110	0	0	0	0		0	0	0	0	0			23	0	0
GP-319 (65)	12/15/1998	226	88	51			0	76	0	0	0	0		0	0	0	0	0			11	0	0
GP-32 (65- )	1/1/1993	2,546	2,200	46	48	0	0		220		0		0		0	0	0		0	0			
GP-32 (75- )	1/1/1993	3,453	2,500	13	0	0	0		830		0		0		0	0	0		0	0			
GP-32 (85- )	1/1/1993	8,014	5,300	32	5	0	190		2,300		8		0		0	0	0		0	0			
GP-32-GW01	10/1/1999	679	2	97	562	0	0		8	0	0	0		0	0	0	0		0	0		7	
GP-320 (55)	12/10/1998	486	0	76			0	410	0	0	0	0		0	0	0	0	0			0	0	0
GP-320 (65)	12/10/1998	620	0	130			0	490	0	0	0	0		0	0	0	0	0			0	0	0
GP-321 (55)	1/18/1999	10	0	0			0	0	0	0	0	0		0	0	0	0	0			0	0	0
GP-324 (55)	1/26/1999	166	0	11			0	42	0	0	0	0		0	0	0	0	0			83	0	0
GP-324 (65)	1/26/1999	103	0	17			0	44	0	0	0	0		0	0	0	0	0			30	0	0
GP-325 (55)	1/26/1999	200	0	0			0	180	0	0	0	0		0	0	0	0	0			20	0	0
GP-33 (65- )	1/1/1993	4	4	0	0	0	0		0		0		0		0	0	0		0	0			
GP-33 (75- )	1/1/1993	4	4	0	0	0	0		0		0		0		0	0	0		0	0			
GP-33 (85- )	1/1/1993	0	0	0	0	0	0		0		0		0		0	0	0		0	0			
GP-33-GW01	10/1/1999	123	0	17	96	0	0		1	0	0	0		0	1	0	0		0	0		7	
GP-34 (75- )	1/1/1993	77	4	0	0	0	0		0		0		0		8	0	6		44	15			
GP-34 (85- )	1/1/1993	3	2	0	0	0	0		0		0		0		0	0	0		1	0			

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value



**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

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Sample ID (up/kg)	Date Sampled NYSDEC Class GA Standards (b)	Total POCs	PCE		TCE		cis 1,2 DCE			trans 1,2 DCE		1,1 DCE		1,2 DCE		1,1,1 TCA	1,1,2 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)		m,p- Xylene			o- Xylene		Acetone	50 CY	Methylene Chloride	4-Methyl 2-Pentanone			
			5	5	5	5	1	5	5	5	5	5	5	5	5											5	5	5	5	5	5	5					5	5	5
			984	2	5	30	9	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-34-GW01	10/1/1999	984	2	5	30	9	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9		
GP-35 (55-)	1/1/1993	70	7	7	4	0	6	41																															
GP-35 (65-)	1/1/1993	129	19	20	6	0	10	67																															
GP-35-GW01	10/1/1999	218	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GP-36 (65-)	1/1/1993	17	0	8	3	0	0	6																															
GP-36 (75-)	1/1/1993	21	0	8	0	0	0	13																															
GP-36 (85-)	1/1/1993	3	2	0	0	0	0	1																															
GP-36-GW01	10/1/1999	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
GP-37 (65-)	1/1/1993	15	4	6	2	0	0	0																															
GP-37 (75-)	1/1/1993	15	0	2	6	0	0	0																															
GP-37 (85-)	1/1/1993	4	1	0	1	0	0	0																															
GP-37-GW01	10/1/1999	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
GP-38 (55-)	1/1/1993	48	8	6	3	0	0	26																															
GP-38 (65-)	1/1/1993	349	65	43	26	0	22	160																															
GP-38 (75-)	1/1/1993	262	21	33	24	0	15	140																															
GP-39 (55-)	1/1/1993	147	42	22	33	0	0	37																															
GP-39 (65-)	1/1/1993	253	85	32	39	0	8	69																															
GP-4 (55-)	1/1/1993	115	3	3	0	0	0	100																															
GP-4 (65-)	1/1/1993	196	2	140	3	0	0	50																															
GP-4 (85-)	1/1/1993	28	7	4	0	0	0	9																															
GP-41 (55-)	1/1/1993	2	0	0	0	0	0	2																															
GP-41 (65-)	1/1/1993	2	0	0	0	0	0	2																															
GP-41 (75-)	1/1/1993	3	0	0	0	0	0	3																															
GP-42 (65-)	1/1/1993	4	0	0	0	0	0	3																															
GP-42 (75-)	1/1/1993	0	0	0	0	0	0	0																															
GP-43 (65-)	1/1/1993	0	0	0	0	0	0	0																															
GP-43 (65-67)	1/1/1994	0	0	0	0	0	0	0																															
GP-43 (83-85)	1/1/1994	0	0	0	0	0	0	0																															
GP-44 (63-65)	1/1/1994	61	10	7	5	0	10	22																															
GP-44 (83-85)	1/1/1994	68	14	10	5	0	15	17																															
GP-45 (63-65)	1/1/1994	27	3	4	2	0	4	8																															
GP-45 (83-85)	1/1/1994	45	14	6	2	0	4	11																															
GP-5 (55-)	1/1/1993	3	1	0	0	0	1	0																															
GP-5 (65-)	1/1/1993	6	2	0	0	0	1	1																															

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(b) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

CY - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
GP-5 (75-)	1/1/1993	90	34	7	5	0	9	26	0	0	0	0	0	0	0	0	0	0	2				
GP-50 (63-65)	1/1/1994	27	1	8	1	0	8	6	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-50 (83-85)	1/1/1994	27	4	14	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-51 (63-65)	1/1/1994	2,701	130	2,200	73	0	160	120	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-51 (78-80)	1/1/1994	3,046	100	2,600	86	1	160	72	6	0	0	0	0	0	0	0	0	0	0	0		0	
GP-53 (63-65)	1/1/1994	64	15	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-53 (76-78)	1/1/1994	84	25	13	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-55 (63-65)	1/1/1994	5,324	280	670	39	0	1,100	2,900	15	0	0	0	0	0	0	0	0	0	0	0		0	
GP-55 (77-79)	1/1/1994	3,513	200	130	13	0	760	2,300	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-59 (63-65)	1/1/1994	69	13	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-59 (83-85)	1/1/1994	37	19	15	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-6 (55-)	1/1/1993	1,737	88	6	13	0	190	1,260	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-6 (65-)	1/1/1993	1,042	42	4	9	0	98	800	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-6 (75-)	1/1/1993	635	50	6	2	0	92	460	2	0	0	0	0	0	0	0	0	0	0	0		0	
GP-61 (63-65)	1/1/1994	129	15	25	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-61 (83-85)	1/1/1994	596	108	108	14	0	63	280	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-62 (63-65)	1/1/1994	298	230	67	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-62 (83-85)	1/1/1994	1,718	1,400	310	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-63 (63-65)	1/1/1994	30	1	1	25	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		0	
GP-63 (83-85)	1/1/1994	11	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-64 (63-65)	1/1/1994	33	3	8	7	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-64 (78-80)	1/1/1994	36	1	1	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-65 (63-65)	1/1/1994	54	19	2	1	0	3	23	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-65 (83-85)	1/1/1994	68	6	2	0	0	10	38	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-66 (63-65)	1/1/1994	12	1	0	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-68 (63-65)	1/1/1994	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-68 (83-85)	1/1/1994	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-69 (63-65)	1/1/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-69 (83-85)	1/1/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-7 (55-)	1/1/1993	19	5	4	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-7 (65-)	1/1/1993	24	8	6	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-7 (75-)	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-70 (63-65)	1/1/1994	28	4	8	10	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0		0	
GP-70 (83-85)	1/1/1994	11	5	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (u)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
GP-72 (63-65)	1/1/1994	1,390	1,300	71	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-72 (83-85)	1/1/1994	91,338	83,000	5,900	2,400	27	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-73 (63-65)	1/1/1994	28	8	0	0	0	0	0	0	0	0	0	0	0	7	0	0	4	10	0	0	0	0
GP-73 (83-85)	1/1/1994	59	21	0	0	0	0	0	0	0	0	0	0	9	0	0	7	21	0	0	0	0	0
GP-74 (63-65)	1/1/1994	10,093	10,000	69	17	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-74 (83-85)	1/1/1994	332	300	8	0	0	0	0	17	0	0	0	0	2	0	0	1	4	0	0	0	0	0
GP-75 (63-65)	1/1/1994	2,034	1,600	45	0	0	0	0	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-75 (83-85)	1/1/1994	688	49	63	0	0	45	0	470	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-78 (63-65)	1/1/1994	847	15	0	0	0	0	0	280	0	0	0	0	0	0	0	0	29	0	0	0	23	0
GP-8 (55- )	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-8 (65- )	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-8 (75- )	1/1/1993	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-80 (63-65)	1/1/1994	17,877	65	0	0	0	100	0	9,800	12	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-80 (83-85)	1/1/1994	17,700	0	0	0	0	0	0	9,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-81 (63-65)	1/1/1994	1,746	120	11	0	0	95	0	1,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-81 (83-85)	1/1/1994	3,700	140	0	10	0	320	0	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-82 (63-65)	1/1/1994	1,910	82	53	0	0	140	0	1,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-82 (83-85)	1/1/1994	387	32	86	0	0	59	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-83 (63-65)	1/1/1994	3,314	60	260	14	0	330	0	2,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-84 (63-65)	1/1/1994	64	2	23	0	0	3	0	9	0	0	0	0	8	0	0	4	10	0	0	0	0	0
GP-84 (83-85)	1/1/1994	22	12	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-85 (63-65)	1/1/1994	26	1	0	0	0	0	0	6	0	0	0	0	4	0	0	5	10	0	0	0	0	0
GP-86 (63-65)	1/1/1994	13	2	0	0	0	0	0	0	0	0	0	0	2	0	0	2	6	0	0	0	0	0
GP-86 (83-85)	1/1/1994	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0
GP-87 (63-65)	1/1/1994	142	57	0	0	0	0	0	46	0	0	0	0	0	0	0	0	21	0	0	0	0	0
GP-87 (83-85)	1/1/1994	160	0	14	2	0	66	0	48	0	0	0	0	2	0	0	0	4	0	0	0	0	0
GP-88 (63-65)	1/1/1994	12	5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	0	0	0
GP-88 (83-85)	1/1/1994	10	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	0	0	0
GP-9 (65- )	1/1/1993	74	70	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-9 (75- )	1/1/1993	41	40	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-9 (85- )	1/1/1993	66	65	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-90 (63-65)	1/1/1994	33	0	0	0	0	0	0	2	0	0	0	0	7	0	0	6	17	0	0	0	0	0
GP-90 (83-85)	1/1/1994	18	1	0	0	0	0	0	3	0	0	0	0	3	0	0	3	8	0	0	0	0	0
GP-91 (63-65)	1/1/1994	17	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	10	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/g)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,1,1 TCA	1,2 DCA	Chloroform	Chloro	Tri	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone	50 GV	Chloride	Methylene	4 Methyl 2	Pentamone	
		(g)																										
GP-91 (83-85)	1/1/1994	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0
GP-92 (83-85)	1/1/1994	94	21	5	13	0	4	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	2	7	0	0	0	0
GP-93 (83-85)	1/1/1994	33	14	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-94 (83-85)	1/1/1994	196	170	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-94 (83-85)	1/1/1994	78	33	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-95 (83-85)	1/1/1994	13,951	12,000	1,900	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-96 (83-85)	1/1/1994	50	3	7	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-96 (83-85)	1/1/1994	38	1	7	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
GP-97 (83-85)	1/1/1994	53,357	46,000	3,700	3,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-97 (83-85)	1/1/1994	101,182	92,000	5,000	4,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-98 (83-85)	1/1/1994	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-98 (83-85)	1/1/1994	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-99 (83-85)	1/1/1994	330	10	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP-99 (83-85)	1/1/1994	79	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAYCO MW-3	1/1/1993	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAYCO MW-3	1/1/1993	33	9	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARMON MW-1	1/1/1993	2,979	9	660	0	0	2,300	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (100)	9/8/1997	46	3	41	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (110)	9/8/1997	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (120)	9/8/1997	28	27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (130)	9/8/1997	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (140)	9/8/1997	44	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (150)	9/8/1997	552	200	175	129	5	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0
HP-01 (60)	9/8/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (70)	9/8/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (80)	9/8/1997	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-01 (90)	9/8/1997	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-02 (100)	9/1/1/1997	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-02 (110)	9/1/1/1997	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-02 (120)	9/1/1/1997	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-02 (130)	9/1/1/1997	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound. (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998

N/A - Not applicable

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
HP-02 (140)	9/11/1997	2	2	0	0	0	0	0	0	0	0	0										0	
HP-02 (150)	9/11/1997	3	3	0	0	0	0	0	0	0	0	0										0	
HP-02 (60)	9/11/1997	0	0	0	0	0	0	0	0	0	0	0										0	
HP-02 (70)	9/11/1997	27	27	0	0	0	0	0	0	0	0	0										0	
HP-02 (80)	9/11/1997	6	6	0	0	0	0	0	0	0	0	0										0	
HP-02 (90)	9/11/1997	9	9	0	0	0	0	0	0	0	0	0										0	
HP-03 (100)	9/15/1997	2	1	0	0	0	0	0	1	0	0	0	0			0						0	
HP-03 (110)	9/15/1997	241	77	45	99	1	16	0	0	0	0	0				0						0	
HP-03 (120)	9/15/1997	161	13	46	100	0	2	0	0	0	0	0				0						0	
HP-03 (130)	9/15/1997	268	42	202	23	0	1	0	0	0	0	0				0						0	
HP-03 (140)	9/15/1997	33	4	0	4	0	25	0	0	0	0	0				0						0	
HP-03 (150)	9/15/1997	45	4	0	4	0	29	0	0	0	0	0				3						0	
HP-03 (60)	9/15/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-03 (70)	9/15/1997	4	2	0	0	0	2	0	0	0	0	0				0						0	
HP-03 (80)	9/15/1997	5	3	0	0	0	2	0	0	0	0	0				0						0	
HP-03 (90)	9/15/1997	18	5	2	0	0	11	0	0	0	0	0				0						0	
HP-04 (100)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (110)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (120)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (130)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (140)	9/17/1997	1	1	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (150)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (60)	9/17/1997	1	0	1	0	0	0	0	0	0	0	0				0						0	
HP-04 (70)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (80)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-04 (90)	9/17/1997	0	0	0	0	0	0	0	0	0	0	0				0						0	
HP-05 (60)	9/22/1997	753	53	570	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-05 (70)	9/22/1997	908	48	680	0	0	5	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HP-05 (80)	9/22/1997	1,638	99	1,400	0	0	0	100	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0
LONJJO MW-1	11/1/1993	202	86	17			95	2							0	0	0		0	0			
MDC-1D (93-103)	11/17/1998	4,750	0	0			430	0	3,700	0	0	0	0	0								0	
MDC-1D (93-103)	11/18/1998	2,818	0	0			144	0	2,410	0	0	0	0	0								0	
MDC-1S (51-62)	11/18/1998	26,500	0	0			1,700	0	2,000	0	0	0	0	0								0	
mw-1	10/1/1998	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table S.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Tuesday, May 02, 2000

Sample ID (ug/kg)	Date Sampled NTSDEC Class G.A. Standards (a)	Total VOCs	PCE	TCE	cis-1,2 DCE			trans-1,2 DCE			1,1 DCE			1,2 DCE			I,I,T TCA	I,I,I TCA	1,1,1,2 TCA	1,2-DCM	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			o-Xylene	p-Xylene	m-Xylene	Acetone	Merhylene Chloride	4-Methyl 2-Pentanone	N/A				
					\$	5	5	\$	5	5	\$	5	5	\$	5	5											\$	5	5								\$	5	5	\$
mw-1	12/31/1986	199	0	69	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mw-1	10/1/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mw-2	10/1/1988	120	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
mw-2	10/1/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-201	1/1/1986	13	5	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-201	2/1/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-202	1/1/1986	186	15	5	2	13	89	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-202	2/1/1988	118	14	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-203	1/1/1986	191	14	19	1	99	33	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-203	2/1/1988	124	11	14	0	66	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-3	1/1/1993	29	1	3	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-3	1/1/1995	40	2	2	5	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-3	10/1/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-3	12/31/1998	103	4	88	0	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-3	10/1/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-4	1/1/1993	1,280	360	56	64	35	720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-4	12/1/1995	678	220	48	32	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
mw-4	10/1/1998	389	120	24	20	13	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mw-7	1/1/1993	1,067	32	20	48	17	840	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mw-7	1/1/1995	1,324	59	28	130	23	930	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mw-7	10/1/1998	855	45	16	54	0	560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10292	7/18/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	12/4/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	3/26/1985	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	12/27/1985	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	10/1/1987	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	10/27/1989	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	6/7/1990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	9/18/1990	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	2/28/1991	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	5/21/1991	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10318	1/1/1993	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	10/16/1984	321	62	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	12/4/1984	2,540	1,200	1,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detected for that compound.  
(a) - Division of Water Technical and Operational Guidance Series (1,1,1) June 1998.  
N/A - Not applicable.  
GY - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	DCE	DCE	DCE	trans 1,2	1,1 DCE	1,1 DCE	1,1 DCE	1,1,1 TCA	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone	50 GV	Methylene Chloride	4 Methyl 2 Pentanone	N/A
N-10319	3/13/1985	2,650	420	2,100	0	0	0	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	3/26/1985	2,922	470	2,300	0	0	0	0	0	0	0	150	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	12/27/1985	3,540	950	2,200	0	0	0	0	0	0	0	390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	1/31/1986	4,261	2,200	1,500	7,200	0	0	0	0	0	0	560	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	9/4/1987	8,825	1,500	7,200	0	0	0	0	0	0	0	120	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	10/27/1989	6,128	1,400	4,300	350	1	3	18	540	62	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	6/18/1990	6,583	950	4,500	540	5	18	540	12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	9/17/1990	2,440	670	1,500	220	4	20	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	4/10/1991	2,633	460	1,600	230	1	7	230	99	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10319	1/23/1997	924	510	290	0	0	0	0	24	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10320	6/12/1990	11	4	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10320	3/6/1991	13	7	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10320	1/1/1993	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10320	1/1/1995	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	12/4/1984	165	2	160	0	0	0	0	3	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	3/25/1985	182	2	150	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	12/24/1985	818	58	270	0	0	0	0	0	0	0	490	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	9/16/1987	119	9	34	0	0	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	6/13/1990	65	14	6	0	0	0	0	7	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	9/14/1990	24	5	3	0	0	0	0	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	3/7/1991	66	9	4	0	0	0	0	15	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	5/22/1991	145	19	9	0	0	0	0	6	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	1/1/1993	34	3	0	0	0	0	0	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	1/1/1995	28	6	2	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	4/21/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10321	8/18/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	12/4/1984	35	13	14	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	3/25/1985	22	10	7	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	12/24/1985	8	5	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	9/30/1987	4	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	10/26/1989	12	7	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	6/14/1990	20	7	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	9/14/1990	11	6	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10322	3/6/1991	13	5	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 N/A - Guidance Value.

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/g)	Date Sampled NYSDDEC Class GA Standards (t)	Total VOCs	PCE	cis-1,2-DCE			trans-1,2-DCE			1,1-DCE			1,2-DCE			1,1,1-TCA	1,1,2-TCA	1,2-DCA	Chloroform	Vinyl Chloride		Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			o-Xylene	m-Xylene	p-Xylene	Acetone	Methylene Chloride	4-Methyl 2-Pentanone
				5	5	5	5	5	5	5	5	5	5	5	5					5	5					5	5	5						
N-10322	5/22/1991	15	8	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10322	1/1/1993	17	5	3			1	0	0	0	0	8			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10322	1/1/1995	10	4	1			0	0	0	0	0	5			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10322	4/13/1999	12	12	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10322	8/23/1999	19	19	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	12/4/1984	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	3/26/1985	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	12/24/1985	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	9/17/1987	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	6/20/1990	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	3/29/1991	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	1/1/1993	5	0	2			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	9/10/1998	0	0	0			0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10323	8/12/1999	93	26	22			0	0	0	0	0	45			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	12/4/1984	591	1	0			0	0	0	0	0	420			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	2/28/1985	518	4	4			0	0	0	0	0	510			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	12/27/1985	5,722	10	10			0	0	0	0	4,400	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	9/17/1987	1,580	0	0			0	0	0	0	1,200	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	10/30/1989	1,874	130	120			4	0	69		1,500	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	6/7/1990	1,344	130	69			4	0	410		700	0			5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	9/18/1990	1,924	73	36			1	0	490		1,300	0			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	4/4/1991	2,756	30	21			0	0	87		2,600	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	1/1/1993	442	29	36			19	0	19		350	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	1/1/1995	145	20	26			12	0	12		52	0			0	0	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0
N-10324	4/19/1999	78	18	13			0	0	0		47	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10324	8/13/1999	87	24	21			0	0	0		42	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	12/4/1984	2,419	2,300	66							42	0			9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	3/26/1985	946	920	12			0	0	0		13	0			1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	12/27/1985	481	440	10			0	0	0		31	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	9/28/1987	264	170	85			0	0	0		9	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	10/27/1989	6,662	6,400	200			24	0	10		47	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	6/12/1990	3,553	3,400	92			30	0	10		19	1			1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	9/17/1990	2,043	1,900	81			22	0	11		27	0			1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10325	4/8/1991	702	640	49			4	0	0		9	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detected for that compound.  
 (t) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1999.  
 N/A - Not applicable  
 GP - Guidance Value



Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (mg/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A	
N-10325	1/1/1993	95	51	33			0	9	2		0		0		0	0	0		0	0				
N-10325	1/1/1995	13	11	2			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-10325	4/13/1999	42	42	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-10325	8/20/1999	33	33	0			0	0	0		0	0	0	0	0	0	0	0				0	0	
N-10326	12/5/1984	134	46	24	0	0			50	0		13			0	0	0					0		
N-10326	3/25/1985	523	72	39	0	0			150	0		250			0	0	0							
N-10326	12/27/1985	488	62	100	0	0			180	0		110			0	0	0							
N-10326	9/28/1987	577	55	70	0	0			110	0		300			0	0	0							
N-10326	10/26/1989	343	86	32	29	0	9		81	0	0	82			0	0	0							
N-10326	6/18/1990	485	170	18	44	0	30		110	0	0	63	2		0	0	0					0		
N-10326	9/14/1990	406	160	6	2	0	35		130	0	0	62	1		0	0	0					0		
N-10326	4/2/1991	686	177	63	46	0	24		187	0	0	136	0		0	0	0	0	0			0		
N-10326	1/1/1993	245	89	13			12	15	110		0		0		0	0	0		0	0				
N-10326	1/1/1995	723	280	38			8	330	62	0	0	1	0	0	0	0	0	0			0	0		0
N-10326	4/13/1999	252	89	11			0	110	42	0	0	0	0	0	0	0	0	0			0	0		0
N-10326	8/19/1999	860	280	18			0	480	82		0	0	0	0	0	0	0	0			0	0		
N-10327	12/5/1984	2	1	0	0	0	0		1	0		0			0	0	0					0		
N-10327	3/25/1985	2	1	0	0	0	0		1	0		0			0	0	0					0		
N-10327	12/26/1985	2	1	0	0	0	0		1	0		0			0	0	0					0		
N-10327	9/3/1987	0	0	0	0	0	0		0	0		0			0	0	0					0		
N-10327	10/27/1989	255	5	0	1	0	15		230	0	2	0			0	0	0							
N-10327	6/12/1990	59	5	0	4	0	15		35	0	0	0	0		0	0	0					0		
N-10327	9/17/1990	15	4	0	2	0	1		8	0	0	0	0		0	0	0					0		
N-10327	3/27/1991	30	3	0	0	0	3		24	0	0	0	0		0	0	0	0				0		
N-10327	1/1/1993	0	0	0			0	0	0		0		0		0	0	0		0	0				
N-10327	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-10327	8/20/1999	0	0	0			0	0	0		0	0	0	0	0			0				0	0	
N-10328	12/5/1984	225	32	150					35	0		8			0	0	0							
N-10328	3/27/1985	172	20	120	0	0			26	0		6			0	0	0							
N-10328	12/27/1985	157	14	120	0	0			20	0		3			0	0	0							
N-10328	9/29/1987	32	4	17			0		11	0		0			0	0	0					0		
N-10328	10/26/1989	24	3	12	2	0	2		5	0	0	0			0	0	0							
N-10328	7/16/1990	41	4	17	5	0	6		8	0	0	0	0		0	0	0					0		
N-10328	9/14/1990	16	3	4	2	0	2		5	0	0	0	0		0	0	0					0		

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs NYSDEC Class GA Standards (a)	PCE 5	TCE 5	cis 1,2 DCE 5	trans 1,2 DCE 5	1,1 DCE 5	1,2 DCE (total) 5	1,1,1 TCA 5	1,1,2 TCA 1	1,2 DCA 0.6	Chloroform 7	Vinyl Chloride 2	Chloroethane 5	Benzene 1	Toluene 5	Ethylbenzene 5	Xylenes (total) 5	o- Xylene 5	m,p- Xylene 5	Acetone 50 GV	Methylene Chloride 5	4 Methyl 2 Pentanone N/A
N-10328	3/13/1991	23	3	7	3	0	3		6	0	0	0			0	0	0	0				0	
N-10328	1/1/1993	6	0	2			0	0	4		0				0	0	0		0	0			
N-10328	11/18/1998	66	0	3			6	0	54	0	0			0								0	
N-10328	4/15/1999	639	0	0			63	0	540	0	0	0		0	0	0	0	0			0	0	0
N-10328	8/19/1999	1,036	0	0			58	0	950		0	0		0				0			0	0	
N-10329	12/5/1984	5	1	1	0	0	0		3	0	0	0			0	0	0					0	
N-10329	3/27/1985	9	7	1	0	0	0		1	0	0	0			0	0	0					0	
N-10329	12/26/1985	3	0	0	0	0	0		3	0	0	0			0	0	0					0	
N-10329	9/29/1987	0	0	0	0	0	0		0	0	0	0			0	0	0					0	
N-10329	10/30/1989	2	0	0	0	0	0		2	0	0	0			0	0	0					0	
N-10329	5/24/1990	2	0	0	0	0	0		1	0	0	1	0		0	0	0	0				0	
N-10329	9/18/1990	2	0	0	0	0	0		2	0	0	0	0		0	0	0					0	
N-10329	2/21/1991	1	0	0	0	0	0		1	0	0	0	0		0	0	0	0				0	
N-10329	1/1/1993	0	0	0			0	0	0		0	0			0	0	0		0	0			
N-10329	1/1/1995	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10329	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10329	8/12/1999	0	0	0			0	0	0		0	0	0	0	0			0			0	0	
N-10458	11/25/1985	541	41	68			0		430	0	2	2										0	
N-10458	1/31/1986	487	90	64	0	0			260	0	2	2			0	0	0					0	
N-10458	10/2/1987	375	240	26	0	0			75	0	0	0			0	0	0					0	
N-10458	6/18/1990	141	10	34	2	0	20		28	0	0	2	2		0	0	0					0	
N-10458	10/11/1990	206	74	110	15	0	1		3	0	0	0	0		0	0	0					0	
N-10458	3/29/1991	148	51	61	4	0	3		21	0	0	0	0		0	0	0	0				0	
N-10458	1/1/1995	483	290	100			0	87	3	0	0	0	0	0	0	0	0	0			0	0	0
N-10458	1/23/1997	270	160	81	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10459	10/28/1985	5	0	0	0	0			5	0	0	0			0	0	0					0	
N-10459	12/31/1985	8	0	0	0	0	0		8	0	0	0			0	0	0					0	
N-10459	10/1/1987	1	0	0	0	0	0		1	0	0	0			0	0	0					0	
N-10459	11/27/1989	6	2	0	0	0	0		2	0	0	0			0	0	0					0	
N-10459	7/25/1990	1	0	0	0	0	0		0	0	0	0			0	0	0					0	
N-10459	3/27/1991	0	0	0	0	0	0		0	0	0	0			0	0	0	0				0	
N-10459	1/1/1993	2	0	0			0	0	0		0	0			2	0	0		0	0			
N-10459	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10459	8/12/1999	0	0	0			0	0	0		0	0	0	0	0			0			0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID ( $\mu$ g/lg)	Date Sampled		Total VOCs NYSDEC Class G.A. Standards (a)	PCE	TCE	cis 1,2-DCE		DCE	trans 1,2-DCE	1,1-DCE	1,1,1-DCE			1,1,2-DCE	TCA	TCA	1,2-DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			m,p-Xylene	o-Xylene	Styrene	Acetone	Methylene Chloride	4-Methyl 2-Pentanone	N/A								
	NYSDDEC	10/28/1985				5	5				5	5	5											5	5	1								5	5	5	5	5	5	5	5
N-10460			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-10460		12/31/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-10460		9/29/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-10460		11/27/1989	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10460		6/5/1990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10460		10/19/1990	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10460		3/28/1991	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10460		1/1/1993	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10460		1/1/1995	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10461		10/30/1985	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10461		12/31/1985	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10461		10/2/1987	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10461		6/5/1990	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10461		3/5/1991	13	0	0	0	0	0	0	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10461		1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10461		1/1/1995	7	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		10/28/1985	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		12/31/1985	16	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		10/2/1987	154	110	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		11/27/1989	249	200	45	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		6/5/1990	73	61	8	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		10/19/1990	103	91	8	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		3/7/1991	42	35	4	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		1/1/1993	61	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		1/1/1995	56	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		4/21/1999	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10462		8/12/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		10/31/1985	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		12/30/1985	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		9/30/1987	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		11/13/1989	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		6/13/1990	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		9/19/1990	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10463		2/29/1991	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
N-10463-	1/1/1993	0	0	0			0	0	0		0	0	0	0	0	0	0	0	0	0		0	0
N-10463	1/1/1995	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10463	1/23/1997	41	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10464	11/25/1985	23	3	11			0		9	0		0										0	
N-10464	12/30/1985	8	2	2	0	0	0		4	0		0			0	0	0					0	
N-10464	11/13/1989	13	5	0	0	0	0		8	0	0	0			0	0	0					0	
N-10464	6/7/1990	35	13	0	0	0	2		19	0	0	0	0		0	0	0					0	
N-10464	3/12/1991	24	12	0	0	0	3		7	0	0	0	0		0	0	0	0		0		0	
N-10464	1/1/1993	2	2	0			0	0	0	0	0	0	0		0	0	0		0	0		0	
N-10464	1/1/1995	2	2	0			0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
N-10464	4/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10464	8/23/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10465	10/30/1985	123	9	2	0	0			2	0		110			0	0	0					0	
N-10465	12/30/1985	112	14	3	0	0	0		2	0		93			0	0	0					0	
N-10465	9/30/1987	13	6	0	0	0	0		0	0		7			0	0	0					0	
N-10465	11/14/1989	54	41	5	0	0	0		3	0	0	5			0	0	0					0	
N-10465	6/12/1990	39	28	2	1	0	0		3	0	0	5	0		0	0	0					0	
N-10465	9/19/1990	52	33	2	1	0	1		4	0	0	8	0		0	0	0					0	
N-10465	3/13/1991	26	16	0	0	0	0		3	0	0	7	0		0	0	0	0				0	
N-10465	1/1/1993	11	6	0			0	0	0	0	0	0	0		0	0	0		5	0			
N-10465	4/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10465	8/23/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	
N-10465	10/31/1985	233	100	36	0	0			94	0		0			0	0	3					0	
N-10466	12/30/1985	401	130	11	0	0	0		260	0		0			0	0	0					0	
N-10466	9/30/1987	0	0	0	0	0	0		0	0		0			0	0	0					0	
N-10466	11/13/1989	35	10	0	0	0	2		18	0	5	0			0	0	0					0	
N-10466	6/4/1990	88	38	27	1	0	5		15	0	0	2	0		0	0	0					0	
N-10466	6/5/1990	70	31	23	1	0	4		9	0	0	2	0		0	0	0					0	
N-10466	11/14/1990	86	37	24	1	0	5		18	0	0	1	0		0	0	0					0	
N-10466	1/29/1991	35	15	11	0	0	2		7	0	0	0	0		0	0	0	0				0	
N-10466	1/1/1993	28	14	11			0	0	3		0	0	0		0	0	0		0	0		0	
N-10466	1/1/1995	26	18	5			0	0	3	0	0	0	0	0	0	0	0	0			0	0	0
N-10467	10/30/1985	421	240	86	0	0	0		58	0		11			0	0	0					0	
N-10467	12/30/1985	920	450	310					150	0		10			0	0	0					0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
	NYSDEC Class GA Standards (a)	(a)	5	5	5	5	5	5	5	7	0.6	7	2	5	1	5	5	5	5	5	5	5	5
N-10467	11/22/1989	302	170	53	41	0	4		25	0	0	3			0	0	0						
N-10467	6/13/1990	269	190	27	32	0	4		12	0	0	2	0		0	0	0						0
N-10467	11/14/1990	135	100	10	2	0	2		14	0	0	1	1		0	0	0						0
N-10467	4/8/1991	247	160	33	17	0	1		20	0	0	2	0		0	0	0	0	0				0
N-10467	1/1/1993	162	130	18			0	9	5		0		0		0	0	0		0	0			
N-10468	11/26/1985	6	0	0			0		6	0		0											0
N-10468	12/23/1985	10	2	0	0	0	0		8	0		0			0	0	0						0
N-10468	12/1/1989	12	1	0	1	0	1		3	0	0	2			0	0	0						
N-10468	7/19/1990	22	1	0	0	0	4		10	0	0	0	1		0	0	0						0
N-10468	10/10/1990	12	0	0	0	0	3		9	0	0	0	0		0	0	0						0
N-10468	3/6/1991	20	0	0	0	0	3		8	0	0	0	1		0	0	0	0					0
N-10468	1/1/1993	1	1	0			0	0	0		0												
N-10469	10/30/1985	20	0	9	0	0			11	0		0			0	0	0						
N-10469	12/23/1985	27	0	13	0	0			14	0		0			0	0	0						
N-10469	10/2/1987	27	0	22	0	0			5	0		0			0	0	0						
N-10469	11/14/1989	172	2	22	3	0	4		64	0	0	0			0	0	0						
N-10469	6/14/1990	126	8	20	3	0	12		41	0	0	0	3		0	0	0	0					0
N-10469	10/10/1990	46	3	11	2	0	4		15	0	0	0	2		0	0	0						0
N-10469	1/1/1993	20	0	17			0	0	0		0		0		3	0	0		0	0			
N-10470	10/30/1985	551	100	9					370	0		0			0	0	0						
N-10470	12/23/1985	653	280	0					320	0		0			0	0	0						
N-10470	6/20/1990	1,659	84	8	21	0	470		910	0	2	3	10		0	0	0						1
N-10470	7/17/1990	1,909	120	8	15	1	470		1,200	0	2	0	11		0	0	0						1
N-10470	4/4/1991	2,469	170	17	18	0	62		2,000	0	2	0	0		0	0	0	0	0				0
N-10470	1/1/1993	89,000	0	0			0	0	9,000	0		0			0	0	0		0	0			
N-10470	1/1/1994	59,000	0	0	0	0	0		5,000	0		0			0	0	0		0	0			0
N-10470	1/1/1995	37,275	76	11			1,000	20	4,000	0	10	1	1	1,100	0	0	0	0			0	56	0
N-10470	10/1/1998	24,826	11	0			940	0	2,000	0	15	0	0	60	0	0	0	0			0	0	0
N-10470	11/18/1998	18,100	0	0			900	0	6,000	0				0									0
N-10470	4/13/1999	9,688	51	0			0	18	9,600	0	0	0	0	19	0	0	0	0			0	0	0
N-10470	8/19/1999	35,718	27	0			1,400	13	2,000	0	0	0	0	68	0			0			0	0	
N-10471	10/31/1985	987	340	74					470	3		0			0	0	0						
N-10471	12/24/1985	1,532	620	120					700	4		0			0	0	0						
N-10471	10/2/1987	1,082	480	87					450	4		0			0	0	0						

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	n-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class GA Standards (a)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
N-10471	11/14/1989	375	170	26	20	0	15		110	0	0	0			0	0	0						
N-10471	5/20/1990	378	140	19	19	0	35		75	0	0	2	2		0	0	0						0
N-10471	4/2/1991	441	190	33	18	0	16		140	2	0	0	0		0	0	0	0	0	0			0
N-10471	1/1/1993	207	76	12			8	19	66		0		0		0	0	0		0	0			
N-10471	1/1/1995	159	46	8			5	29	51	0	0	0	0	0	0	0	0	0			0	0	0
N-10471	4/15/1999	10	0	0			0	0	10	0	0	0	0	0	0	0	0	0			0	0	0
N-10471	8/20/1999	59	19	0			0	17	23		0	0	0	0	0			0			0	0	
N-10472	10/28/1985	14	0	0	0	0	0		11	0		3			0	0	0						0
N-10472	12/26/1985	14	0	0	0	0	0		13	0		1			0	0	0						0
N-10472	10/1/1987	24	0	0	0	0	0		2	0		22			0	0	0						0
N-10472	11/17/1989	5	0	0	0	0	0		2	0	0	3			0	0	0						
N-10472	5/30/1990	2	0	0	0	0	0		1	0	0	1	0		0	0	0						0
N-10472	9/19/1990	3	0	0	0	0	0		2	0	0	1	0		0	0	0						0
N-10472	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10472	8/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10473	10/29/1985	2	0	0	0	0			1	0		1			0	0	0						
N-10473	12/26/1985	21	0	2	0	0	0		19	0		0			0	0	0						0
N-10473	10/1/1987	1	0	0	0	0	0		1	0		0			0	0	0						0
N-10473	11/17/1989	4	0	0	0	0	0		4	0	0	0			0	0	0						0
N-10473	5/30/1990	1	0	0	0	0	0		0	0	0	1	0		0	0	0						0
N-10473	10/10/1990	3	0	0	0	0	0		1	0	0	1	0		1	0	0						0
N-10473	1/1/1993	6	0	0			0	0	6		0												
N-10473	1/1/1995	8	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	8	0
N-10474	10/31/1985	162	30	78					51	0		3			0	0	0						
N-10474	11/25/1985	311	41	200			0		68	0		2											0
N-10474	12/26/1985	342	51	200	0	0			85	0		3			3	0	0						
N-10474	12/1/1989	86	20	43	3	0	7		10	0	0	0			0	0	0						
N-10474	6/1/1990	121	33	36	8	0	17		17	0	0	0	0		0	4	1						0
N-10474	10/10/1990	225	78	75	14	0	20		23	0	0	1	1		0	2	0						0
N-10474	1/28/1991	130	34	32	11	0	11		20	0	0	0	3		1	4	0	6					0
N-10474	4/23/1991	228	36	50	9	0	16		20	0	0	1	0		0	0	0		65				0
N-10474	1/1/1995	33	7	8			3	0	6	0	0	0	0	0	0	0	0	0			0	9	0
N-10474	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-10474	8/16/1999	148	11	20			20	0	97		0	0	0	0	0			0			0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (L.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (w/ptg)	Date Sampled NYSDEC Class	Total VOCs GA Standards (a)	PCE	TCE	cis-1,2 DCE			1,1 DCE			1,2 DCE			1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride		Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	m,p-Xylene			Acetone	Methylene Chloride	4 Methyl 2 Pentanone
					DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE					DCE	DCE						DCE	DCE	DCE			
N-10475	10/31/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-10475	12/31/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10475	2/3/1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10475	10/2/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10475	12/5/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10475	6/4/1990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10475	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	10/29/1985	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	10/2/1987	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	12/5/1989	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	5/22/1990	9	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10476	8/19/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	11/1/1985	664	640	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	12/31/1985	576	560	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	1/31/1986	956	940	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	10/1/1987	97	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	11/13/1989	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	5/31/1990	38	33	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	2/5/1991	65	64	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	4/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10477	8/18/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	1/30/1985	36	6	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	11/25/1985	27	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	10/1/1987	120	26	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	12/1/1989	74	21	8	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	5/31/1990	70	18	5	5	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	10/1/1990	73	20	6	5	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	2/5/1991	39	14	4	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	4/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10478	8/18/1999	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10479	11/25/1985	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10479	12/31/1985	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-10479	10/1/1987	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table S.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NYSDEC Class G.A Standards (a)	Total VOCs	PCE	TCE	cis-1,2			1,1-DCE	1,1,1			1,2-DCE (total)	1,1,1,2	1,1,1,2	1,2-DCA	1,2-DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Merethylene Chloride	4-Merhyl 2	Penmanonc	N/A													
					DCE	DCE	DCE		TCA	TCA	TCA																				1	2	3	1	2	3	5	5	5	5	5	5	5
					5	5	5		5	5	5																				5	5	5	5	5	5	5	5	5	5	5	5	5
N-10479	11/22/1989	11	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
N-10479	5/23/1990	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10479	10/22/1990	6	4	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10479	4/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10479	8/18/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	11/26/1985	20	3	1	0	0	0	0	15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	1/30/1986	27	4	2	0	0	0	0	19	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	10/1/1987	11	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	11/22/1989	27	6	2	1	0	3	5	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	5/23/1990	10	2	0	0	0	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-10480	10/22/1990	13	6	1	0	0	1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11841	4/23/1991	4	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11841	1/1/1993	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11842	4/23/1991	96	5	13	0	0	5	70	70	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11842	1/1/1993	72	0	18	0	0	0	54	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11842	1/1/1995	108	3	16	0	0	2	87	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11843	5/23/1991	80	18	46	0	0	1	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11843	1/1/1993	57	12	38	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11843	1/1/1995	49	24	21	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11843	1/23/1997	39	20	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11844	5/21/1991	17	3	3	0	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11844	1/1/1993	8	3	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11844	1/1/1995	13	5	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11845	5/20/1991	23	1	0	0	0	2	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11845	1/1/1993	21	0	0	0	0	0	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11845	1/1/1995	21	1	0	0	0	2	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11846	2/28/1991	19	4	0	0	0	3	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11846	1/1/1993	4	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11847	4/5/1991	833	9	3	2	2	190	480	480	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11847	1/1/1993	101	84	16	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11847	1/1/1995	577	460	96	0	0	0	15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11848	1/10/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11848	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
N-11848	8/17/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
N/A - Not applicable.  
GV - Guidance Value



Sample ID (ug/g)	Date Sampled	Total VOCs	PCE	TCE	cis-1,2-DCE			1,1-DCE			1,1,1-TCA			1,1,2-TCA			Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	m,p-Xylene			Methylene Chloride	4-Methyl 2-Pentamone
					DCE	DCE	DCE	DCE	DCE	1,1,1	1,1,1	1,1,2	1,1,2	1,1,2	1,1,2	1,1,2						Xylene	Xylene	Xylene		
NYSDEC Class	GA Standards (u)	5	5	3	5	5	5	0	56	0	0	82	0	0	0	0	0	0	0	0	0	5	5	5	50 GV	N/A
N-11848	2/15/1991	357	190	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
N-11849	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11849	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11849	8/19/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11850	2/21/1991	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11850	1/1/1993	179	110	44	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11850	1/1/1995	277	220	52	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11850	4/13/1999	47	35	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11850	8/18/1999	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11851	1/24/1991	31	4	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11851	1/1/1993	12	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11851	1/1/1995	22	11	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11851	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11851	8/19/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11852	1/24/1991	518	120	330	50	2	3	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11852	1/1/1993	84	6	69	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11852	4/15/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11852	8/19/1999	17	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11853	2/21/1991	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11854	2/21/1991	18	1	0	0	0	0	0	3	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11854	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11854	1/1/1995	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11854	4/13/1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11854	6/9/1999	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	5/23/1991	49	0	0	0	0	0	0	2	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	1/1/1995	12	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	4/13/1999	203	0	0	0	0	0	0	13	0	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	6/9/1999	167	0	0	0	0	0	0	18	0	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11855	8/20/1999	600	0	0	0	0	0	0	20	0	580	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11856	5/24/1991	17	1	2	0	0	0	0	2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11857	3/12/1991	32	13	7	5	0	2	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11858	5/21/1991	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-11858	1/1/1995	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(u) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A	
N-11858	4/15/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	
N-11858	8/23/1999	0	0	0			0	0	0		0	0	0	0	0	0	0	0				0	0	
N-11859	1/10/1991	0	0	0	0	0	0		0	0	0	0	0		0	0	0	0					0	
N-11859	4/21/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-11859	8/16/1999	0	0	0			0	0	0		0	0	0	0	0	0	0	0				0	0	
N-11860	1/28/1991	3	0	2	0	0	0		1	0	0	0	0		0	0	0	0					0	
N-11860	4/16/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-11860	8/23/1999	0	0	0			0	0	0		0	0	0	0	0	0	0	0				0	0	
N-11861	1/7/1991	0	0	0	0	0	0		0	0	0	0	0		0	0	0	0					0	
N-11861	4/16/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-11861	8/10/1999	0	0	0			0	0	0		0	0	0	0	0	0	0	0				0	0	
N-11862	1/7/1991	1	0	0	0	0	1		0	0	0	0	0		0	0	0	0					0	
N-11862	4/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
N-11862	8/17/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0				0	0	
N-5655	9/8/1977	0	0	0					0			0												
N-5655	2/15/1978	0	0	0					0			0												
N-5655	9/28/1978	2	0	0	0	0	0		1	0	0	0											0	
N-5655	7/12/1979	0	0	0	0	0	0		0	0	0	0											0	
N-5655	12/15/1979	0	0	0					0			0												
N-5655	7/17/1980	0	0	0	0	0	0		0	0	0	0											0	
N-5655	10/7/1980	0	0	0					0			0			0	0								
N-5655	5/22/1981	0	0	0	0	0	0		0	0	0	0	0										0	
N-5655	6/11/1981	2	0	0					2			0												
N-5655	3/15/1982	2	0	0					1			0			0	0	0							
N-5655	6/4/1982	0	0	0	0	0	0		0	0	0	0	0										0	
N-5655	7/15/1982	1	0	0		0	0		1	0	0	0			0	0	0							
N-5655	7/14/1983	1	0	0	0	0	0		0	0	0	1	0		0	0	0						0	
N-5655	9/8/1983	2	0	2			0		0		0	0			0	0	0						0	
N-5655	5/24/1984	0	0	0	0	0	0		0	0	0	0	0										0	
N-5655	2/27/1985	1	0	0		0	0		1	0		0				0	0	0					0	
N-5655	5/7/1985	37	4	0		0	0		2	0	0	0	0	0	0	0	0		0				0	
N-5655	8/7/1985	0		0	0	0	0		0	0	0	0	0										0	
N-5655	4/30/1986	1	0	0	0	0	0		0	0	0	0	0										0	
N-5655	6/23/1987	0	0	0	0	0	0		0	0		0			0	0	0						0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

Table 5.2  
New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled NYSDEC Class G-4 Standards (d)	Total VOCs G-4 Standards (d)	PCE	TCE	cis-1,2 DCE		trans-1,2 DCE		1,1 DCE		1,2 DCE		TCA	TCA	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	m.p.			Methylene Chloride	4-Methyl 2-Pentanone
					5	5	5	5	5	5	5	5									5	5	5		
N-5655	9/21/1987	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	3/21/1988	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/11/1988	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/6/1988	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/8/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/10/1989	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/9/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/21/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/14/1990	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/22/1990	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	7/17/1990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	7/25/1990	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/7/1990	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/13/1990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/11/1991	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	3/27/1991	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/14/1991	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/21/1991	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/20/1991	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/20/1991	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	12/26/1991	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/11/1992	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/5/1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/11/1992	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/17/1992	6	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/2/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	4/19/1993	6	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/17/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/9/1993	8	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	2/15/1994	8	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	5/3/1994	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	6/7/1994	7	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/23/1994	11	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	11/29/1994	9	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (d) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

**Table 5.2**

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**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1 DCE		1,2 DCE		1,1,1 TCA	1,1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene		Acetone	Methylene Chloride	4-Methyl 2-Pentanone	
							5	5	5	5												5	5				5
	NYSDDC Class	GA Standards (u)																									
N-5655	2/14/1995	9	1	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
N-5655	5/16/1995	7	1	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5655	8/22/1995	8	1	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	4/5/1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	2/15/1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	9/28/1978	12	1	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	7/25/1979	17	2	1	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	7/24/1980	17	3	1	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	12/29/1980	13	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	5/22/1981	17	0	0	1	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	6/11/1981	12	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	6/4/1982	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	11/5/1982	7	5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	3/4/1983	16	9	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	7/21/1983	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	9/8/1983	12	5	3	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	5/24/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	2/27/1985	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	8/7/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	4/30/1986	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	5/13/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	6/23/1987	17	5	1	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	9/2/1987	34	7	1	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	3/2/1988	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	5/11/1988	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	8/11/1988	6	1	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5819	11/8/1988	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-5848	7/23/1990	9	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	4/5/1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	1/24/1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	9/20/1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/26/1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	7/26/1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	7/17/1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detected for that compound.  
(9) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.  
GY - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/lp)	Date Sampled	Total VOCs	PCE	TCE	cis-1,2 DCE			trans-1,2 DCE			1,1 DCE			1,1,1 DCE			1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
					5	5	5	5	5	5	5	5	5	5	5	5													
N-8497	8/5/1980	0																											
N-8497	5/28/1981	0																											
N-8497	6/11/1981	0	0	0																									
N-8497	1/27/1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	6/9/1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/16/1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/17/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	11/26/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/20/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/21/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/8/1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	7/7/1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	4/8/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	3/2/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/11/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/11/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	1/8/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/8/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/10/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/9/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	11/2/1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/14/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/22/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	6/12/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	7/25/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/7/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/24/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/19/1991	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	2/25/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/14/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/28/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/5/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	8/20/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	11/20/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998

N/A - Not applicable

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NYSDEC Class G.A. Standards (n)	Total VOCs	PCE	TCE	cis-1,2 DCE		trans-1,2 DCE		1,1 DCE		1,1,1 DCE		1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	m.p.			4 Methyl 2 Pentanone	
					DCE	DCE	DCE	DCE	DCE	DCE	DCE	DCE												Xylene	Acetone	Merthylene Chloride		
N-8497	2/11/1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8497	5/5/1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/11/1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/17/1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/2/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	4/27/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/17/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/9/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/15/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	5/3/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	6/7/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/23/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/29/1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/14/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	5/16/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/22/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/21/1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/20/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	5/14/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/19/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/19/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/4/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	3/20/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	5/9/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/5/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/4/1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	2/10/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	5/5/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	8/31/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8497	11/3/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8955	10/5/1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8955	12/7/1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8955	5/10/1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8955	10/31/1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detected for that compound.  
 (n) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

**Table 5.2**  
**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (40.9g)	Date Sampled NYSDDEC Class G.A. Standards (a)	Total VOCs	PCE	TCE	cis 1,2			trans 1,2			1,1 DCE (total)	1,1 DCE	1,1,1 TCA	1,1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4-Methyl 2-Pentanone	
					DCE	DCE	DCE	DCE	DCE	DCE																		DCE
N-8956	2/13/1979	0																										
N-8956	6/19/1979	0																										
N-8956	8/9/1979	0	0	0																								
N-8956	9/20/1979	0																										
N-8956	3/13/1980	0	0	0																								
N-8956	6/18/1980	0																										
N-8956	2/9/1981	0	0	0																								
N-8956	4/24/1981	0																										
N-8956	8/4/1981	0	0	0																								
N-8956	2/3/1982	0																										
N-8956	2/4/1982	0	0	0																								
N-8956	2/25/1982	0	0	0																								
N-8956	3/31/1982	0																										
N-8956	4/15/1983	0	0	0																								
N-8956	5/5/1983	1	0	1																								
N-8956	8/1/1983	0	0	0																								
N-8956	8/11/1983	0	0	0																								
N-8956	9/19/1983	3	0	3																								
N-8956	12/20/1983	0																										
N-8956	1/24/1984	0	0	0																								
N-8956	3/2/1984	0	0	0																								
N-8956	12/11/1984	0																										
N-8956	2/2/1985	0	0	0																								
N-8956	4/11/1985	0	0	0																								
N-8956	10/23/1985	0																										
N-8956	4/14/1986	0	0	0																								
N-8956	11/4/1986	2	0	2																								
N-8956	2/9/1987	1	0	1																								
N-8956	9/10/1987	1	0	1																								
N-8956	10/30/1987	2	0	2																								
N-8956	11/24/1987	1	0	1																								
N-8956	12/22/1987	0	0	0																								
N-8956	1/1/1988	3	1	1																								
N-8956	12/21/1988	0	0	0																								

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/g)	Date Sampled NYSD/DEC Class	Total VOCs GA Standards (u)	PCE	TCE	cis-1,2 DCE			1,1 DCE	1,2 DCE (nm)	1,1,1 TCA		1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride		Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Penitamine N/A
					DCE	DCE	DCE			5	5				5	5					5	5	5					
N-8956	2/25/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	3/24/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1988	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/26/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	5/30/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/9/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/29/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/30/1988	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	7/27/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	8/29/1988	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1988	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/21/1988	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	10/27/1988	5	2	2	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	11/30/1988	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1988	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/27/1988	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/28/1988	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1989	4	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	3/20/1989	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1989	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/8/1989	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	8/29/1989	10	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1989	14	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	11/10/1989	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1989	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/31/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	5/30/1990	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/26/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	7/5/1990	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	7/10/1990	3	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1990	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
N/A - Not applicable.  
GY - Guidance Value



Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone 50 GV	Methylene Chloride	4 Methyl 2 Pentanone N/A
	NYSDEC Class	GA Standards (a)	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	5	5	5
N-8956	12/10/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/14/1990	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1991	2	0	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	3/14/1991	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1991	4	2	0			1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/4/1991	4	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/11/1991	5	2	1	0	0	1		1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1991	5	0	4			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/11/1991	5	0	4	0	0	0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1991	3	1	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/3/1991	3	1	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1992	3	1	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	3/9/1992	3	1	2	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1992	20	2	13			2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/11/1992	20	2	13			0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	8/14/1992	6	1	2	0	0	2		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1992	3	1	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/3/1992	3	1	2	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1992	4	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/2/1992	4	0	0	0	0	0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1993	2	0	0			1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	2/11/1993	2	0	0	0	0	0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	2/16/1993	11	0	10	0	0	1		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1993	7	1	3			1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	5/11/1993	6	1	1	0	0	0		1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	6/9/1993	6	1	3	0	0	1		1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	9/1/1993	3	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	10/13/1993	8	4	1			0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	12/1/1993	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8956	1/1/1994	11	3	0			0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	3/17/1994	11	3	3	0	0	0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/1/1994	15	3	3			2	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0
N-8956	4/5/1994	13	3	2			0	2	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0
N-8956	5/23/1994	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
	NYSDEC Class GA Standards (a)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A	
N-8956	6/8/1994	14	3	3		0	2		4	0	0	1	0	0	0	0	0	0					0	
N-8956	6/16/1994	15	3	7		0	2		3	0	0	1	0	0	0	0	0	0					0	
N-8956	7/25/1994	19	5	3		0	3		5	0	1	2	0	0	0	0	0	0					0	
N-8956	8/17/1994	24	6	6		0	3		5	0	1	2	0	0	0	0	0	0					0	
N-8956	8/24/1994	10	4	2		0	1		2	0	0	1	0	0	0	0	0	0					0	
N-8956	9/1/1994	12	4	2			0	0	2	0	0	2	0	0									0	
N-8956	9/20/1994	22	4	6		0	3		5	0	0	2	0	0	0	0	0	0					0	
N-8956	10/24/1994	24	4	9		0	3		5	0	0	2	0	0	0	0	0	0					0	
N-8956	11/15/1994	22	3	9		0	3		5	0	0	1	0	0	0	0	0	0					0	
N-8956	12/1/1994	27	3	11			3	0	5	0	0	2	0	0									0	
N-8956	12/6/1994	27	3	11	0	0	3		5	0	0	2	0	0	0	0	0	0					0	
N-8956	12/22/1994	26	6	6		0	3		6	0	1	2	0	0	0	0	0	0					0	
N-8956	1/1/1995	36	4	17			3	0	6	0	0	2	0	0									0	
N-8956	1/20/1995	8	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0					0	
N-8956	2/24/1995	24	6	5		0	3		6	0	1	2	0	0	0	0	0	0					0	
N-8956	3/24/1995	34	4	17		0	3		6	0	0	2	0	0	0	0	0	0					0	
N-8956	3/28/1995	31	4	15		0	3		5	0	0	2	0	0	0	0	0	0					0	
N-8956	4/1/1995	44	4	26			3	0	6	0	1	2	0	0									0	
N-8956	4/27/1995	28	6	6		0	4		7	0	1	3	0	0	0	0	0	0					0	
N-8956	5/22/1995	39	5	14		0	6		9	0	0	3	0	0	0	0	0	0					0	
N-8956	6/12/1995	43	4	26		0	3		6	0	1	2	0	0	0	0	0	0					0	
N-8956	6/29/1995	44	5	26		0	3		6	0	1	2	0	0	0	0	0	0					0	
N-8956	7/20/1995	41	4	26		0	3		5	0	0	1	0	0	0	0	0	0					0	
N-8956	8/24/1995	46	4	30		0	3		5	0	1	1	0	0	0	0	0	0					0	
N-8956	9/1/1995	21	5	4			2	0	4	1	0	2	0	0									0	
N-8956	9/15/1995	18	5	4		0	2		4	0	0	2	0	0	0	0	0	0					0	
N-8956	9/21/1995	24	5	5	0	0	3		6	0	1	2	0	0	0	0	0	0					0	
N-8956	10/26/1995	8	2	1	0	0	1		1	0	0	1	0	0	0	0	0	0					0	
N-8956	10/30/1995	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0					0	
N-8956	12/1/1995	1	0	0			0	0	0	0	0	0	0	0									0	
N-8956	1/1/1996	9	4	1			1	0	2	0	0	0	0	0									0	
N-8956	3/1/1996	17	0	0	0	0	0		0	0	0	1	0	0	0	0	0	0					0	
N-8956	3/26/1996	8	4	1		0	1		2	0	0	0	0	0	0	0	0	0					0	
N-8956	4/1/1996	45	4	26			3	0	5	0	1	2	0	0									0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NY/DEC	Total VOCs Standard (a)	PCE	TCE	cis 1,2			DCE	1,1 DCE	1,2 DCE			TCA	TCA	1,2 DCA	Chloroform	Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			m,p-Xylene	o-Xylene	p-Xylene	Acetone	Chloride	Methylenes	4-Methyl 2	Pentamome
					DCE	DCE	DCE			TCA	TCA	TCA										5	5	5								
N-8956	5/17/1996	39	2	21	1	0	0	5	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	6/20/1996	44	4	26	0	0	3	5	5	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	7/26/1996	41	5	18	0	0	4	7	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	8/8/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	8/28/1996	42	3	21	1	0	5	6	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	9/1/1996	52	7	23	4	0	4	8	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	9/19/1996	50	6	23	0	4	4	8	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	11/21/1996	44	4	26	0	3	0	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	12/1/1996	46	4	26	0	3	0	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	12/12/1996	33	5	12	0	5	2	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/1/1997	27	4	12	2	0	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/16/1997	29	4	12	2	0	2	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	2/14/1997	24	1	22	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	3/31/1997	8	3	1	1	0	0	6	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	4/1/1997	39	6	8	8	0	6	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	4/5/1997	23	1	21	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	4/24/1997	4	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	5/29/1997	24	1	21	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	6/17/1997	41	6	8	2	0	6	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	6/27/1997	45	5	10	2	0	7	10	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	7/17/1997	40	6	9	7	1	7	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	8/13/1997	44	5	18	6	8	0	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	9/1/1997	54	5	27	5	0	8	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	9/2/1997	54	5	27	5	8	0	8	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	10/16/1997	74	9	24	10	14	0	2	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	11/14/1997	65	6	32	7	9	0	1	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	12/1/1997	100	6	62	6	0	15	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/1/1998	32	5	5	5	0	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/12/1998	25	4	9	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/30/1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	2/5/1998	29	5	6	4	7	0	1	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	3/13/1998	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	3/21/1998	32	5	5	0	5	6	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	4/1/1998	49	6	13	7	0	10	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
(a) - Division of Water, Technical and Operational Guidance Series (1.1.1) June 1998.  
N/A - Not applicable  
GY - Guidance Value

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (µg/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2			1,2 DCE			1,1 DCE			TCA			1,1,1			Chloroform	Vinyl Chloride	Chloromethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene			m,p-Xylene			Acetone	Methylene Chloride	4 Methyl 2 Pentanone			
					DCE	DCE	DCE	1,1 DCE	1,1 DCE	1,1 DCE	1,1 DCE	1,1 DCE	1,1,1	1,1,1	1,1,1	5	5	5	5								5	5	5	5								
					5	5	5	5	5	5	5	5	5	5	5	5	5	5	5								5	5	5	5	5	5				5	5	5
N-8956	4/22/1998	38	4	22	1	2	1	3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-8956	5/7/1998	17	4	2	1	2	2	2	4	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-8956	5/19/1998	45	5	13	1	7	7	7	10	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-8956	7/23/1998	63	6	31	1	7	7	7	8	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8956	8/13/1998	63	5	35	1	6	6	6	7	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8956	9/1/1998	66	6	31	1	7	7	7	8	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8956	9/9/1998	66	6	31	1	7	7	7	8	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8956	9/17/1998	84	10	41	1	0	11	11	10	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8956	10/11/1998	0																																				
N-8956	10/6/1998	58	6	23	1	8	8	8	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8956	10/16/1998	49	6	18	1	6	6	6	7	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	10/23/1998	53	5	19	1	8	8	8	8	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	11/23/1998	69	6	32	1	8	8	8	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	12/1/1998	58	6	23	1	8	8	8	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	12/28/1998	55	6	20	1	6	6	6	9	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8956	1/1/1999	65	7	30	1	6	6	6	8	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/6/1977	0	0	0																																		
N-8957	12/2/1977	0	0	0																																		
N-8957	5/3/1978	0	0	0																																		
N-8957	11/1/1978	0	0	0																																		
N-8957	1/8/1979	0	0	0																																		
N-8957	2/5/1979	0	0	0																																		
N-8957	6/19/1979	0	0	0																																		
N-8957	8/9/1979	0	0	0																																		
N-8957	9/20/1979	0	0	0																																		
N-8957	3/13/1980	0	0	0																																		
N-8957	6/18/1980	0	0	0																																		
N-8957	2/9/1981	0	0	0																																		
N-8957	4/24/1981	0	0	0																																		
N-8957	7/24/1981	0	0	0																																		
N-8957	11/25/1981	0	0	0																																		
N-8957	2/25/1982	0	0	0																																		
N-8957	3/15/1982	0	0	0																																		
N-8957	4/15/1983	0	0	0																																		

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (wq:kg)	Date Sampled NYSDEC Class GA Standards (n)	Total VOCs	PCE	TCE	cis 1,2 DCE			trans 1,2 DCE			1,1 DCE	1,2 DCE	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Chloride	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			o-Xylene	m-Xylene	p-Xylene	Acetone	Chloroform	Methylene Chloride	4-Methyl 2-Pentanone					
					5	5	5	5	5	5													5	5	5								5	5	5	5	5
N-8957	5/5/1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8957	8/1/1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8957	8/1/1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/22/1983	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/20/1983	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	3/2/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	7/18/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/1/1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	1/28/1985	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	2/6/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/23/1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	1/29/1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/4/1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/30/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/10/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	10/30/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	11/24/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/22/1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1988	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/22/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	2/25/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	3/31/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/1/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/26/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	5/10/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/6/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/9/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/29/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/30/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	7/27/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	8/29/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/21/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	10/27/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(g) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable

GV - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled NYSD/DEC Class GA Standards (a)	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1-DCE (total)	1,1,1,2		1,1,1,2		Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes			4-Methyl 2-Pentanone				
								TCA	DCE	TCA	DCE							(total)	(total)	m,p- Xylene		o,p- Xylene	Acetone 50 GY	Methylene Chloride	5
N-8957	11/20/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/1/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/28/1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1989	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	3/22/1989	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/1/1989	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/6/1989	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/6/1989	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/29/1989	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1989	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	11/10/1989	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/1/1989	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	2/14/1990	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	3/26/1990	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/1/1990	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	5/20/1990	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/27/1990	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	7/5/1990	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1990	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/1/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/11/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/14/1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1991	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/23/1991	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	3/14/1991	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/1/1991	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/4/1991	3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/1/1991	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1991	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/1/1991	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/3/1991	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1992	7	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable  
GY - Guidance Value

**Table 5.2**  
**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled NYSDEC Class CA Standards (a)	Total VOCs		PCE	TCE	cis-1,2 DCE		trans-1,2 DCE		1,1 DCE		1,1,1 DCE		1,1,1,2 DCE		Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)			o-Xylene	m-Xylene	p-Xylene	Acetone	50 GY	Methylene Chloride	4 Methyl 2 Pentanone	N/A				
		5	1			5	5	5	5	5	5	5	5	5	5							5	5	5									5	5	5	5
N-8957	3/9/1992	7	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
N-8957	4/1/1992	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
N-8957	6/1/1992	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-8957	9/1/1992	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
N-8957	9/3/1992	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8957	9/8/1992	9	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
N-8957	12/1/1992	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8957	1/1/1993	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N-8957	4/1/1993	11	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	5/1/1993	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	6/9/1993	11	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/1/1993	9	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/13/1993	15	1	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1994	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	3/17/1994	9	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/1/1994	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	4/5/1994	12	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	5/23/1994	15	1	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/8/1994	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	6/16/1994	14	1	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	7/25/1994	16	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	8/17/1994	24	2	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	8/24/1994	15	1	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1994	15	1	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/20/1994	19	1	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	10/24/1994	21	1	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	11/15/1994	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/1/1994	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/6/1994	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	12/22/1994	26	1	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/1/1995	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	1/20/1995	37	4	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	2/24/1995	31	1	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detected for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GY - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,1 DCE (total)	1,2 DCE	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	1,1,1 Trichloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	50 GV	Methylene Chloride	4 Methyl 2 Pentanone	NYSDEC Class (GA Standards (a))
		5	5	5	5	5	5	5	5	5	1	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5
N-8957	3/24/1995	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
N-8957	3/28/1995	21	1	19	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
N-8957	4/1/1995	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
N-8957	4/27/1995	25	1	22	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
N-8957	5/16/1995	26	1	22	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
N-8957	5/22/1995	31	2	26	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31
N-8957	6/5/1995	27	1	21	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
N-8957	6/12/1995	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
N-8957	6/29/1995	19	1	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
N-8957	7/20/1995	19	1	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
N-8957	8/24/1995	20	1	17	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
N-8957	9/1/1995	23	1	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
N-8957	9/1/1995	23	1	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
N-8957	9/15/1995	23	1	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
N-8957	9/21/1995	17	1	15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
N-8957	10/26/1995	16	1	15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
N-8957	10/30/1995	19	1	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
N-8957	12/1/1995	19	1	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
N-8957	1/1/1996	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
N-8957	3/7/1996	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
N-8957	3/17/1996	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
N-8957	4/1/1996	15	2	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
N-8957	4/1/1996	15	2	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
N-8957	6/20/1996	15	2	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
N-8957	7/26/1996	21	1	18	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
N-8957	8/8/1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N-8957	9/1/1996	26	2	21	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
N-8957	9/19/1996	28	2	24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
N-8957	11/2/1996	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
N-8957	12/1/1996	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
N-8957	12/2/1996	26	1	24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
N-8957	1/1/1997	28	1	24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
N-8957	1/16/1997	28	1	24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
N-8957	2/14/1997	24	1	22	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
N-8957	3/31/1997	33	2	24	1	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	33
N-8957	4/1/1997	23	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1) June 1998.

N/A - Not applicable

GV - Guidance Value



Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (w/Exp)	Date Sampled	Total VOCs NYSDEC Class C-A Standards (a)	PCE	TCE	cis-1,2-DCE		trans-1,2-DCE		1,1,1-DCE		1,1,1,2-DCE		1,1,1,2-TCA	1,2-DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	50 GP		Methylene Chloride	4-Methyl 2-Pentanone
					1,1	2,2	1,1	1,2	1,1	1,1	1,1	1,2												1	2		
N-8957	4/24/1997	23	1	19					1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	5/28/1997	26	1	23				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	6/12/1997	38	2	34	1			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	6/17/1997	23	1	21	0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	6/24/1997	31	2	25	1	0		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	7/17/1997	31	2	27				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	8/13/1997	30	2	26				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/1/1997	25	2	20				1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/2/1997	24	2	20				1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/16/1997	33	3	28				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	11/14/1997	18	2	15				0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/1/1997	15	0	15	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	1/1/1998	27	2	23				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	1/12/1998	18	2	14				0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	2/5/1998	33	2	29	0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	3/13/1998	37	2	33	0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	3/22/1998	27	2	23	0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	4/1/1998	27	2	23				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	4/23/1998	30	2	25	1			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	6/19/1998	27	2	23	1	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	7/23/1998	31	3	25	1			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	8/13/1998	25	2	20	1			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/1/1998	33	3	26				2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	9/9/1998	33	3	26	1			2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/1/1998	0								1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/8/1998	48	3	42	1			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/16/1998	34	3	30	0			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	10/23/1998	35	3	30	0			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	11/23/1998	17	1	14	1			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/1/1998	48	3	42				1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	12/28/1998	11	1	10	1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8957	1/1/1999	15	1	13				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-8984	6/4/1990	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N-9234	8/14/1990	562	360	23	77	2		3	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Blank results denote sample was not analyzed for that component. Zero results denote sample was analyzed but was reported as non-detect for that component.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GP - Guidance Value

Table 5.2

New Cassel Industrial Area Historical Groundwater Data Summary

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m,p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone
	NYSDEC Class GA Standards (a)	5	5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A
N-9235	8/14/1990	1,584	1,400	24	79	1	0	79					0		1	0	0						
N-9236	7/18/1990	215	210	3	1	0	0	1	0	0	0	0	0		0	0	0						0
N-9239	8/16/1990	2	2	0	0	0	0	0					0		0	0	0						
N-9240	8/16/1990	7	3	1	0	0	3	0					0		0	0	0						
N-9241	8/16/1990	2	2	0	0	0	0	0					0		0	0	0						
N-9354	7/23/1990	3	1	0	0	0	0	0	2	0	0	0	0		0	0	0						0
N-9917	7/17/1990	3	1	0	1	0	0	1	0	0	0	0	0		0	0	0						0
N-9938	5/5/1982	2,133	3	292		43	456		1,174		0	4			0	0	0						0
N-9938	2/4/1983	218	0	7			17		190	0	0	0			0	0	0						0
N-9938	5/3/1984	1,533	22	300					1,200	0		0			0	0	0						
N-9938	3/1/1985	1,090	28	400		0			660	2		0			0	0	0						
N-9938	5/10/1985	1,078	42	360					610	2		0			0	0	0						
N-9938	12/23/1985	8,266	59	460					7,700	0		1			0	0	0						
N-9938	6/13/1990	3,756	290	170	2	0	1,700	2	1,300	11	51	93	55		0	0	0						2
N-9938	4/10/1991	8,122	320	370	2	0	830	2	6,400	6	21	122	0		0	0	0	0	0	0			1
N-9938	1/1/1993	868	73	60			76	0	620		10		0		0	0	0		0	0			
N-9938	11/30/1995	160	0	0	0	0	0	0	160		0		0		0	0	0		0	0			0
N-9938	4/13/1999	230	0	12			21	0	170	0	0	0	0	0	0	0	0	0	0		0	0	0
N-9938	8/10/1999	430	14	29			39	0	300		0	0	0	0	0	0	0	0			0	0	
N-9939	6/4/1990	18	2	0	1	0	3	1	4	6	0	1	0		0	0	0						0
N-9939	4/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
N-9939	8/10/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NE HOPPER/MAIN	4/16/1999	199	0	69			130	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-1	4/21/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-1	8/10/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-2	4/21/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-2	8/10/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-3	4/21/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-3	8/10/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NRMW-4	8/17/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
NYT MW-1	1/1/1993	19	15	4			0	0	0		0		0		0	0	0		0	0			
NYT MW-2	1/1/1993	15	0	0			0	5	4		0		0		0	0	0		0	0			
NYT MW-3	1/1/1993	2	2	0			0	0	0		0		0		0	0	0		0	0			
NYT MW-3	4/13/1999	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (µg/kg)	Date Sampled	Total VOCs NYSDEC Class GA Standards (n)	PCE 5	TCE 5	cis 1,2 DCE 5	trans 1,2 DCE 5	1,1 DCE 5	1,2 DCE (total) 5	1,1,1 TCA 5	1,1,2 TCA 1	1,2 DCA 0.6	Chloroform 7	Vinyl Chloride 2	Chloroethane 5	Benzene 1	Toluene 5	Ethylbenzene 5	Xylenes (total) 5	o- Xylene 5	m,p- Xylene 5	Acetone 50 GV	Methylene Chloride 5	4 Methyl 2 Pentanone N/A
P-1 (55-)	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P-2 (55-)	1/1/1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RG MW-1	8/18/1999	173	0	73			0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB - 1 (52)	6/15/1999	5,597	14	190	0	0	460		3,100	0	0	1		12	0	0	0		0	0	0	0	0
SGB - 1 (62)	6/15/1999	3,108	27	350	0	0	300		1,800	2	0	0		9	0	0	0		0	0	0	0	0
SGB - 10 (52)	6/16/1999	2,783	12	17	4	0	290		2,100	0	0	0		17	0	0	0		0	0	3	0	0
SGB - 10 (62)	6/16/1999	2,809	12	26	6	0	330		2,000	0	0	0		22	3	16	0		0	4	0	0	0
SGB - 2 (52)	6/15/1999	3,522	2	120	0	0	280		1,900	0	0	2		18	0	0	0		0	0	0	0	0
SGB - 2 (62)	6/15/1999	10,160	0	0	0	0	760		7,400	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 3 (52)	6/16/1999	594	0	0	0	0	48		490	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 3 (62)	6/16/1999	813	0	0	0	0	87		640	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 4 (52)	6/16/1999	319	0	2	0	0	57		260	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 4 (62)	6/16/1999	127	0	0	0	0	12		85	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 5 (52)	6/16/1999	2	0	0	0	0	0		2	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 5 (62)	6/16/1999	0	0	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	0
SGB - 6 (52)	6/16/1999	341	0	4	0	0	11		230	0	0	0		0	0	0	0		0	0	4	0	0
SGB - 6 (62)	6/16/1999	305	0	6	0	0	13		220	0	0	0		0	0	0	0		0	0	4	0	0
SGB - 7 (52)	6/16/1999	560	0	0	0	0	31		370	0	0	0		2	3	31	7		0	8	4	0	0
SGB - 7 (62)	6/16/1999	619	0	2	0	0	50		500	0	0	0		3	0	6	0		0	3	5	0	0
SGB - 8 (52)	6/16/1999	1,640	0	1	0	0	130		1,300	0	0	1		8	0	0	0		0	0	0	0	0
SGB - 8 (62)	6/16/1999	2,208	0	0	0	0	180		1,700	0	0	0		15	0	0	0		0	0	3	0	0
SGB - 9 (52)	6/16/1999	588	0	2	0	0	31		420	0	0	0		3	0	0	0		0	0	12	0	0
SGB - 9 (62)	6/16/1999	1,109	0	7	0	0	110		890	0	0	0		7	0	0	0		0	0	0	0	0
TGP-1 (80)	11/17/1998	50	14	1			7	3	24	0	0			0									0
TGP-1 (95)	11/17/1998	51	0	0			6	0	42	0	0			0									0
TGP-2 (80)	11/18/1998	88	18	3			8	10	39	0	0			0									0
TGP-2 (95)	11/18/1998	132	0	3			5	2	110	0	0			0									0
TGP-3 (80)	11/18/1998	468	0	3			29	2	190	0	1			3									0
TGP-3 (95)	11/18/1998	551	0	1			33	2	230	0	1			4									0
TGP-4 (60)	11/18/1998	4,718	0	7			340	0	3,800	0	0			11									0
TGP-4 (80)	11/18/1998	89	13	3			8	4	47	0	0			0									0
TGP-4 (95)	11/18/1998	37	0	1			2	0	26	0	0			0									0
TGPA-60	6/9/1999	26,620	0	0			3,130	0	0,90	0	0			0									0
TGPA-80	6/9/1999	4,406	0	0			446	0	2,300	0	0			0									0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.  
 (a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.  
 N/A - Not applicable.  
 GV - Guidance Value

**Table 5.2**

**New Cassel Industrial Area Historical Groundwater Data Summary**

Sample ID (ug/kg)	Date Sampled	Total VOCs	PCE	TCE	cis 1,2 DCE	trans 1,2 DCE	1,1 DCE	1,2 DCE (total)	1,1,1 TCA	1,1,2 TCA	1,2 DCA	Chloroform	Vinyl Chloride	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes (total)	o-Xylene	m-p-Xylene	Acetone	Methylene Chloride	4 Methyl 2 Pentanone	
	NYSDEC Class GA Standards (a)		5	5	5	5	5	5	5	1	0.6	7	2	5	1	5	5	5	5	5	50 GV	5	N/A	
TGPB-60	6/9/1999	1,770	0	0			224	0	1,340	0	0			0									0	
TGPB-80	6/9/1999	3,446	0	0			437	0	2,700	0	0			0									0	
TGPB-95	6/9/1999	298	21	0			34	0	215	0	0			0									0	
TW-1 (51-63)	11/18/1998	16,460	0	0			880	0	5,00	0	0			0									0	
UN-10	1/1/1995	247	120	10			4	0	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-11	1/1/1995	200	91	5			1	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-16	4/13/1999	132	66	34			0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-16	8/16/1999	164	96	36			0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-23	1/1/1995	425	74	340			0	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-23	6/24/1999	32	21	11			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-24	1/1/1995	95	39	51			0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-25	1/1/1995	2	2	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UN-3	1/1/1995	9	2	0			0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UTILITY MW-2	1/1/1993	114	30	20			0	21	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Blank results denote sample was not analyzed for that compound. Zero results denote sample was analyzed but was reported as non-detect for that compound.

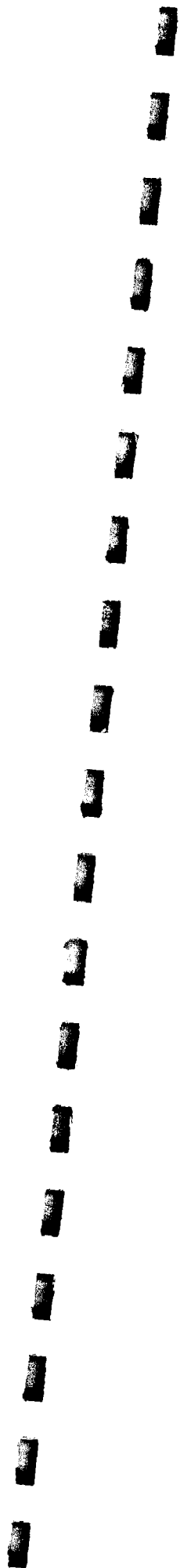
(a) - Division of Water Technical and Operational Guidance Series (1.1.1) June 1998.

N/A - Not applicable.

GV - Guidance Value

**APPENDIX G**

**AREAS OF IMPACTED GROUNDWATER FOR VARIOUS YEARS**





Individual sampling points in excess of:

- ▲ TVOCs > 1,000 µg/l
- TVOCs > 10,000 µg/l

--- Inferred isocentration contour (µg/l)

**Area of Historically Impacted Groundwater (1977 to Present)**  
**0-64 ft BGS**

Figure G-1

OFFSITE GROUNDWATER RI  
 NEW CASSELL INDUSTRIAL AREA  
 NYSDEC LID. No. 130043  
 Peat River, New York  
**LAWLER, MATUSKY & SKELLY ENGINEERS LLP**

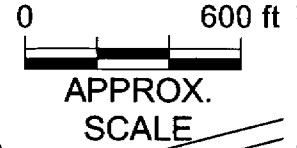
APPROX. SCALE

0 600 ft

**Individual sampling points in excess of:**

- ▲ TVOCs > 1,000 µg/l
- TVOCs > 10,000 µg/l

— 100 — Inferred isoconcentration contour (µg/l)



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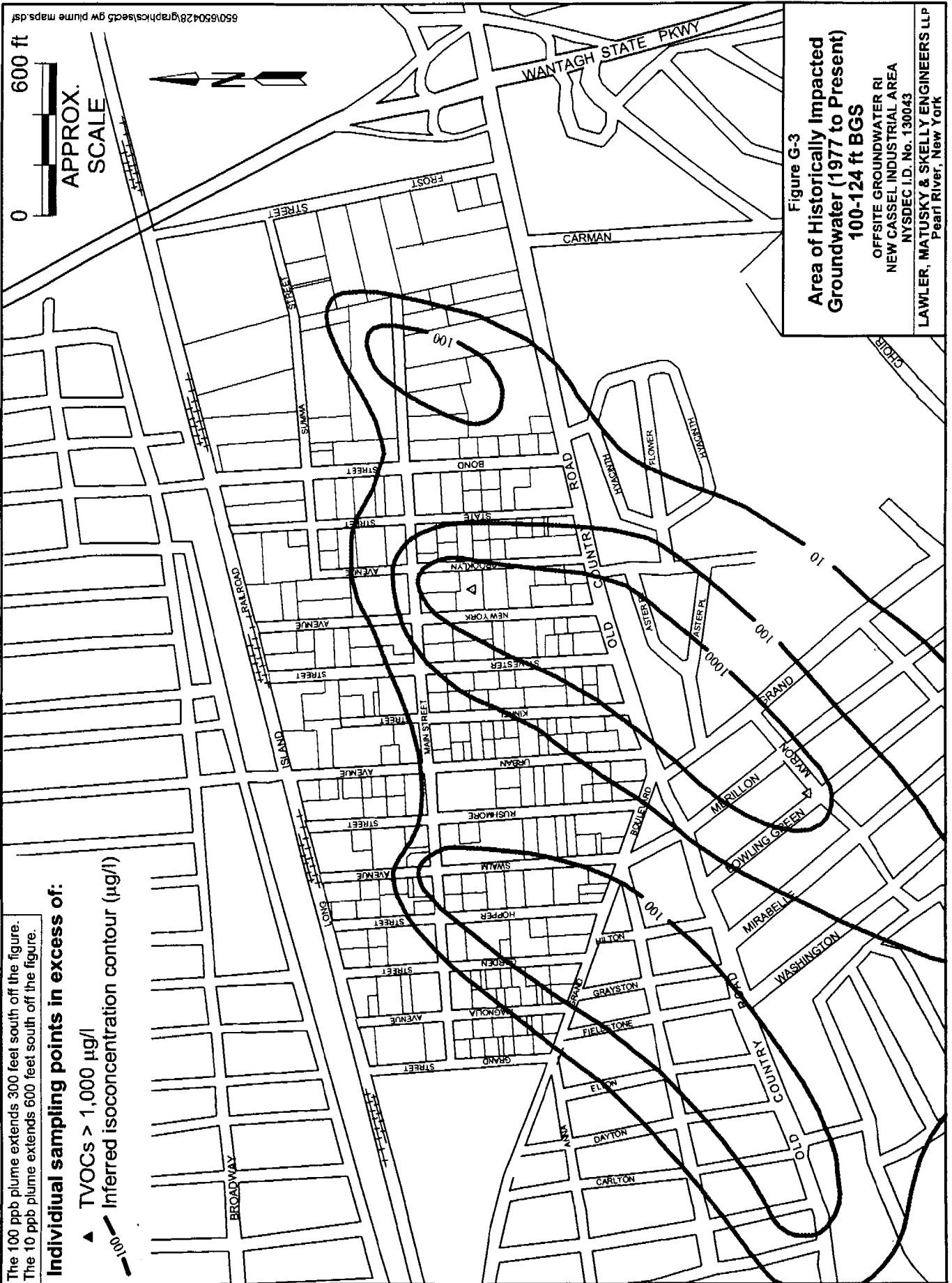
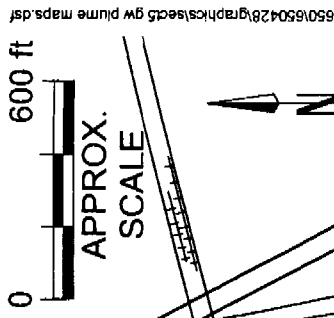
**Figure G-2**  
**Area of Historically Impacted**  
**Groundwater (1977 to Present)**  
**65-99 ft BGS**  
OFFSITE GROUNDWATER RI  
NEW CASSEL INDUSTRIAL AREA  
NYSDEC I.D. No. 130043  
LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
Pearl River, New York



The 100 ppb plume extends 300 feet south off the figure.  
 The 10 ppb plume extends 600 feet south off the figure.

**Individual sampling points in excess of:**

- ▲ TVOCs > 1,000 µg/l
- Inferred isoconcentration contour (µg/l)



**Figure G-3**  
**Area of Historically Impacted Groundwater (1977 to Present)**  
**100-124 ft BGS**  
 OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043  
 LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York

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Individual sampling points in excess of:

TVOCs > 1,000 µg/l

Inferred isoconcentration contour (µg/l)

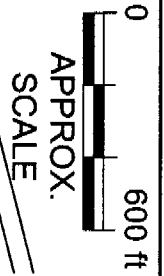
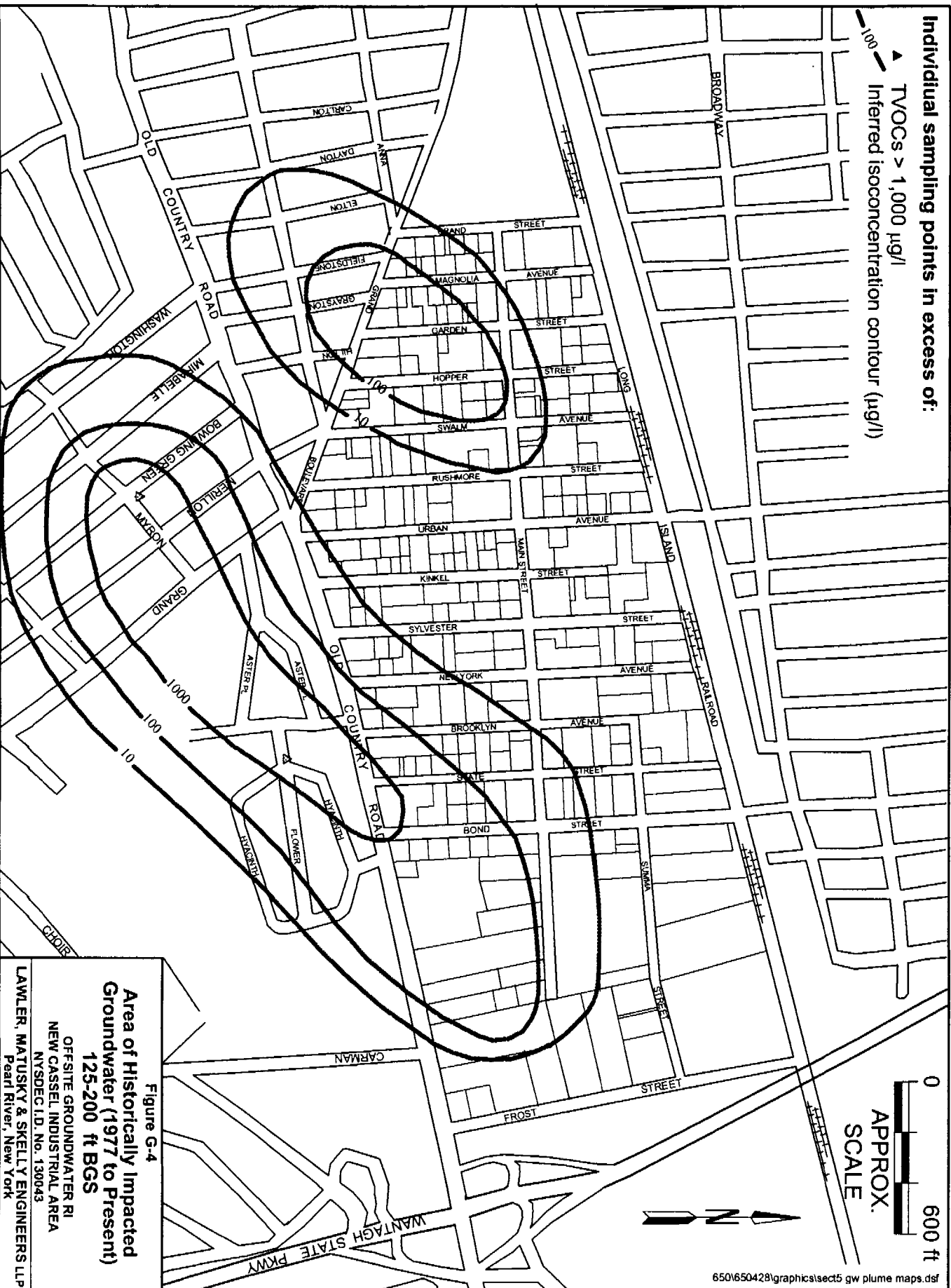
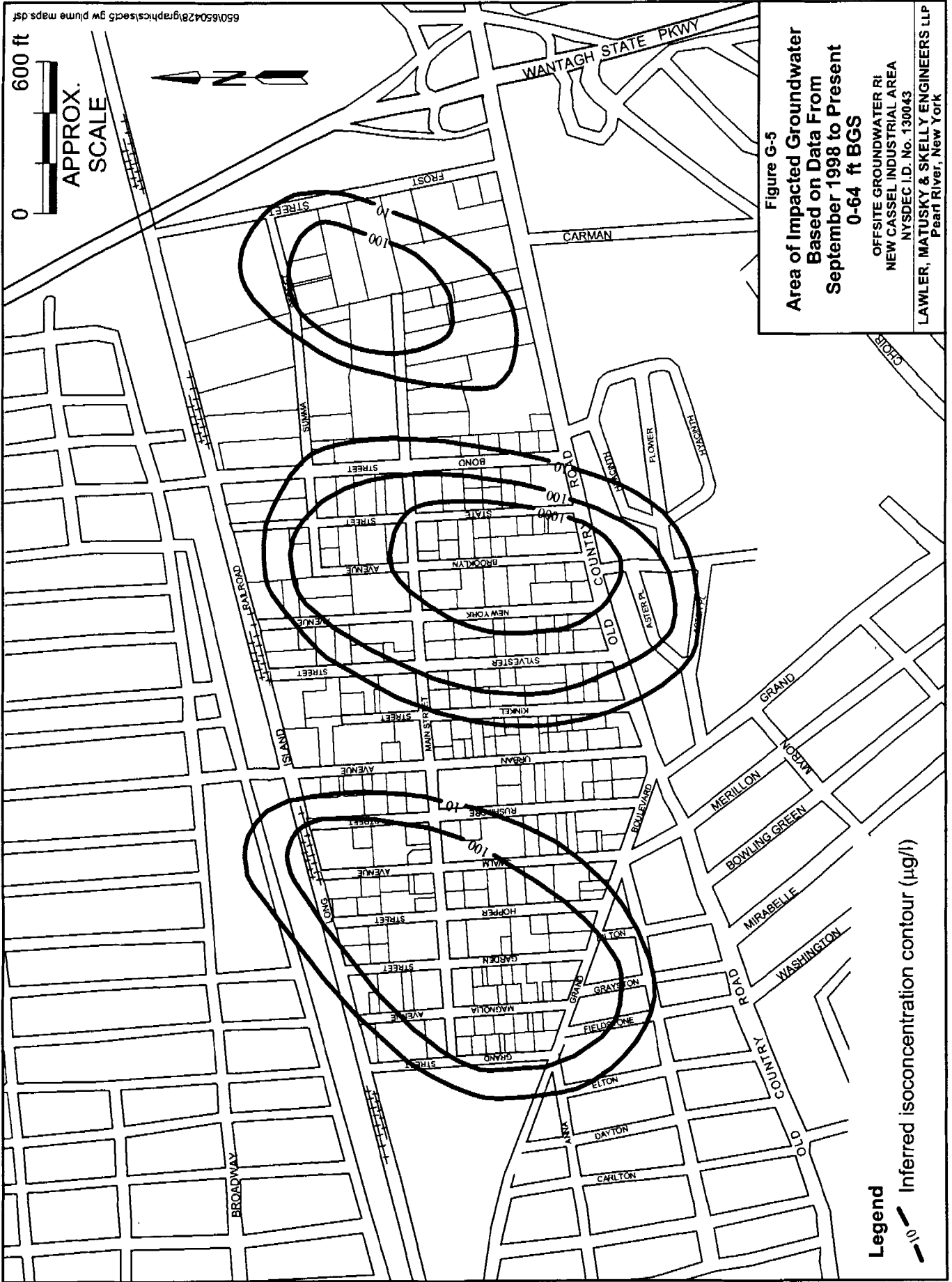


Figure G-4  
**Area of Historically Impacted  
Groundwater (1977 to Present)**  
125-200 ft BGS  
OFF-SITE GROUNDWATER RI  
NEW CASSEL INDUSTRIAL AREA  
NYSDEC I.D. No. 130043  
LAWLER, MATUSIKY & SKELLY ENGINEERS LLP  
Pearl River, New York



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600 ft



APPROX.  
SCALE

Figure G-5

**Area of Impacted Groundwater  
Based on Data From  
September 1998 to Present  
0-64 ft BGS**

OFFSITE GROUNDWATER RI  
NEW CASSEL INDUSTRIAL AREA  
NYSDEC I.D. No. 130043

LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
Peart River, New York

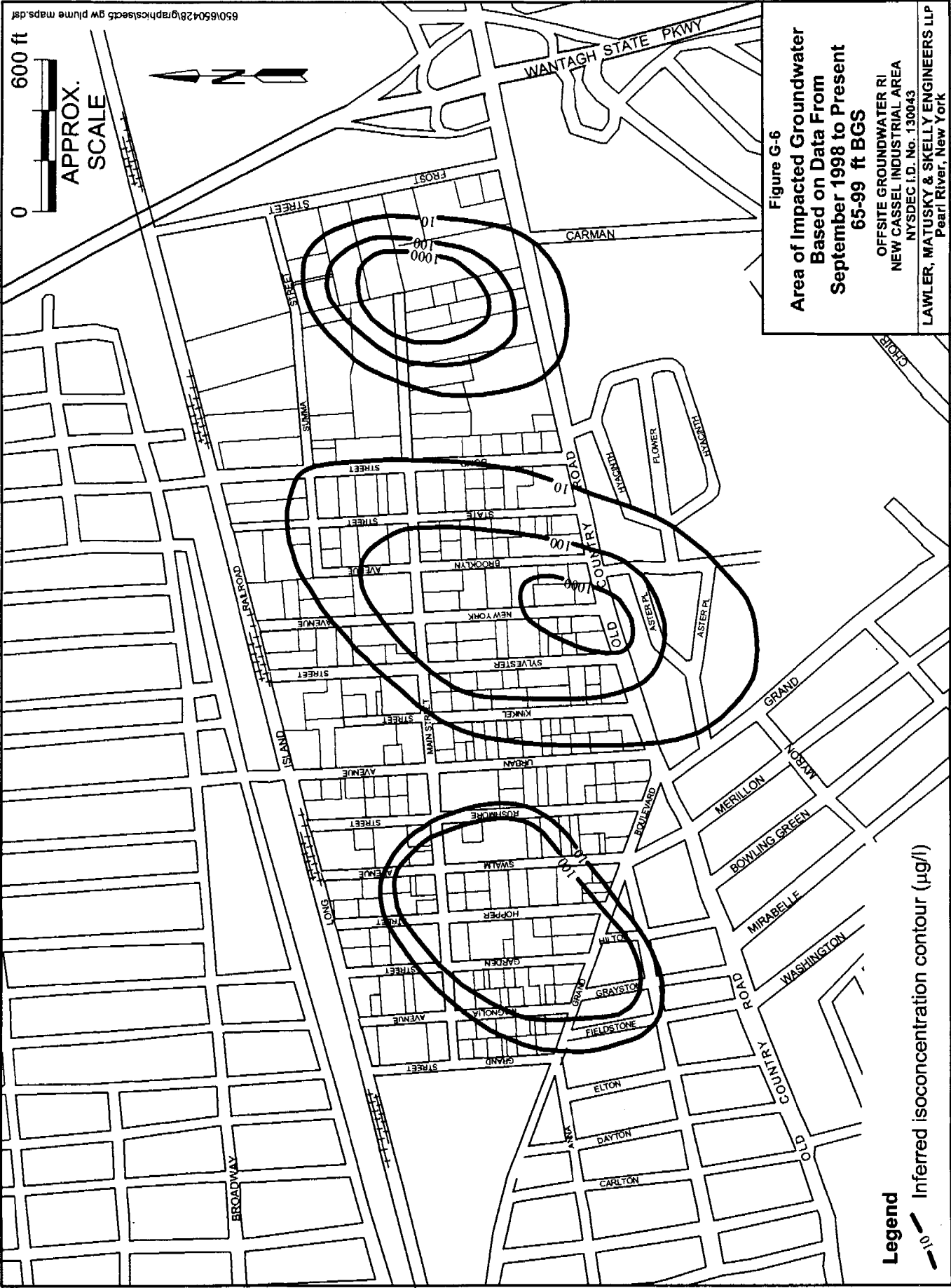
Legend

100 Inferred isoconcentration contour (µg/l)

600 ft



APPROX. SCALE



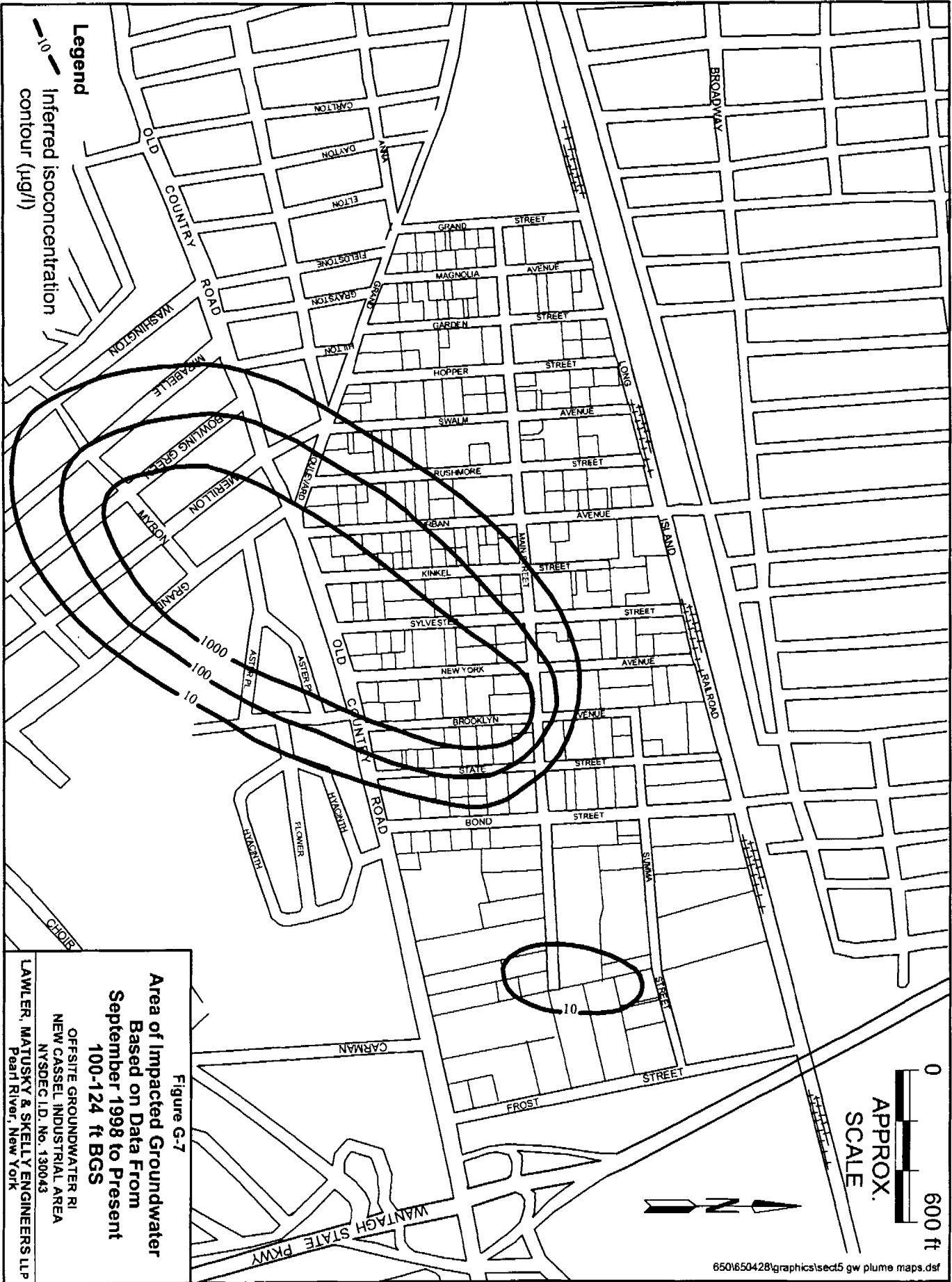
**Figure G-6**  
**Area of Impacted Groundwater**  
**Based on Data From**  
**September 1998 to Present**  
**65-99 ft BGS**

OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043

LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York

**Legend**

100 Inferred isoconcentration contour ( $\mu\text{g/l}$ )



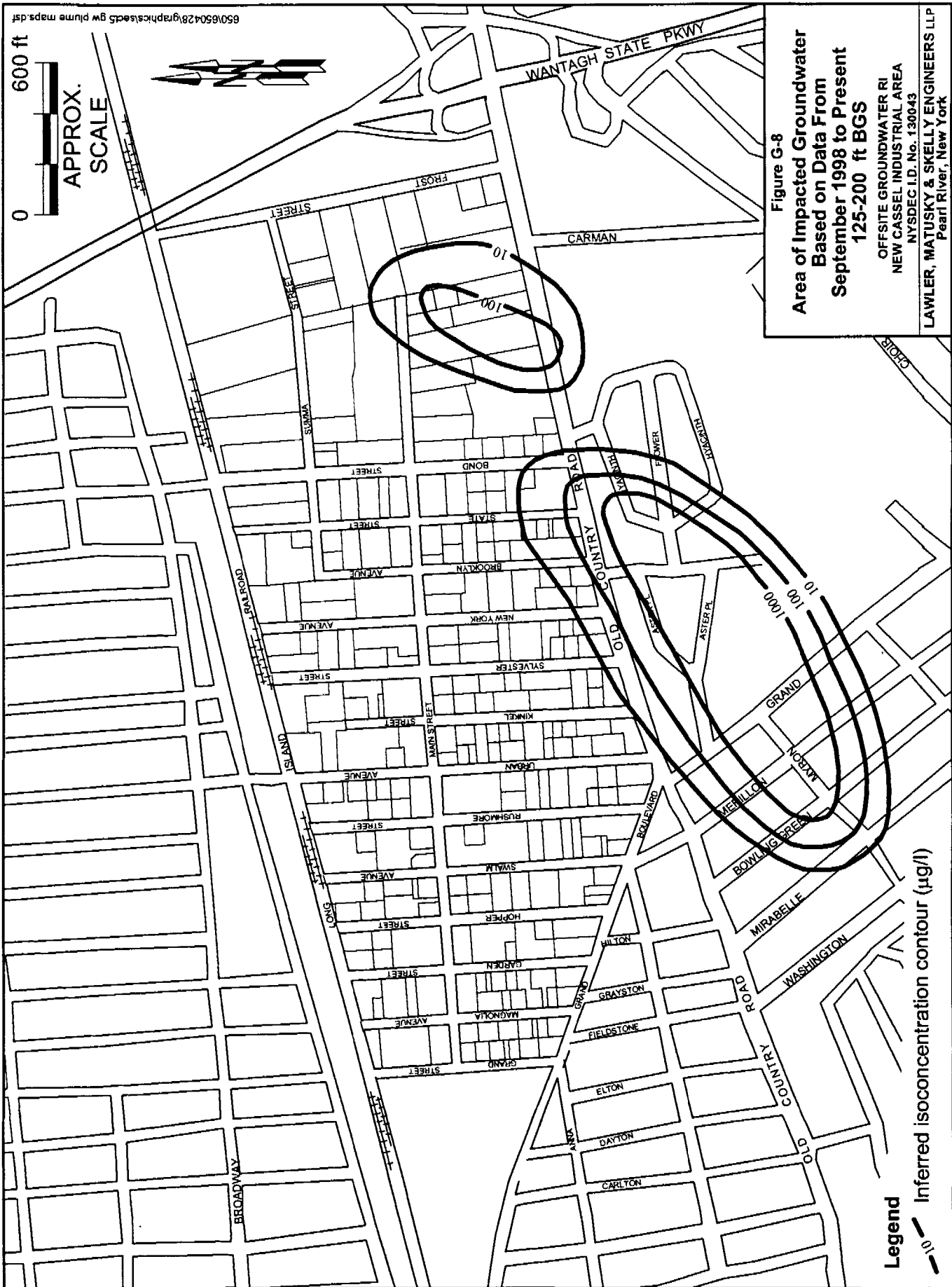
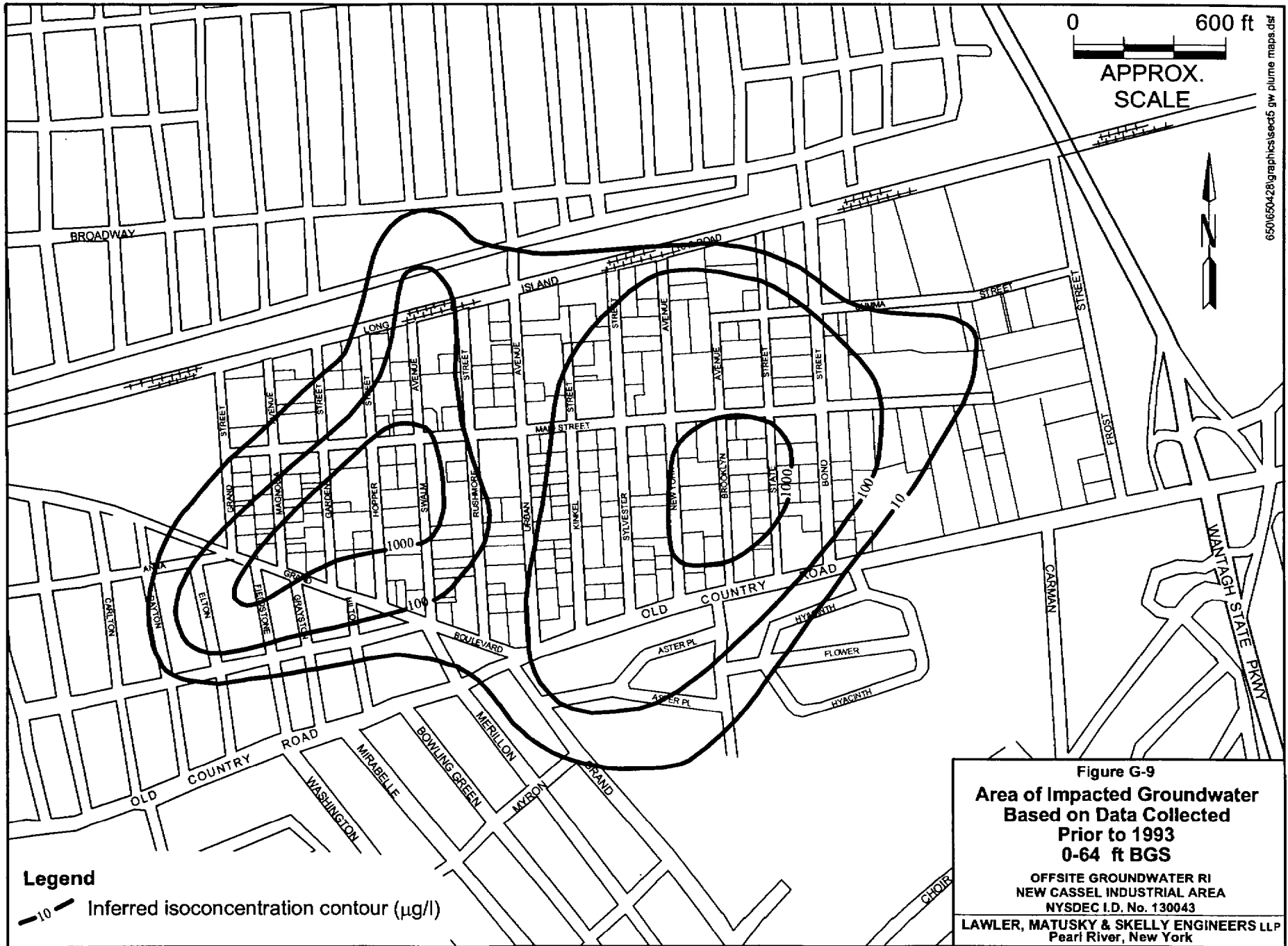
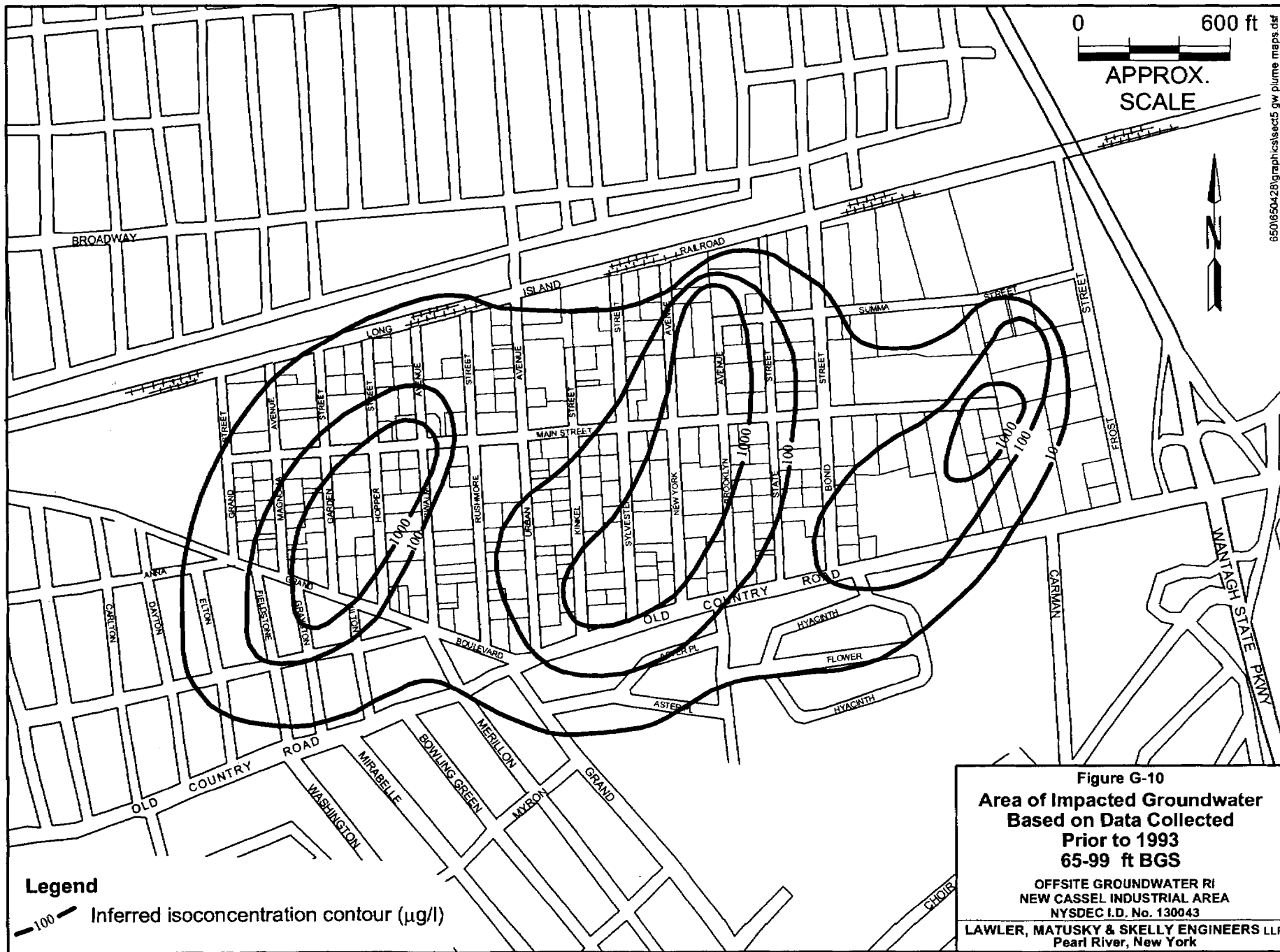


Figure G-8  
 Area of Impacted Groundwater  
 Based on Data From  
 September 1998 to Present  
 125-200 ft BGS  
 OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 136043  
 LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York

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6501650428\graphics\sect5 gw plume maps.dwg



0 600 ft  
 APPROX.  
 SCALE



6501650428\graphics\sect5 gw plume maps.tif

**Legend**  
 - - - 100 Inferred isoconcentration contour (µg/l)

**Figure G-10**  
**Area of Impacted Groundwater**  
**Based on Data Collected**  
**Prior to 1993**  
**65-99 ft BGS**  
 OFFSITE GROUNDWATER RI  
 NEW CASPEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043  
 LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York



**Individual sampling points in excess of:  
Inferred isoconcentration contour ( $\mu\text{g/l}$ )**

0 600 ft  
APPROX.  
SCALE

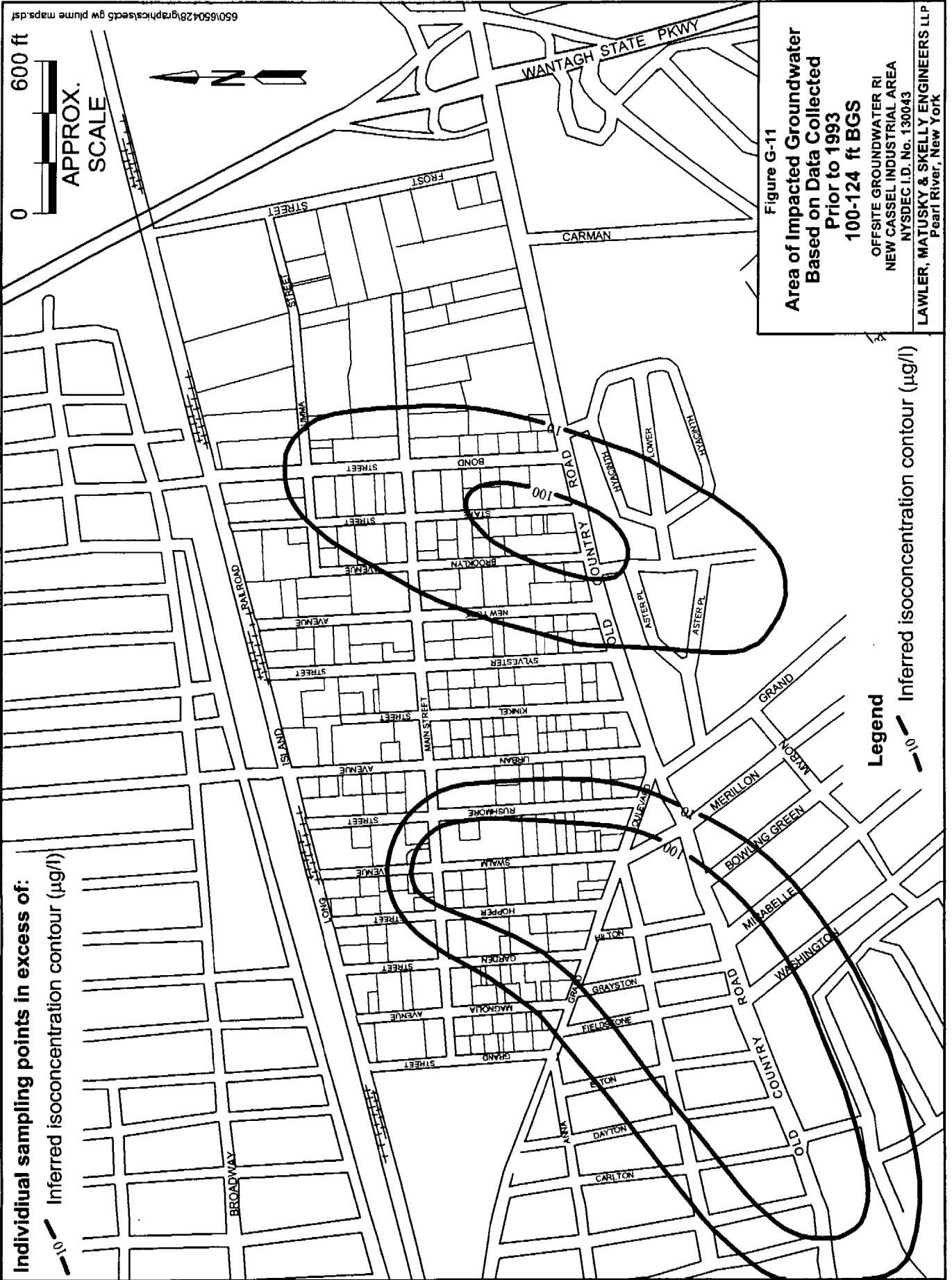


Figure G-11

**Area of Impacted Groundwater  
Based on Data Collected  
Prior to 1993  
100-124 ft BGS**

OFFSITE GROUNDWATER RI  
NEW CASSEL INDUSTRIAL AREA  
NYSDEC I.D. No. 130043

LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
Pearl River, New York

**Legend**

 100 Inferred isoconcentration contour ( $\mu\text{g/l}$ )

0 600 ft

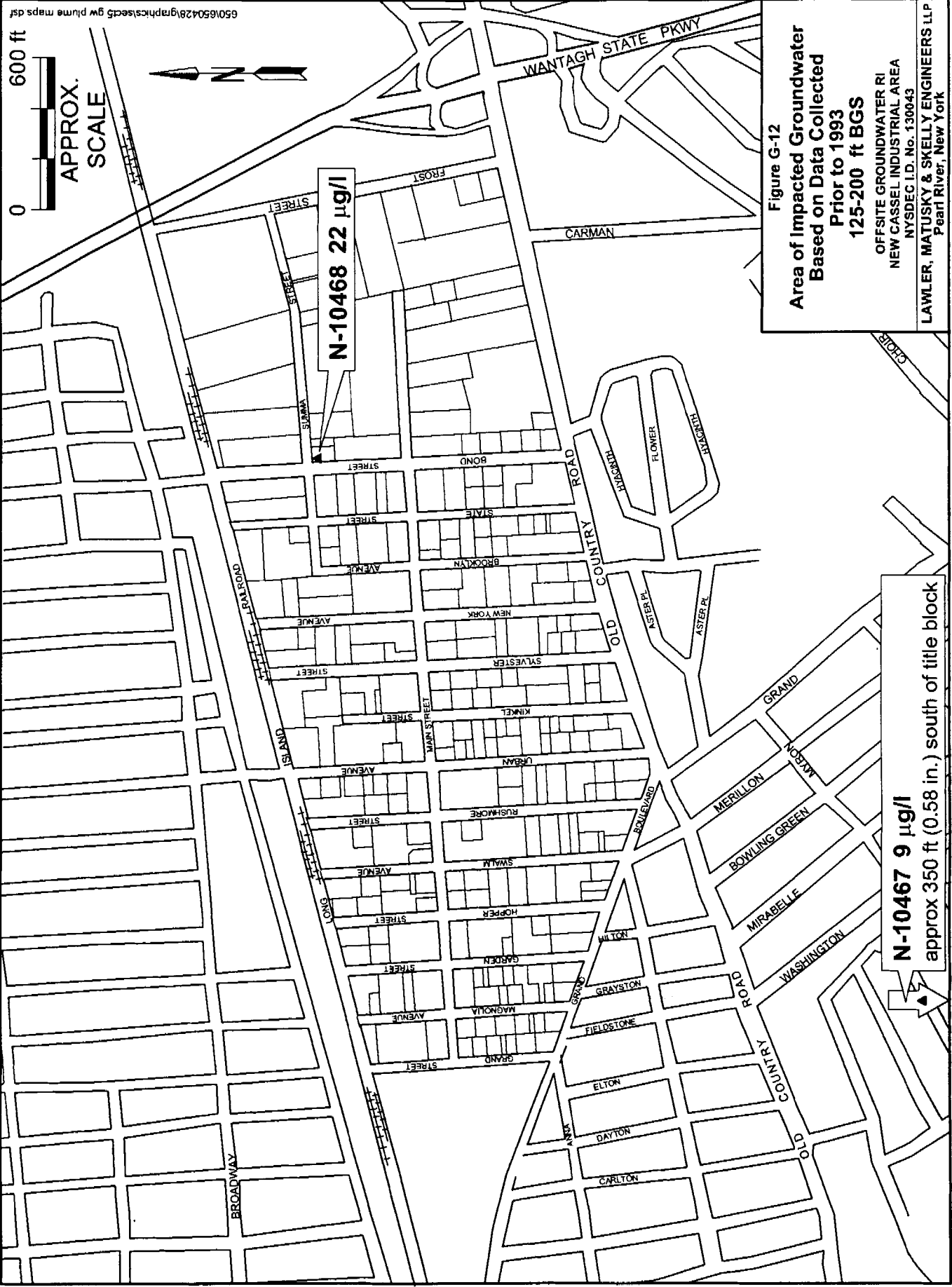
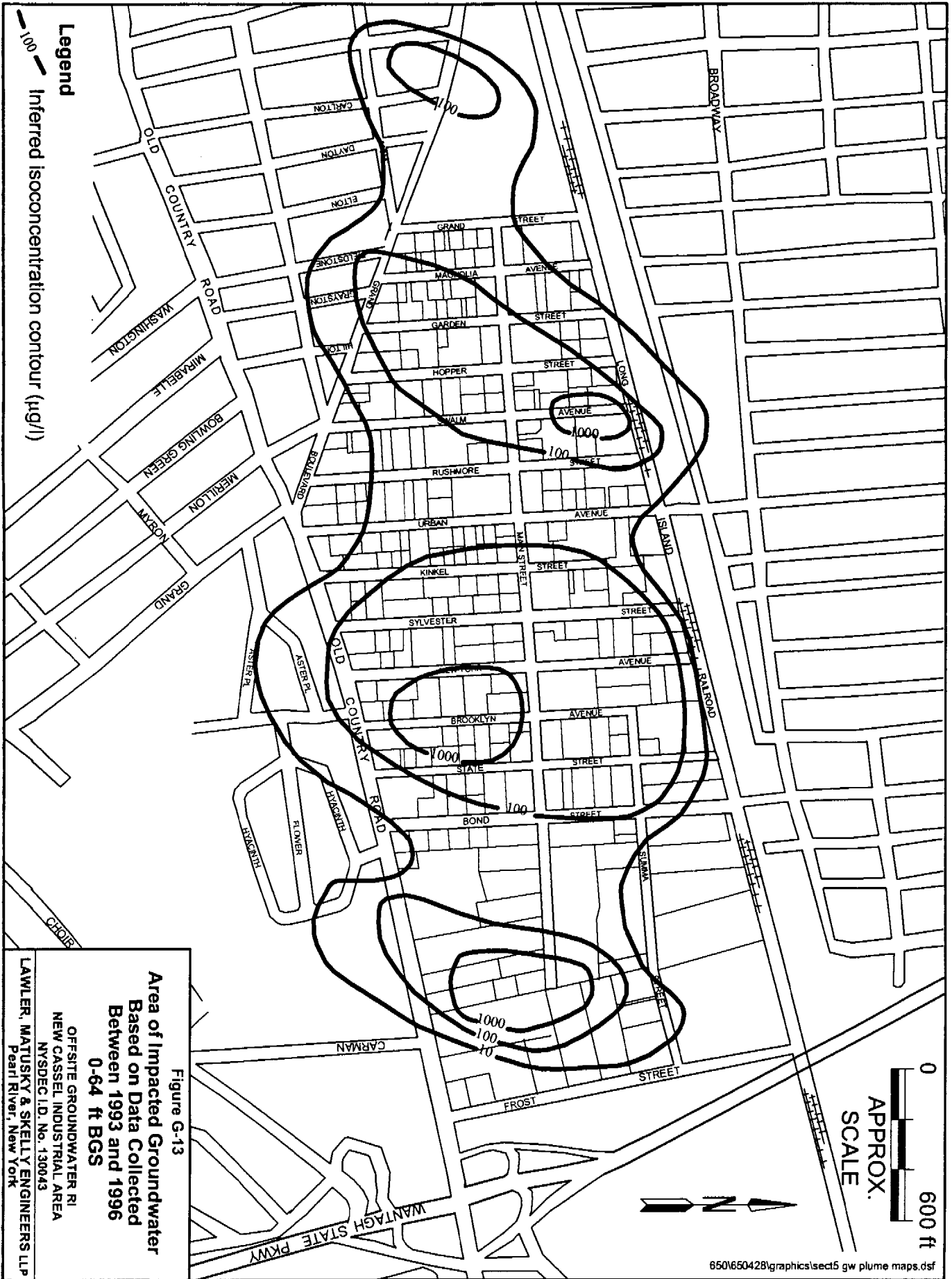
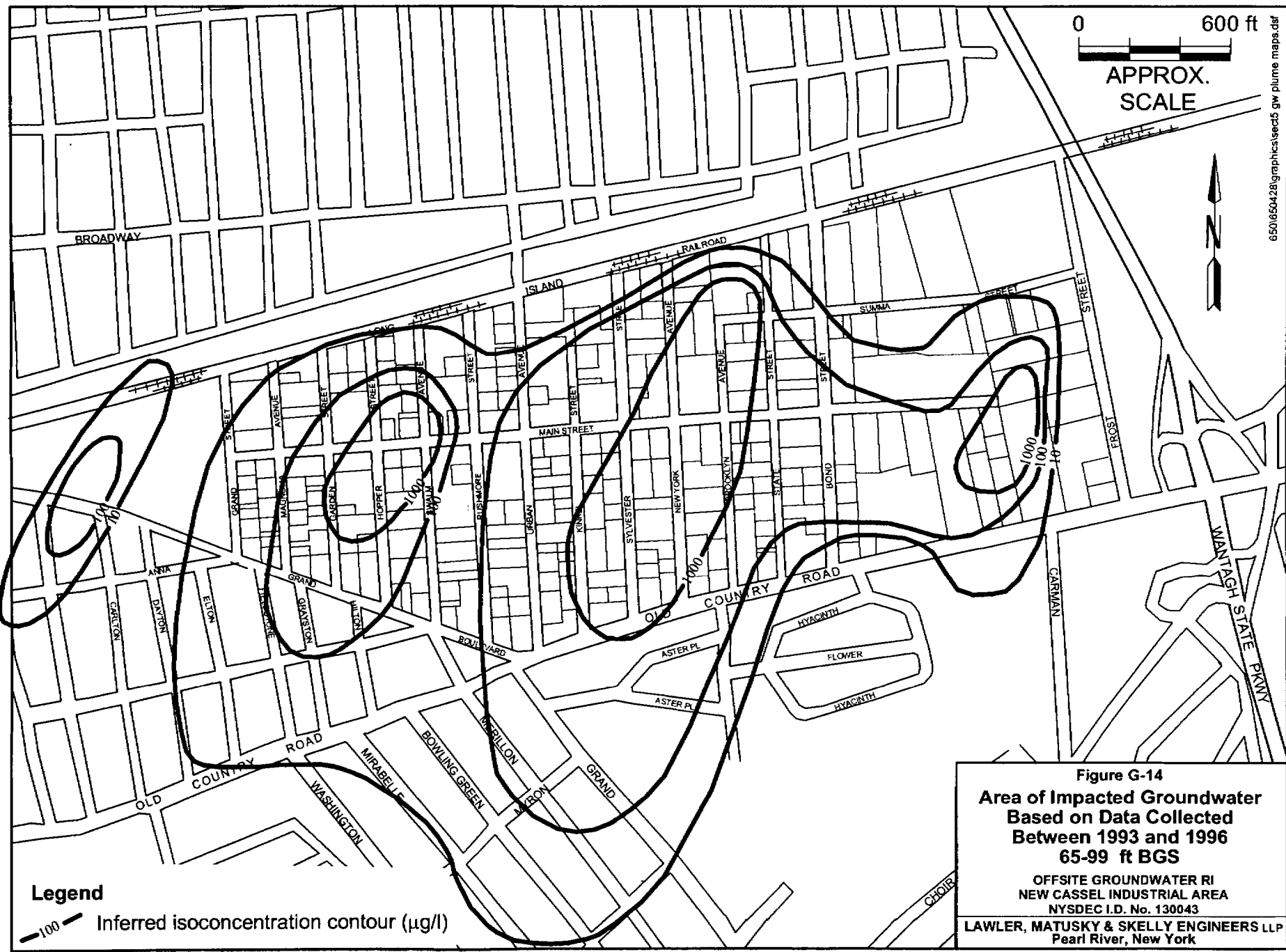


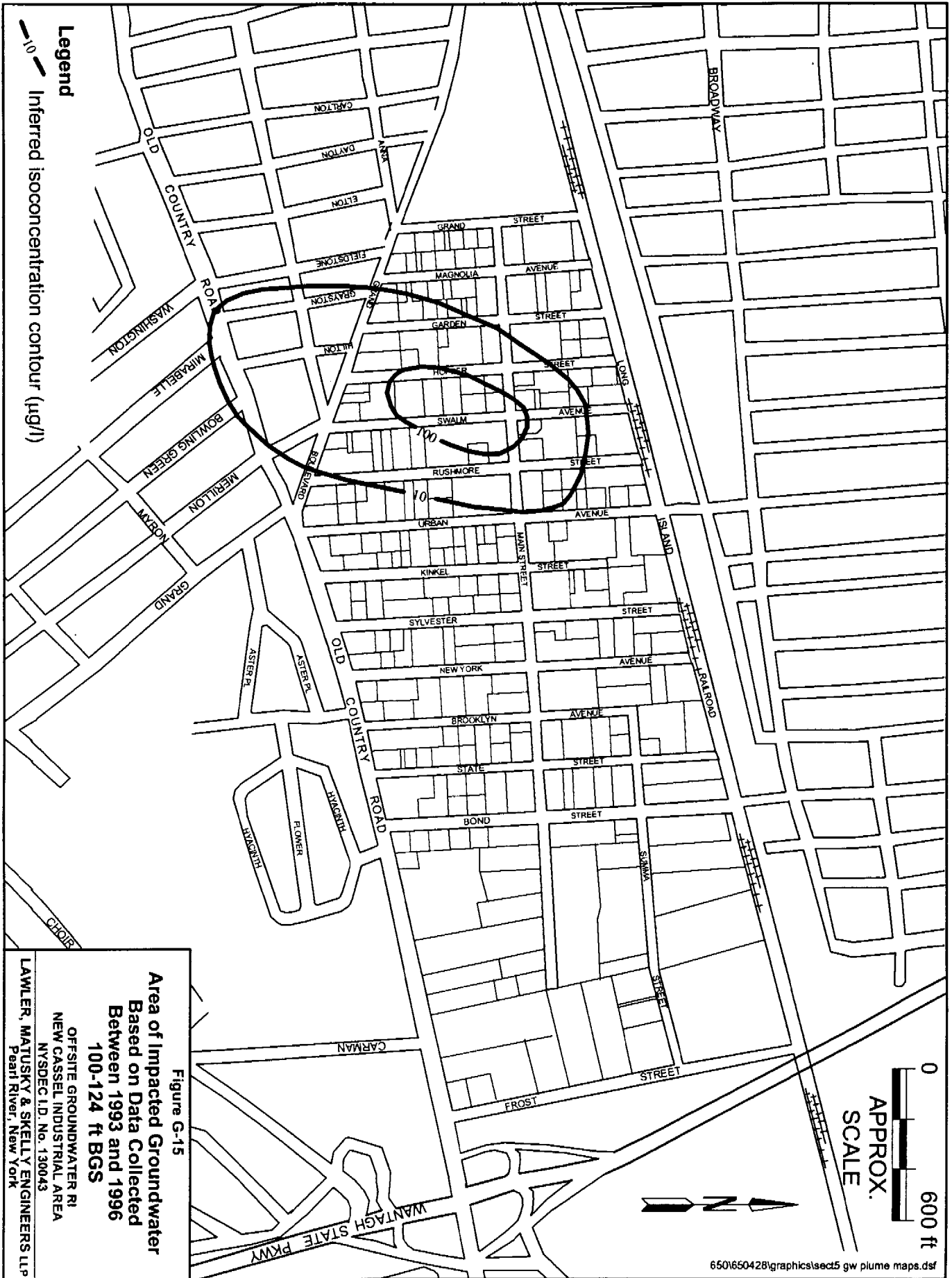
Figure G-12  
**Area of Impacted Groundwater  
Based on Data Collected  
Prior to 1993  
125-200 ft BGS**  
OFFSITE GROUNDWATER RI  
NEW CASSEL INDUSTRIAL AREA  
NYSDEC I.D. No. 1300643  
LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
Pearl River, New York

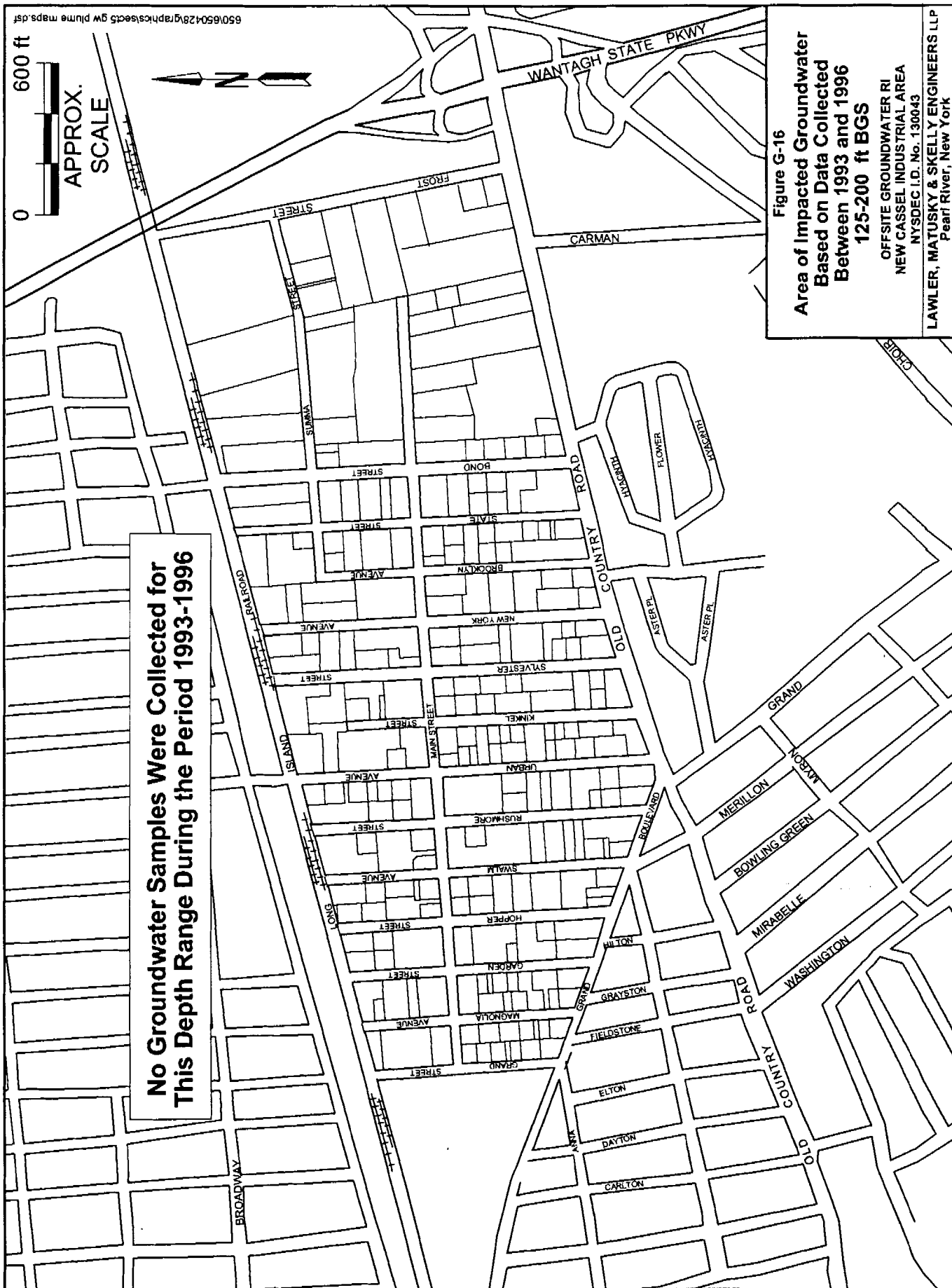
**N-10467 9 µg/l**  
approx 350 ft (0.58 in.) south of title block





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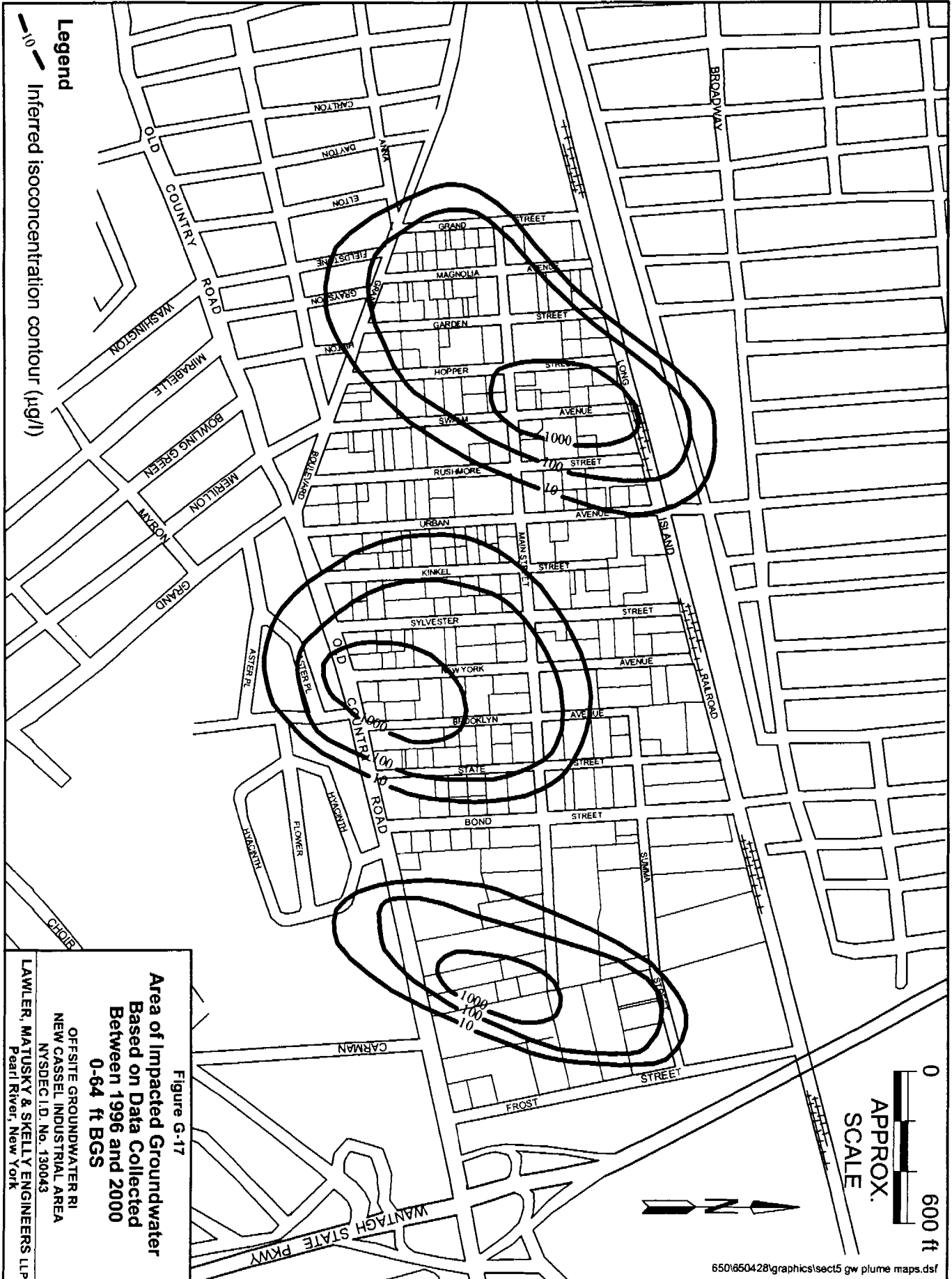




650165042819rapihcssect5 gw plume maps.dxf

**No Groundwater Samples Were Collected for This Depth Range During the Period 1993-1996**

**Figure G-16**  
**Area of Impacted Groundwater**  
**Based on Data Collected**  
**Between 1993 and 1996**  
**125-200 ft BGS**  
 OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 1300043  
**LAWLER, MATUSKY & SKELLY ENGINEERS LLP**  
 Pearl River, New York



**Legend**  
 10 — Inferred isoconcentration contour (µg/l)

0 600 ft  
 APPROX.  
 SCALE

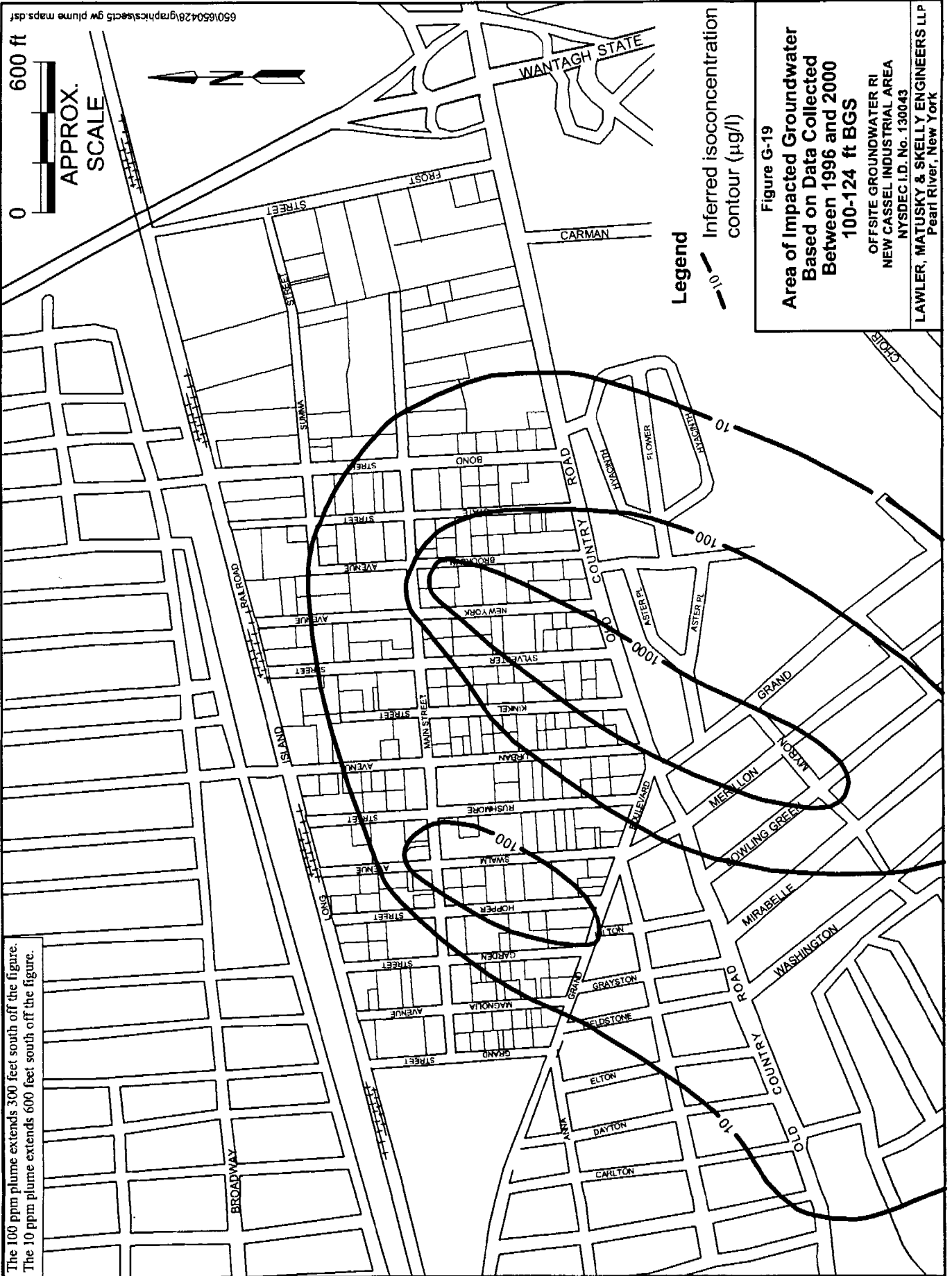
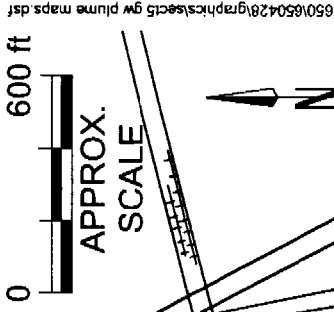
**Figure G-17**  
**Area of Impacted Groundwater**  
**Based on Data Collected**  
**Between 1996 and 2000**  
**0-64 ft BGS**

OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043  
 LAWLER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York



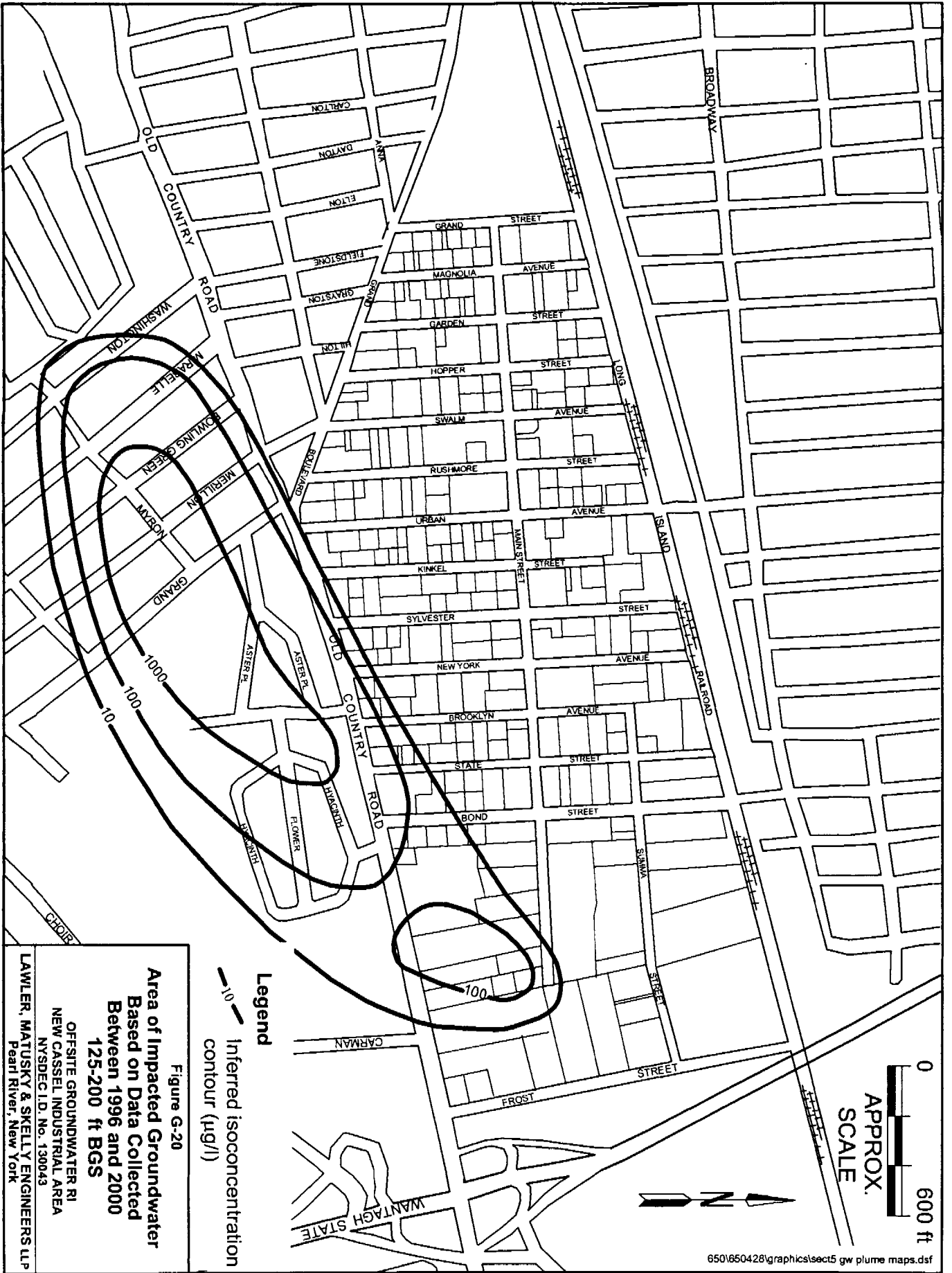


The 100 ppm plume extends 300 feet south off the figure.  
 The 10 ppm plume extends 600 feet south off the figure.



**Legend**  
 --- 100 Inferred isoconcentration contour (µg/l)  
 - - - 10

**Figure G-19**  
**Area of Impacted Groundwater**  
**Based on Data Collected**  
**Between 1996 and 2000**  
**100-124 ft BGS**  
 OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043  
**LAWLER, MATUSKY & SKELLY ENGINEERS LLP**  
 Pearl River, New York



**Figure G-20**  
**Area of Impacted Groundwater**  
**Based on Data Collected**  
**Between 1996 and 2000**  
**125-200 ft BGS**  
 OFFSITE GROUNDWATER RI  
 NEW CASSEL INDUSTRIAL AREA  
 NYSDCE I.D. No. 130043  
 LAWLIER, MATUSKY & SKELLY ENGINEERS LLP  
 Pearl River, New York

**Legend**  
 — 10 — Inferred isoconcentration  
 contour (µg/l)

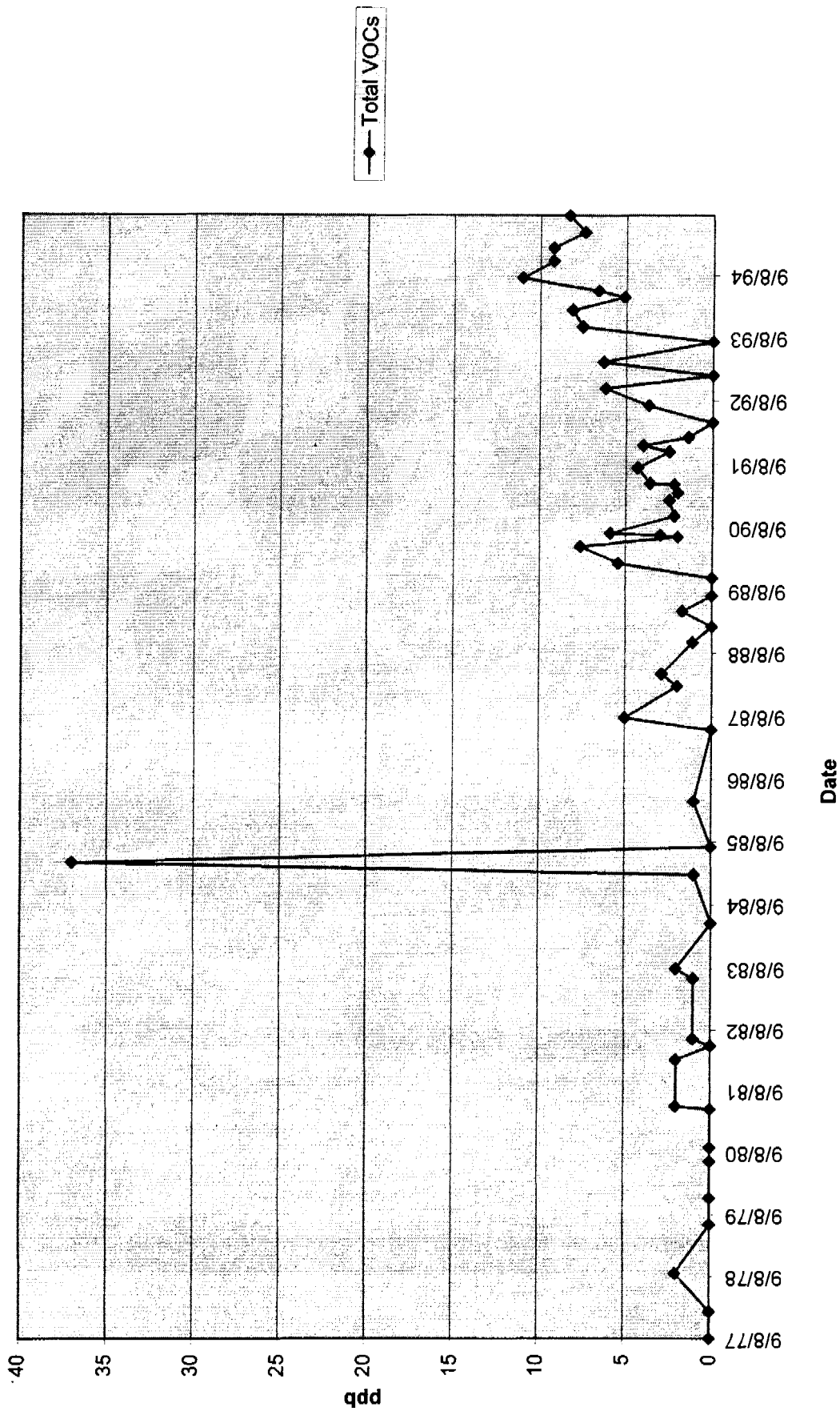
0  
 600 ft  
**APPROX.**  
**SCALE**



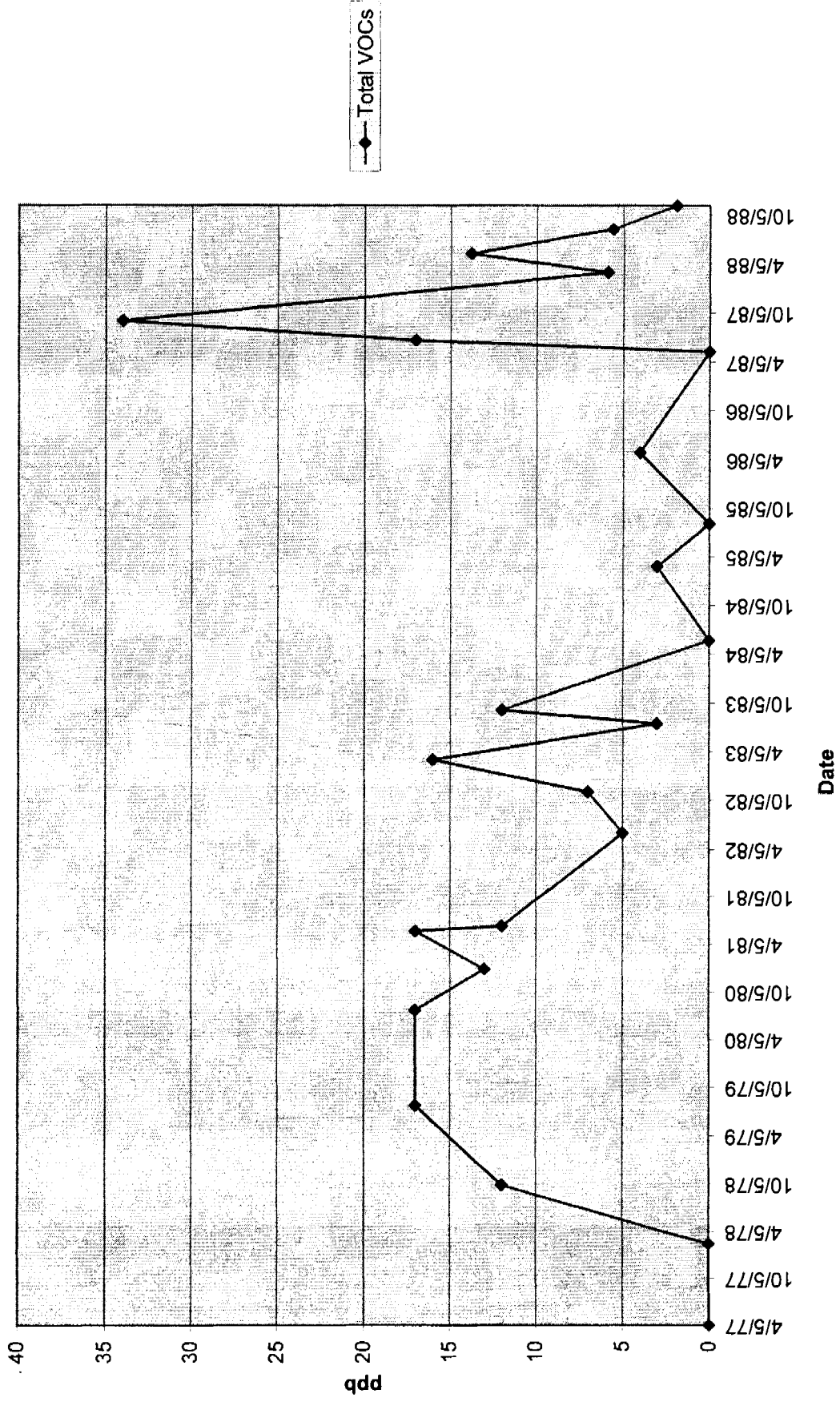
**APPENDIX H**  
**CONCENTRATION vs. TIME PLOTS**



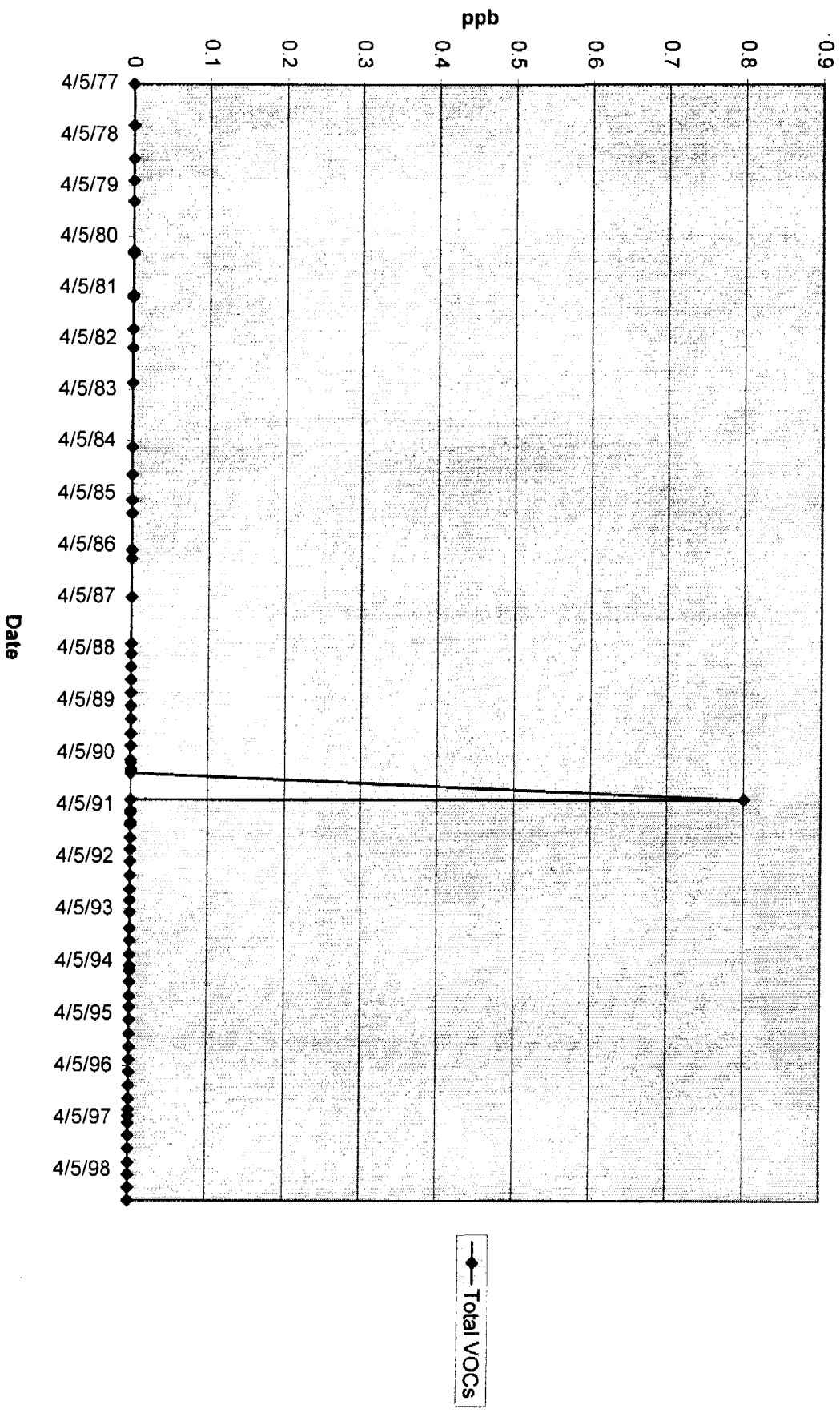
# N-5655 Total VOCs



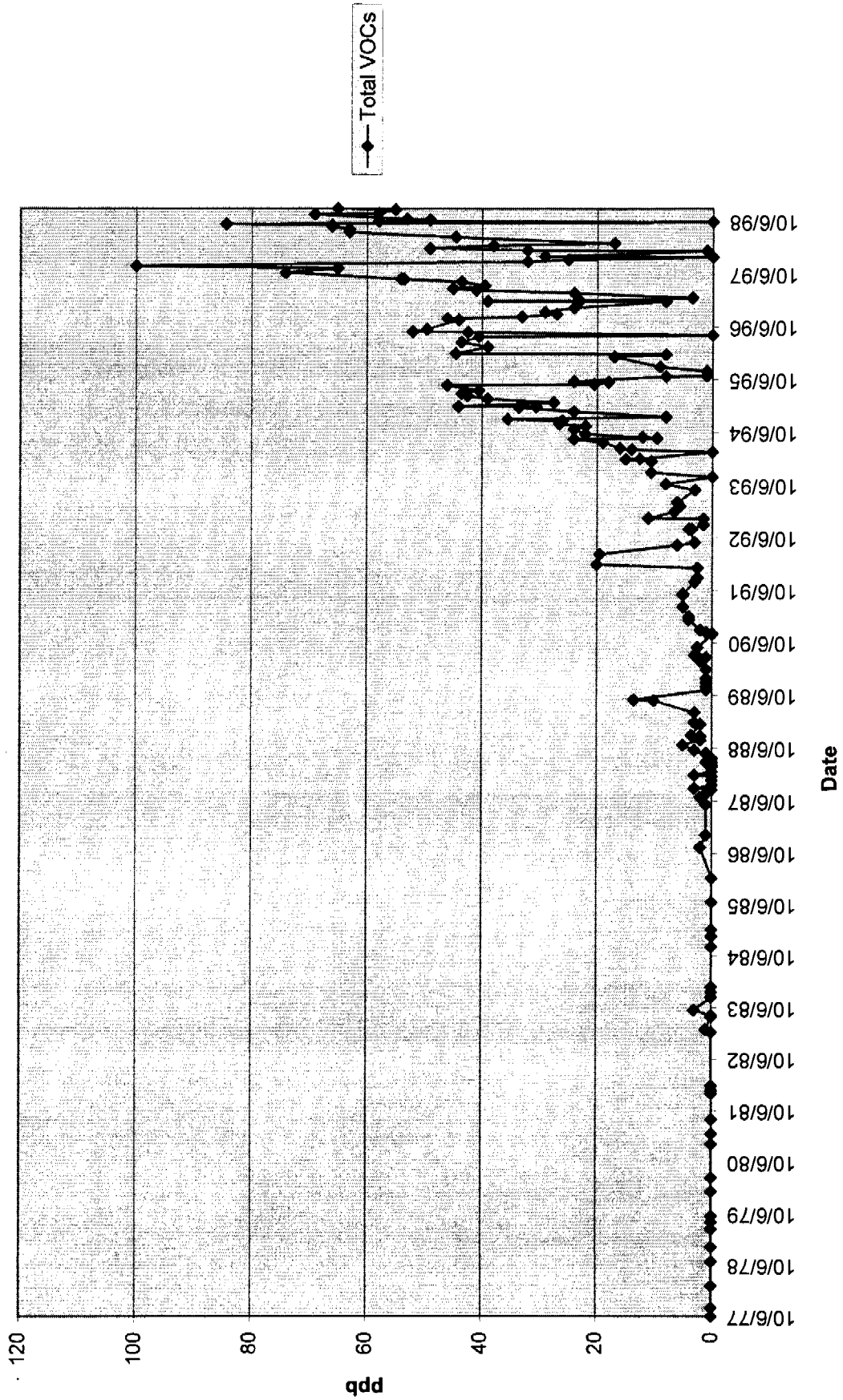
# N-6819 Total VOCs



N-8497 Total VOCs

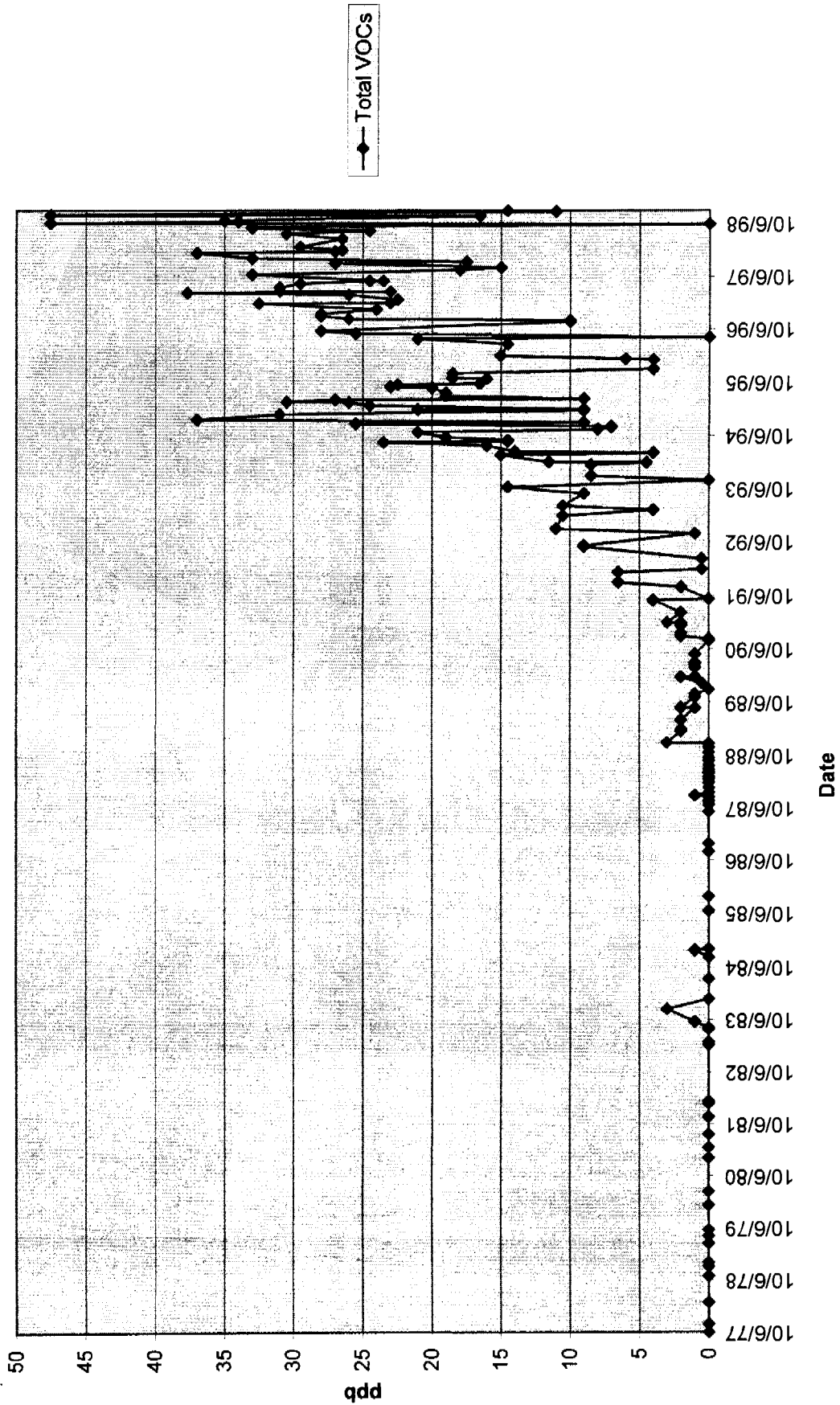


# N-8956 Total VOCs

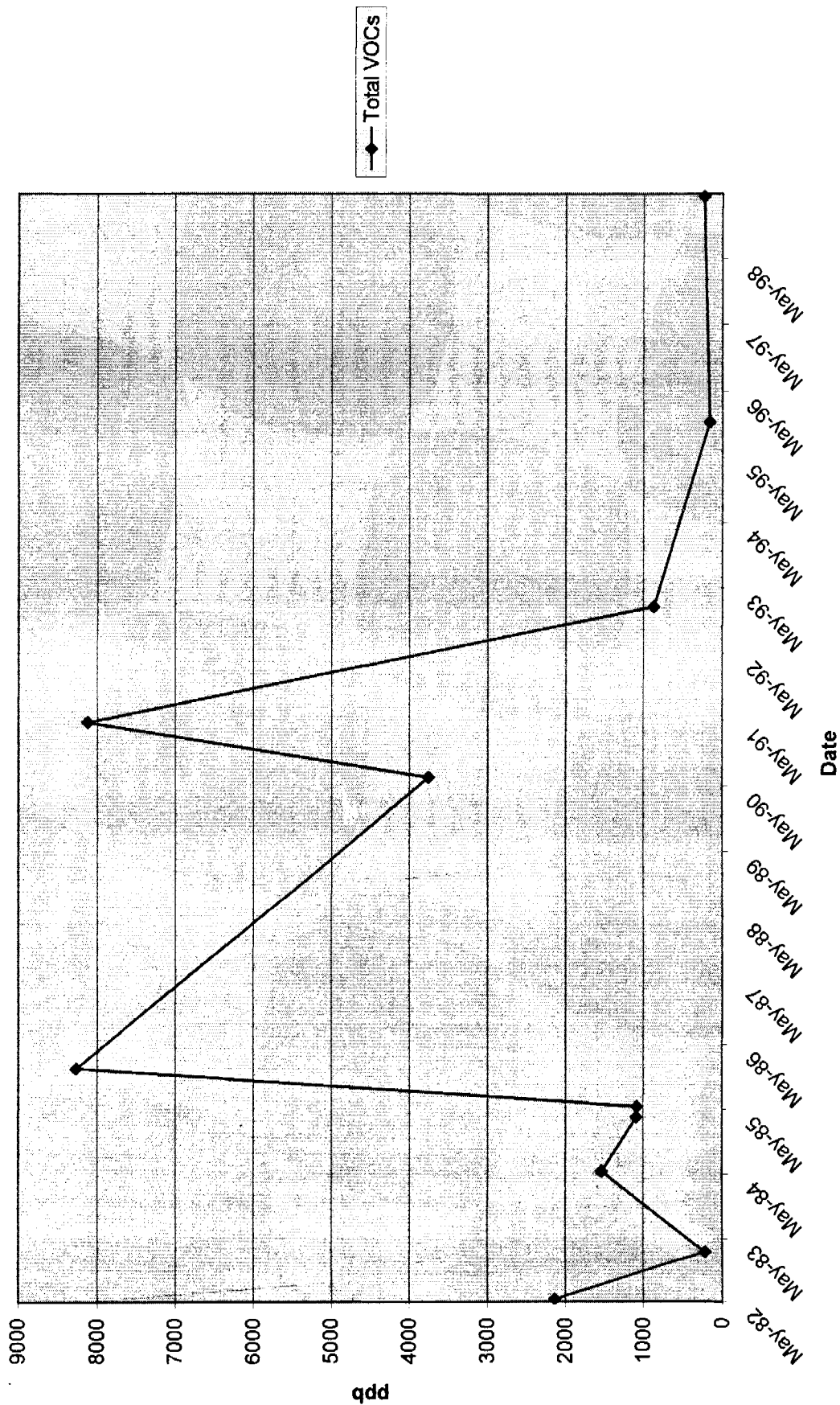




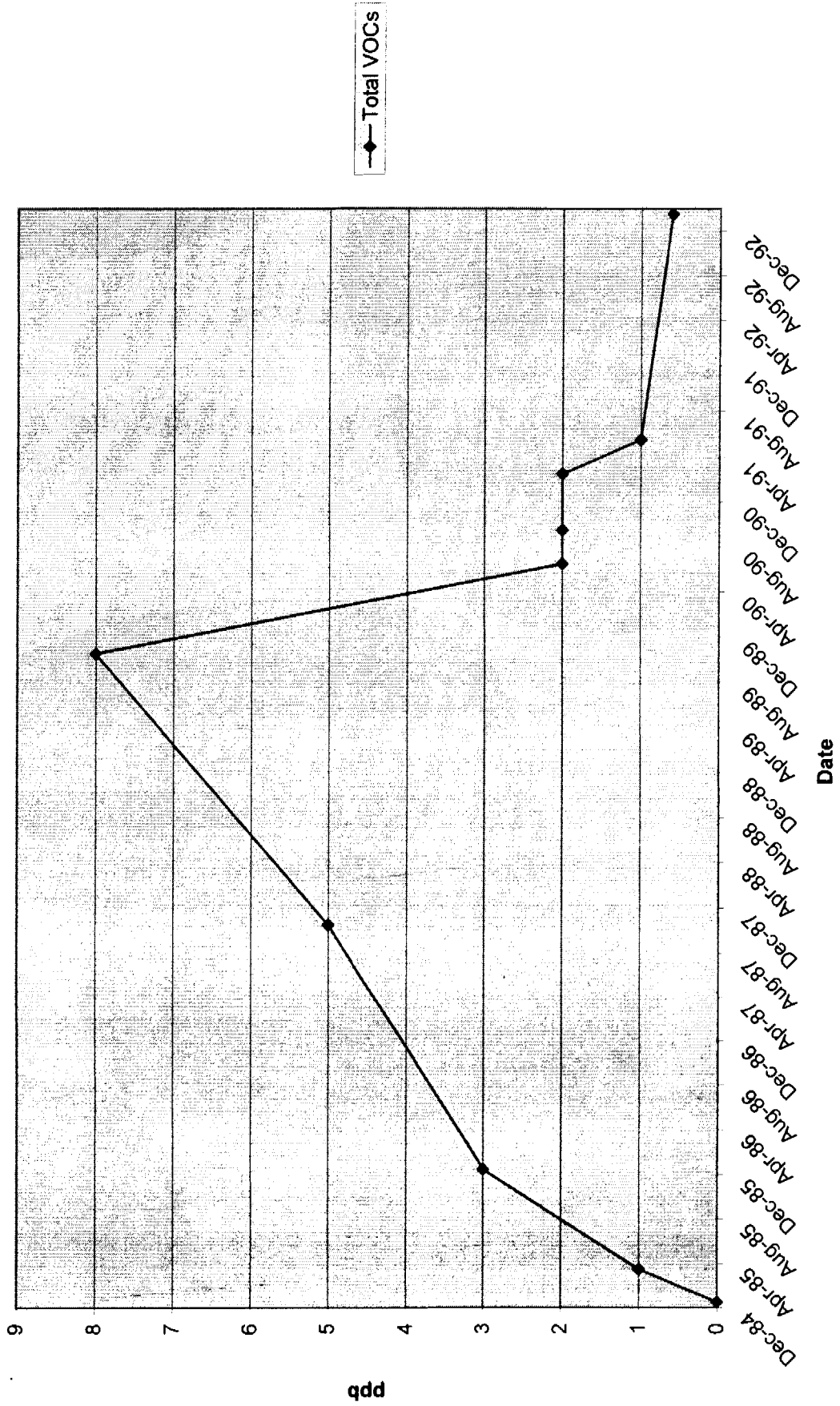
# N-8957 Total VOCs



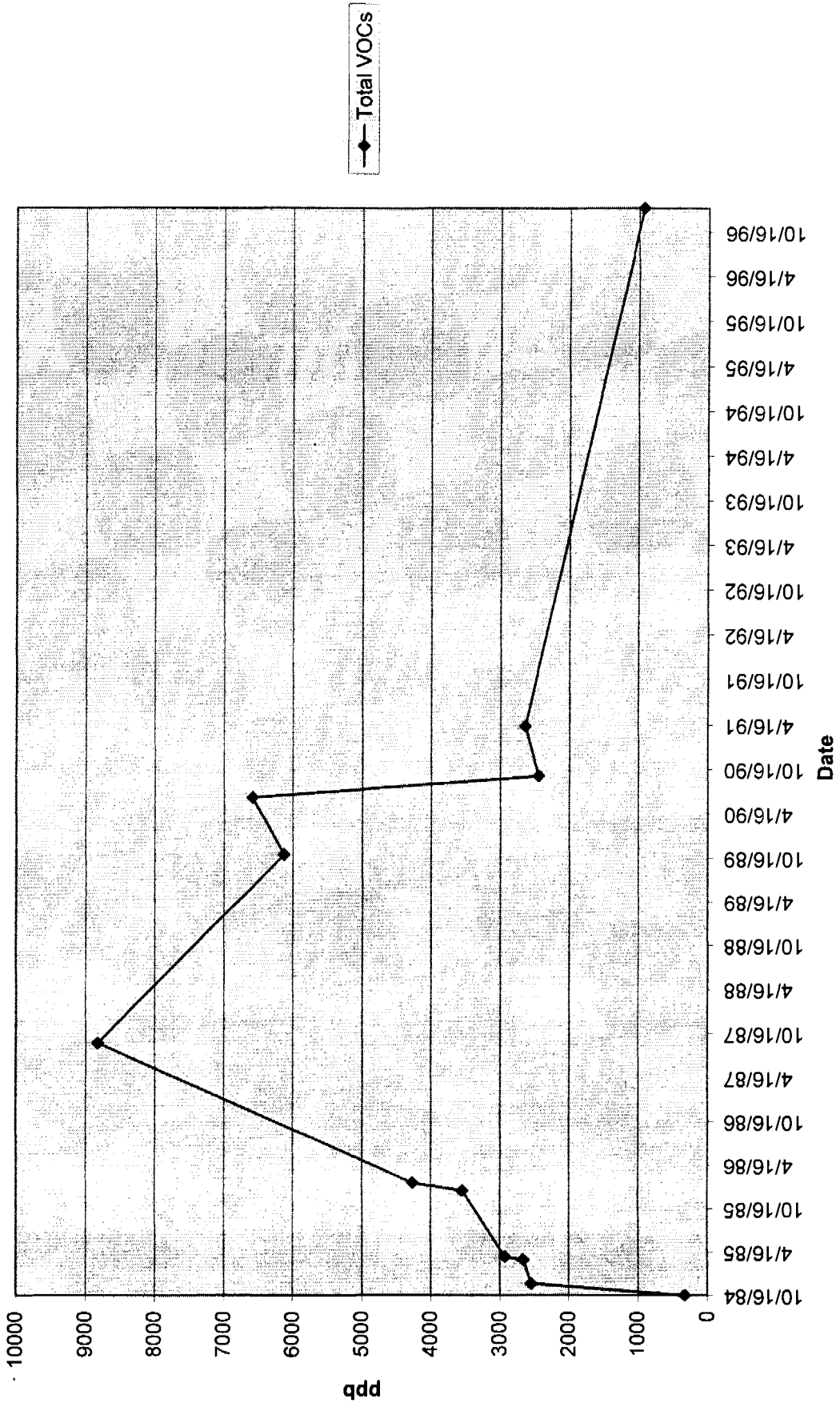
# N-9938 Total VOCs



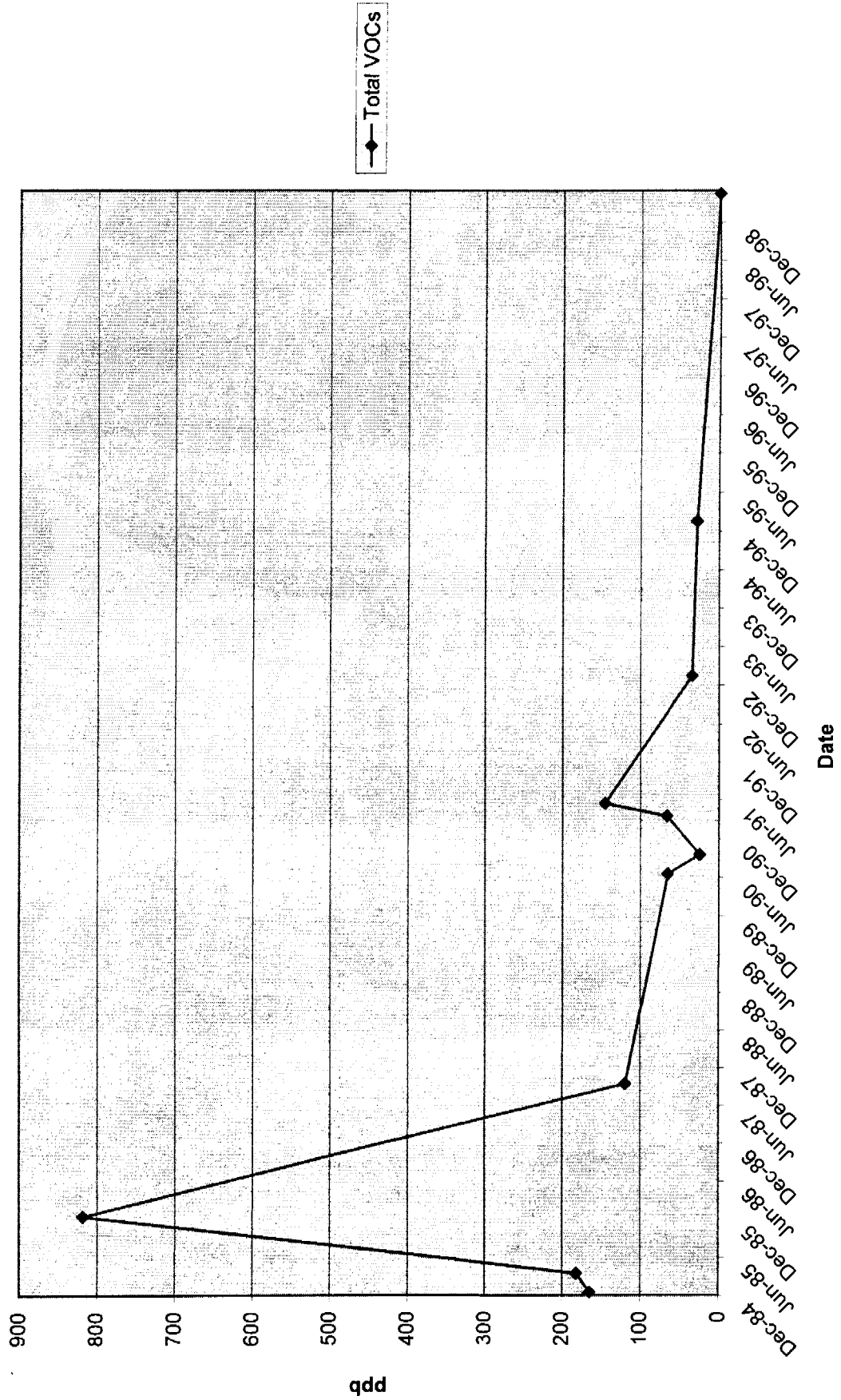
N-10318 Total VOCs



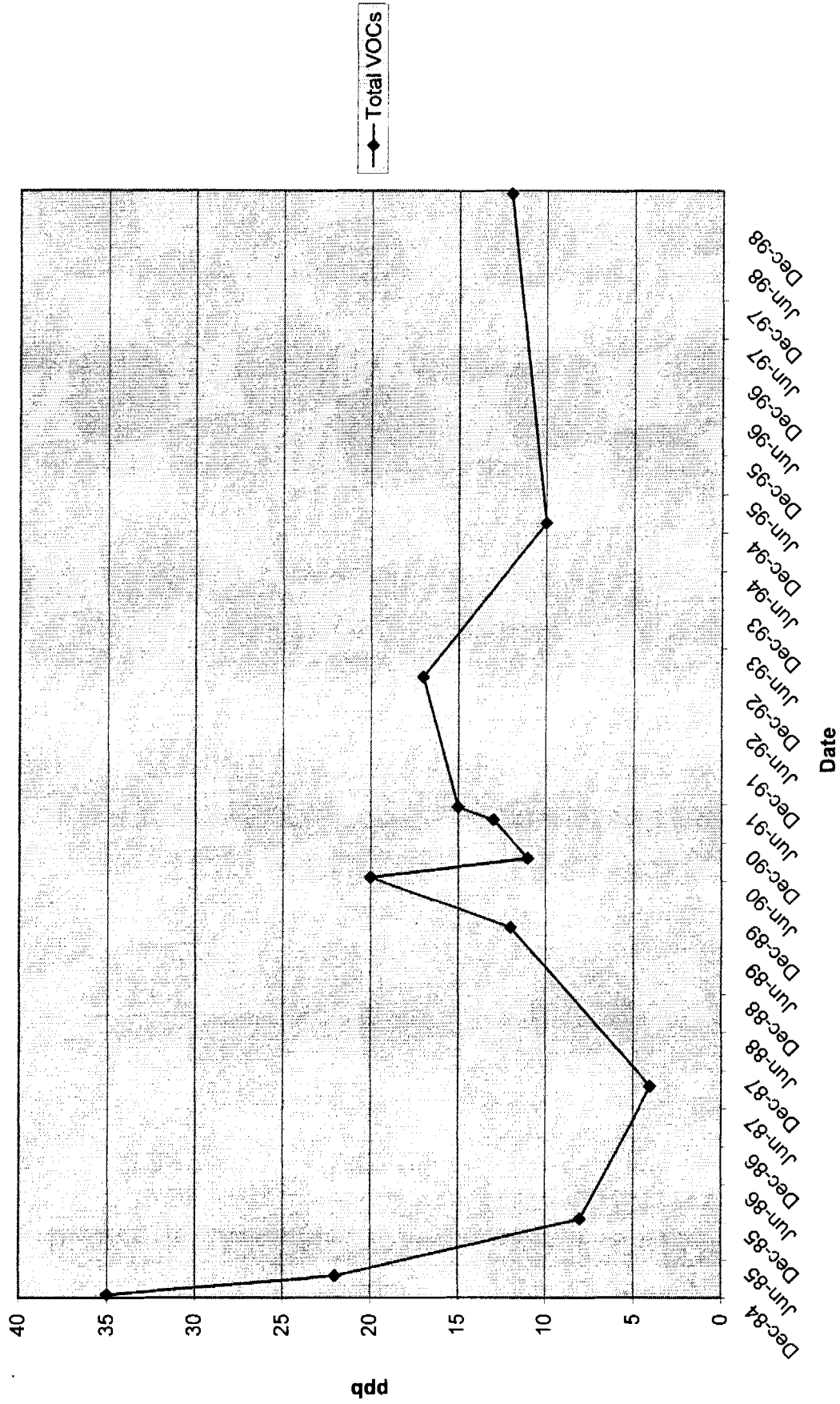
# N-10319 Total VOCs



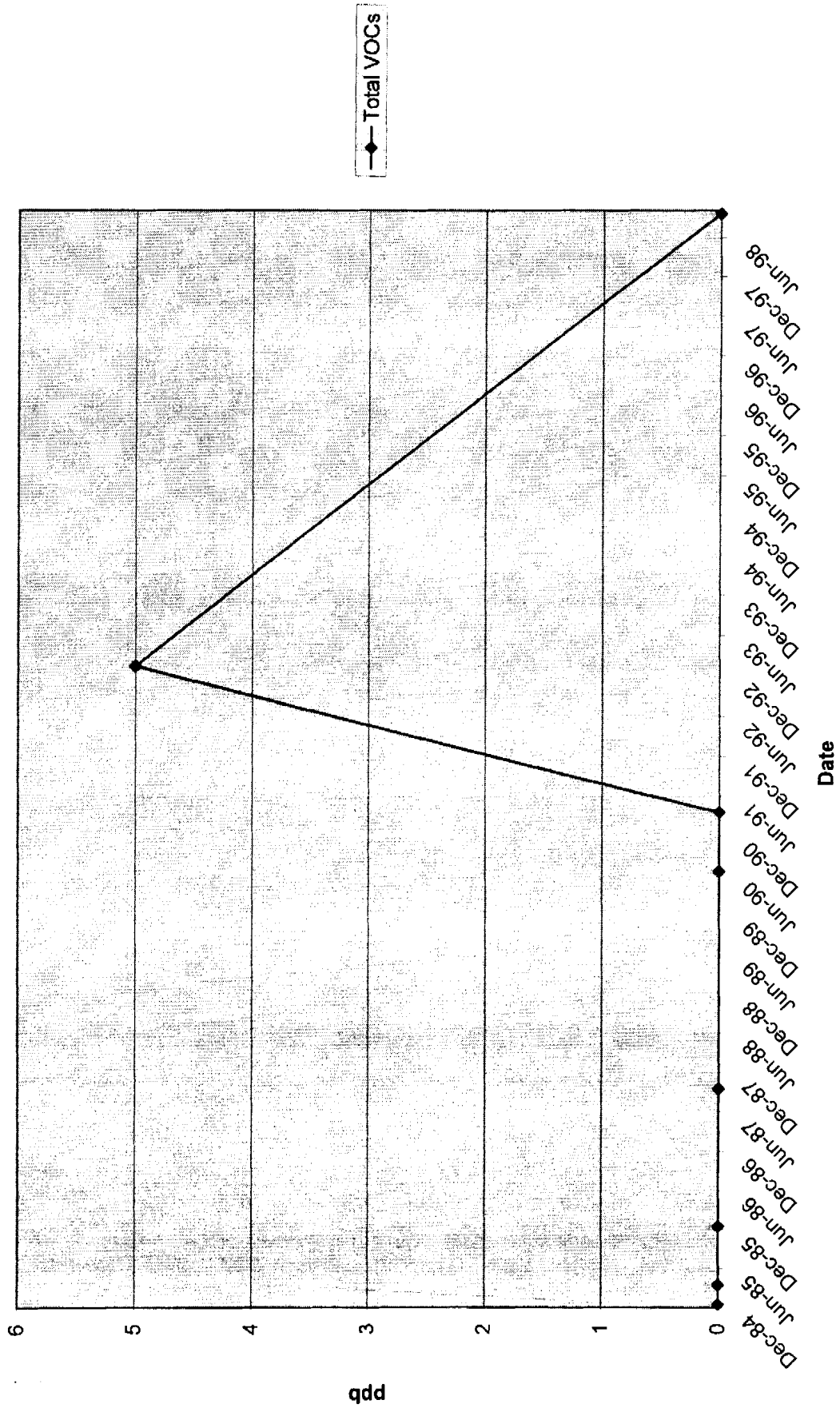
# N-10321 Total VOCs



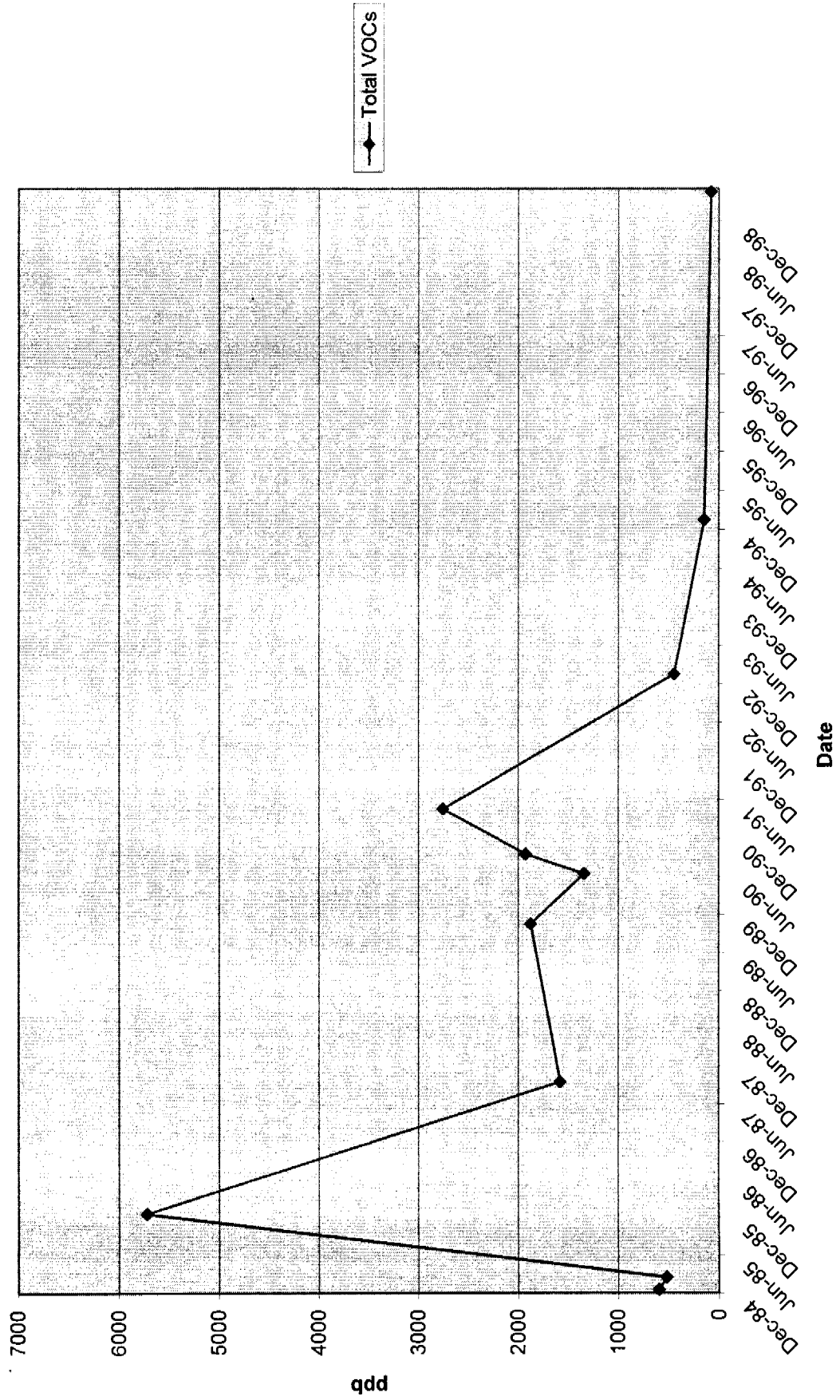
# N-10322 Total VOCs



# N-10323 Total VOCs

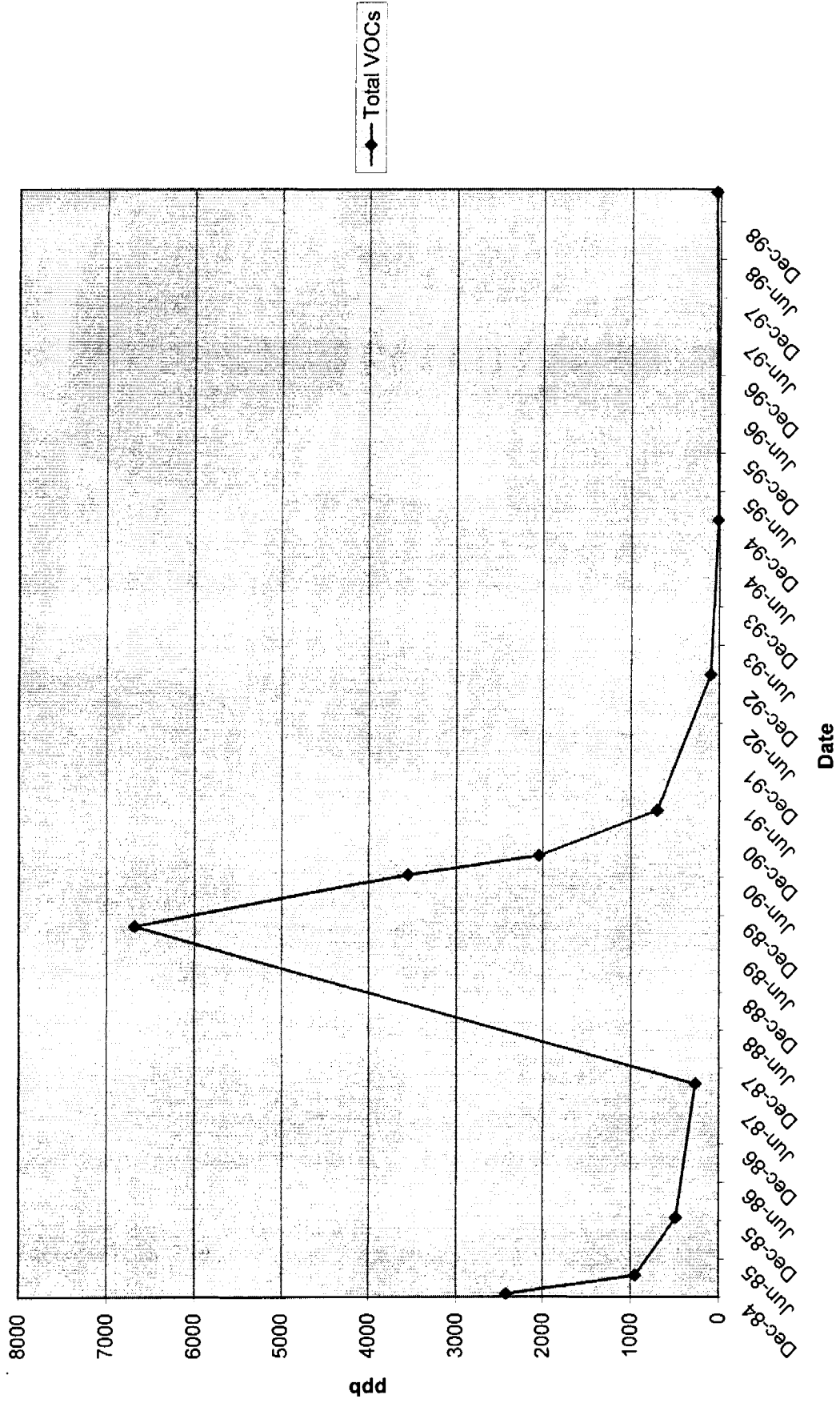


# N-10324 Total VOCs

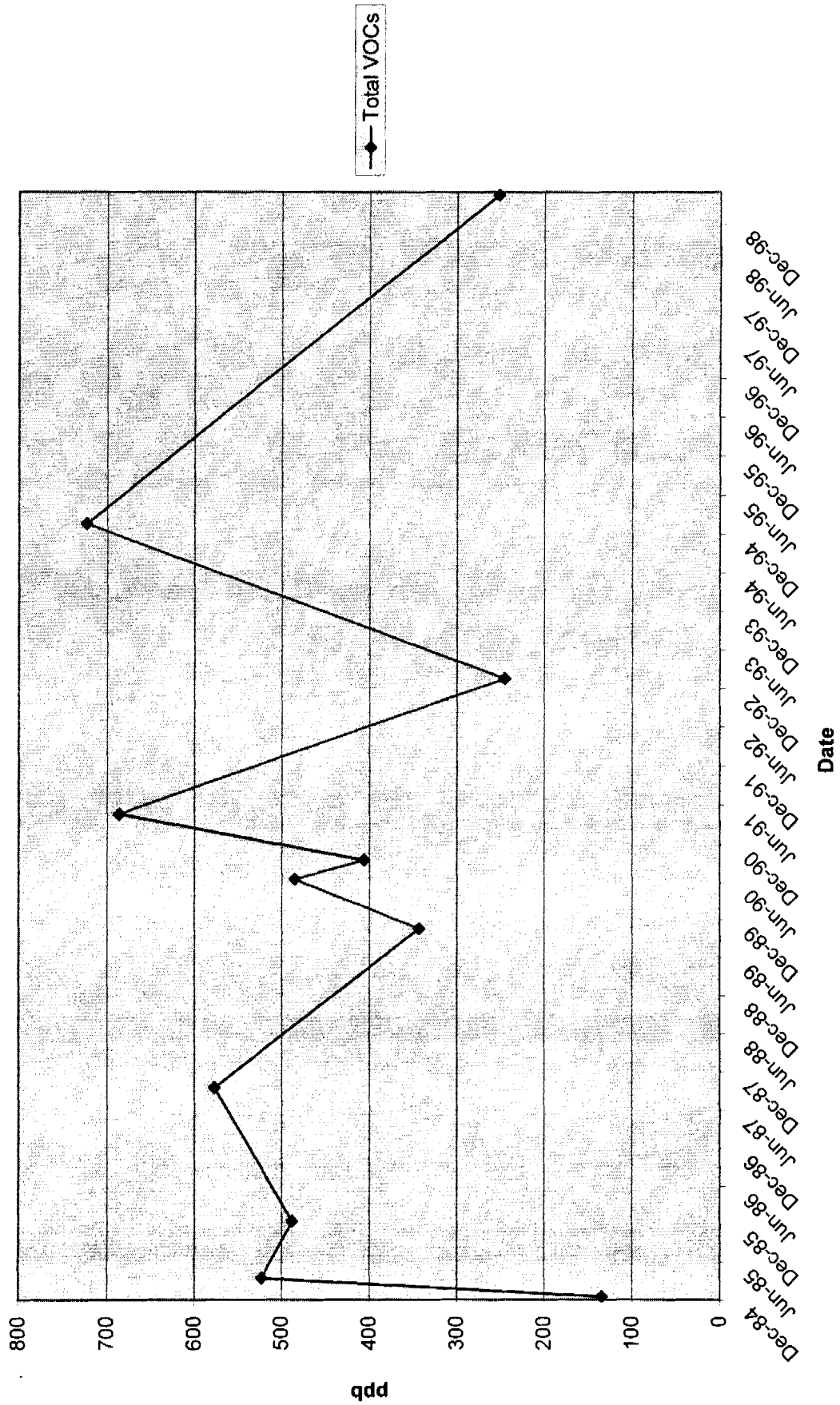




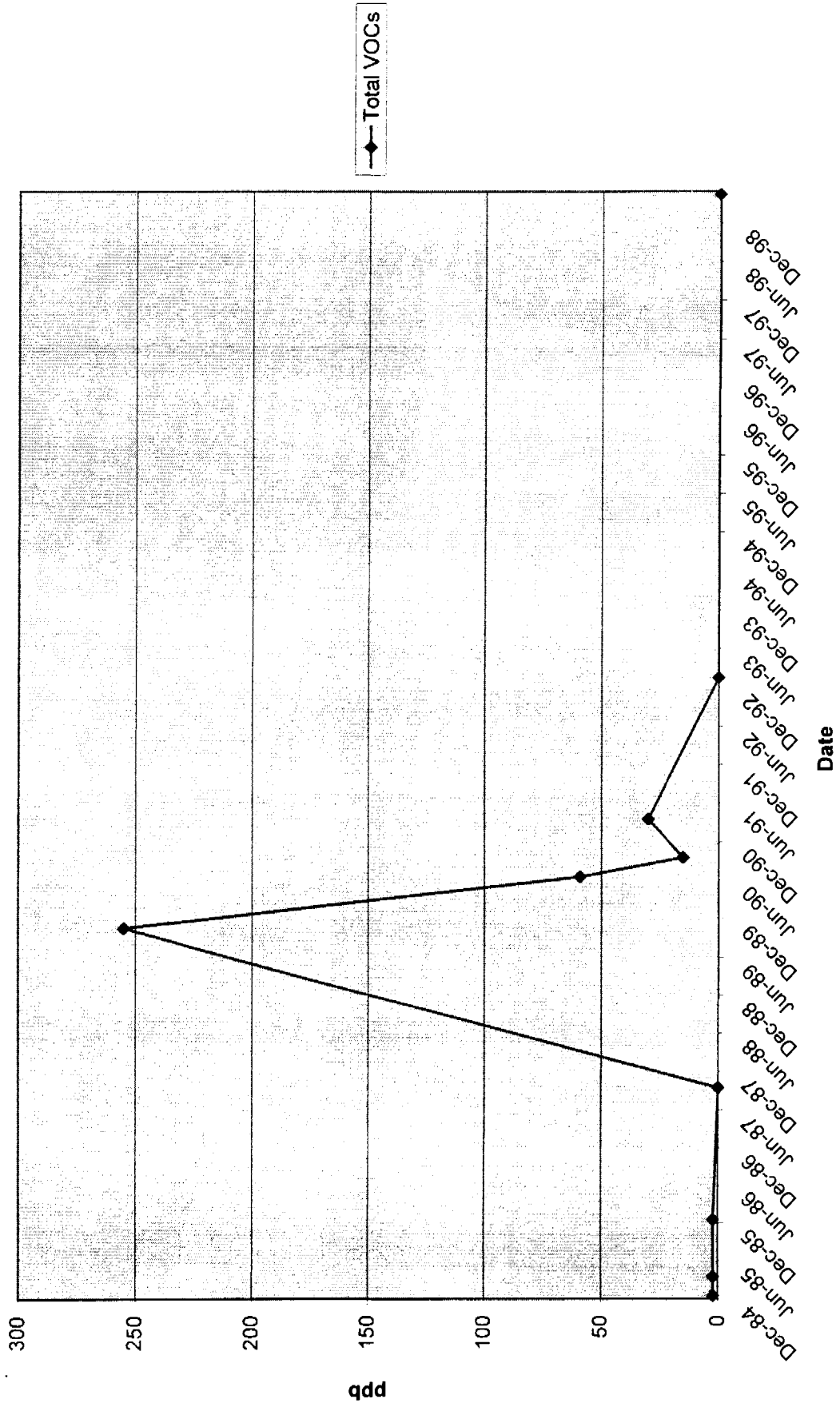
# N-10325 Total VOCs



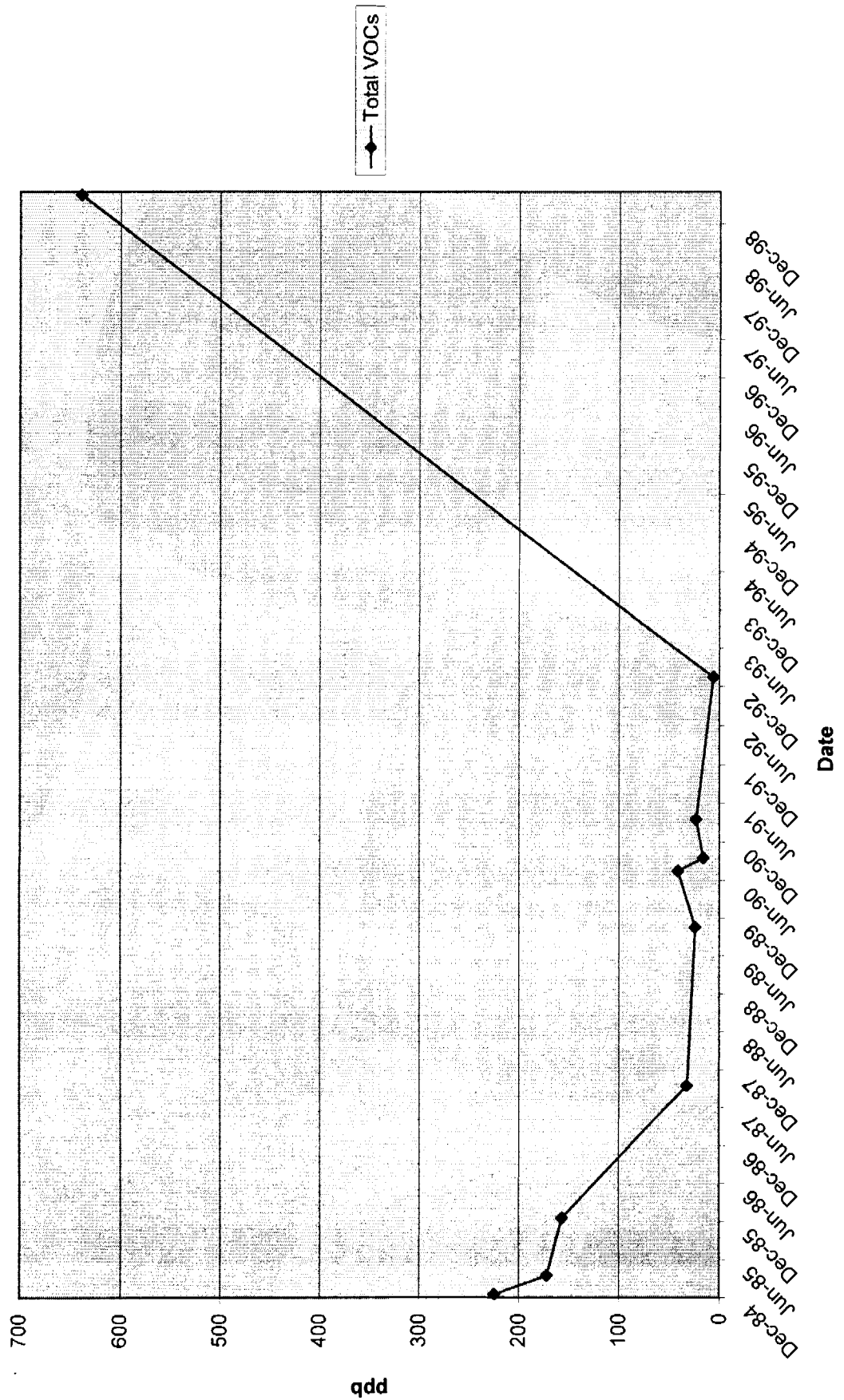
# N-10326 Total VOCs



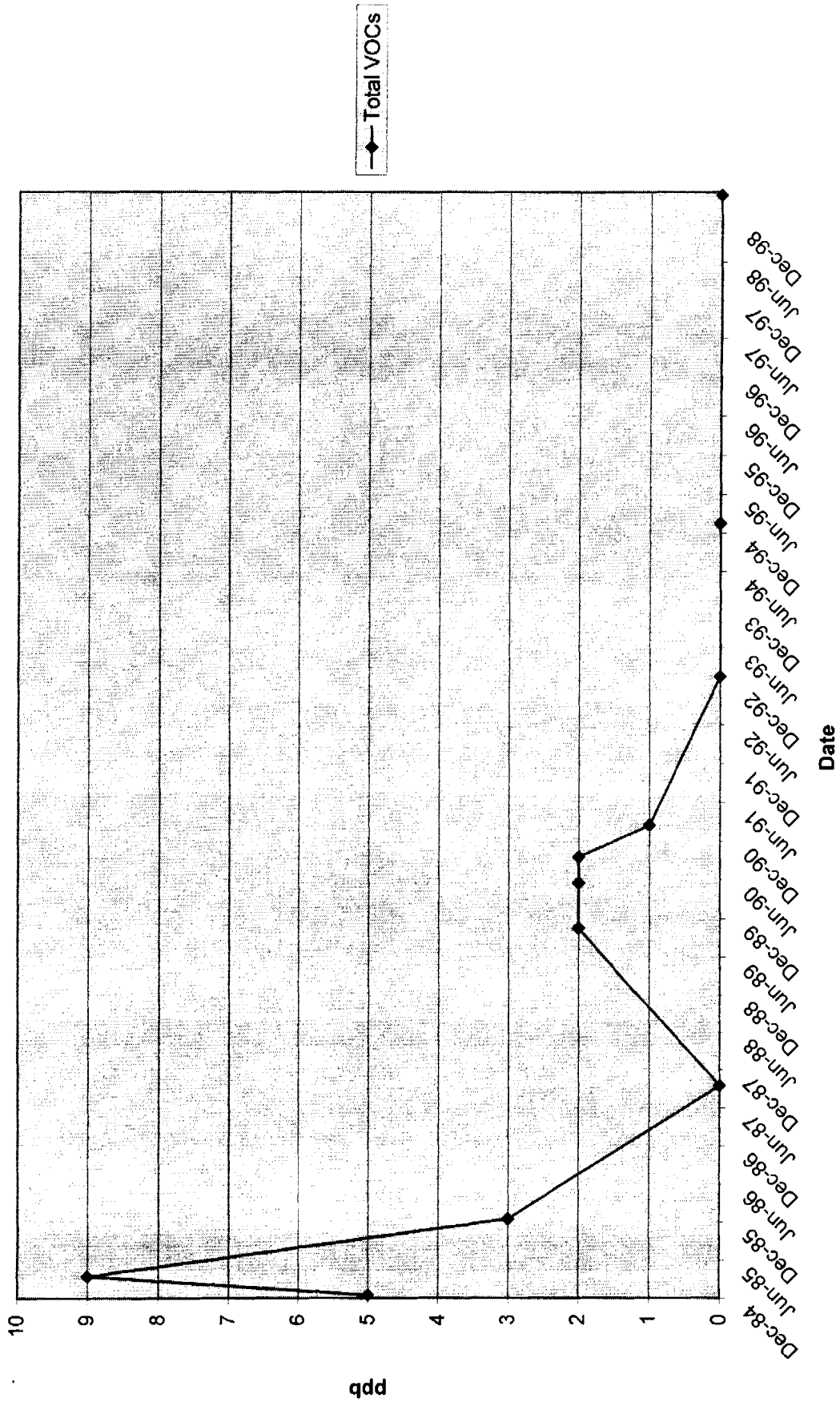
# N-10327 Total VOCs



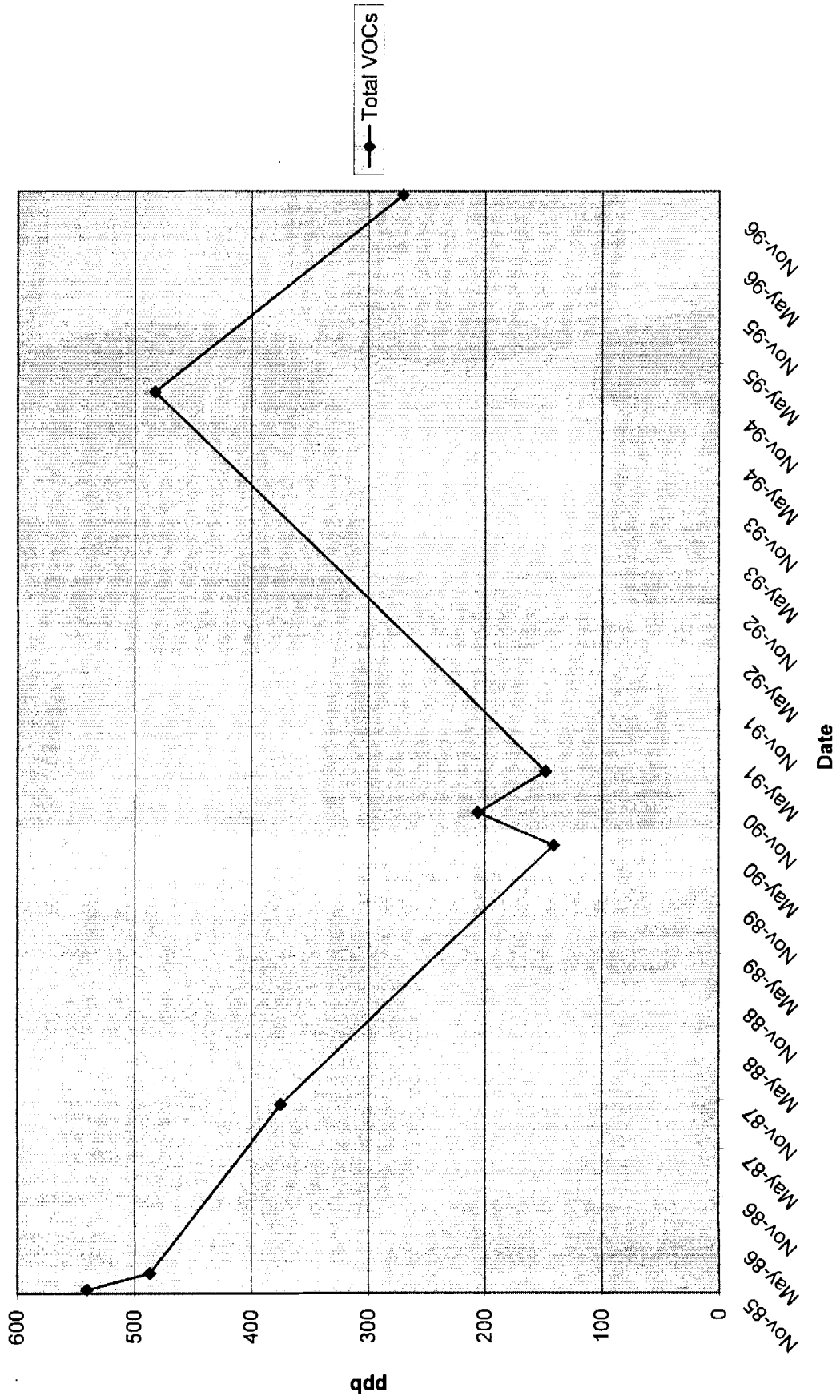
# N-10328 Total VOCs



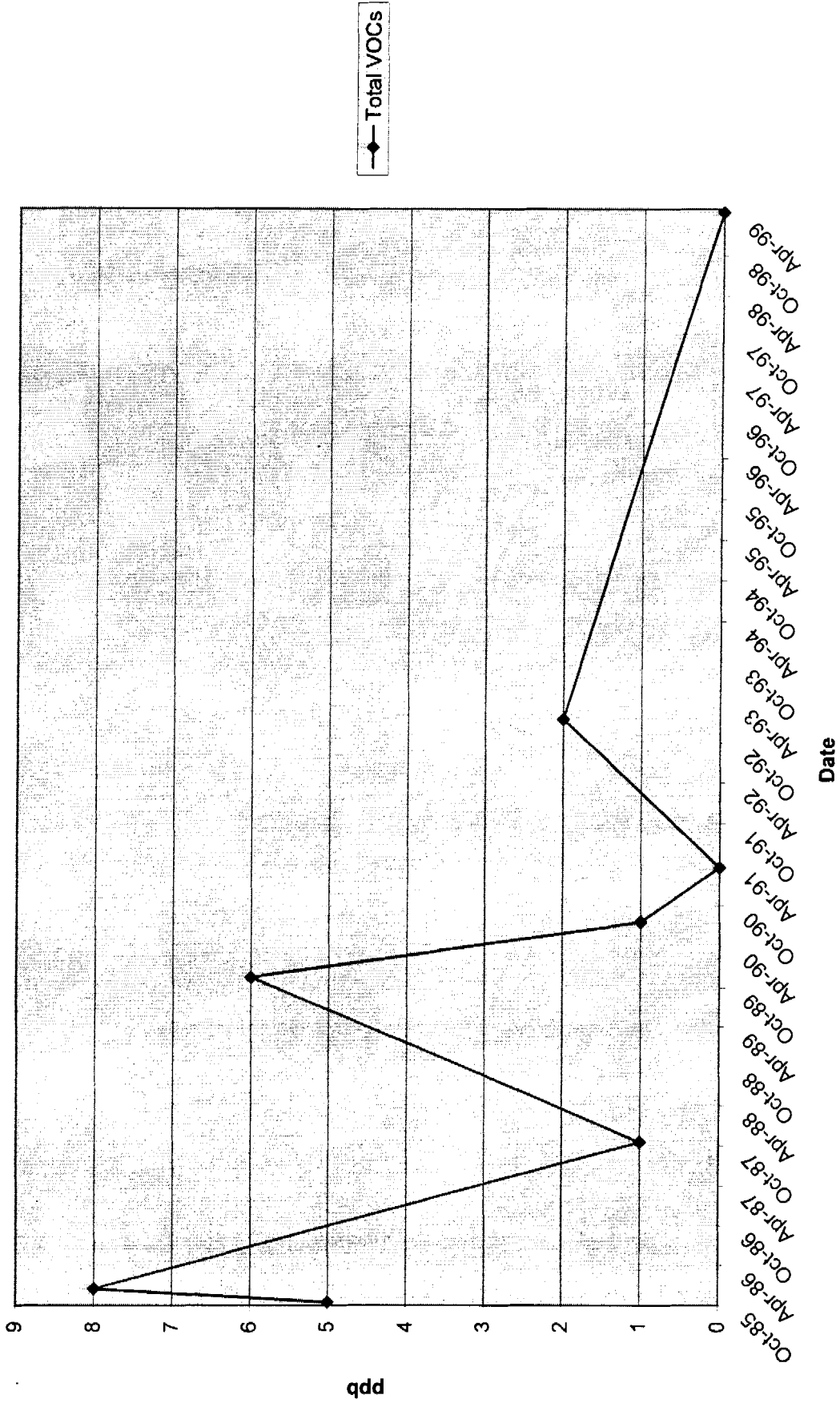
# N-10329 Total VOCs



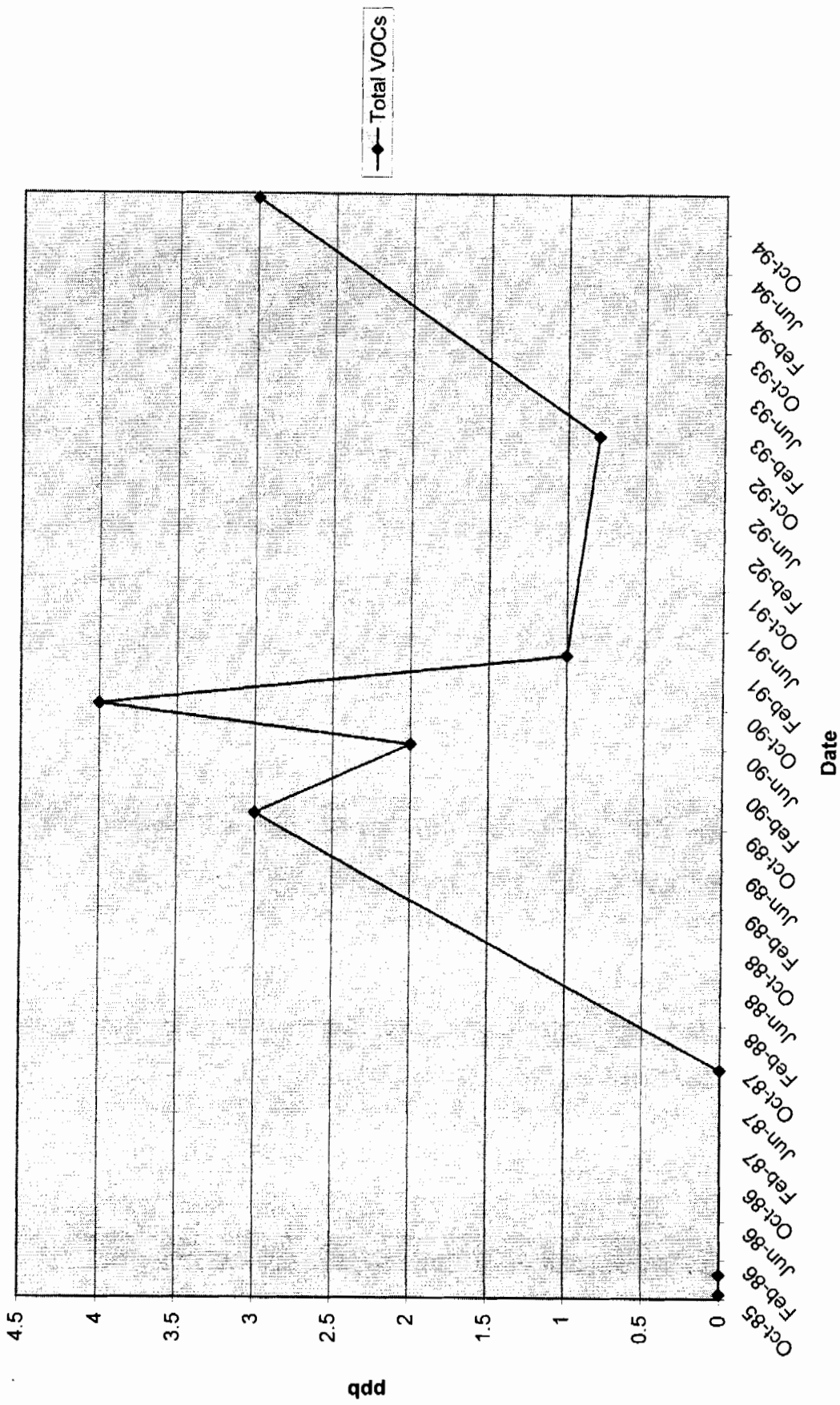
# N-10458 Total VOCs



# N-10459 Total VOCs

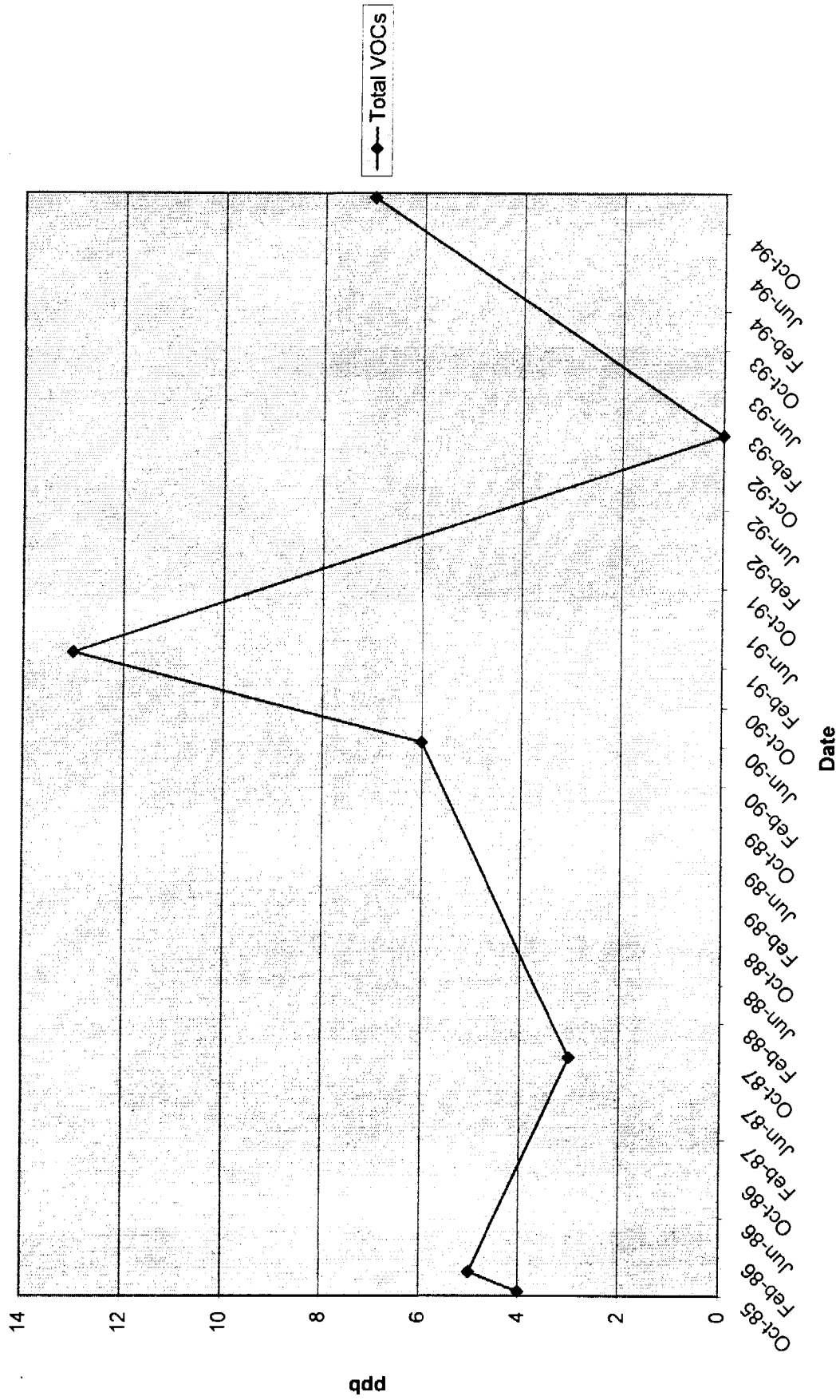


# N-10460 Total VOCs

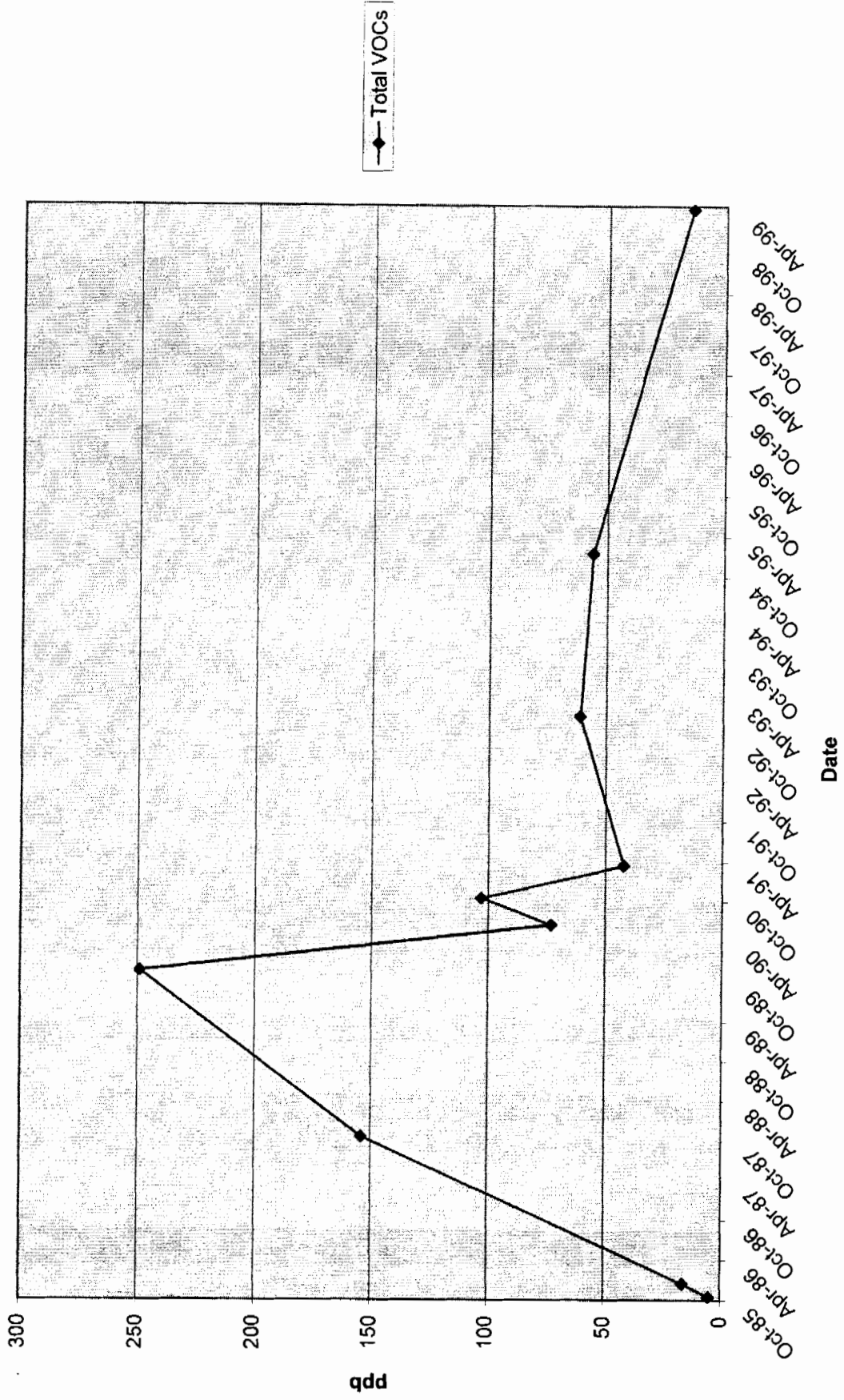




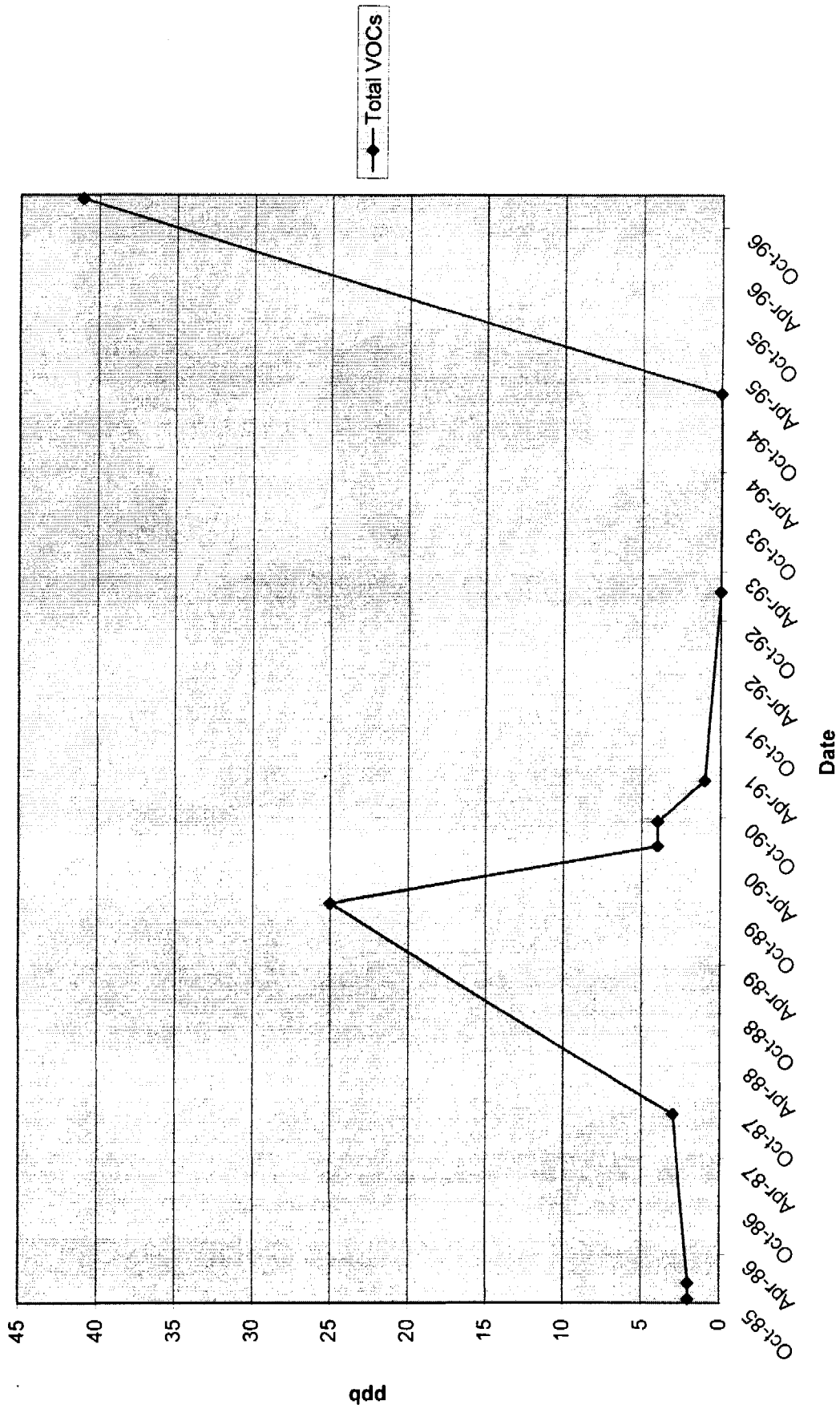
N-10461 Total VOCs



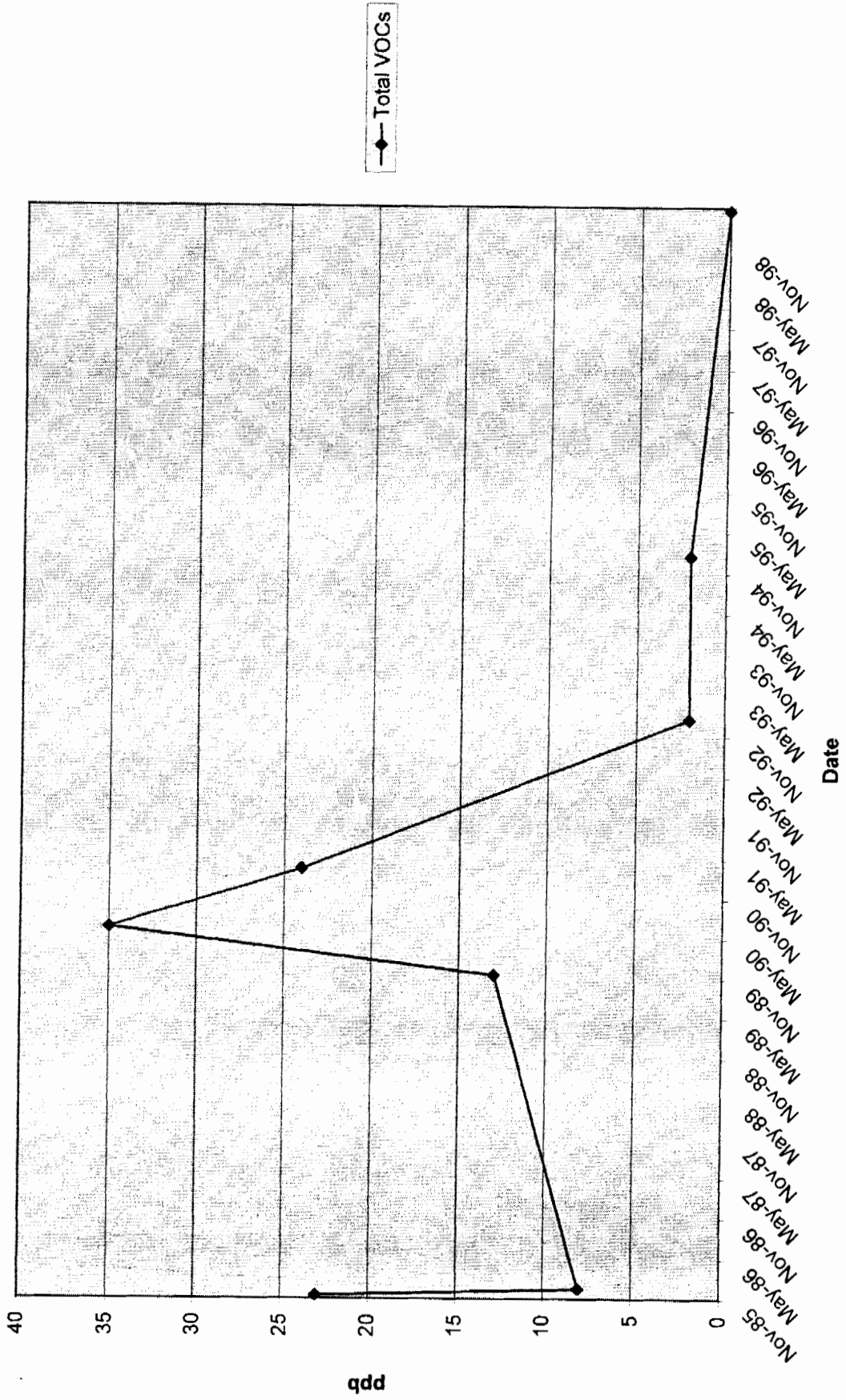
N-10462 Total VOCs



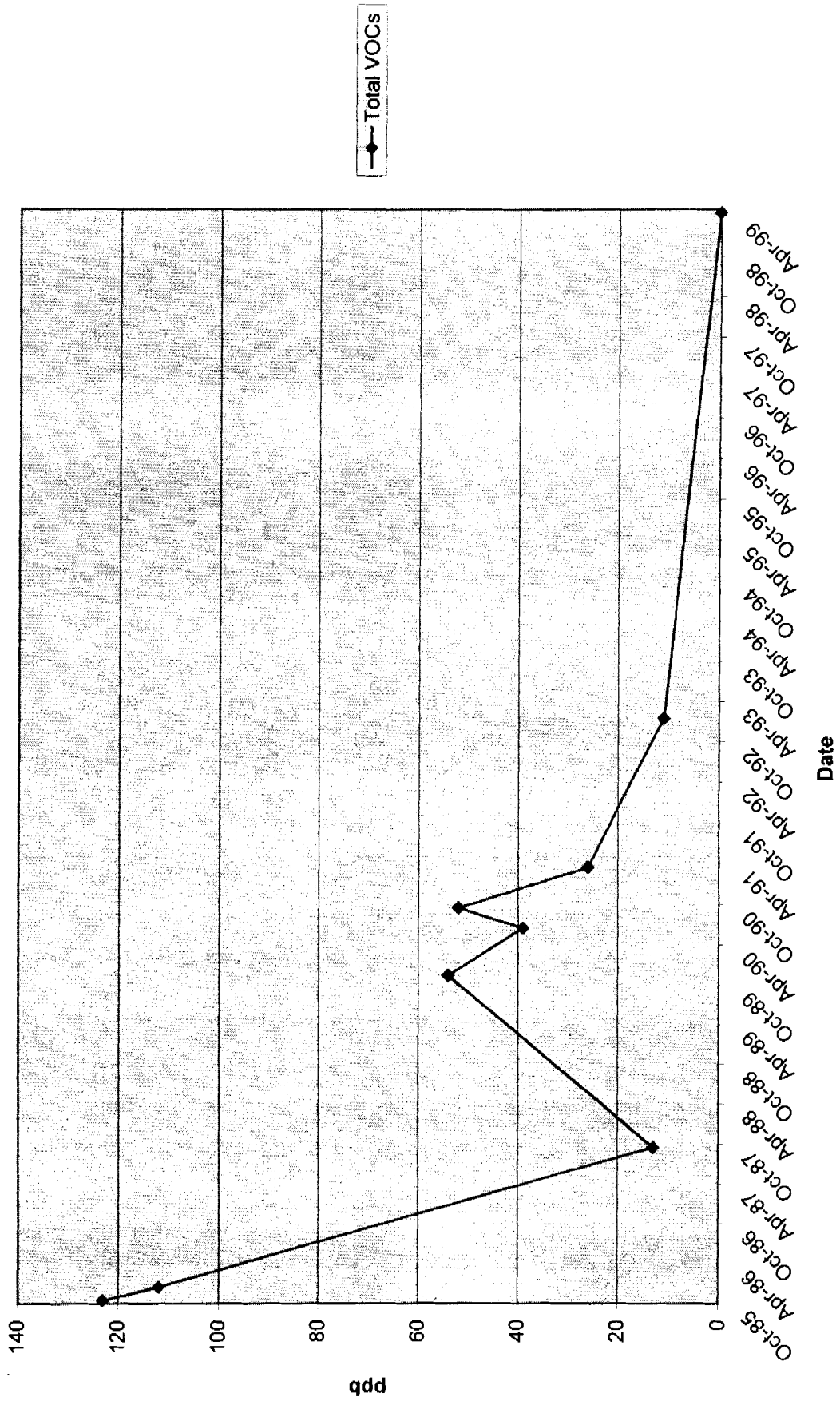
# N-10463 Total VOCs



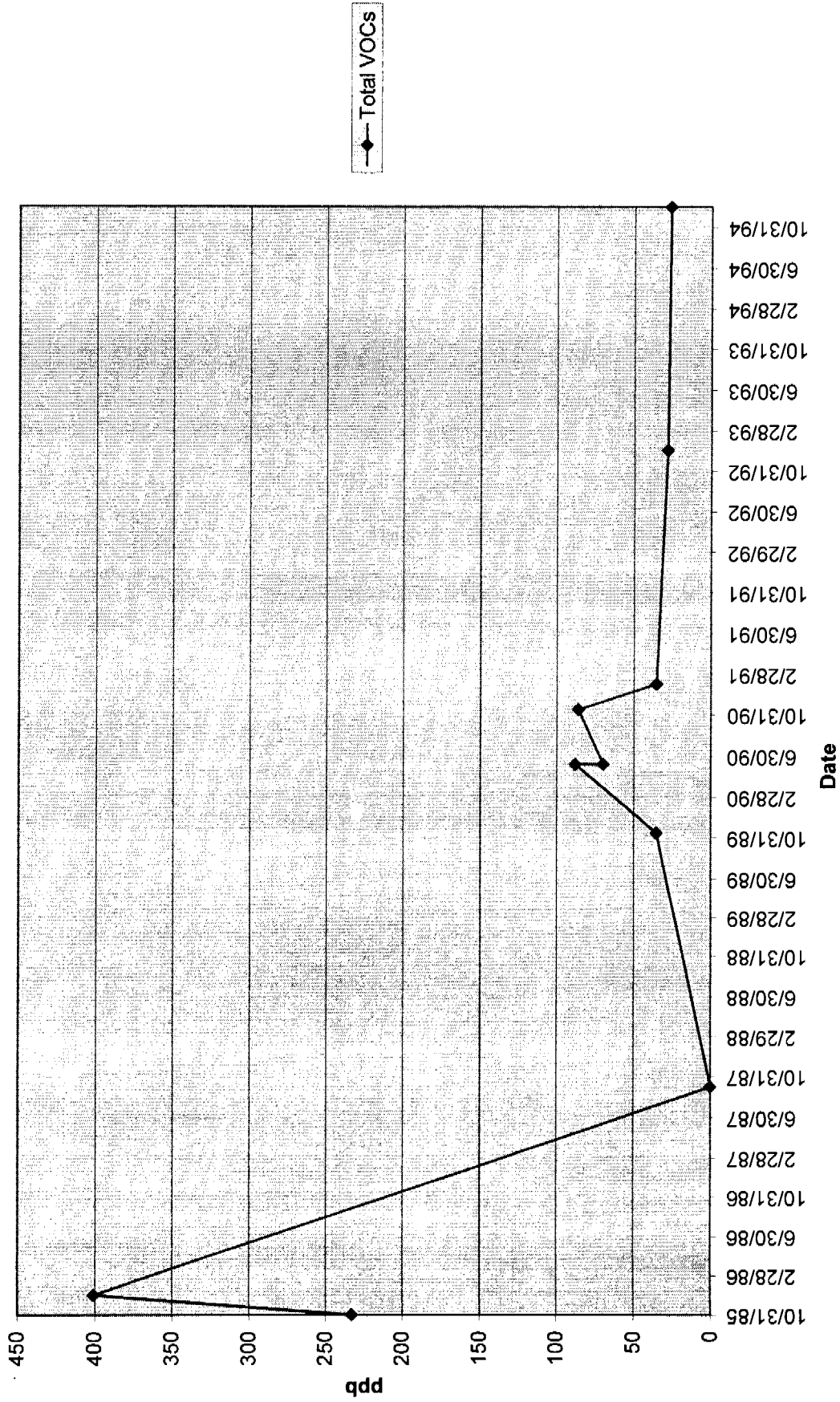
# N-10464 Total VOCs



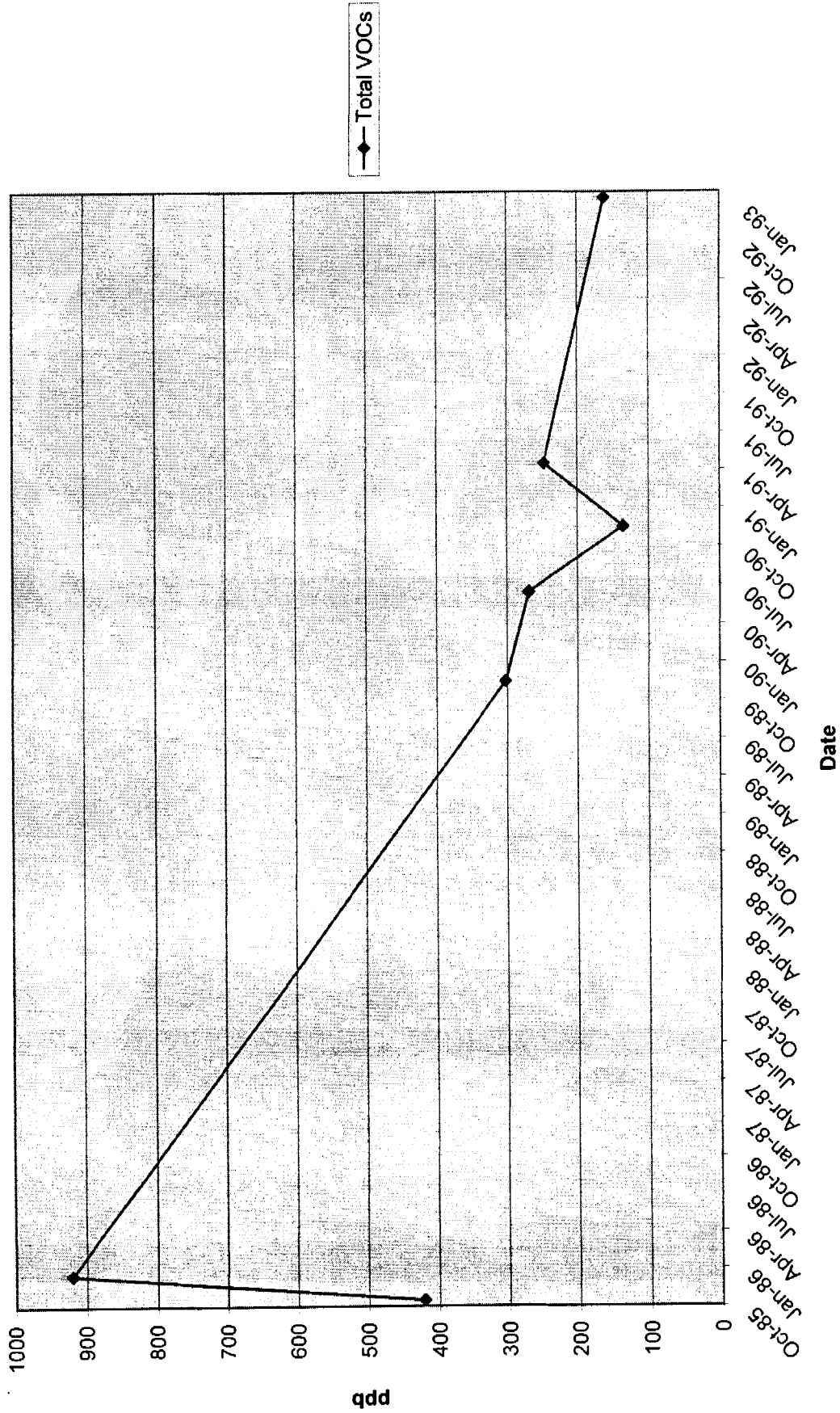
# N-10465 Total VOCs



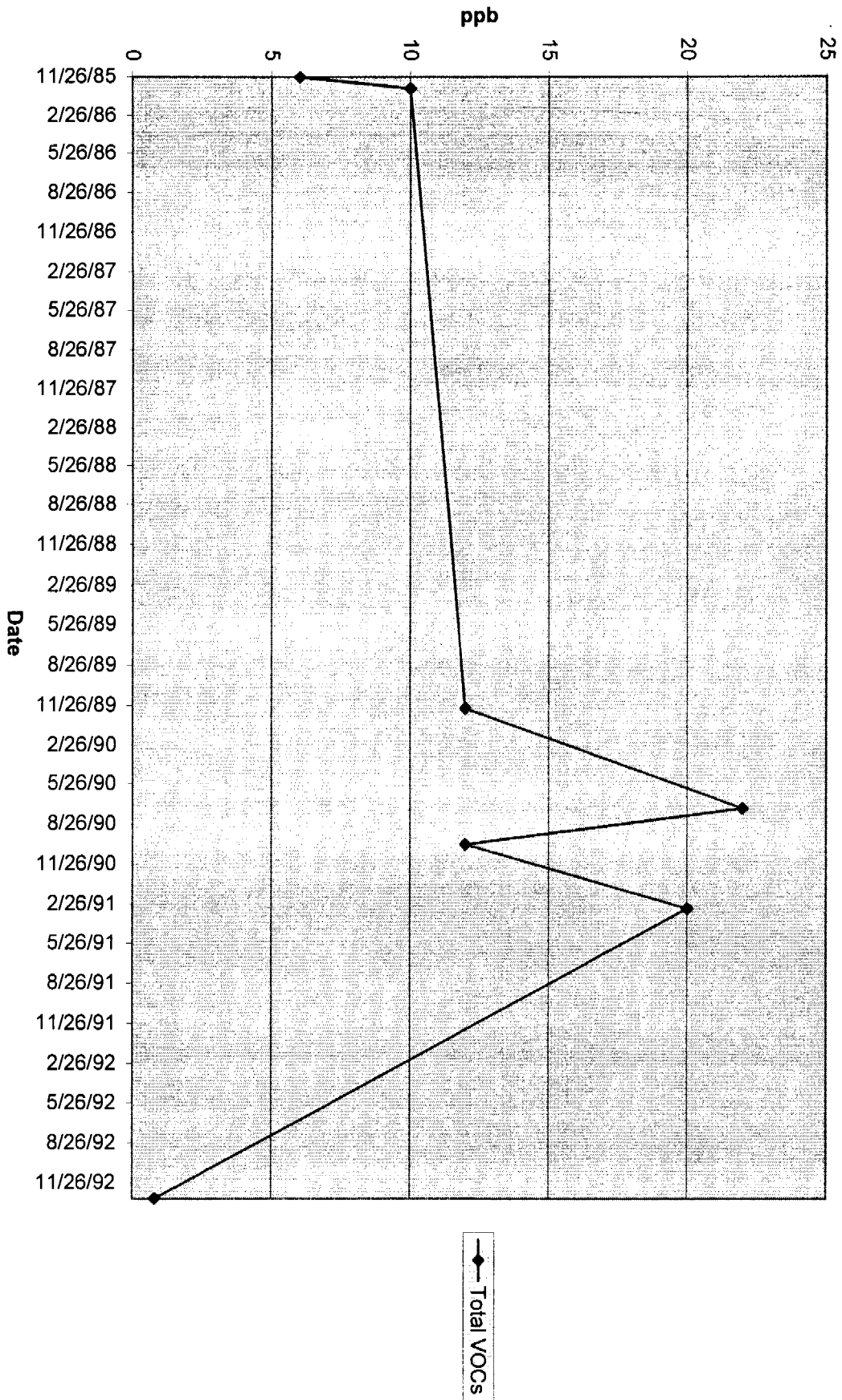
# N-10466 Total VOCs



# N-10467 Total VOCs



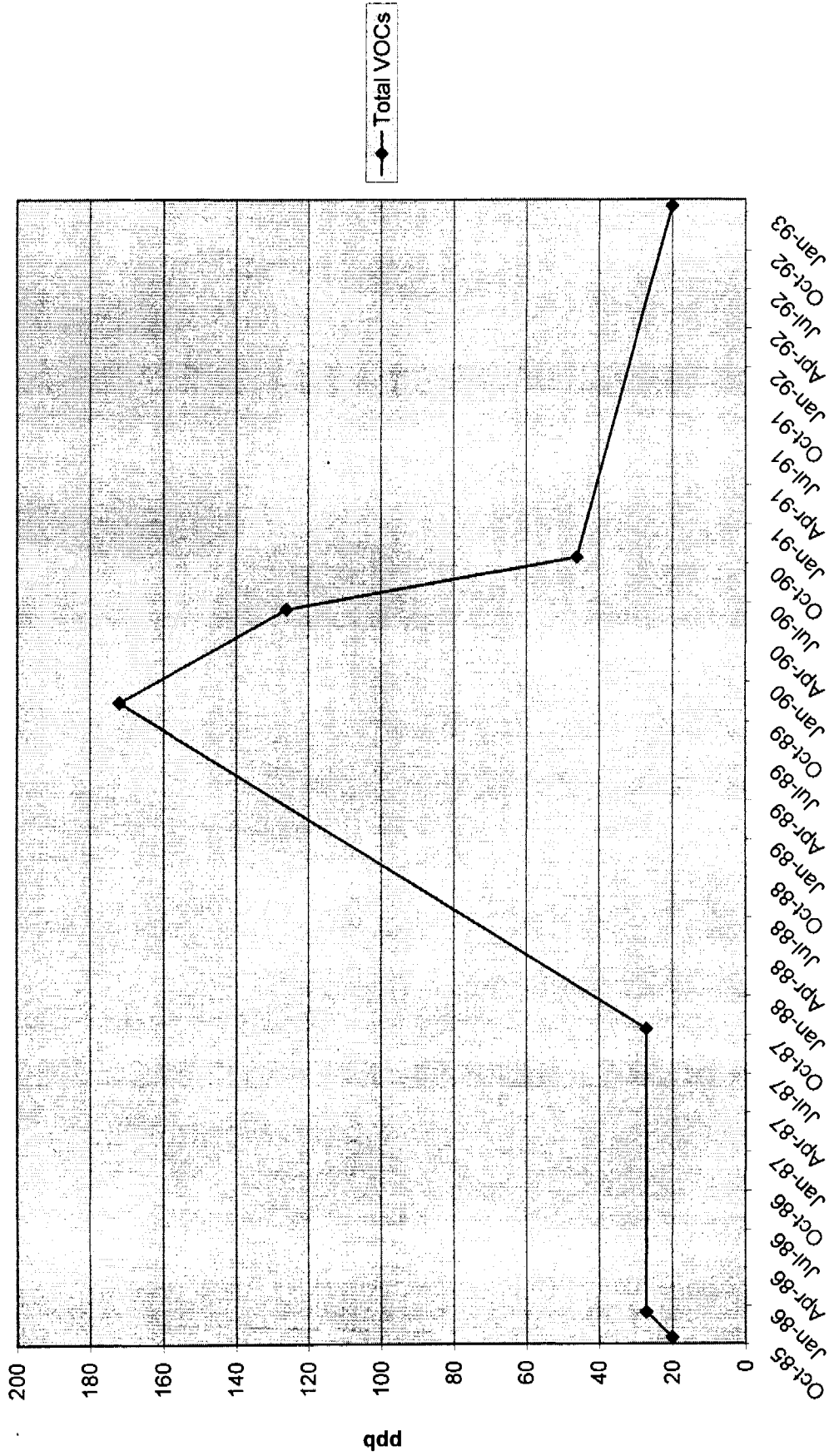




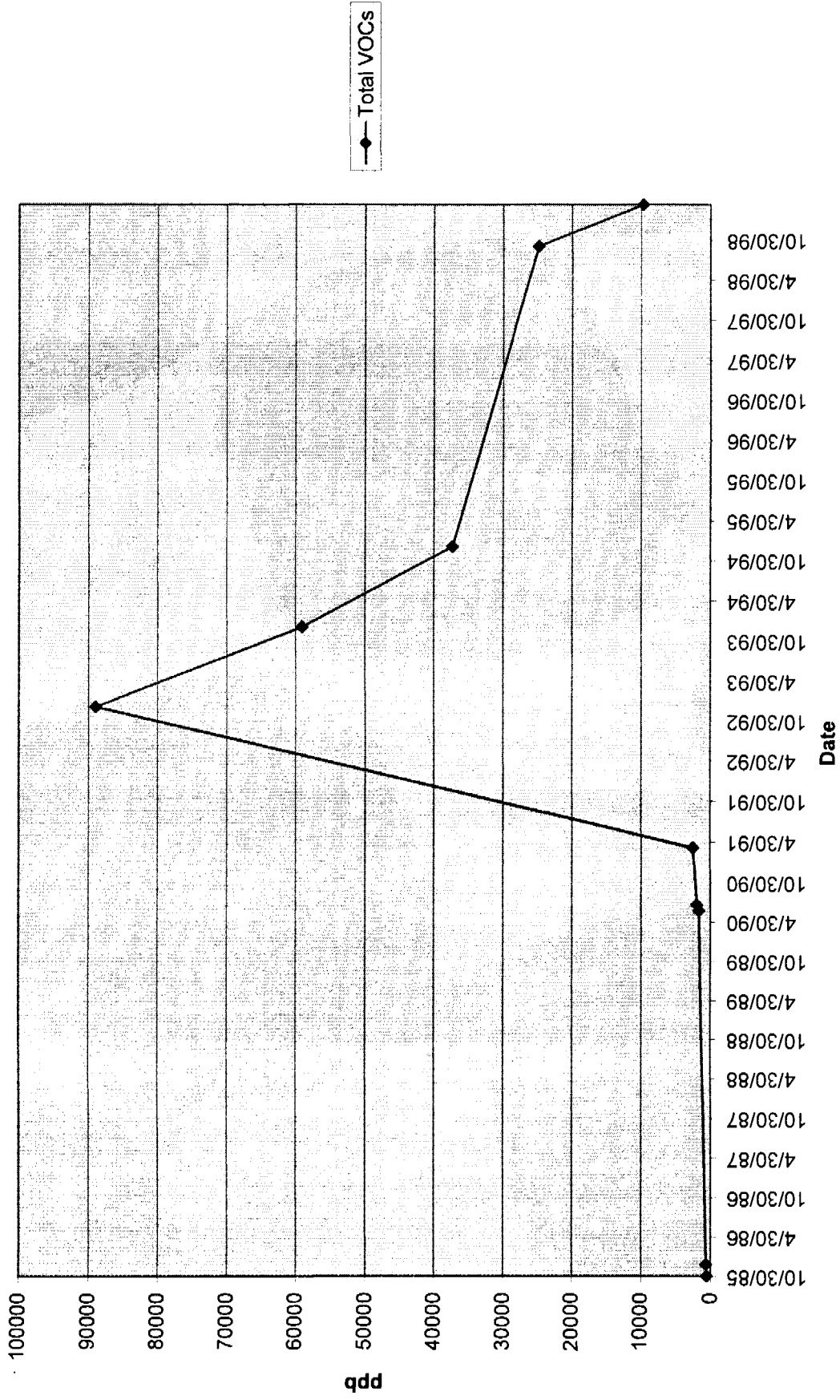
N-10468 Total VOCs



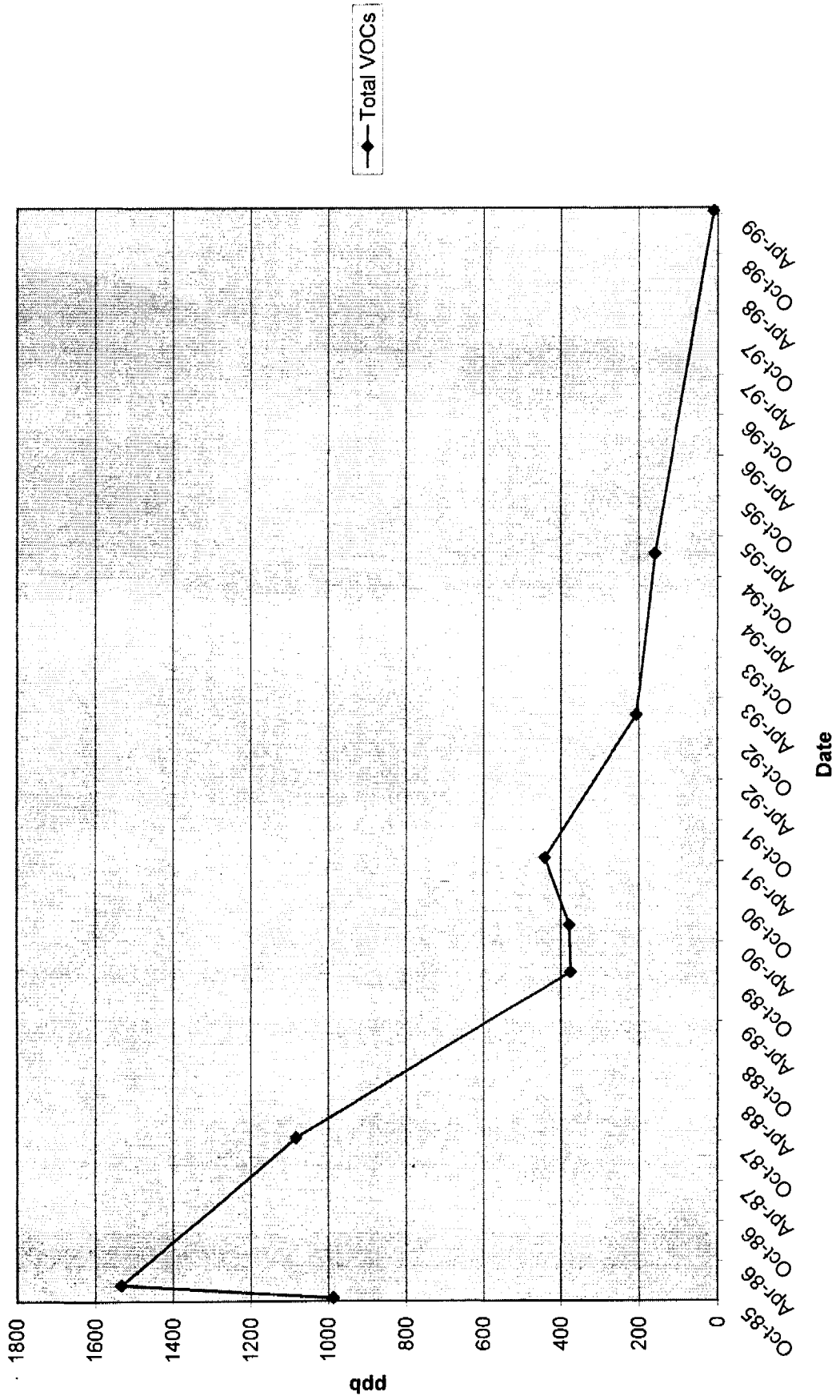
N-10469 Total VOCs



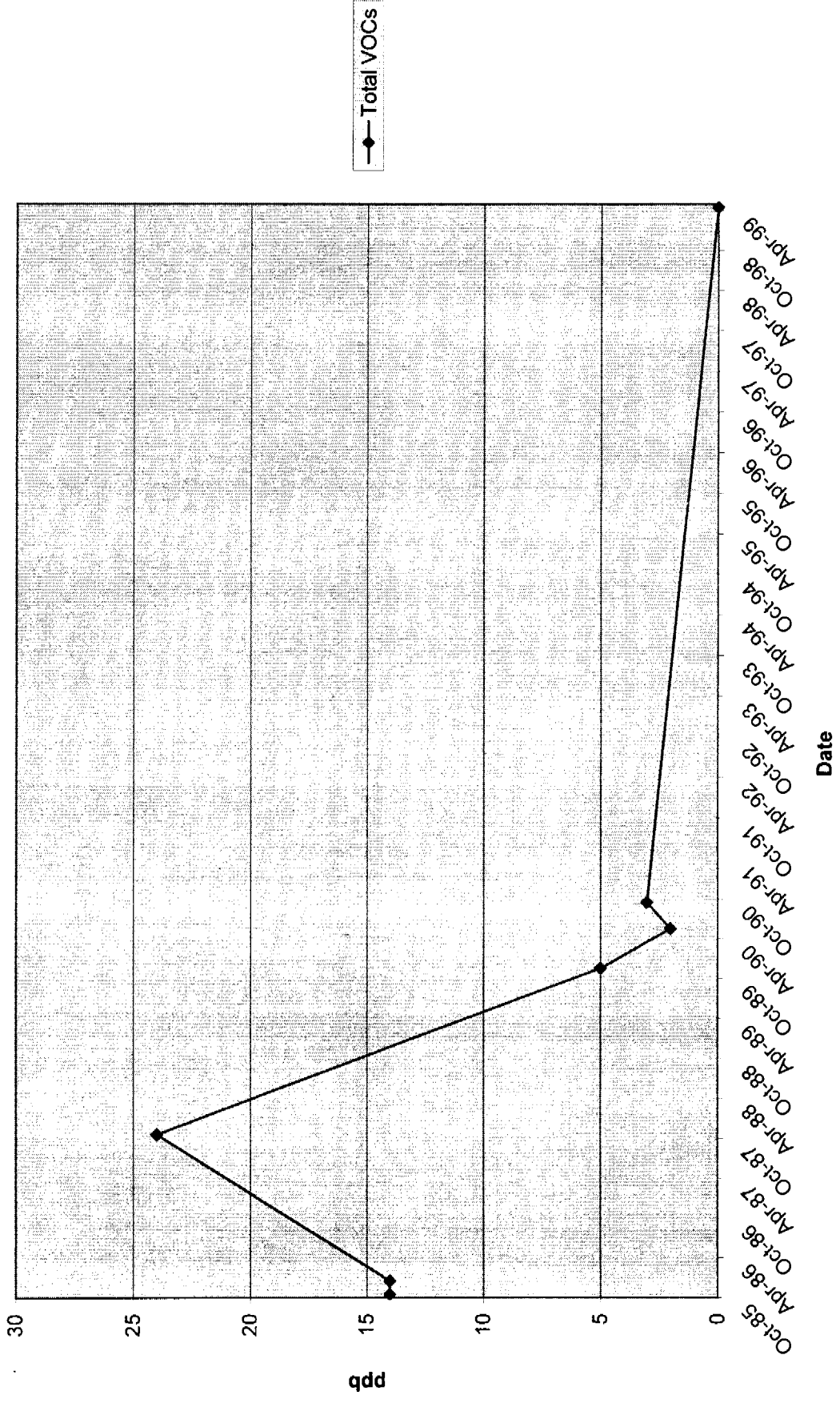
N-10470 Total VOCs



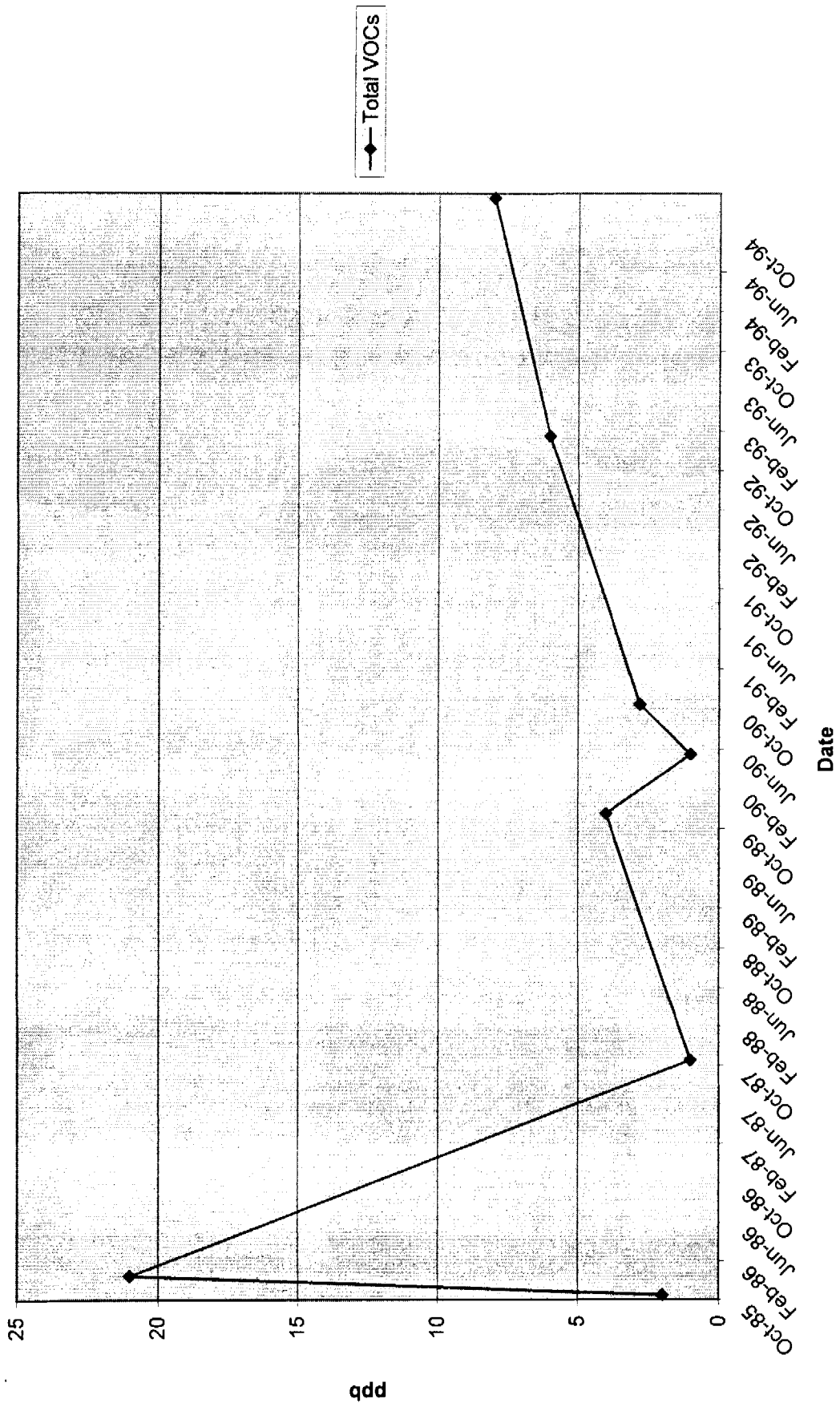
N-10471 Total VOCs



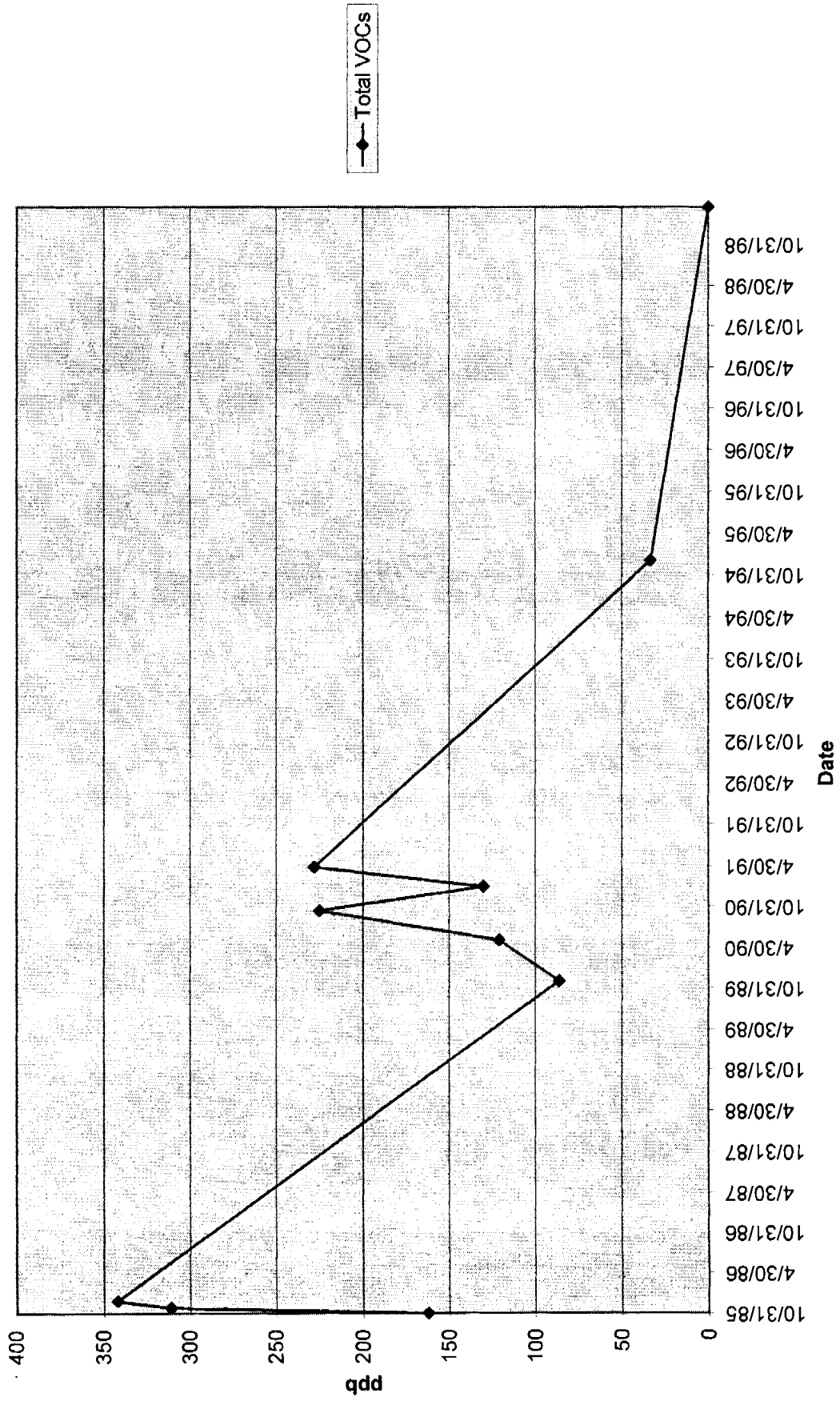
# N-10472 Total VOCs



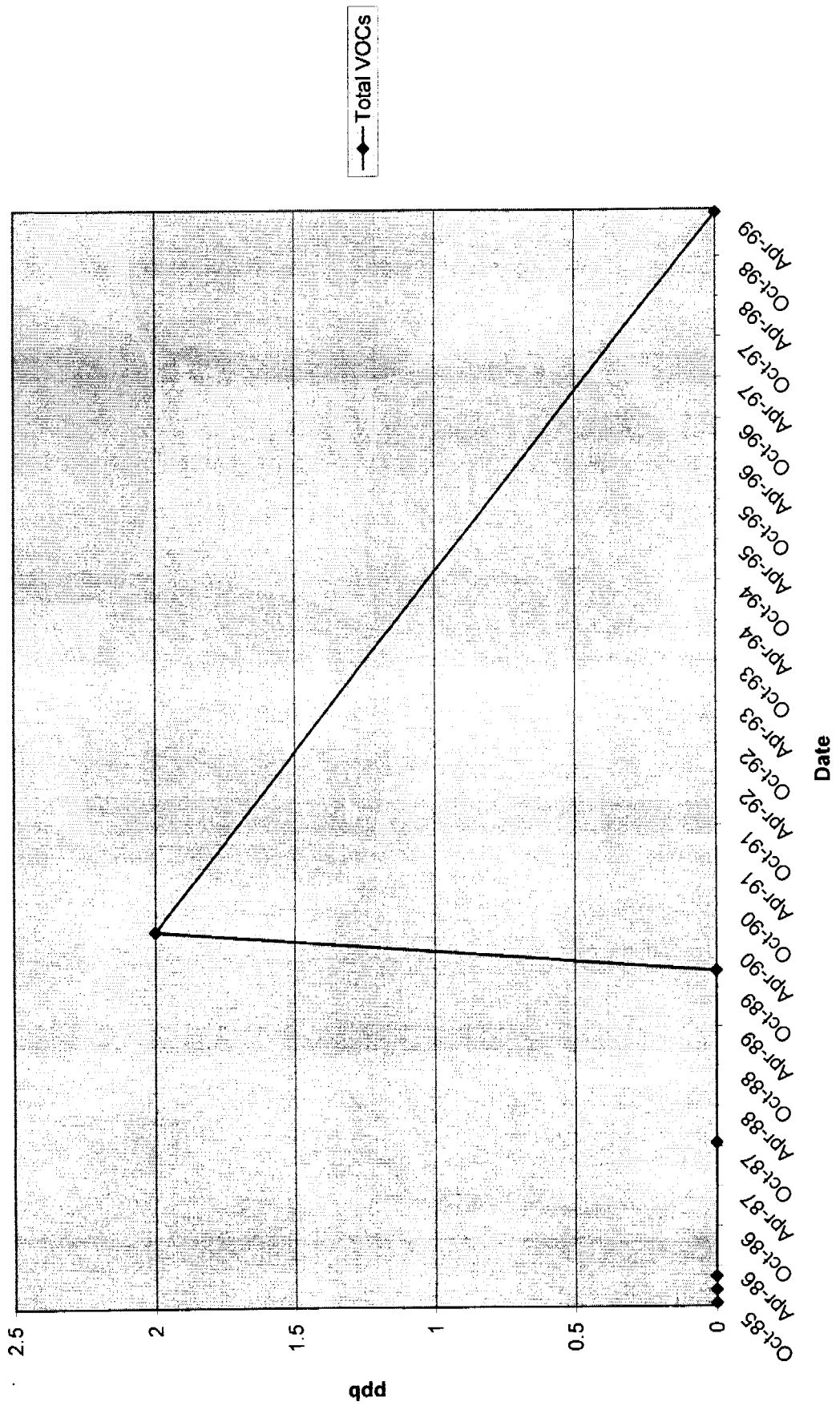
# N-10473 Total VOCs



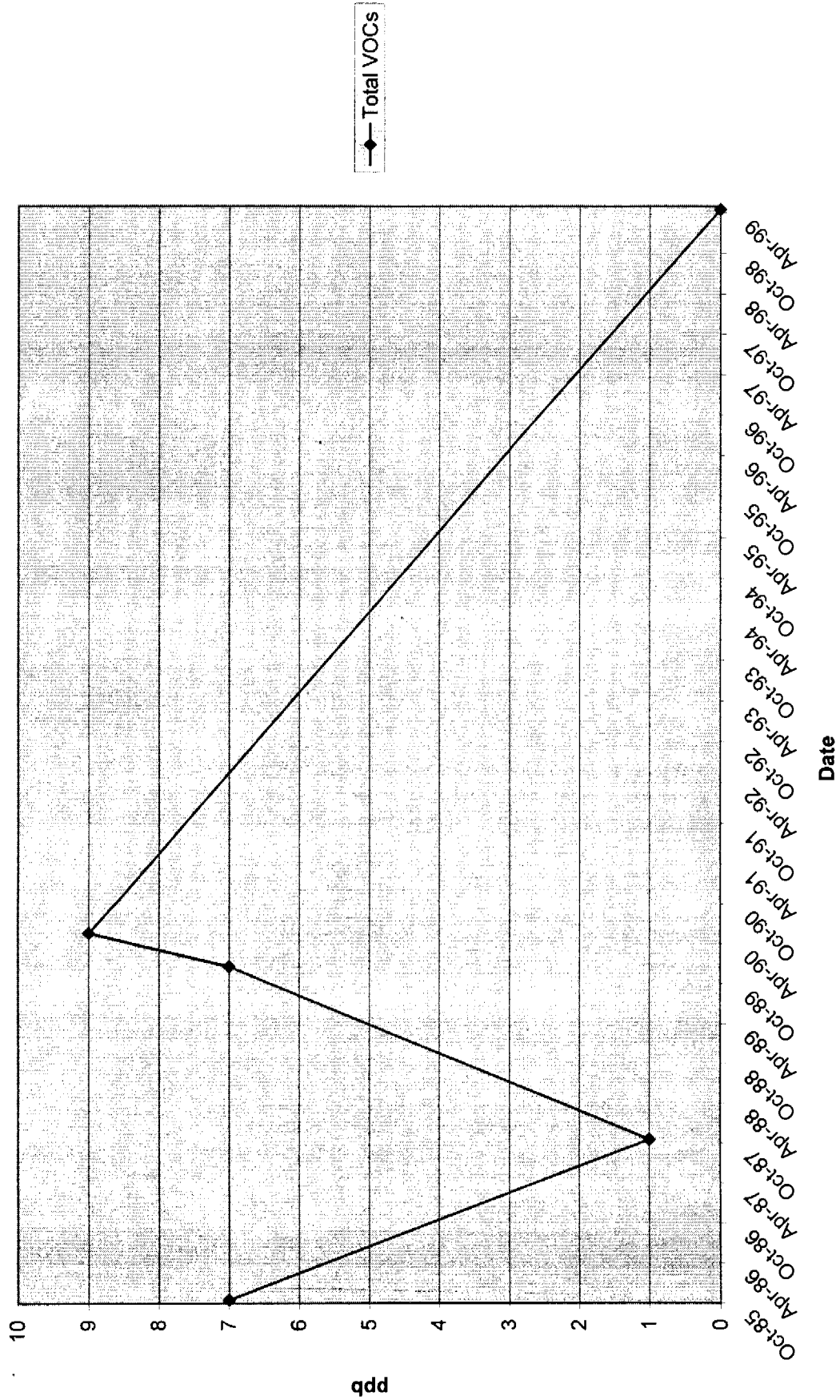
N-10474 Total VOCs



N-10475 Total VOCs

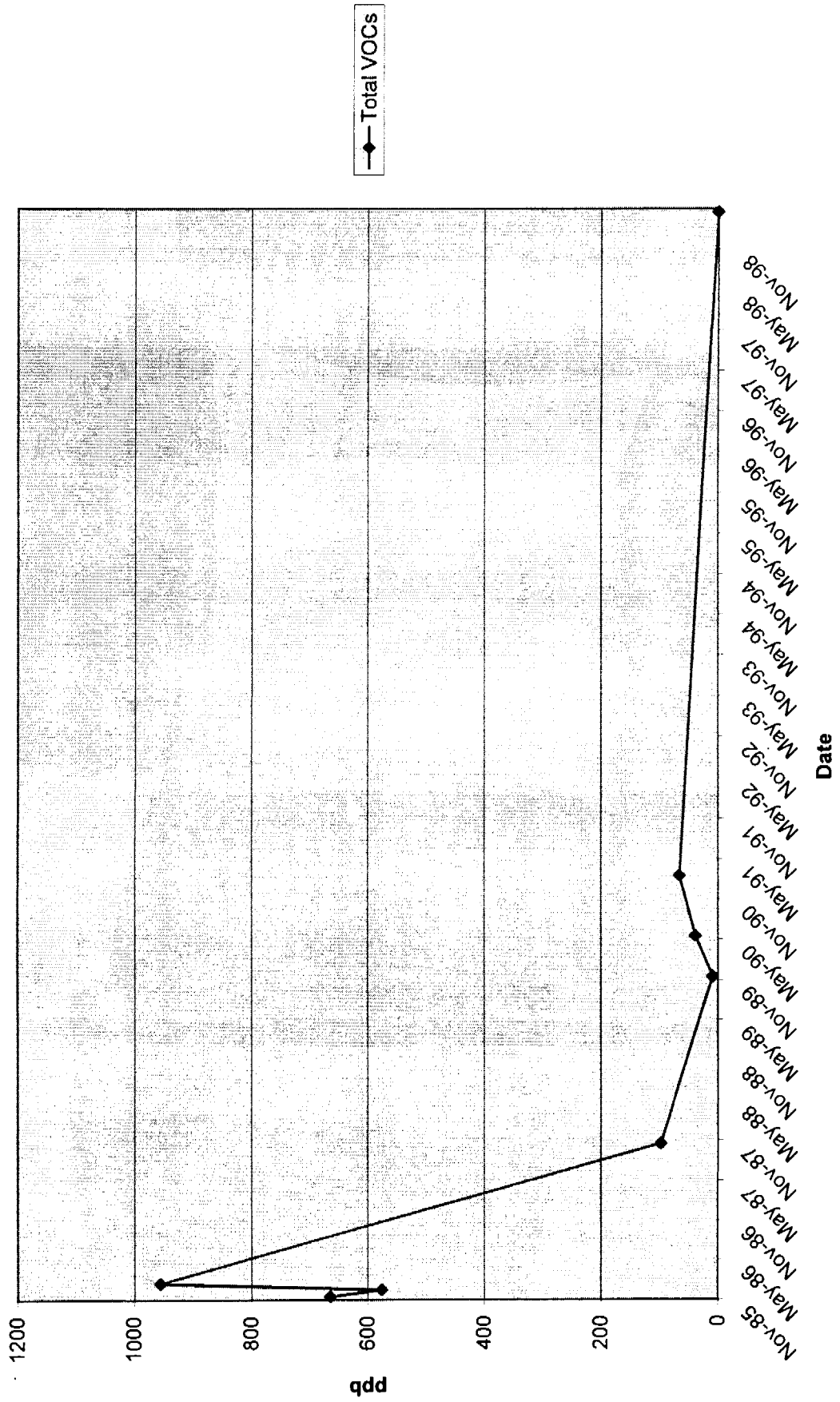


# N-10476 Total VOCs

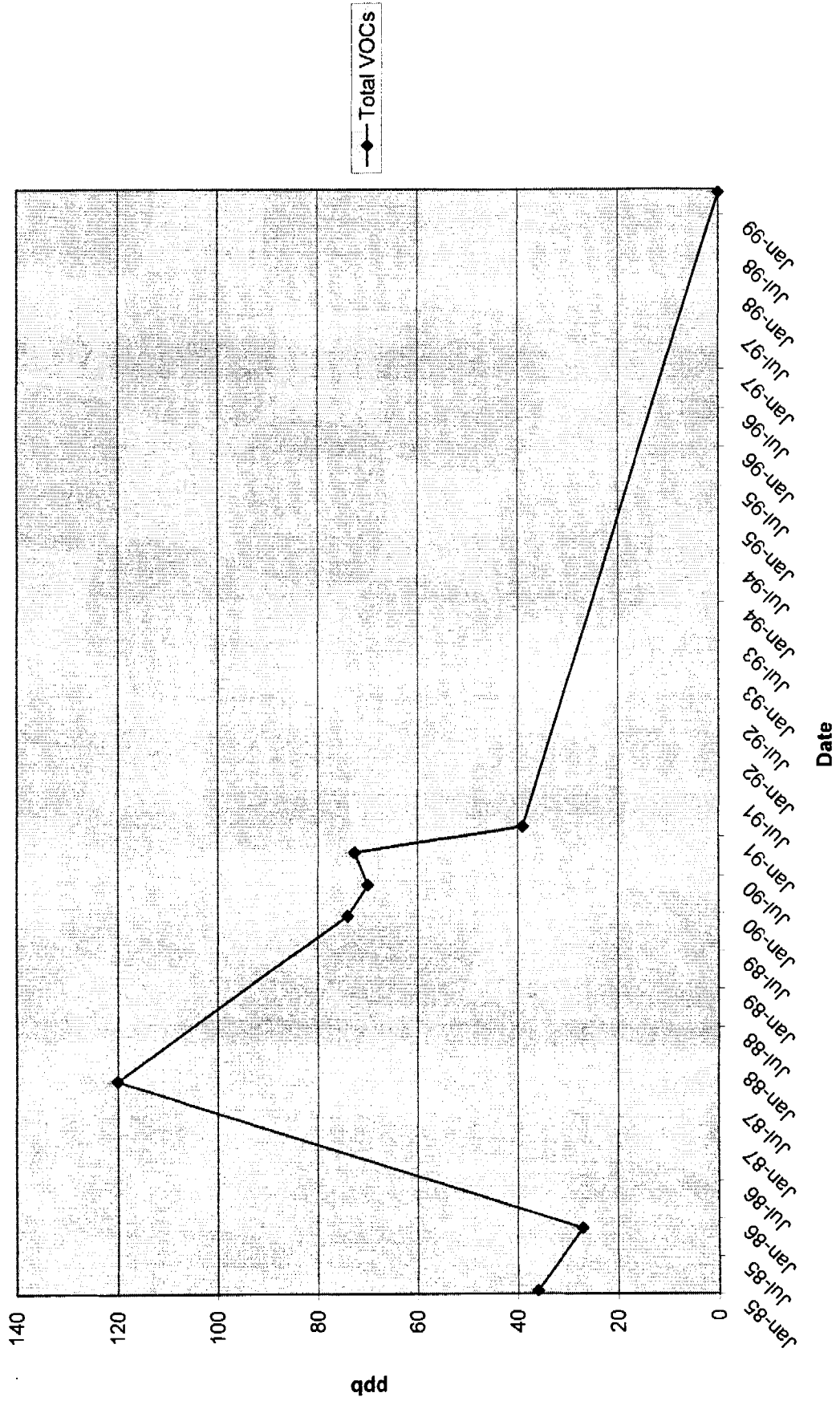




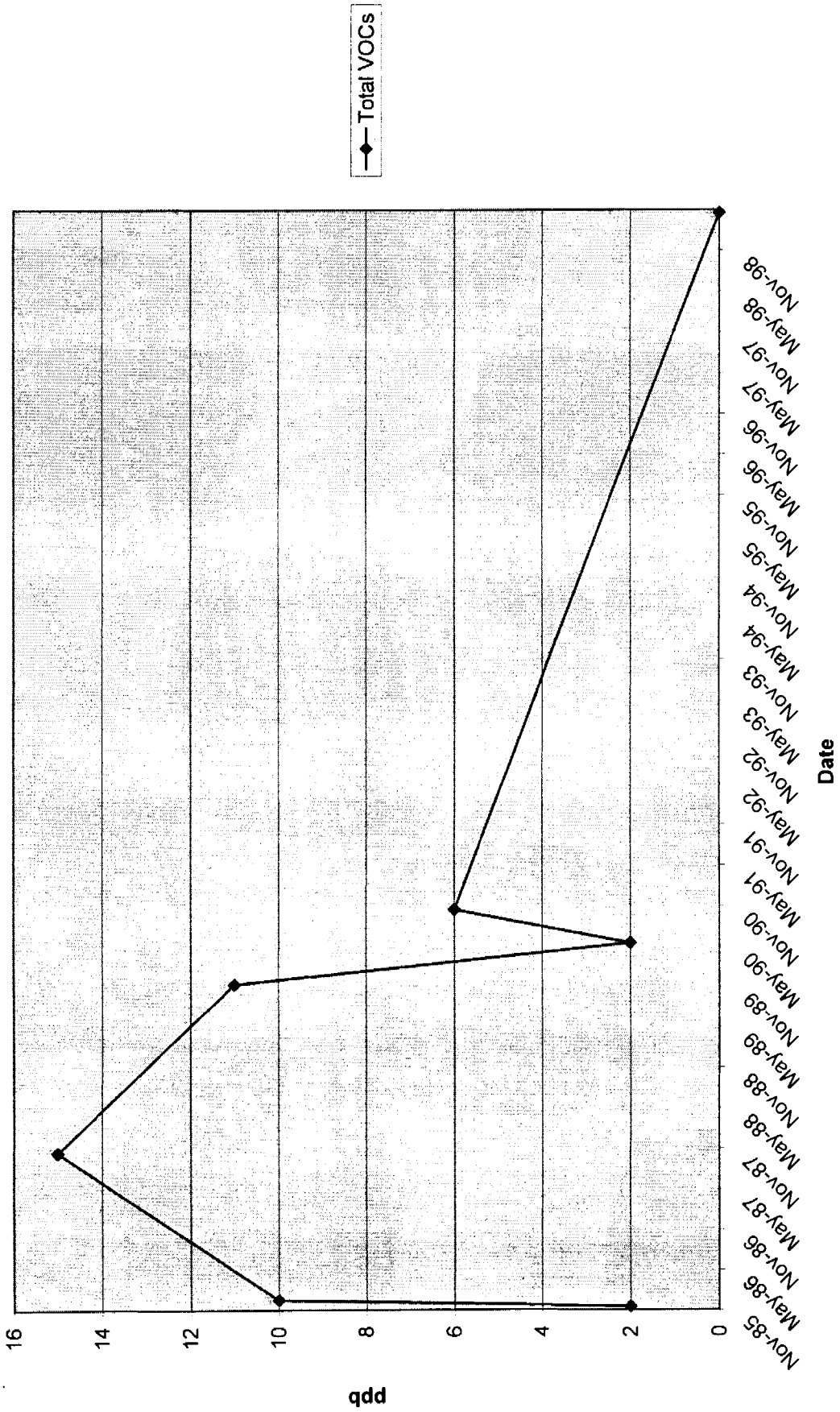
# N-10477 Total VOCs



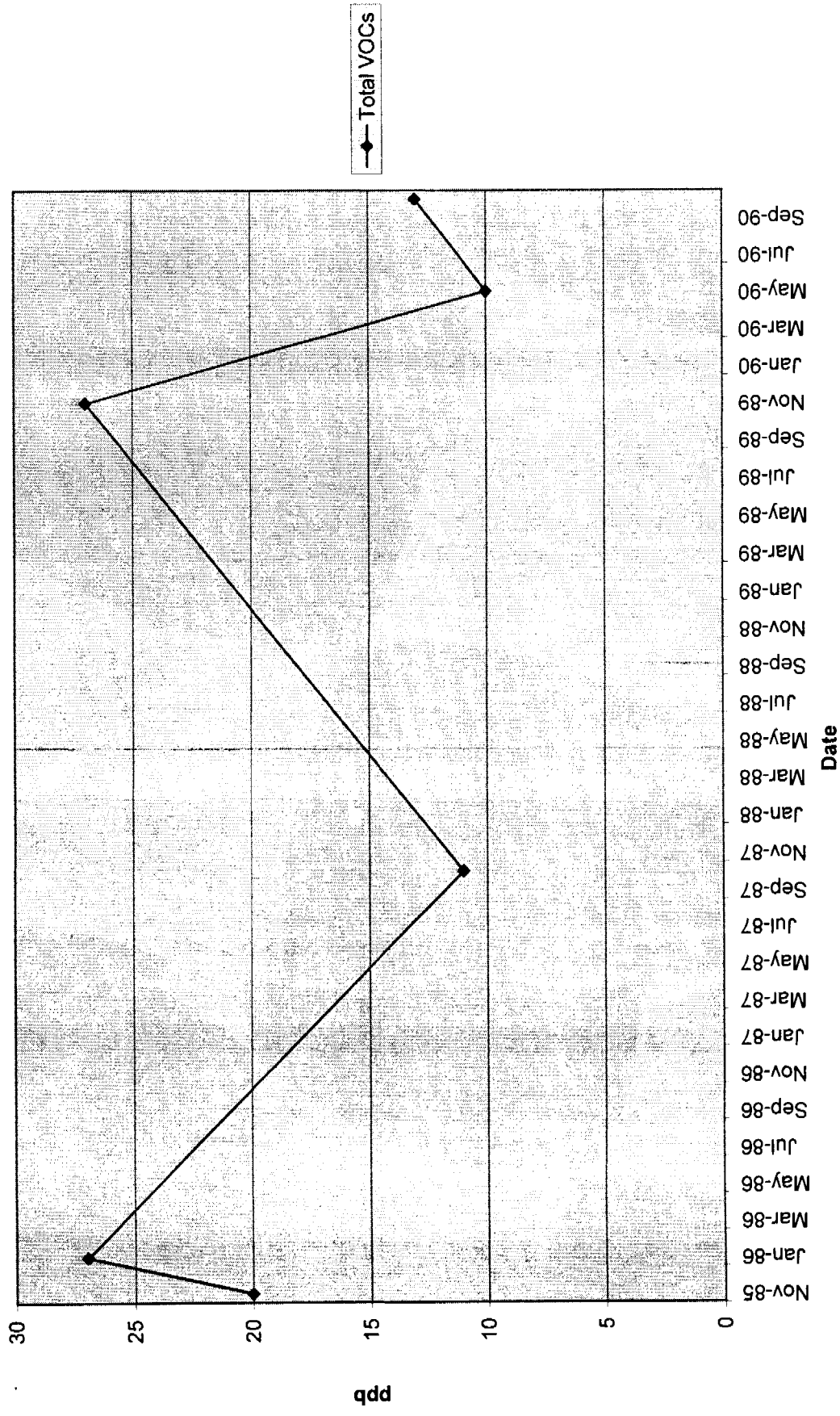
# N-10478 Total VOCs



N-10479 Total VOCs



N-10480 Total VOCs



**APPENDIX I**

**QUANTITIES OF CONTAMINATED GROUNDWATER**



## QUANTITIES OF CONTAMINATED MEDIA

The quantity of contaminated groundwater is based on the NYSDEC Class GA groundwater standards that are applicable to the UGA and Magothy Aquifer which are found below the site. The compounds found in the groundwater that exceed the Class GA groundwater standard are 1,1,1-TCA, TCE, PCE and their breakdown products. A total of 3 distinct plume areas are found within the NCIA study area including the eastern plume, central plume, and western plume. Each of these plumes currently exhibit off-site impacts. The total quantity of contaminated groundwater found off-site associated with the NCIA is approximately 612 million gallons. This includes approximately 42 million gallons associated with the eastern plume, 436 million gallons associated with the central plume, and 134 million gallons associated with the western plume.

## ESTIMATED QUANTITY OF CONTAMINATED MEDIA

New Cassel Industrial Area Off-site Groundwater

Medium	<u>Contaminated Volume by Depth (ft bgs)</u>				Total Estimate of Contaminated Volume (gallons)
	0-64	65-99	100-124	125-200	
<b>Groundwater Contaminant Plumes*</b>					
Western Plume	2.81E+07	3.32E+07	1.73E+07	5.50E+07	1.33E+08
Central Plume	1.09E+07	1.03E+08	7.70E+07	2.46E+08	4.37E+08
Eastern Plume	6.05E+06	2.49E+07	1.10E+07	0	4.20E+07
				Total:	6.12E+08 612 million gallons

\* - Assumes soil porosities of 20% for depths to 100 ft bgs and 15% for depths greater than 100 ft bgs.

\* - Approximate maximum aerial extents of off-site plumes are as follows:

Western Plume: 1,878,000 sq ft

Central Plume: 2,920,000 sq ft

Eastern Plume: 490,000 sq ft



**APPENDIX J**

**BioChlor MNA SOFTWARE AND MODEL RUN**



Natural Attenuation Screening Protocol <small>The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.</small>	Interpretation		Score	Score: 13  Scroll to End of Table
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics		0 to 5	
	Limited evidence for anaerobic biodegradation* of chlorinated organics		6 to 14	
	Adequate evidence for anaerobic biodegradation* of chlorinated organics		15 to 20	
Strong evidence for anaerobic biodegradation* of chlorinated organics		>20		

(0-7)<sup>±</sup>

Analysis	Concentration in Most Contam. Zone	Interpretation	reductive dechlorination		Points Awarded
			Yes	No	
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	<input type="radio"/>	<input checked="" type="radio"/>	0
	>5mg/L	Not tolerated; however, VC may be oxidized aerobically	<input checked="" type="radio"/>	<input type="radio"/>	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	<input type="radio"/>	<input checked="" type="radio"/>	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	<input checked="" type="radio"/>	<input type="radio"/>	3
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	<input type="radio"/>	<input checked="" type="radio"/>	0
Sulfide*	>1 mg/L	Reductive pathway possible	<input type="radio"/>	<input type="radio"/>	0
Methane*	<0.5 mg/L	VC oxidizes	<input checked="" type="radio"/>	<input type="radio"/>	0
	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	<input type="radio"/>	<input checked="" type="radio"/>	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	<input type="radio"/>	<input checked="" type="radio"/>	0
	<-100mV	Reductive pathway likely	<input type="radio"/>	<input checked="" type="radio"/>	0
pH*	5 < pH < 9	Optimal range for reductive pathway	<input checked="" type="radio"/>	<input type="radio"/>	0
	5 > pH > 9	Outside optimal range for reductive pathway	<input type="radio"/>	<input checked="" type="radio"/>	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	<input checked="" type="radio"/>	<input type="radio"/>	2
Temperature*	>20°C	At T >20°C biochemical process is accelerated	<input type="radio"/>	<input checked="" type="radio"/>	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	<input type="radio"/>	<input type="radio"/>	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	<input type="radio"/>	<input checked="" type="radio"/>	0
Chloride*	>2x background	Daughter product of organic chlorine	<input type="radio"/>	<input checked="" type="radio"/>	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	<input type="radio"/>	<input type="radio"/>	0
	<1 nM	VC oxidized	<input type="radio"/>	<input type="radio"/>	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	<input type="radio"/>	<input checked="" type="radio"/>	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	<input type="radio"/>	<input checked="" type="radio"/>	0
PCE*		Material released	<input checked="" type="radio"/>	<input type="radio"/>	0
TCE*		Material released	<input checked="" type="radio"/>	<input type="radio"/>	0
		Daughter product of PCE <sup>a/</sup>	<input checked="" type="radio"/>	<input type="radio"/>	2
DCE*		Material released	<input type="radio"/>	<input checked="" type="radio"/>	0
		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE <sup>a/</sup> . 1,1-DCE can be a chem. reaction product of TCA	<input checked="" type="radio"/>	<input type="radio"/>	2
VC*		Material released	<input type="radio"/>	<input checked="" type="radio"/>	0
		Daughter product of DCE <sup>a/</sup>	<input checked="" type="radio"/>	<input type="radio"/>	2
1,1,1-Trichloroethane*		Material released	<input checked="" type="radio"/>	<input type="radio"/>	0
DCA		Daughter product of TCA under reducing conditions	<input checked="" type="radio"/>	<input type="radio"/>	2
Carbon Tetrachloride		Material released	<input type="radio"/>	<input checked="" type="radio"/>	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	<input checked="" type="radio"/>	<input type="radio"/>	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	<input type="radio"/>	<input checked="" type="radio"/>	0
	>0.1 mg/L	Daughter product of VC/ethene	<input type="radio"/>	<input checked="" type="radio"/>	3
Chloroform		Material released	<input type="radio"/>	<input checked="" type="radio"/>	0
		Daughter product of Carbon Tetrachloride	<input checked="" type="radio"/>	<input type="radio"/>	0
Dichloromethane		Material released	<input type="radio"/>	<input checked="" type="radio"/>	0
		Daughter product of Chloroform	<input type="radio"/>	<input checked="" type="radio"/>	0

(0-3)

(0-1)

(0-3)

\* required analysis.

<sup>a/</sup> Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

**Maximum Concentrations of VOCs**  
**New Cassel**  
**Off-Site Groundwater**  
**(for MNA analysis)**

	< 100 ft			100 - 200 ft		
	Western	Central	Eastern	Western	Central	Eastern
<b>Volatile Organic Compounds</b>						
Methane	ND	6	ND	ND	1	ND
Ethylene	ND	9	ND	ND	0.7 j	ND
1,1-Dichloroethane	46	110	ND	14	880 d	ND
1,1-Dichloroethylene	26	260 d	ND	7	1700 d	ND
1,1,1-Trichloroethane	230	180 d	ND	59	820 d	ND
1,1,2-Trichloroethane	ND	1 j	ND	ND	8 j	ND
1,2-Dichloroethane	ND	ND	ND	ND	22	ND
1,2-Dichloroethylene (total)	ND	29	ND	17	94	ND
Chloroethane	ND	2 j	ND	ND	ND	ND
Chloroform	ND	6	ND	2 j	8 j	ND
Tetrachloroethylene	59	51	ND	32	1100 d	ND
Trichloroethylene	21	220 d	ND	13	1800 d	ND
Toluene	1 j	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	4 j	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	1 j	ND
Vinyl Chloride	ND	ND	ND	ND	6 j	ND
Xylenes (total)	ND	2 j b	ND	ND	3	ND

**Western Plume: UGA**

# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

TYPE OF CHLORINATED SOLVENT:

Ethenes   
 Ethanes

## 1. ADVECTION

Seepage Velocity\* Vs  (ft/yr)  
 or  
 Hydraulic Conductivity K  (cm/sec)  
 Hydraulic Gradient i  (ft/ft)  
 Effective Porosity n  (-)

## 2. DISPERSION

Alpha x Calc. Method  (ft)  
 (Alpha y) / (Alpha x)  (-)  
 (Alpha z) / (Alpha x)  (-)  
 Change Alpha x Calc. Method

## 3. ADSORPTION

Retardation Factor\* R   
 or  
 Soil Bulk Density, rho  (kg/L)  
 Fraction Organic Carbon, foc  (-)  
 Partition Coefficient Koc  (L/kg)  
 PCE  (-)  
 TCE  (-)  
 DCE  (-)  
 VC  (-)  
 ETH  (-)  
 Common R (used in model)\* =

## 4. BIOTRANSFORMATION

-1st Order Decay Coef\*  
 Zone 1  

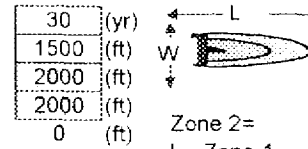
	$\lambda$ (1/yr)	half-life (yrs)	Yield*
PCE	<input type="text" value="0.635"/>	<input type="text"/>	<input type="text" value="0.79"/>
TCE	<input type="text" value="0.475"/>	<input type="text"/>	<input type="text" value="0.74"/>
DCE	<input type="text" value="1.740"/>	<input type="text"/>	<input type="text" value="0.64"/>
VC	<input type="text" value="1.360"/>	<input type="text"/>	<input type="text" value="0.45"/>

 Zone 2  

	$\lambda$ (1/yr)	half-life (yrs)
PCE	<input type="text" value="0.000"/>	<input type="text"/>
TCE	<input type="text" value="0.000"/>	<input type="text"/>
DCE	<input type="text" value="0.000"/>	<input type="text"/>
VC	<input type="text" value="0.000"/>	<input type="text"/>
ETH	<input type="text" value="0.000"/>	<input type="text"/>

## 5. GENERAL

Simulation Time\*  (yr)  
 Modeled Area Width\*  (ft)  
 Modeled Area Length\*  (ft)  
 Zone 1 Length\*  (ft)  
 Zone 2 Length\*  (ft)  
 Zone 2 = L - Zone 1



## 6. SOURCE DATA

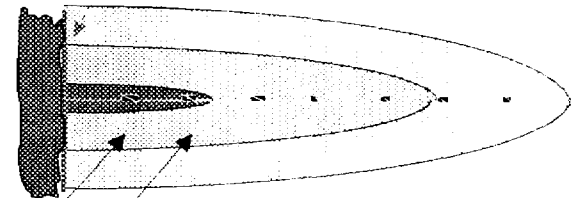
Source Options TYPE: Single Planar  
 Source Thickness in Sat. Zone\*  (ft)  
 Width\* (ft)   
 Conc. (mg/L)\* C1  

PCE	<input type="text" value="0.59"/>
TCE	<input type="text" value="0.21"/>
DCE	<input type="text" value="0.26"/>
VC	<input type="text" value="0"/>
ETH	<input type="text" value="0"/>

## Data Input Instructions:

115 1. Enter value directly ... or  
 or 2. Calculate by filling in gray cells. Press Enter, then  
 0.02  
 (To restore formulas, hit "Restore Formulas" button )  
 Variable\* Data used directly in model.  
 Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down  
 Observed Centerline Conc. at Monitoring Wells

## 7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	<input type="text" value="1.1"/>	<input type="text" value="0.09"/>	<input type="text" value="15"/>	<input type="text" value="0.06"/>	<input type="text" value="0.1"/>				
TCE Conc. (mg/L)	<input type="text" value="1.8"/>	<input type="text" value="0.1"/>	<input type="text" value="0.98"/>	<input type="text" value="0.03"/>	<input type="text" value="0.41"/>				
DCE Conc. (mg/L)	<input type="text" value="1.7"/>	<input type="text" value="0.16"/>	<input type="text" value="0.17"/>	<input type="text" value="5"/>	<input type="text" value="0.06"/>				
VC Conc. (mg/L)	<input type="text" value="0.1"/>				<input type="text" value="0.06"/>				
ETH Conc. (mg/L)	<input type="text" value="0.0"/>		<input type="text" value="0.01"/>		<input type="text" value="0.01"/>				
Dist. from Source (ft)	<input type="text" value="0"/>	<input type="text" value="600"/>	<input type="text" value="1050"/>	<input type="text" value="1350"/>	<input type="text" value="1750"/>				

## 8. CHOOSE TYPE OF OUTPUT TO SEE:

# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse

Distance (ft)

	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.006	0.003	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
300	0.059	0.007	0.003	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
0	0.059	0.008	0.004	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-300	0.059	0.007	0.003	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-600	0.000	0.006	0.003	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000

MASS

FLUX

(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:

Show No Degradation

Show

Biodegradation

Show

Biodegradation

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  [source to edit]

If "Can't Calc.": make model area longer

See acie ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

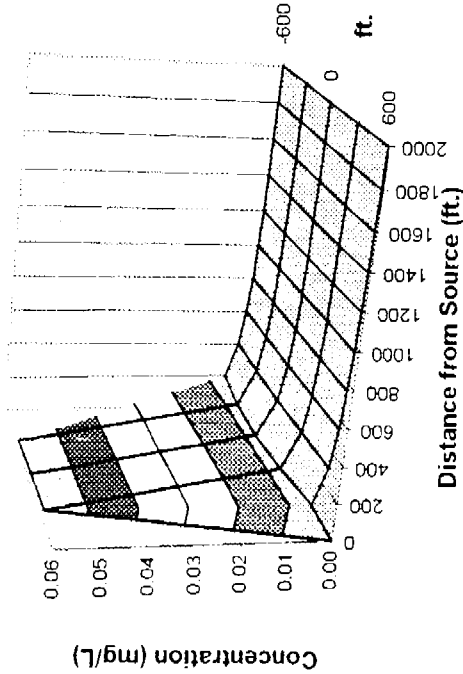
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

West\_UGA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

	Distance from Source (ft)										
	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
300	0.021	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
0	0.021	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-300	0.021	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-600	0.000	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

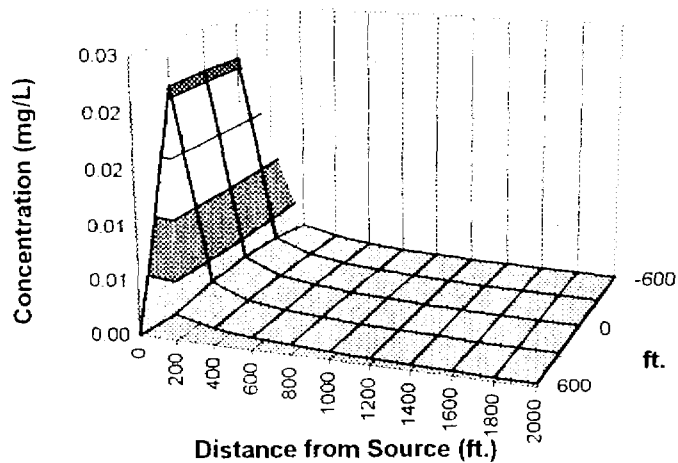
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

---

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

---

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

West\_UGA\_Max conc\_30 yr.xls

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- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

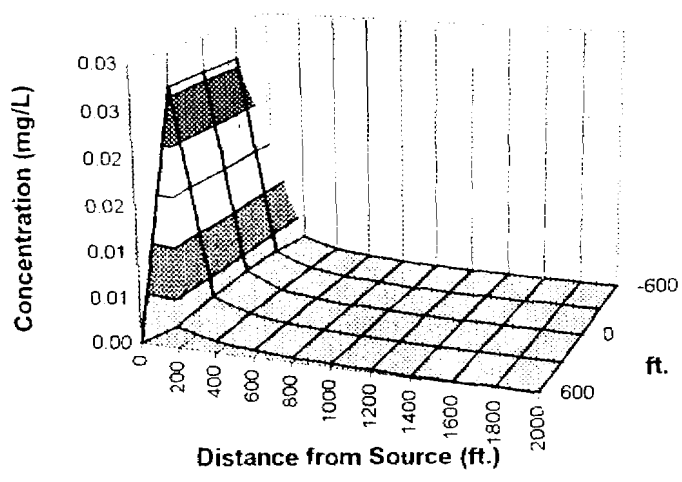
### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	0.026	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
0	0.026	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
-300	0.026	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
-600	0.000	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation

Show Biotransformation

MASS FLUX (mg/day)      Time:  yr      Target Level:  mg/L      Displayed Model:       Displayed Compound:



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons      Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  [source to edit]

See acre ft      Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data      Plot Data > Target

West\_UGA\_Max conc\_30 yr.xls

Mass HELP      To Centerline      Return to Input

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

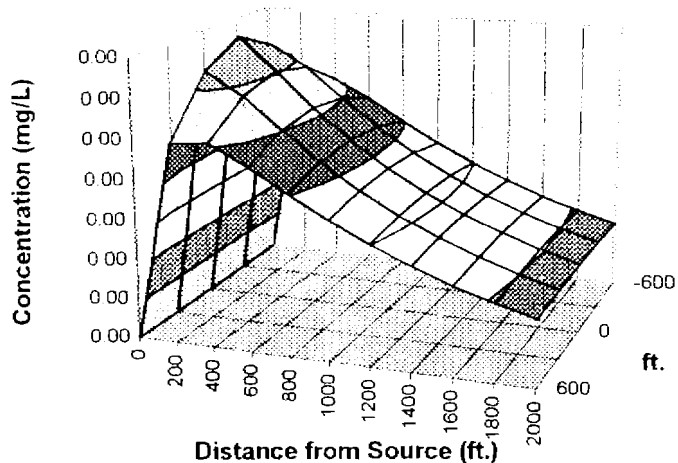
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux = #VALUE! [source to edge]

See acre ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

West\_UGA\_Max conc\_30 yr.xls

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Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation  
 Show Biotransformation

Time:  yr      Target Level:  mg/L

Displayed Model:       Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons      Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  (reference to eqn1)

% Change in Mass Flux =  (reference to eqn1)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

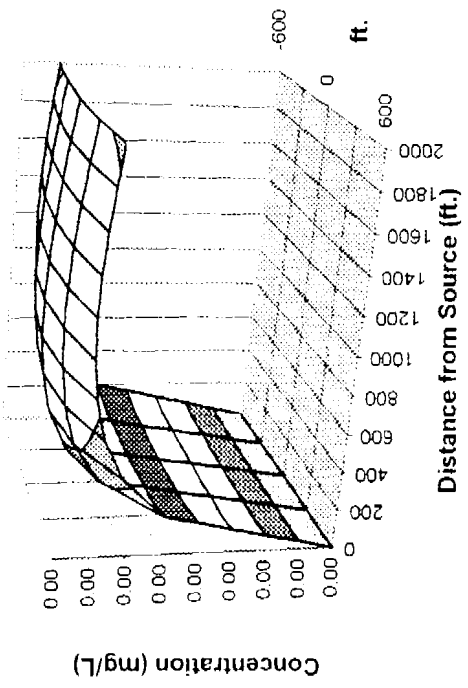
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Plot All Data      Plot Data > Target      Mass HELP      To Centerline      Return to Input

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Start Here →  PCE

TCE

DCE

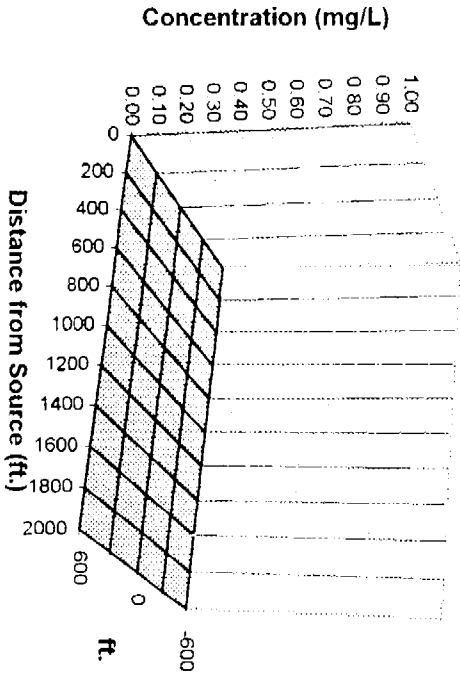
VC

ETH

Show No Degradation

Show Biotransformation

Time:  yr      Target Level:  mg/L      Displayed Model:       Displayed Compound:



Plot All Data      Plot Data > Target

West\_UGA\_Max conc\_30 yr.xls

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons      Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

If "Cart Calc" make model area longer

% Biotransformed =  % Change in Mass Flux =  (Source to edge)

Compare to Pump and Treat

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up  (Yr)

Mass HELP      To Centerline      Return to Input

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# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										
	0	200	400	600	800	1000	1200	1400	1600	1800	2000
600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux = #VALUE! (Source to edge)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

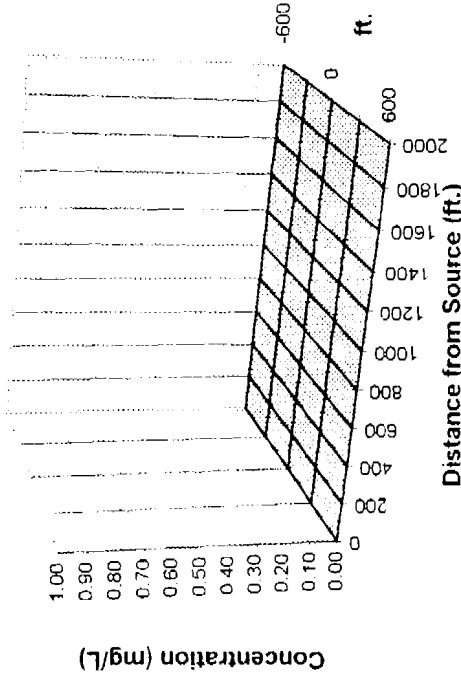
# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

if "Can't Calc." make model area longer

See acre ft



Plot All Data | Plot Data > Target

Mass HELP | To Centerline | Return to Input

West\_UGA\_Max conc\_30\_yr.xls

Lawler, Matusky & Skelly Engineers LLP

**Western Plume: Magothy Aquifer**

# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

NYSDEC  
NCIA SITE  
Run Name

## Data Input Instructions:

1. Enter value directly... or
  2. Calculate by filling in gray cells. Press Enter, then
- (To restore formulas, hit "Restore Formulas" button)
- Variable\* - Data used directly in model.

TYPE OF CHLORINATED SOLVENT:

Ethenes   
Ethanes

### 1. ADVECTION

Seepage Velocity\* Vs 177.2 (ft/yr)

Hydraulic Conductivity K 1.8E-02 (cm/sec)

Hydraulic Gradient i 0.00146 (ft/ft)

Effective Porosity n 0.15 (-)

### 2. DISPERSION

Alpha x Calc. Method 820 (ft)

(Alpha y) / (Alpha x) 1.02 (-)

(Alpha z) / (Alpha x) 1E-01 (-)

Change Alpha x Calc. Method

### 3. ADSORPTION

Retardation Factor\* R

Soil Bulk Density, rho 2 (kg/L)

Fraction Organic Carbon, foc 1.5E-3 (-)

Partition Coefficient Koc

PCE	426 (L/kg)	9.5 (-)
TCE	130 (L/kg)	3.6 (-)
DCE	125 (L/kg)	3.5 (-)
VC	30 (L/kg)	1.6 (-)
ETH	302 (L/kg)	7.0 (-)

Common R (used in model)\* = 3.6

### 4. BIOTRANSFORMATION

-1st Order Decay Coef

Zone	Compound	$\lambda$ (1/yr)	half-life (yrs)	Yield*
Zone 1	PCE	0.635		0.79
	TCE	0.475		0.74
	DCE	1.740		0.64
	VC	1.360		0.45
Zone 2	PCE	0.000		
	TCE	0.000		
	DCE	0.000		
	VC	0.000		
	ETH	0.000		

### 5. GENERAL

Simulation Time\* 30 (yr)

Modeled Area Width\* 1050 (ft)

Modeled Area Length\* 1025 (ft)

Zone 1 Length\* 1025 (ft)

Zone 2 Length\* 0 (ft)

Zone 2= L - Zone 1

### 6. SOURCE DATA

Source Options

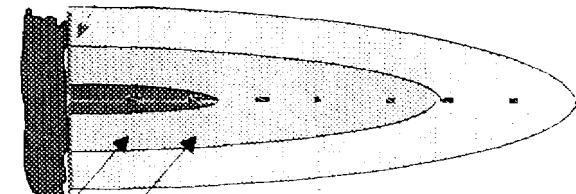
TYPE: Single Planar

Source Thickness in Sat. Zone\* 100 (ft)

Width\* (ft) 625

Conc. (mg/L)*	C1
PCE	.032
TCE	.013
DCE	.007
VC	.0
ETH	.0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



### 7. FIELD DATA FOR COMPARISON

Conc. (mg/L)	1	11	009	.15	.006	.01								
PCE Conc. (mg/L)	1.1	0.09	0.15	0.006	0.01									
TCE Conc. (mg/L)	1.8	0.01	0.098	0.003	0.041									
DCE Conc. (mg/L)	1.7	0.016	0.017	5	0.006									
VC Conc. (mg/L)	0.1				0.006									
ETH Conc. (mg/L)	0.0		0.001		0.001									
Dist. from Source (ft)	0	600	1050	1350	1750									

### 8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Restore Formulas

RESET

SEE OUTPUT

Paste Example

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)

	Distance from Source (ft)											
	0	103	205	308	410	513	615	718	820	923	1025	
420	0.000	0.005	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
210	0.032	0.007	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0	0.032	0.008	0.004	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
-210	0.032	0.007	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.005	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000

Show No Degradation

Show Biotransformation

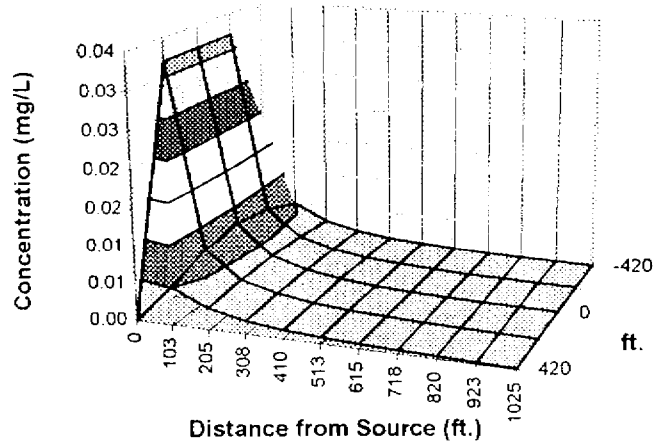
MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass if No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc", make model area longer

% Biotransformed =

% Change in Mass Flux = #VALUE! (SOURCE TO EDGE)

See acre ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input



### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
210	0.013	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
0	0.013	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-210	0.013	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
-420	0.000	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

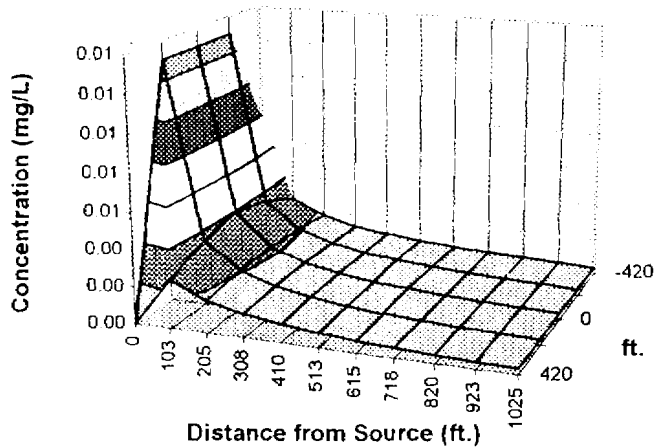
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:



#### Plume Mass (Order-of-Magnitude Accuracy)

**See Gallons**

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  [Source to edge]

**See acre ft**

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

**Compare to Pump and Treat**

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

	Distance from Source (ft)										
	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.007	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.007	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.007	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

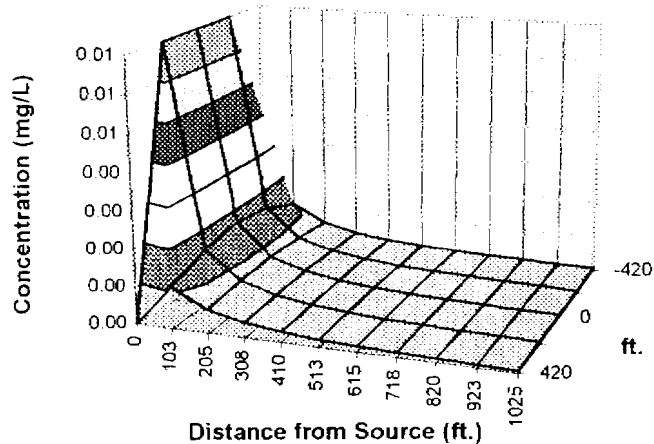
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons	Plume Mass If No Degradation	<input type="text" value="1.2"/> (Kg)
	- Plume Mass If Biotransformation/Production	<input type="text" value="0.9"/> (Kg)
	Mass Removed	<input type="text" value="0.3"/> (Kg)
If "Can't Calc.", make model area longer	% Biotransformed =	<input type="text" value="+23.3%"/>
	% Change in Mass Flux =	#VALUE! <small>(source to engine)</small>
See acre ft	Current Volume of Ground Water in Plume	<input type="text" value="7.25"/> MGal
	Flow Rate of Water Through Source Area	<input type="text" value="0.034"/> MGD
Compare to Pump and Treat	Pumping Rate	<input type="text" value=""/> (gpm)
	# Pore Volumes Removed Per Yr.	<input type="text" value="0.0"/>
	# Pore Volumes to Clean-Up	<input type="text" value=""/>
	Clean-Up Time	<input type="text" value=""/> (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										MASS FLUX (mg/day)	
	0	103	205	308	410	513	615	718	820	923		1025
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation   
 Show Biotransformation

Displayed Compound: VC

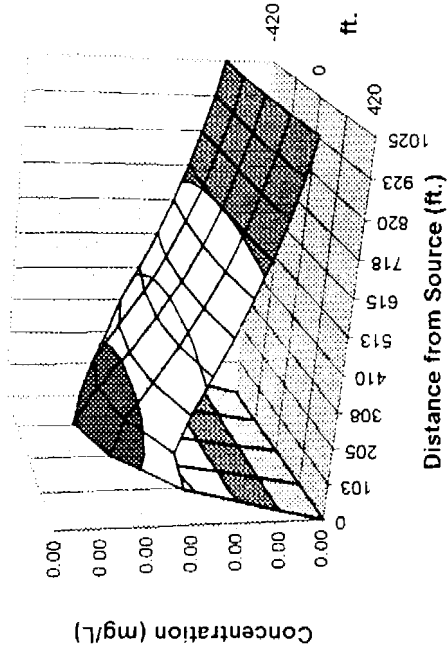
Time: 30 yr

Target Level: 0.002 mg/L

Displayed Model: Biotransformation

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons: Plume Mass If No Degradation: 0.0 (Kg)  
 - Plume Mass If Biotransformation/Production: 0.2 (Kg)  
 Mass Removed: -0.2 (Kg)  
 % Biotransformed =   
 % Change in Mass Flux = #VALUE! [PLACE IN ENGINEER]  
 If "Can't Calc." make model area longer.  
 Compare to Pump and Treat: Current Volume of Ground Water in Plume: 0.00 MGal  
 Flow Rate of Water Through Source Area: 0.034 MGD  
 # Pore Volumes Removed Per Yr: #DIV/0!  
 # Pore Volumes to Clean-Up:   
 Clean-Up Time:  (yr)



Plot All Data | Plot Data > Target

Mass HELP | To Centerline

Return to Input

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)

	Distance from Source (ft)											
	0	103	205	308	410	513	615	718	820	923	1025	
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

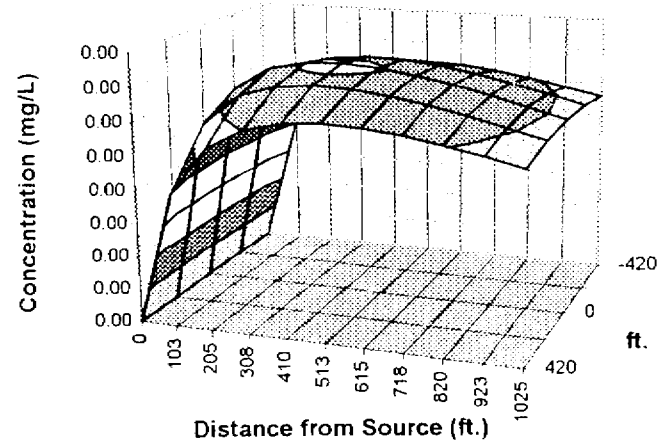
Show No Degradation  
 Show Biotransformation

MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons  
 Plume Mass If No Degradation  (Kg)  
 - Plume Mass If Biotransformation/Production  (Kg)  
 Mass Removed  (Kg)

If "Can't Calc.", make model area longer  
 % Biotransformed =   
 % Change in Mass Flux = #VALUE! (source to edge)

See acre ft  
 Current Volume of Ground Water in Plume  MGal  
 Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat  
 Pumping Rate  (gpm)  
 # Pore Volumes Removed Per Yr.   
 # Pore Volumes to Clean-Up   
 Clean-Up Time  (yr)

# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Displayed Compound: VC  
 Displayed Model: No Degradation  
 Target Level: 0.002 mg/L  
 Time: 30 yr  
 MASS FLUX (mg/day)

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  [source to range]

% Change in Mass Flux =  [source to range]

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

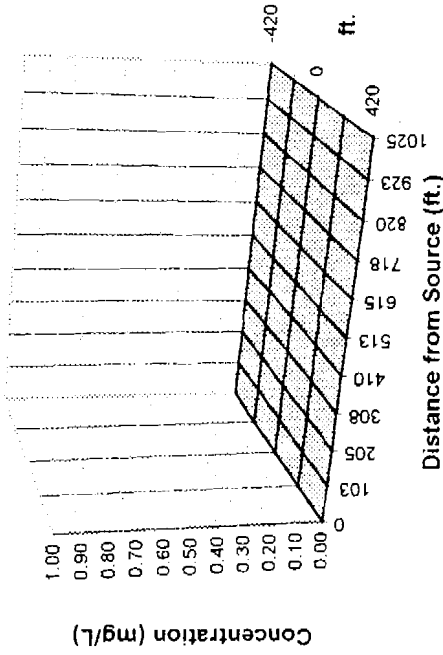
# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

If "Can't Calc." make model area longer

See acre ft



### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

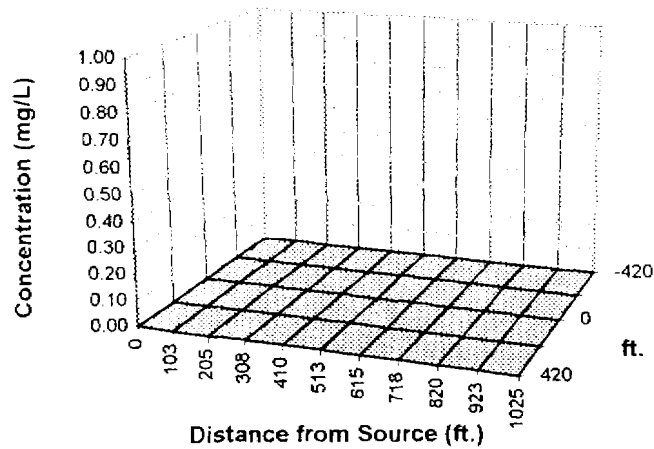
MASS  
FLUX  
(mg/day)

Time  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:



#### Plume Mass (Order-of-Magnitude Accuracy)

See  
Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

If "Can't Calc.",  
make model area  
longer

% Biotransformed =

% Change in Mass Flux = #VALUE! (source to eng)

See acre  
ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

#### Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central Plume: UGA

# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

NYSDEC  
NCIA SITE

Run Name

## Data Input Instructions:

- 115 or 0.02
1. Enter value directly...or
  2. Calculate by filling in gray cells. Press Enter, then
- (To restore formulas, hit "Restore Formulas" button )
- Variable\* Data used directly in model.

TYPE OF CHLORINATED SOLVENT:

Ethenes   
Ethanes

### 1. ADVECTION

Seepage Velocity\* Vs 536.3 (ft/yr)

Hydraulic Conductivity K 7.1E-02 (cm/sec)

Hydraulic Gradient i 0.00146 (ft/ft)

Effective Porosity n 0.2 (-)

### 2. DISPERSION

Alpha x Calc. Method 1300 (ft) Change Alpha x Calc. Method

(Alpha y) / (Alpha x) 1.2 (-)

(Alpha z) / (Alpha x) 4 E-02 (-)

### 3. ADSORPTION

Retardation Factor\* R

Soil Bulk Density, rho 1.7 (kg/L)

Fraction Organic Carbon, foc 1.5E-3 (-)

Partition Coefficient Koc

PCE	426 (L/kg)	6.4 (-)
TCE	130 (L/kg)	2.7 (-)
DCE	125 (L/kg)	2.6 (-)
VC	30 (L/kg)	1.4 (-)
ETH	302 (L/kg)	4.9 (-)

Common R (used in model)\* = 2.7

### 4. BIOTRANSFORMATION

-1st Order Decay Coef\*

Zone	Solute	λ (1/yr)	half-life (yrs)	Yield*
Zone 1	PCE → TCE	0.635		0.79
	TCE → DCE	0.475		0.74
	DCE → VC	1.740		0.64
	VC → ETH	1.360		0.45
Zone 2	PCE → TCE	0.000		
	TCE → DCE	0.000		
	DCE → VC	0.000		
	VC → ETH	0.000		
	ETH → Ethane	0.000		

### 5. GENERAL

Simulation Time\* 30 (yr)

Modeled Area Width\* 1950 (ft)

Modeled Area Length\* 1625 (ft)

Zone 1 Length\* 1625 (ft)

Zone 2 Length\* 0 (ft)

Zone 2 = L - Zone 1

### 6. SOURCE DATA

Source Options TYPE: Single Planar

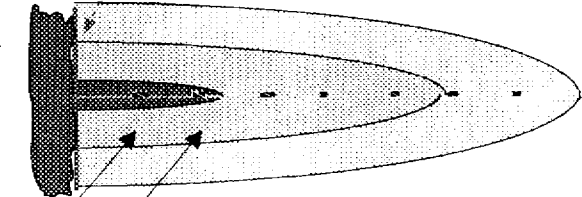
Source Thickness in Sat. Zone\* 50 (ft)

Width\* (ft) 1170

Conc. (mg/L)\* C1

PCE	.051
TCE	.22
DCE	.26
VC	.0
ETH	.009

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

### 7. FIELD DATA FOR COMPARISON

	11	609	15	.006	.01				
PCE Conc. (mg/L)	1.1	.009	15	.006	.01				
TCE Conc. (mg/L)	1.8	.01	.098	.003	.041				
DCE Conc. (mg/L)	1.7	.016	.017	.5	.006				
VC Conc. (mg/L)	0.1				.006				
ETH Conc. (mg/L)	0.0		.001		.001				
Dist. from Source (ft)	0	600	1050	1350	1750				

### 8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Restore Formulas

RESET

SEE OUTPUT

Paste Example



### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.005	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000
390	0.051	0.007	0.004	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000
0	0.051	0.008	0.004	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000
-390	0.051	0.007	0.004	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000
-780	0.000	0.005	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000

Show No Degradation

Show Biotransformation

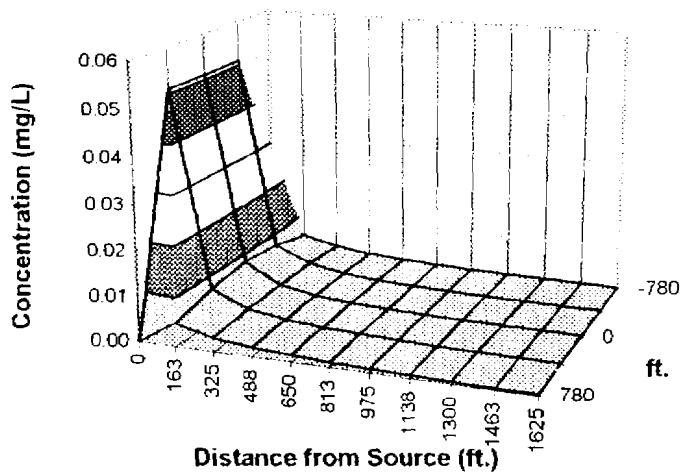
MASS FLUX (mg/day)	-	-	-	-	-	-	-	-	-	-	-
--------------------	---	---	---	---	---	---	---	---	---	---	---

Displayed Compound

Time:  yr

Target Level:  mg/L

Displayed Model:



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  [source to edge]

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

## DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.023	0.014	0.010	0.007	0.005	0.004	0.004	0.003	0.002	0.002
390	0.220	0.033	0.017	0.011	0.008	0.006	0.005	0.004	0.003	0.003	0.002
0	0.220	0.037	0.018	0.012	0.008	0.006	0.005	0.004	0.003	0.003	0.002
-390	0.220	0.033	0.017	0.011	0.008	0.006	0.005	0.004	0.003	0.003	0.002
-780	0.000	0.023	0.014	0.010	0.007	0.005	0.004	0.004	0.003	0.002	0.002

Show No  
Degradation

Show  
Biotransformation

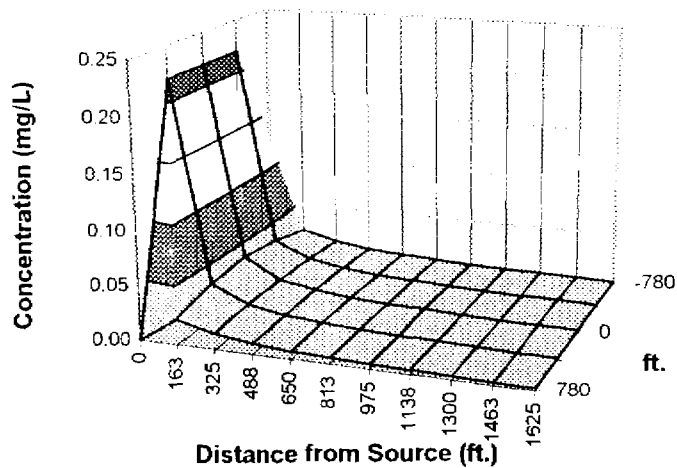
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

if "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.024	0.014	0.009	0.006	0.004	0.003	0.002	0.002	0.001	0.001
390	0.260	0.035	0.017	0.010	0.006	0.004	0.003	0.002	0.002	0.001	0.001
0	0.260	0.040	0.018	0.010	0.007	0.005	0.003	0.002	0.002	0.001	0.001
-390	0.260	0.035	0.017	0.010	0.006	0.004	0.003	0.002	0.002	0.001	0.001
-780	0.000	0.024	0.014	0.009	0.006	0.004	0.003	0.002	0.002	0.001	0.001

Show No  
Degradation

Show  
Biotransformation

MASS  
FLUX

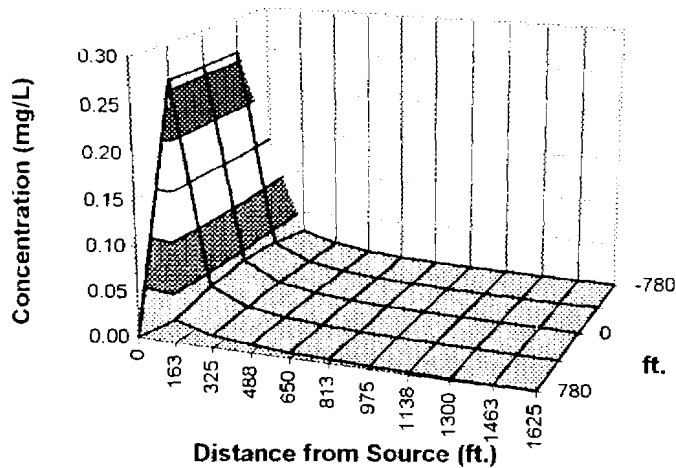
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons	Plume Mass If No Degradation	<input type="text" value="49.2"/>	(Kg)
	- Plume Mass If Biotransformation/Production	<input type="text" value="36.9"/>	(Kg)
	Mass Removed	<input type="text" value="12.3"/>	(Kg)
If "Can't Calc.", make model area longer	% Biotransformed =	<input type="text" value="+25.0%"/>	
	% Change in Mass Flux =	<input type="text" value="#VALUE!"/>	(source to edge)
See acre. ft	Current Volume of Ground Water in Plume	<input type="text" value="109.03"/>	MGal
	Flow Rate of Water Through Source Area	<input type="text" value="0.129"/>	MGD
Compare to Pump and Treat	Pumping Rate	<input type="text"/>	(gpm)
	# Pore Volumes Removed Per Yr.	<input type="text" value="0.0"/>	
	# Pore Volumes to Clean-Up	<input type="text"/>	
	Clean-Up Time	<input type="text"/>	(yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.002	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
390	0.000	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001
0	0.000	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.001
-390	0.000	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001
-780	0.000	0.002	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001

Show No  
Degradation

Show  
Biotransformation

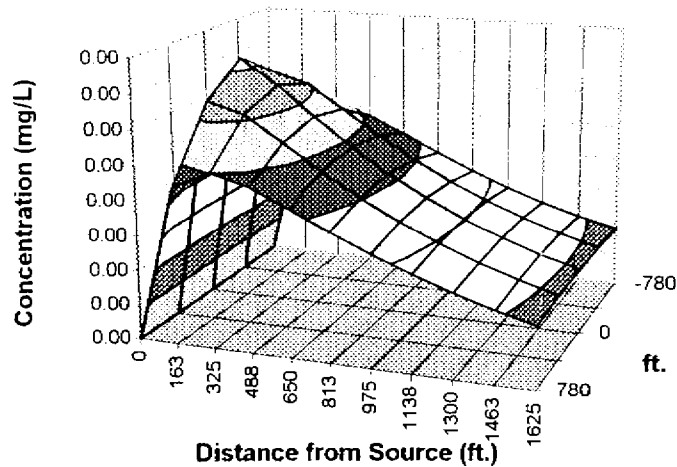
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux = #VALUE! (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
390	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001
0	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001
-390	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001
-780	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001

Show No  
Degradation

Show  
Biotransformation

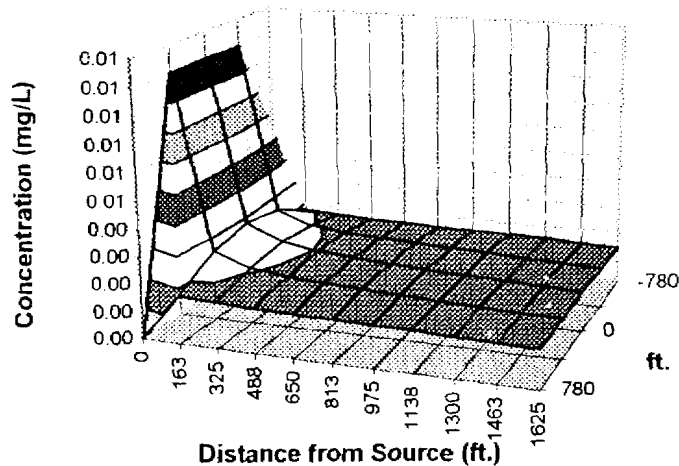
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	163	325	488	650	813	975	1138	1300	1463	1625
780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-390	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

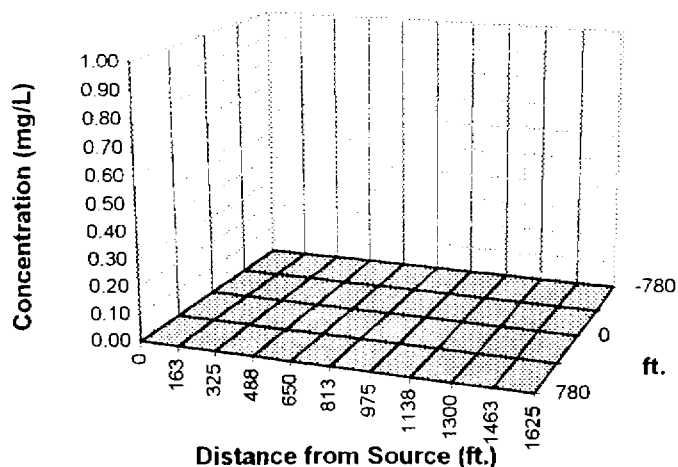
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc", make model area longer.

% Biotransformed =

% Change in Mass Flux = #VALUE! (source to edge)

See acre ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_UGA\_Max conc\_30 yr.xls

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# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										MASS FLUX (mg/day)	
	0	163	325	488	650	813	975	1138	1300	1463		1625
780	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	0.009	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.009	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-390	0.009	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-780	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation  
 Show Biotransformation

Time:  yr  
 Target Level:  mg/L  
 Displayed Model:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = #VALUE! (source to edit)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

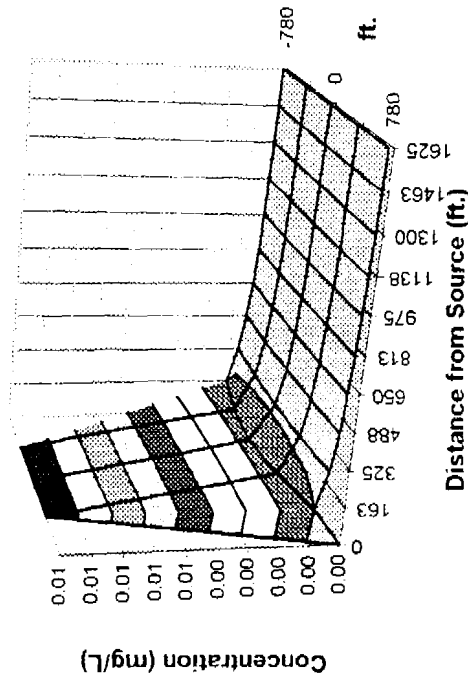
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Plot All Data  Plot Data > Target

Central\_UGA\_Max conc\_30\_yr.xls

Mass HELP  To Centerline  Return to Input

**Central Plume: Magothy Aquifer**



# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

NYSDEC  
NCIA SITE  
Run Name

## Data Input Instructions:

- 115  
or  
0.02  
Variable\*
1. Enter value directly... or
  2. Calculate by filling in gray cells. Press Enter, then
- (To restore formulas, hit "Restore Formulas" button)  
Data used directly in model.

TYPE OF CHLORINATED SOLVENT:

Ethenes   
Ethanes

### 1. ADVECTION

Seepage Velocity\* Vs 177.2 (ft/yr)  
Hydraulic Conductivity K 1.8E-02 (cm/sec)  
Hydraulic Gradient i 0.00146 (ft/ft)  
Effective Porosity n 0.15 (-)

### 2. DISPERSION

Alpha x Calc. Method 820 (ft)  
(Alpha y) / (Alpha x) 1.02 (-)  
(Alpha z) / (Alpha x) 1E-01 (-)  
Change Alpha x Calc. Method

### 3. ADSORPTION

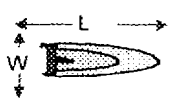
Retardation Factor\* R  
Soil Bulk Density, rho 2 (kg/L)  
Fraction Organic Carbon, foc 1.5E-3 (-)  
Partition Coefficient Koc  
PCE 426 (L/kg) 9.5 (-)  
TCE 130 (L/kg) 3.6 (-)  
DCE 125 (L/kg) 3.5 (-)  
VC 30 (L/kg) 1.6 (-)  
ETH 302 (L/kg) 7.0 (-)  
Common R (used in model)\* = 3.6

### 4. BIOTRANSFORMATION

-1st Order Decay Coef\*  
Zone 1  
PCE TCE 0.635 (1/yr) half-life (yrs) Yield\* 0.79  
TCE DCE 0.475 (1/yr) half-life (yrs) Yield\* 0.74  
DCE VC 1.740 (1/yr) half-life (yrs) Yield\* 0.64  
VC ETH 1.360 (1/yr) half-life (yrs) Yield\* 0.45  
Zone 2  
PCE TCE 0.000 (1/yr) half-life (yrs) Yield\*  
TCE DCE 0.000 (1/yr) half-life (yrs) Yield\*  
DCE VC 0.000 (1/yr) half-life (yrs) Yield\*  
VC ETH 0.000 (1/yr) half-life (yrs) Yield\*  
ETH Ethane 0.000 (1/yr) half-life (yrs) Yield\*

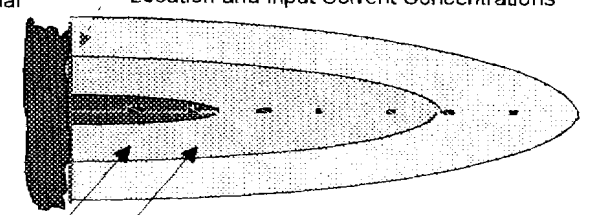
### 5. GENERAL

Simulation Time\* 30 (yr)  
Modeled Area Width\* 1050 (ft)  
Modeled Area Length\* 1025 (ft)  
Zone 1 Length\* 1025 (ft)  
Zone 2 Length\* 0 (ft)  
Zone 2 = L - Zone 1



### 6. SOURCE DATA

Source Options TYPE: Single Planar  
Source Thickness in Sat. Zone\* 100 (ft)  
Width\* (ft) 625  
Conc. (mg/L)\* C1  
PCE 1.1  
TCE 1.8  
DCE 1.7  
VC 0.06  
ETH 0.01  
View of Plume Looking Down  
Observed Centerline Conc. at Monitoring Wells



### 7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	1.1	0.09	15	0.06	0.1					
TCE Conc. (mg/L)	1.8	0.1	0.98	0.03	0.41					
DCE Conc. (mg/L)	1.7	0.16	0.17	5	0.06					
VC Conc. (mg/L)	0.1				0.06					
ETH Conc. (mg/L)	0.0		0.01		0.01					
Dist. from Source (ft)	0	600	1050	1350	1750					

### 8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Restore Formulas

RESET

SEE OUTPUT

Paste Example

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.174	0.098	0.062	0.041	0.029	0.021	0.016	0.012	0.009	0.007
210	1.100	0.240	0.117	0.069	0.045	0.031	0.022	0.017	0.012	0.009	0.007
0	1.100	0.267	0.124	0.072	0.047	0.032	0.023	0.017	0.013	0.010	0.007
-210	1.100	0.240	0.117	0.069	0.045	0.031	0.022	0.017	0.012	0.009	0.007
-420	0.000	0.174	0.098	0.062	0.041	0.029	0.021	0.016	0.012	0.009	0.007

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  (Source to edge)

Current Volume of Ground Water in Plume  MGD

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

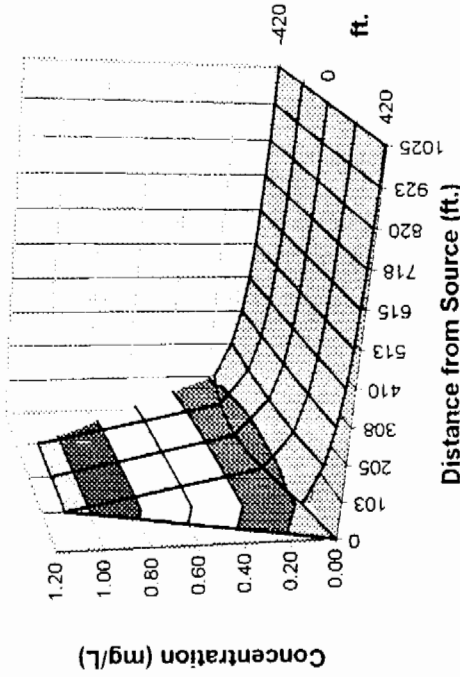
# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

See note if "Can't Calc." make model area longer

See note if



Plot All Data

Mass HELP

Central\_MA\_Max conc\_30\_yr.xls

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# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										Show No Degradation	Show Biotransformation	
	0	103	205	308	410	513	615	718	820	923			1025
420	0.000	0.309	0.187	0.126	0.091	0.068	0.053	0.042	0.033	0.027	0.022		
210	1.800	0.425	0.223	0.142	0.100	0.074	0.056	0.044	0.035	0.028	0.023		
0	1.800	0.473	0.236	0.148	0.103	0.075	0.057	0.045	0.035	0.028	0.023		
-210	1.800	0.425	0.223	0.142	0.100	0.074	0.056	0.044	0.035	0.028	0.023		
-420	0.000	0.309	0.187	0.126	0.091	0.068	0.053	0.042	0.033	0.027	0.022		

Time:  yr  
 Target Level:  mg/L  
 Displayed Model:   
 Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux = #VALUE! (source to edge)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

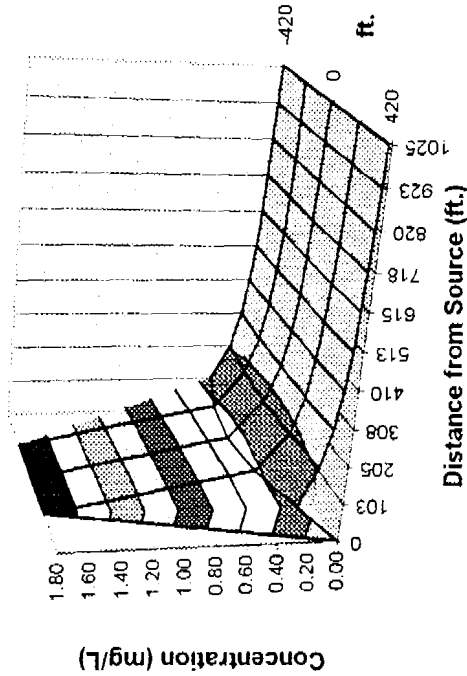
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Central\_MA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.249	0.130	0.077	0.049	0.033	0.023	0.017	0.013	0.010	0.007
210	1.700	0.343	0.155	0.087	0.054	0.036	0.025	0.018	0.013	0.010	0.008
0	1.700	0.381	0.164	0.090	0.056	0.037	0.025	0.018	0.013	0.010	0.008
-210	1.700	0.343	0.155	0.087	0.054	0.036	0.025	0.018	0.013	0.010	0.008
-420	0.000	0.249	0.130	0.077	0.049	0.033	0.023	0.017	0.013	0.010	0.007

Show No  
Degradation

Show  
Biotransformation

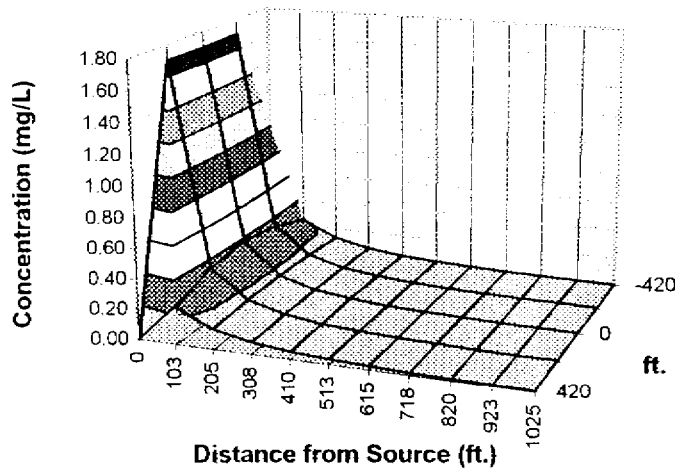
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_MA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.034	0.035	0.030	0.025	0.021	0.017	0.014	0.011	0.009	0.007
210	0.006	0.047	0.041	0.034	0.028	0.022	0.018	0.014	0.012	0.010	0.008
0	0.006	0.052	0.044	0.035	0.028	0.023	0.018	0.015	0.012	0.010	0.008
-210	0.006	0.047	0.041	0.034	0.028	0.022	0.018	0.014	0.012	0.010	0.008
-420	0.000	0.034	0.035	0.030	0.025	0.021	0.017	0.014	0.011	0.009	0.007

Show No  
Degradation

Show  
Biotransformation

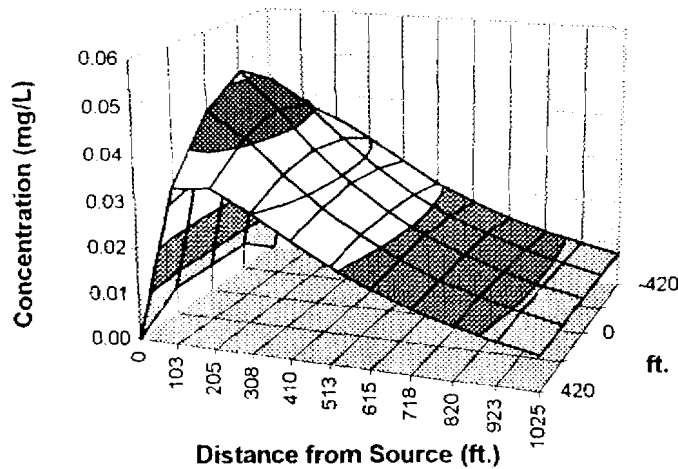
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

if "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre. ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

Central\_MA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.013	0.018	0.019	0.020	0.020	0.019	0.019	0.018	0.017	0.016
210	0.001	0.018	0.021	0.022	0.022	0.021	0.020	0.020	0.019	0.017	0.016
0	0.001	0.020	0.022	0.023	0.022	0.022	0.021	0.020	0.019	0.018	0.017
-210	0.001	0.018	0.021	0.022	0.022	0.021	0.020	0.020	0.019	0.017	0.016
-420	0.000	0.013	0.018	0.019	0.020	0.020	0.019	0.019	0.018	0.017	0.016

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = #VALUE!  (source to edge?)

if "Can't Calc." make model area longer

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

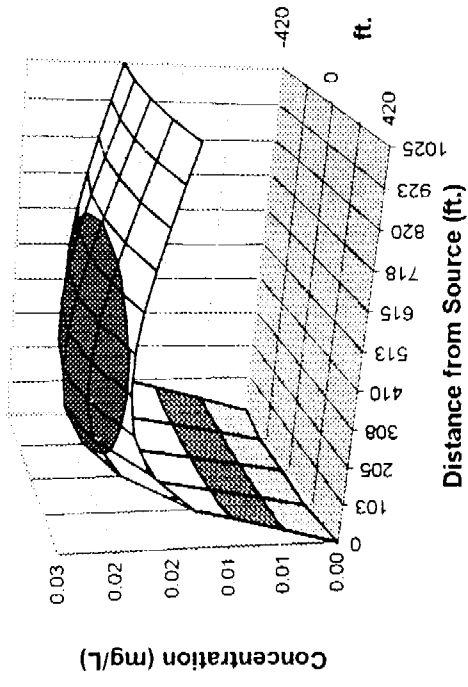
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Central\_MA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										
	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation  
 Show Biotransformation

Time:  yr      Target Level:  mg/L      Displayed Model:       Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = **#VALUE!** (source to edge)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

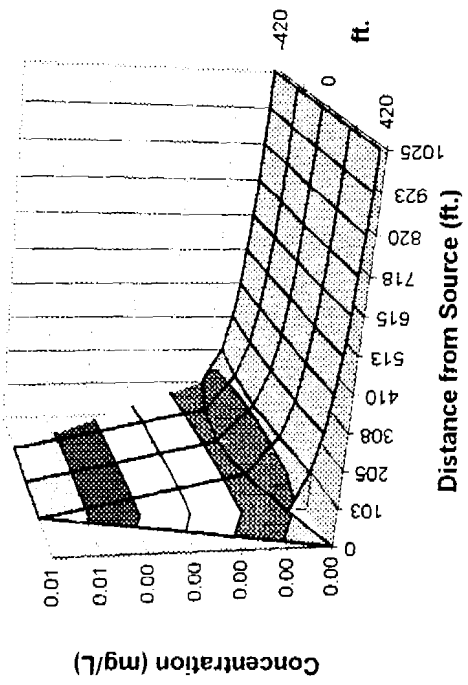
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up  (yr)

Mass HELP      To Centerline      Return to Input



Plot All Data      Plot Data > Target

Central\_MA\_Max conc\_30\_yr.xls

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	103	205	308	410	513	615	718	820	923	1025
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-210	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:   Displayed Compound

Show No Degradation

Show Biotransformation

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

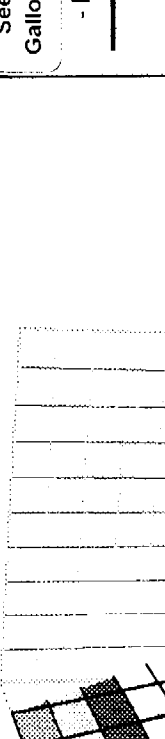
Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = #VALUE! (source to edge)



if "Can't Calc." make model area longer

See acre ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Central\_MA\_Max\_conc\_30\_yr.xls

Lawler, Matusky & Skelly Engineers LLP



Eastern Plume: UGA

# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

NYSDEC  
NCIA SITE  
Run Name

## Data Input Instructions:

1. Enter value directly...or
  2. Calculate by filling in gray cells. Press Enter, then
- (To restore formulas, hit "Restore Formulas" button)
- Variable\* → Data used directly in model.

TYPE OF CHLORINATED SOLVENT:

Ethenes   
Ethanes

### 1. ADVECTION

Seepage Velocity\* Vs 536.3 (ft/yr)  
 Hydraulic Conductivity K 7.1E-02 (cm/sec)  
 Hydraulic Gradient i 0.00146 (ft/ft)  
 Effective Porosity n 0.2 (-)

### 2. DISPERSION

Alpha x Calc. Method 650 (ft)  
 (Alpha y) / (Alpha x) 1.23 (-)  
 (Alpha z) / (Alpha x) 8.E-02 (-)  
 Change Alpha x Calc. Method

### 3. ADSORPTION

Retardation Factor\* R  
 Soil Bulk Density, rho 1.7 (kg/L)  
 Fraction Organic Carbon, foc 1.5E-3 (-)  
 Partition Coefficient Koc  
 PCE 426 (L/kg) 6.4 (-)  
 TCE 130 (L/kg) 2.7 (-)  
 DCE 125 (L/kg) 2.6 (-)  
 VC 30 (L/kg) 1.4 (-)  
 ETH 302 (L/kg) 4.9 (-)  
 Common R (used in model)\* = 2.7

### 4. BIOTRANSFORMATION

-1st Order Decay Coef\*  
 Zone 1  
 PCE → TCE λ (1/yr) 0.635 half-life (yrs) Yield\* 0.79  
 TCE → DCE 0.475 0.74  
 DCE → VC 1.740 0.64  
 VC → ETH 1.360 0.45  
 Zone 2  
 PCE → TCE λ (1/yr) 0.000 half-life (yrs)  
 TCE → DCE 0.000  
 DCE → VC 0.000  
 VC → ETH 0.000  
 ETH → Ethane 0.000

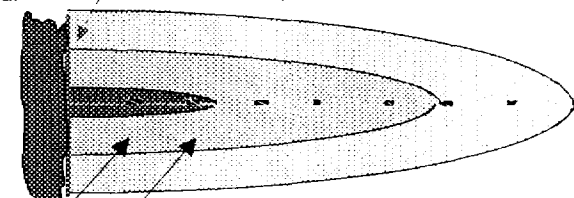
### 5. GENERAL

Simulation Time\* 30 (yr)  
 Modeled Area Width\* 1000 (ft)  
 Modeled Area Length\* 900 (ft)  
 Zone 1 Length\* 900 (ft)  
 Zone 2 Length\* 0 (ft)  
 Zone 2= L - Zone 1

### 6. SOURCE DATA

Source Options TYPE: Single Planar  
 Source Thickness in Sat. Zone\* 50 (ft)  
 Width\* (ft) 600  
 Conc. (mg/L)\* C1  
 PCE .051  
 TCE .22  
 DCE .26  
 VC 0  
 ETH .009

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



### 7. FIELD DATA FOR COMPARISON

Conc. (mg/L)	C1								
PCE Conc. (mg/L)	1.1	.009	.15	.006	.01				
TCE Conc. (mg/L)	1.8	.01	.098	.003	.041				
DCE Conc. (mg/L)	1.7	.016	.017	.5	.006				
VC Conc. (mg/L)	0.1				.006				
ETH Conc. (mg/L)	0.0		.001		.001				
Dist. from Source (ft)	0	600	1050	1350	1750				

### 8. CHOOSE TYPE OF OUTPUT TO SEE:

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.007	0.004	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001
200	0.051	0.010	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001
0	0.051	0.011	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001
-200	0.051	0.010	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001
-400	0.000	0.007	0.004	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001

Show No  
Degradation

Show  
Biotransformation

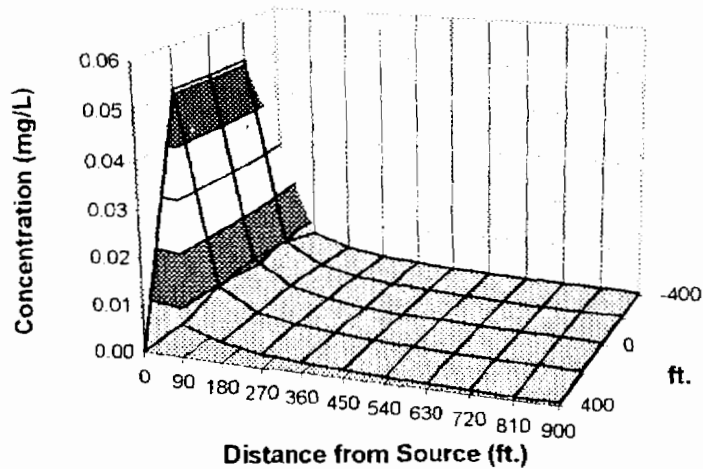
MASS  
FLUX  
(mg/day)

Displayed Compound

Time:  yr

Target Level:  mg/L

Displayed Model:



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

East\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.031	0.019	0.014	0.010	0.008	0.007	0.005	0.005	0.004	0.003
200	0.220	0.043	0.023	0.015	0.011	0.009	0.007	0.006	0.005	0.004	0.004
0	0.220	0.048	0.025	0.016	0.012	0.009	0.007	0.006	0.005	0.004	0.004
-200	0.220	0.043	0.023	0.015	0.011	0.009	0.007	0.006	0.005	0.004	0.004
-400	0.000	0.031	0.019	0.014	0.010	0.008	0.007	0.005	0.005	0.004	0.003

Show No Degradation

Show Biotransformation

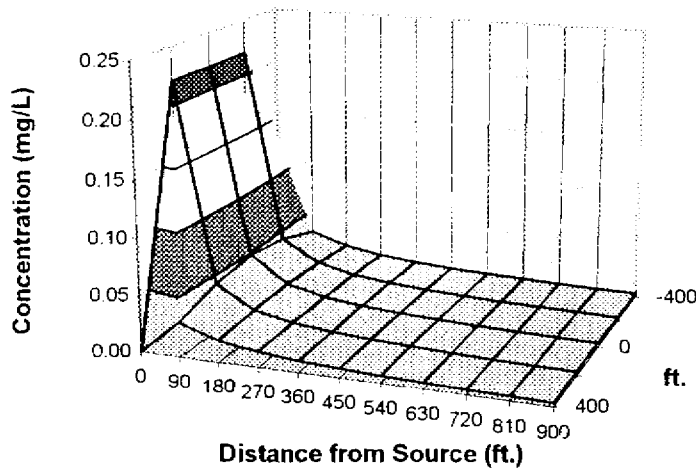
MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons  (Kg) Plume Mass If No Degradation

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft  MGal Current Volume of Ground Water in Plume

MGD Flow Rate of Water Through Source Area

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

East\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.034	0.020	0.013	0.009	0.007	0.005	0.004	0.003	0.003	0.002
200	0.260	0.047	0.024	0.015	0.010	0.007	0.005	0.004	0.003	0.003	0.002
0	0.260	0.053	0.025	0.015	0.010	0.007	0.006	0.004	0.003	0.003	0.002
-200	0.260	0.047	0.024	0.015	0.010	0.007	0.005	0.004	0.003	0.003	0.002
-400	0.000	0.034	0.020	0.013	0.009	0.007	0.005	0.004	0.003	0.003	0.002

Show No Degradation  
 Show Biotransformation

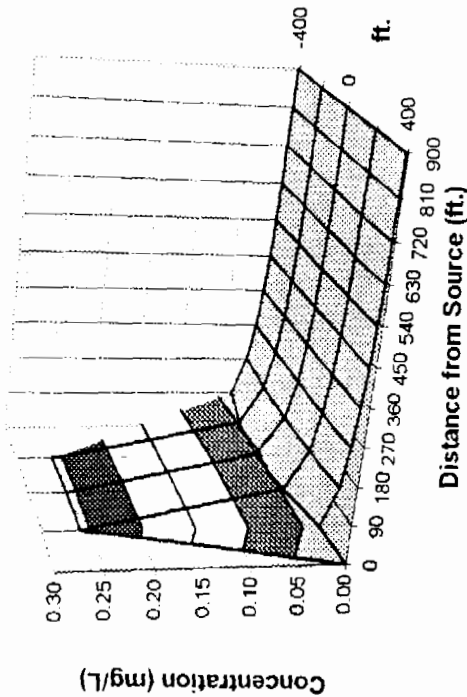
Time:  yr

Target Level:  mg/L

Displayed Model:  Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons  (Kg)  
 - Plume Mass If Biotransformation/Production  (Kg)  
 Mass Removed  (Kg)  
 % Biotransformed =   
 % Change in Mass Flux = #VALUE! (source to edge)  
 Current Volume of Ground Water in Plume  MGal  
 Flow Rate of Water Through Source Area  MGD  
 Compare to Pump and Treat  
 # Pore Volumes Removed Per Yr.   
 # Pore Volumes to Clean-Up   
 Pumping Rate  (gpm)  
 Clean-Up Time  (yr)



Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_UGA\_Max conc\_30\_yr.xls

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001
200	0.000	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001
0	0.000	0.004	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.001
-200	0.000	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001
-400	0.000	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001

Show No  
Degradation

Show  
Biotransformation

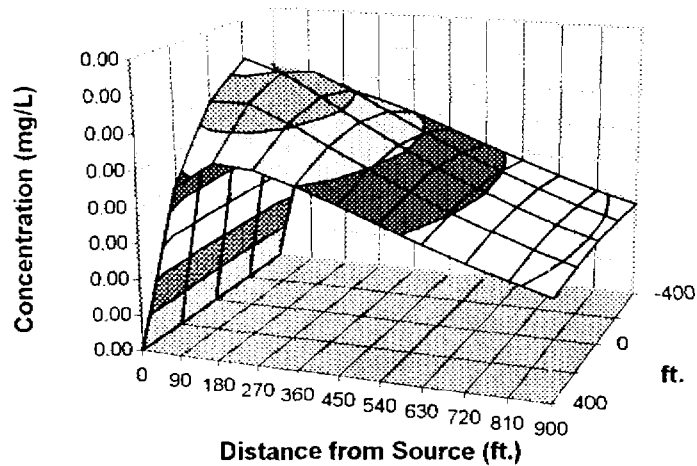
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux = #VALUE! (source to edge)

See acre. ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
200	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
0	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
-200	0.009	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
-400	0.000	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001

Show No  
Degradation

Show  
Biotransformation

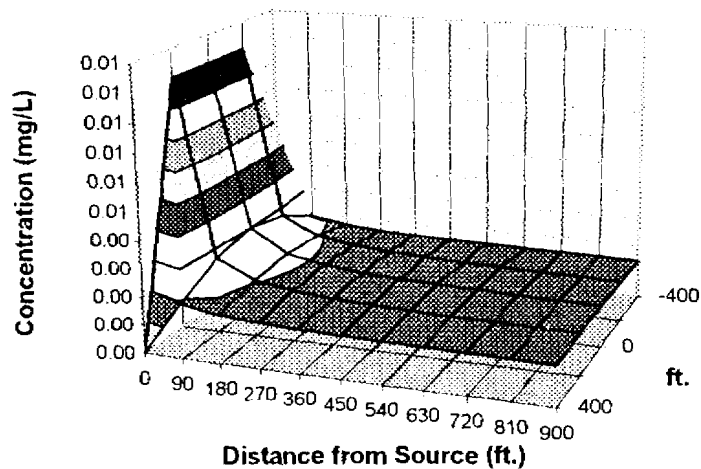
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse  
Distance (ft)

Distance from Source (ft)

	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

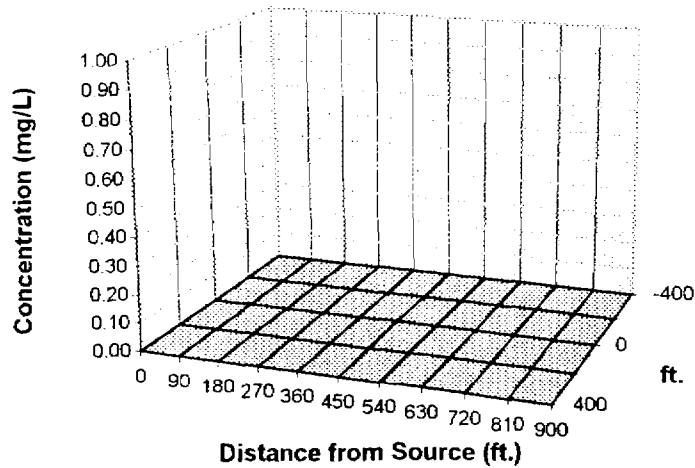
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_UGA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP



# DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)

Distance (ft)	0	90	180	270	360	450	540	630	720	810	900
400	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
200	0.009	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
0	0.009	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
-200	0.009	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
-400	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000

Show No Degradation

Show Biotransformation

Displayed Compound: **ETH**

Target Level:  mg/L

Displayed Model: **No Degradation**

Time:  yr

MASS FLUX (mg/day)

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = **#VALUE!** (source to edge)

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

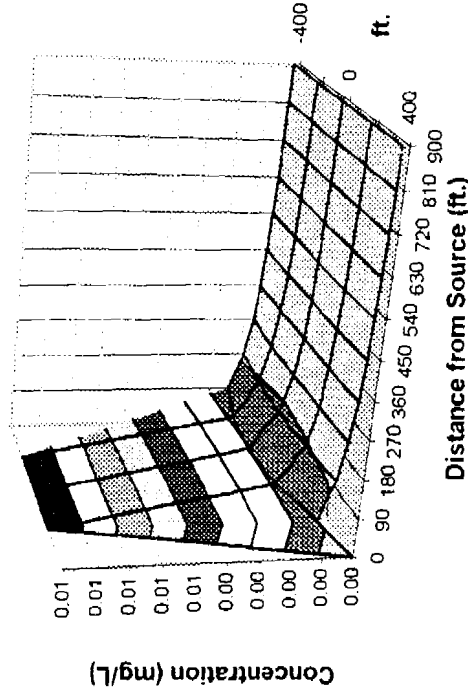
# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up  (yr)

Clean-Up Time  (yr)

if "Can't Calc." make model area longer

See acre ft



Plot All Data Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_UGA\_Max conc\_30\_yr.xls

Lawler, Matusky & Skelly Engineers LLP

**Eastern Plume: Magothy Aquifer**

# BIOCHLOR Natural Attenuation Decision Support System

Version 1.0

NYSDEC  
NCIA SITE  
Run Name

## Data Input Instructions:

1. Enter value directly... or
  2. Calculate by filling in gray cells. Press Enter, then
- (To restore formulas, hit "Restore Formulas" button)
- Variable\* - Data used directly in model.

TYPE OF CHLORINATED SOLVENT:

Ethenes   
Ethanes

### 1. ADVECTION

Seepage Velocity\* Vs 177.2 (ft/yr)  
 or  
 Hydraulic Conductivity K 1.8E-02 (cm/sec)  
 Hydraulic Gradient i 0.00146 (ft/ft)  
 Effective Porosity n 0.15 (-)

### 2. DISPERSION

Alpha x Calc. Method 780 (ft)  
 (Alpha y) / (Alpha x) 0.705 (-)  
 (Alpha z) / (Alpha x) 1.E-01 (-)  
 Change Alpha x Calc. Method

### 3. ADSORPTION

Retardation Factor\* R  
 or  
 Soil Bulk Density, rho 2 (kg/L)  
 Fraction Organic Carbon, f<sub>oc</sub> 1.5E-3 (-)  
 Partition Coefficient K<sub>oc</sub>  
 PCE 426 (L/kg) 9.5 (-)  
 TCE 130 (L/kg) 3.6 (-)  
 DCE 125 (L/kg) 3.5 (-)  
 VC 30 (L/kg) 1.6 (-)  
 ETH 302 (L/kg) 7.0 (-)

Common R (used in model)\* = 3.6

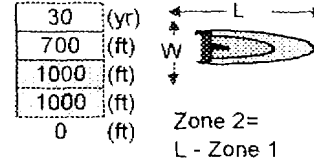
### 4. BIOTRANSFORMATION

-1st Order Decay Coef\*

Zone	Solute	λ (1/yr)	half-life (yrs)	Yield*
Zone 1	PCE	0.635		0.79
	TCE	0.475		0.74
	DCE	1.740		0.64
	VC	1.360		0.45
Zone 2	PCE	0.000		
	TCE	0.000		
	DCE	0.000		
	VC	0.000		
	ETH	0.000		

### 5. GENERAL

Simulation Time\* 30 (yr)  
 Modeled Area Width\* 700 (ft)  
 Modeled Area Length\* 1000 (ft)  
 Zone 1 Length\* 1000 (ft)  
 Zone 2 Length\* 0 (ft)  
 Zone 2 = L - Zone 1



### 6. SOURCE DATA

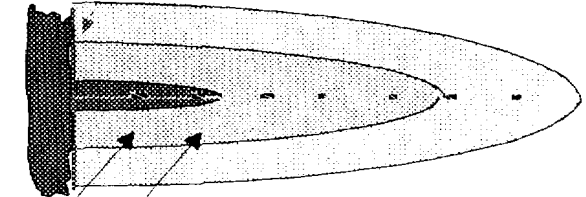
Source Options TYPE: Single Planar

Source Thickness in Sat. Zone\* 100 (ft)

Width\* (ft) 500

Conc. (mg/L)*	C1
PCE	1.1
TCE	1.8
DCE	1.7
VC	0.06
ETH	0.01

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

### 7. FIELD DATA FOR COMPARISON

	1.1	0.09	15	0.06	0.1					
PCE Conc. (mg/L)	1.1	0.09	15	0.06	0.1					
TCE Conc. (mg/L)	1.8	0.1	0.98	0.03	0.41					
DCE Conc. (mg/L)	1.7	0.16	0.17	5	0.06					
VC Conc. (mg/L)	0.1				0.06					
ETH Conc. (mg/L)	0.0		0.01		0.01					
Dist. from Source (ft)	0	600	1050	1350	1750					

### 8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Restore Formulas

RESET

SEE OUTPUT

Paste Example

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

Transverse Distance (ft)	Distance from Source (ft)										
	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.200	0.106	0.065	0.043	0.030	0.022	0.016	0.012	0.009	0.007
140	1.100	0.249	0.119	0.071	0.046	0.032	0.023	0.017	0.013	0.010	0.007
0	1.100	0.268	0.124	0.073	0.047	0.032	0.023	0.017	0.013	0.010	0.007
-140	1.100	0.249	0.119	0.071	0.046	0.032	0.023	0.017	0.013	0.010	0.007
-280	0.000	0.200	0.106	0.065	0.043	0.030	0.022	0.016	0.012	0.009	0.007

Show No Degradation   
 Show Biotransformation

Time:  yr      Target Level:  mg/L      Displayed Model:       Displayed Compound:

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  [source to edge]

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

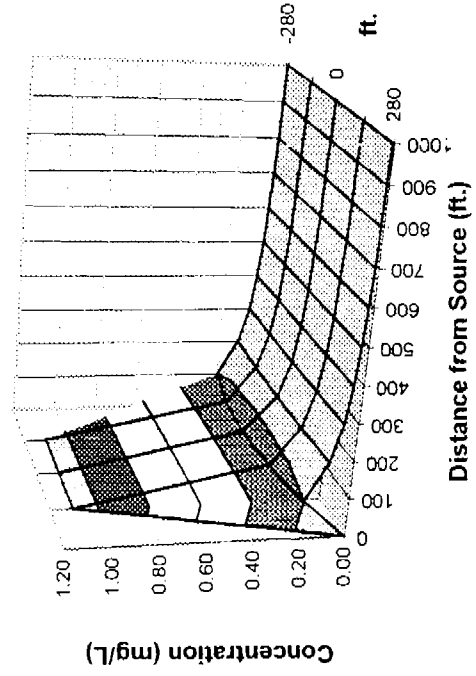
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Plot All Data      Plot Data > Target      Mass HELP      To Centerline      Return to Input

East\_MA\_Max conc\_30\_yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.354	0.202	0.133	0.095	0.071	0.055	0.043	0.034	0.028	0.023
140	1.800	0.441	0.228	0.145	0.101	0.075	0.057	0.045	0.035	0.028	0.023
0	1.800	0.475	0.237	0.149	0.103	0.076	0.058	0.045	0.036	0.029	0.023
-140	1.800	0.441	0.228	0.145	0.101	0.075	0.057	0.045	0.035	0.028	0.023
-280	0.000	0.354	0.202	0.133	0.095	0.071	0.055	0.043	0.034	0.028	0.023

Show No  
Degradation

Show  
Biotransformation

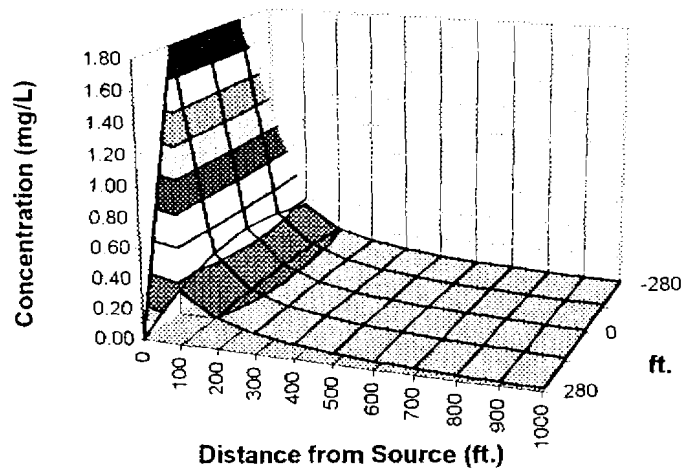
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre. n

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_MA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.285	0.141	0.081	0.051	0.034	0.024	0.017	0.013	0.010	0.008
140	1.700	0.355	0.159	0.088	0.055	0.036	0.025	0.018	0.013	0.010	0.008
0	1.700	0.383	0.165	0.091	0.056	0.037	0.026	0.018	0.013	0.010	0.008
-140	1.700	0.355	0.159	0.088	0.055	0.036	0.025	0.018	0.013	0.010	0.008
-280	0.000	0.285	0.141	0.081	0.051	0.034	0.024	0.017	0.013	0.010	0.008

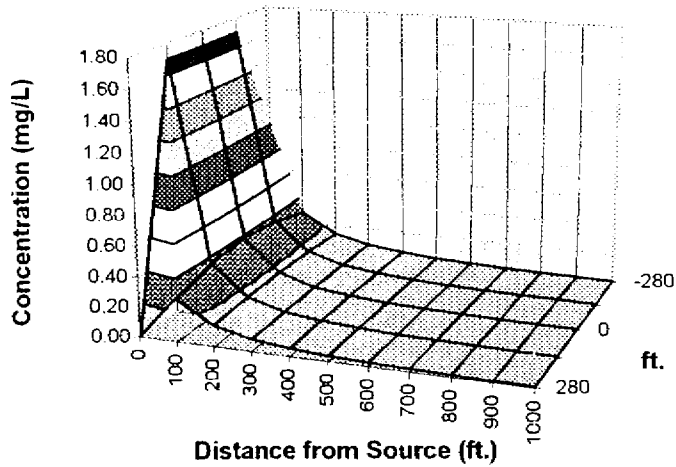
- Show No Degradation
- Show Biotransformation

MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

- 

- 

East\_MA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.039	0.037	0.032	0.026	0.021	0.017	0.014	0.012	0.009	0.008
140	0.006	0.048	0.042	0.035	0.028	0.023	0.018	0.015	0.012	0.010	0.008
0	0.006	0.052	0.044	0.036	0.029	0.023	0.019	0.015	0.012	0.010	0.008
-140	0.006	0.048	0.042	0.035	0.028	0.023	0.018	0.015	0.012	0.010	0.008
-280	0.000	0.039	0.037	0.032	0.026	0.021	0.017	0.014	0.012	0.009	0.008

Show No  
Degradation

Show  
Biotransformation

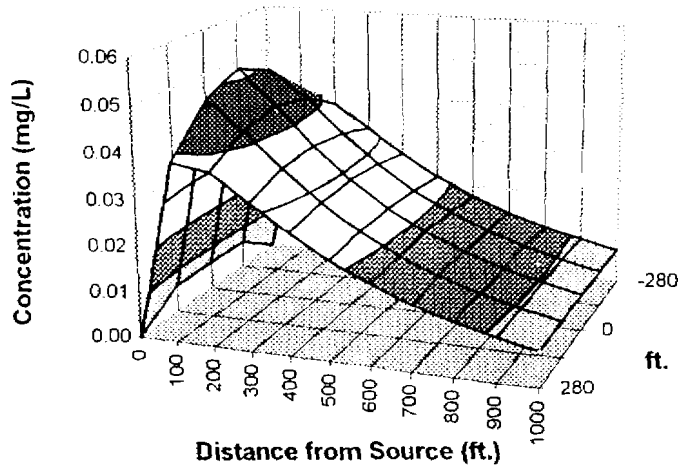
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

---

See acre. ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

---

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

East\_MA\_Max conc\_30 yr.xls

Mass HELP

To Centerline

Return to Input

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- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)

	Distance from Source (ft)											
	0	100	200	300	400	500	600	700	800	900	1000	
280	0.000	0.015	0.019	0.020	0.021	0.020	0.020	0.019	0.018	0.017	0.016	
140	0.001	0.019	0.021	0.022	0.022	0.021	0.021	0.020	0.019	0.018	0.017	
0	0.001	0.020	0.022	0.023	0.022	0.022	0.021	0.020	0.019	0.018	0.017	
-140	0.001	0.019	0.021	0.022	0.022	0.021	0.021	0.020	0.019	0.018	0.017	
-280	0.000	0.015	0.019	0.020	0.021	0.020	0.020	0.019	0.018	0.017	0.016	

Show No Degradation

Show Biotransformation

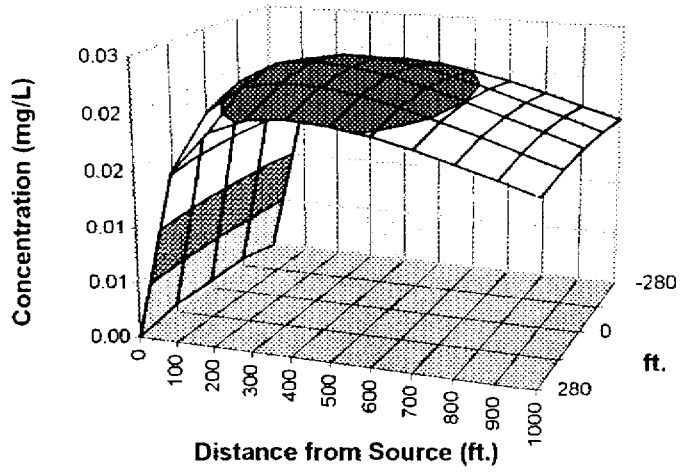
MASS FLUX (mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound:



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc." make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_MA\_Max conc\_30 yr.xls

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### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

- Start Here →
- PCE
  - TCE
  - DCE
  - VC
  - ETH

Transverse  
Distance (ft)

Distance from Source (ft)

	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-140	0.006	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-280	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Show No  
Degradation

Show  
Biotransformation

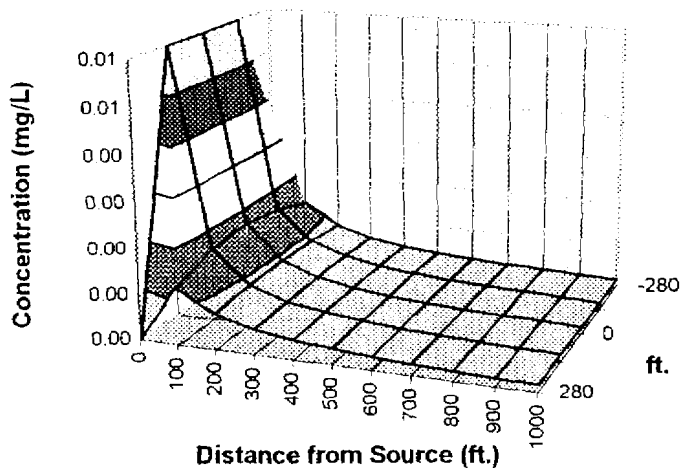
MASS  
FLUX  
(mg/day)

Time:  yr

Target Level:  mg/L

Displayed Model:

Displayed Compound



#### Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

- Plume Mass If Biotransformation/Production  (Kg)

---

Mass Removed  (Kg)

If "Can't Calc.", make model area longer

% Biotransformed =

% Change in Mass Flux =  (source to edge)

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)

Plot All Data

Plot Data > Target

Mass HELP

To Centerline

Return to Input

East\_MA\_Max conc\_30 yr.xls

Lawler, Matusky & Skelly Engineers LLP

Start Here →  PCE  
 TCE  
 DCE  
 VC  
 ETH

### DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft)	Distance from Source (ft)										
	0	100	200	300	400	500	600	700	800	900	1000
280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-140	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Time:  yr

Target Level:  mg/L

Displayed Model:   Displayed Compound

Show No Degradation

Show Biotransformation

Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation  (Kg)

Plume Mass If Biotransformation/Production  (Kg)

Mass Removed  (Kg)

% Biotransformed =  %

% Change in Mass Flux = #VALUE! [source to edge]

ff "Carit Calc." make model area longer

See acre-ft

Current Volume of Ground Water in Plume  MGal

Flow Rate of Water Through Source Area  MGD

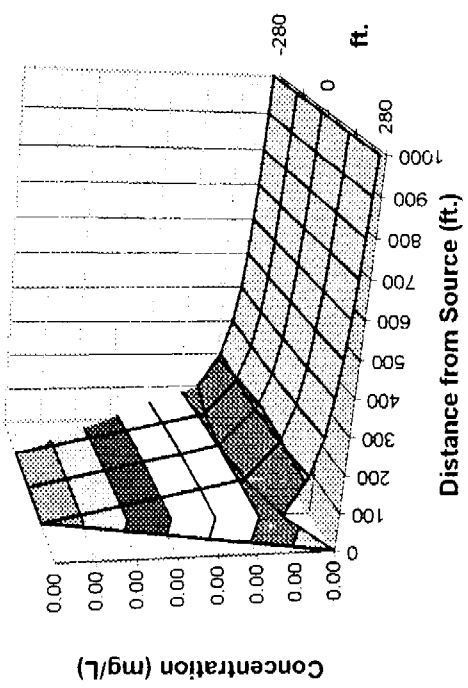
Compare to Pump and Treat

Pumping Rate  (gpm)

# Pore Volumes Removed Per Yr.

# Pore Volumes to Clean-Up

Clean-Up Time  (yr)



Plot All Data  Plot Data > Target

East\_MA\_Max conc\_30 yr.xls

Mass HELP  To Centerline  Return to Input

Lawler, Matusky & Skelly Engineers LLP

**APPENDIX K**

**IN-WELL VAPOR STRIPPING SENSITIVITY ANALYSIS**

**SENSITIVITY ANALYSIS  
OF UVB AND DDC  
IN-WELL VAPOR STRIPPING  
TECHNOLOGIES**

**New Cassel Industrial Area Off-site Groundwater FS**

	UVB <sup>1</sup>	DDC <sup>2</sup>
<b>Number of wells <sup>3</sup></b>	13	19
<b>Cost per well <sup>4</sup></b>	\$75,000	\$60,000
<b>Total system well cost</b>	\$975,000	\$1,140,000
<b>Radius of Influence</b>	see notes <sup>5</sup>	175 ft

1 UVB = Unterdruck-Verdampfer-Brunnen.

2 DDC = Density Driven Convection.

3 Analysis based on in-well vapor stripping Alternative 5A (remediation of upper and deep portions of aquifer to NYS Class GA standards) for NCIA off-site groundwater.

4 Costs per well based on quotes received from vendors of UVB and DDC treatment systems.

5 For UVB, radii of influence for 3 types of treatment wells were established:

-shallow UVB well = 175 ft.

-deep UVB well = 325 ft

-containment wall UVB well = 500 ft

**APPENDIX L**

**EVALUATION OF LOCAL AND CENTRAL VAPOR TREATMENT  
FACILITIES FOR IN-WELL VAPOR STRIPPING AND PUMP & TREAT  
GROUNDWATER REMEDIATION TECHNOLOGIES**

## **Evaluation of Local and Central Vapor Treatment Facilities for In-Well Vapor Stripping and Groundwater Extraction/Air Stripping (Pump and Treat) Groundwater Remediation Technologies**

### ***Introduction.***

Conceptual design and cost evaluations have been conducted by Lawler, Matusky & Skelly Engineers LLP (LMS) for two groundwater remediation technologies, in-well vapor stripping and groundwater extraction/air stripping ("pump and treat"). In-well vapor stripping, an emerging treatment technology, acts by removing contaminants (e.g., volatile organic compounds [VOCs]) from the groundwater within a series of stripper wells (i.e., in-situ treatment), transferring the contaminants to the vapor phase above the water level in each treatment well, and then extracting the contaminated vapor from the subsurface for subsequent treatment. Groundwater extraction and air stripping is a remedial technology that has been performed at numerous inactive hazardous waste sites. It utilizes extraction wells to remove contaminated groundwater from the subsurface. Contaminants such as VOCs can typically be removed from the extracted groundwater at the ground surface via a range of treatment processes (i.e., liquid phase treatment [precipitation, carbon adsorption, etc.] or vapor phase treatment [carbon adsorption, oxidation, etc.]). The following evaluation compares treatment and system control facilities for the two groundwater remediation technologies, in terms of conceptual layout and costs. For purposes of this assessment, it is assumed that vapor phase treatment of VOC-contaminated groundwater is conducted.

### ***In-Well Vapor Stripping.***

Analyses of conceptual designs and costs have previously been evaluated for the in-well vapor stripping groundwater treatment technology. Literature reviews and feasibility study evaluations have been conducted. Although a few different configurations exist, this evaluation focuses on the Unterdruck-Verdampfer-Brunnen (UVB) in-well vapor stripping system. However, this analysis can generally be applied to the overall in-well vapor stripping technology.

Evaluations have shown that the utilization of multiple system control/vapor phase treatment vaults (that can be placed in the subsurface near each stripper well at a contaminated site) is both more economical and practical for an overall groundwater treatment approach when compared to utilizing a single, large central control/treatment building to treat all contaminated vapor generated from all of the stripper wells at a given site. For instance, a comparison of two in-well vapor stripping systems, one that utilized nine stripper wells and nine local control/treatment vaults and another that had a central control/treatment building, was conducted for a particular site. The remedial objectives, clean-up to NYS Class GA groundwater standards, were assumed for both scenarios. It was found that the system employing the local treatment vaults were 15 – 20% less expensive than the scenario that used central treatment. In addition, as the in-well vapor stripping technology is an in-situ process that extracts only contaminated vapor from the subsurface for subsequent treatment (i.e., groundwater is not extracted for the subsurface), small, local control and vapor treatment systems (i.e., granular activated

carbon vessels) can be housed in small, subsurface vaults adjacent to each well head. This scenario can result in huge economic savings over centralized vapor treatment, as the construction of a large central treatment facility (i.e., construction, land acquisition, maintenance) that is capable of processing contaminated vapor from all of the stripper wells at a site can be very expensive. As an example, for the site scenarios with nine stripper wells (noted above), it was found that one local treatment vault would occupy approximately 150 sf in land area (hence allowing "low-profile", subsurface vault construction), while the central treatment building was estimated to be well over 1500 sf and require above ground construction and a relatively large amount of land acquisition. Also, the cost of installing subsurface trenches for air injection, vapor extraction, and system control lines from a central treatment building to each of the stripper wells at the site (e.g., approximately 8000 l.f. for the nine well scenario described above) is typically much more expensive than the installation of small subsurface control/treatment vaults (minor trenching) near each well head. Logistically, the installation of a large, central vapor treatment/system control center and extensive trenching may meet with local regulatory and public opposition. Conversely, the local vaults are "low-profile" and can be designed to blend with the surroundings. In addition, a given site may not have land that is accessible or available to construct an above ground treatment building, and topography and access issues may limit or prevent trenching in certain areas. The small control/treatment vaults can often be placed in existing streets or rights-of-way. Thus, multiple local system control and treatment vaults are an economical and practical option for in-well vapor stripping remediation systems.

#### ***Pump & Treat.***

As noted, analyses of conceptual designs and costs have also been evaluated for the groundwater extraction/air stripping treatment (pump and treat) technology through literature reviews and feasibility studies.

Previous feasibility studies have shown that utilizing a central, above ground vapor phase treatment facility at a site is typically more economical and practical when compared to utilizing multiple, local treatment buildings to treat all contaminated vapor generated from all of the extraction wells. [Note that pump and treat is an ex-situ technology that requires several system and treatment controls and large areas for the processing of both contaminated groundwater and vapor. Additionally, subsequent to treatment the extracted groundwater is re-injected to the subsurface through a series of wet wells that also require land area. Thus, unlike in-well vapor stripping, installation and use of small, local treatment vaults is not viable.] A comparison of two pump and treat systems, one that utilized eleven groundwater extraction wells and a single, central treatment building and the other employing eleven extraction wells with three local treatment buildings (i.e., same site and remedial goals), showed that the configurations employing central treatment were about 20% less expensive than systems employing local treatment.

As mentioned above, a single central treatment building that houses the pump and treat system controls, along with the numerous stages of water and vapor treatment components, can be quite large and require significant land acquisition. The building must also be capable of handling and processing significant quantities of groundwater

from all of the extraction wells at a site. In addition, groundwater re-injection wells (wet wells) that are commonly placed in the immediate vicinity of the treatment building also require additional land area. For the pump and treat scenario that considers multiple, local control/treatment buildings, each of the facilities would need to be large enough to handle groundwater and contaminated vapor generated from some of the extraction wells at the site. Even if only a few extraction wells are serviced by a given local treatment building, the building still needs to be large enough to house the process equipment necessary to treat the groundwater and vapor. Thus, the number of multiple, localized pump and treat control/treatment buildings that could be constructed is governed by the costs of such buildings (i.e., the greater the number of local treatment facilities considered, the lower the costs associated with trenching but the higher the costs associated with land acquisition and building construction). The evaluation for the two pump and treat alternatives discussed above (central vs. local treatment) showed that the system with the central control/treatment facility required one 4000 sf building and six 8 ft diameter wet wells. The same pump and treat scenario with the central treatment option required over 9000 l.f. of subsurface trenching. The total capital cost for the central building, groundwater treatment equipment, wet wells, and trenching was approximately \$1.7 million. The local treatment scenario had three local treatment buildings of 3200, 2400, and 2000 sf (total building area of 7600 sf), a total of eight 8 ft diameter wet wells, and about 9000 l.f. of trenching. The total capital cost for the three buildings, groundwater treatment equipment, wet wells, and trenching was about \$2.5 million. However, these estimated capital costs do not consider the costs associated with land acquisition, permitting, and other administrative issues, all of which would be anticipated to be much greater for the local control/treatment scenario (three buildings) than for the central control/treatment option (one building). Thus a single, central system control and treatment system is an economical and practical option for pump and treat remediation systems.

### ***Conclusions.***

As shown, based on previous studies of two groundwater treatment technologies, local vapor phase treatment generally appears to be the most practical and economic option for in-well vapor stripping, and centralized vapor phase treatment generally seems to be the optimal alternative for pump and treat systems. However, as factors such as remedial objectives, hydrogeology and geology, topography, regulatory and public involvement, and land use and access can differ at each site, the ultimate design of in-well vapor stripping and pump and treat groundwater remediation systems should consider all site-specific factors.