

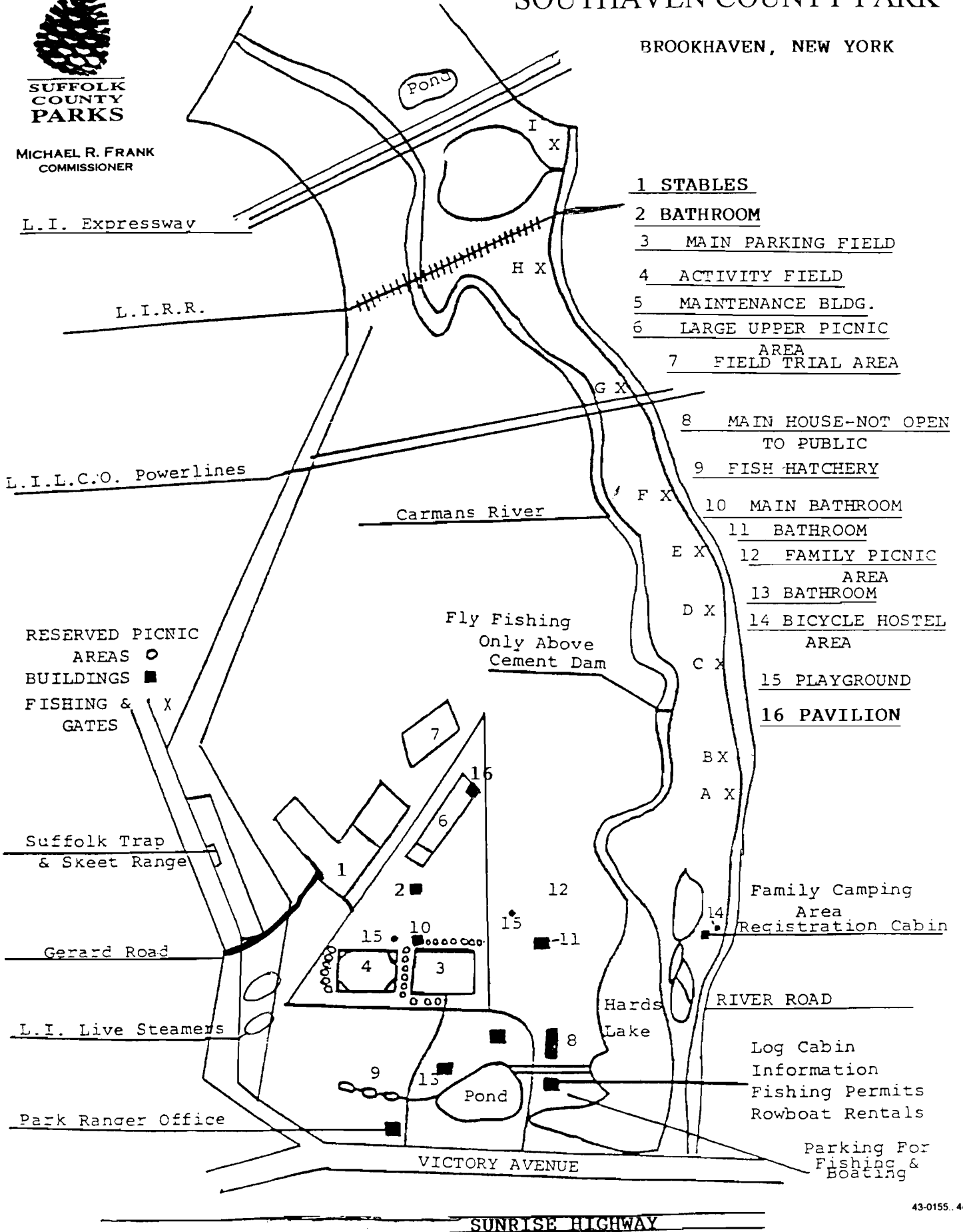


SUFFOLK COUNTY PARKS

MICHAEL R. FRANK
COMMISSIONER

SOUTHAVEN COUNTY PARK

BROOKHAVEN, NEW YORK



43-0155..4/99

PARK OFFICE 854-1414

ROBERT J. GAFFNEY
SUFFOLK COUNTY EXECUTIVE

EMERGENCY TELEPHONE 854-1422

S O U T H A V E N P A R K

R E S E R V E D

P I C N I C

A R E A

LARGE
UPPER
PICNIC
AREA

1,000⁺ Person
Capacity
400 Person
Minimum

PAVILION

BATHROOM

50 Per Area 1-7 and 14-22
150 Per Area 8-13

Playground

BATHROOM

7 6 5 4 3 2 1

22
21
20
19
18
17

ACTIVITY
FIELD

8
9
10
11
12
13

PARKING FIELD

ONE WAY



14 15 16

FAMILY
PICNIC
AREA

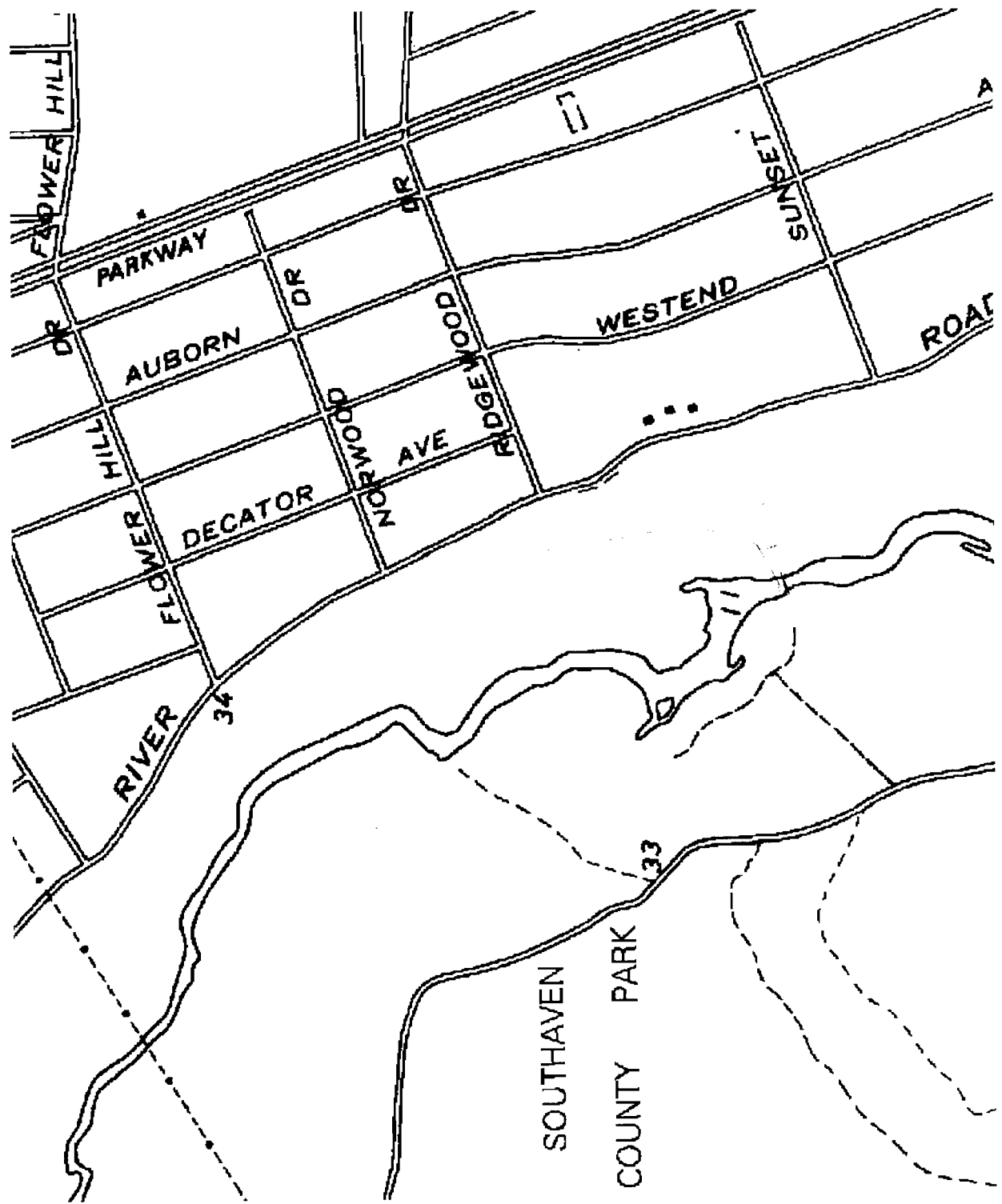
X X
XXXX
X

RANGER
OFFICE



VICTORY AVENUE

PARKING



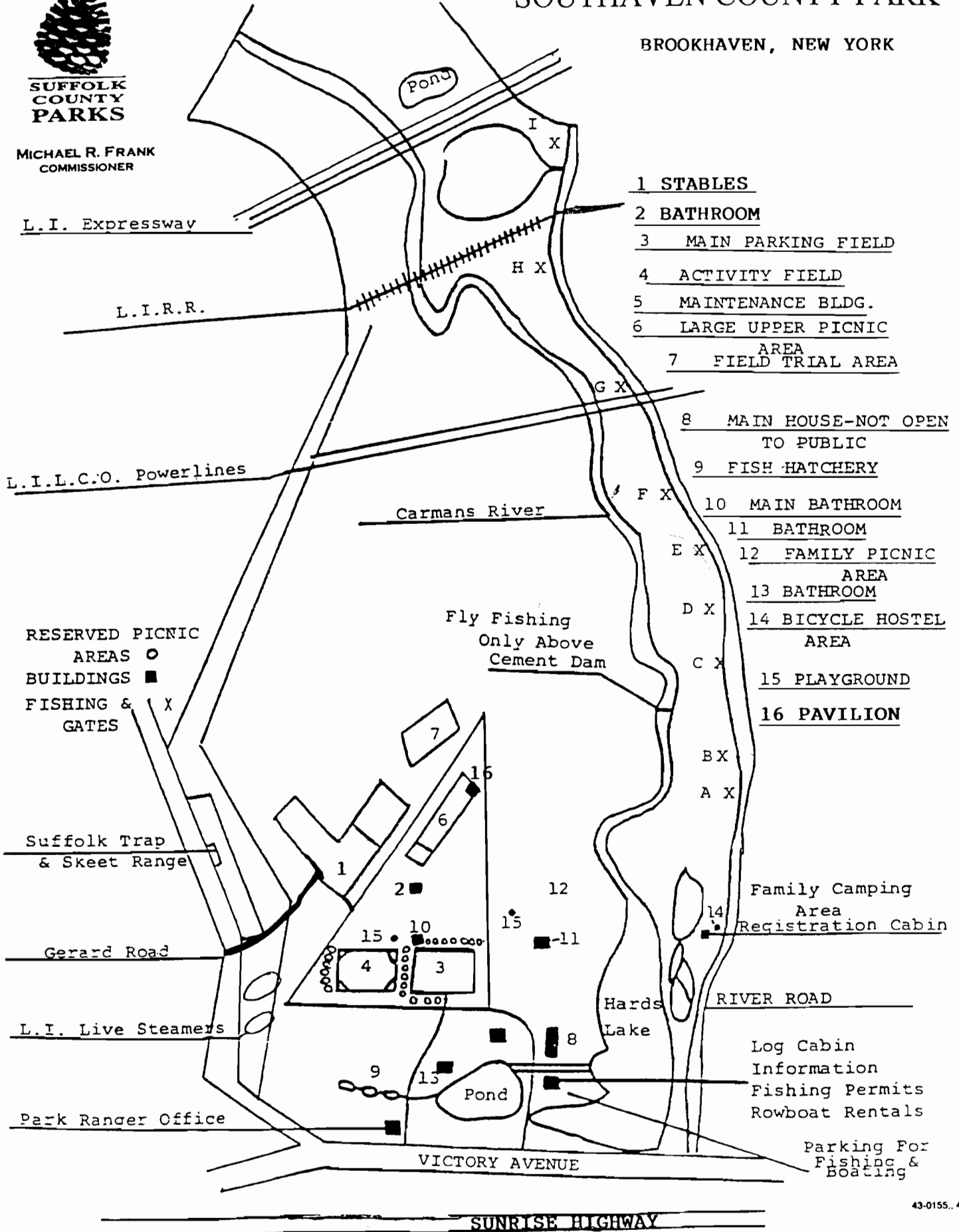


SUFFOLK COUNTY PARKS

MICHAEL R. FRANK
COMMISSIONER

SOUTHAVEN COUNTY PARK

BROOKHAVEN, NEW YORK



- 1 STABLES
- 2 BATHROOM
- 3 MAIN PARKING FIELD
- 4 ACTIVITY FIELD
- 5 MAINTENANCE BLDG.
- 6 LARGE UPPER PICNIC AREA
- 7 FIELD TRIAL AREA
- 8 MAIN HOUSE-NOT OPEN TO PUBLIC
- 9 FISH HATCHERY
- 10 MAIN BATHROOM
- 11 BATHROOM
- 12 FAMILY PICNIC AREA
- 13 BATHROOM
- 14 BICYCLE HOSTEL AREA
- 15 PLAYGROUND
- 16 PAVILION

RESERVED PICNIC AREAS ○
 BUILDINGS ■
 FISHING & GATES X

Fly Fishing Only Above Cement Dam

Family Camping Area
 Registration Cabin

Log Cabin
 Information
 Fishing Permits
 Rowboat Rentals

Parking For Fishing & Boating

12:45 Setup of GP-10

GP-10 Water table @ 16' G⁴

13:00 GP-10 - 16

13:05 GP-10 - 26

13:15 GP-10 - 36

Gas hydraulic track

Hydraulic coil everywhere

11/9/01 9:05

arrive at Southham Park for
surface water and sediment
sampling

SW-01 collected from river
in approximately access from
Flower Hill Rd

SW-02 SEP-01 Collected from
approximately 100 yd South
of SW-01

SW-03 Collected at wooden weir

SW-04, SEP-02 Collected from blind #9
Near Gate D

SW-05 Collected from upstream side
of concrete Dam,
MS/M50 Also Collected

VOA RESULTS

SITENAME PRECISION CONCEPTS

SDG: 313-02

PROJECT MANAGER: MACCABE,M.

Date: 11/23/01

THESE SAMPLES HAVE BEEN COMPLETED WITH ALL QUALITY CONTROL PARAMATERS SATISFACTORY.

Organics Data Qualifiers

U - Compound not detected

J - Compound quantitation less than the sample quantitation limit but greater than zero, also used to qualify tentatively identified compounds (TICs). In both cases these are estimated values

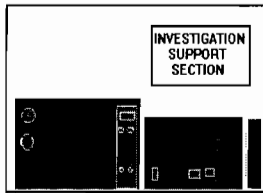
B - Compound found in the extraction prep blank

E - Estimated value, concentration exceeds the instrument calibration range

D - Diluted sample

N - Indicates presumptive evidence of a compound

P - This flag is used for a pesticide/PCB target analyte where there is greater than 25 % difference for the detected concentrations between two GC columns. The lower of the two values is reported on Form - 1.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01

SDG No.: 313-02

TRIP BLANK

Matrix: (soil/water) WATER Date Received: 11/09/01

Lab Sample ID: 101-313-13

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1313.D

GC Column: ZB624 ID: 0.25 (mm)

Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N

Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

TRIP BLANK

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-13

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1313.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

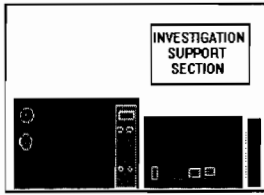
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01 SDG No.: 313-02

SW-01

Matrix: (soil/water) WATER Date Received: 11/09/01 Lab Sample ID: 101-313-06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 01C1314.D

GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SW-01

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-06

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1314.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

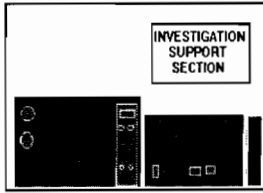
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF ENVIRONMENTAL REMEDIATION
 LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

SW-02

Site Code: 152158 Date Collected: 11/9/01 SDG No.: 313-02

Matrix: (soil/water) WATER Date Received: 11/09/01 Lab Sample ID: 101-313-07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 01C1315.D

GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	46	
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SW-02

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-07

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1315.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

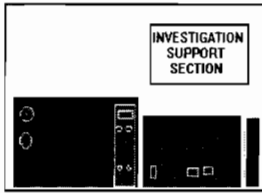
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01

SDG No.: 313-02

SW-03

Matrix: (soil/water) WATER Date Received: 11/09/01

Lab Sample ID: 101-313-08

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1316.D

GC Column: ZB624 ID: 0.25 (mm)

Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N

Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	J
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SW-03

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-08

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1316.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

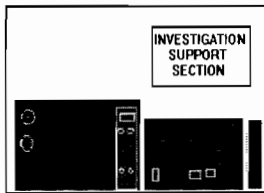
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01 SDG No.: 313-02

SW-04

Matrix: (soil/water) WATER Date Received: 11/09/01 Lab Sample ID: 101-313-09

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 01C1317.D

GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SW-04

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-09

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1317.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

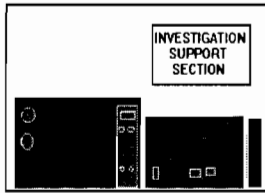
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01

SDG No.: 313-02

SW-05

Matrix: (soil/water) WATER Date Received: 11/09/01

Lab Sample ID: 101-313-10

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1318.D

GC Column: ZB624 ID: 0.25 (mm)

Date Analyzed: 11/13/01

% Moisture: _____ decanted:(Y/N) N

Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SW-05

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) WATER

Lab Sample ID: 101-313-10

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: 01C1318.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. _____

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

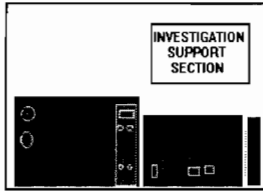
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158 Date Collected: 11/9/01

SDG No.: 313-02

SED-01

Matrix: (soil/water) SOIL Date Received: 11/09/01

Lab Sample ID: 101-313-11

Sample wt/vol: 7.0 (g/ml) G

Lab File ID: 01C1320.D

GC Column: ZB624 ID: 0.25 (mm)

Date Analyzed: 11/13/01

% Moisture: 17 decanted:(Y/N) N

Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	9	U
74-87-3	Chloromethane	9	U
75-01-4	Vinyl Chloride	9	U
74-83-9	Bromomethane	9	U
75-00-3	Chloroethane	9	U
75-69-4	Trichlorofluoromethane	9	U
75-35-4	1,1-Dichloroethene	9	U
75-15-0	Carbon Disulfide	9	U
67-64-1	Acetone	9	U
75-09-2	Methylene Chloride	9	U
1634-04-4	methyl-tert butyl ether	9	U
540-59-0	trans 1,2-Dichloroethene	9	U
75-34-4	1,1-Dichloroethane	9	U
108-05-4	Vinyl acetate	9	U
540-59-0	cis 1,2-Dichloroethene	9	U
78-93-3	2-Butanone	9	U
67-66-3	Chloroform	9	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon tetrachloride	9	U
71-43-2	Benzene	9	U
107-06-2	1,2-Dichloroethane	9	U
79-01-6	Trichloroethene	9	U
78-87-5	1,2-Dichloropropane	9	U
75-27-4	Bromodichloromethane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
108-10-1	4-Methyl-2-pentanone	9	U
108-88-3	Toluene	9	U
10061-02-6	trans-1,3-Dichloropropen	9	U
79-00-5	1,1,2-Trichloroethane	9	U
127-18-4	Tetrachloroethene	9	U
591-78-6	2-Hexanone	9	U
124-48-1	Dibromochloromethane	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
1330-20-7	m,p-Xylenes	9	U
1330-20-7	o-Xylene	9	U
100-42-5	Styrene	9	U
75-25-2	Bromoform	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
95-49-8	2-Chlorotoluene	9	U
106-43-4	4-Chlorotoluene	9	U
541-73-1	1,3-Dichlorobenzene	9	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
106-46-7	1,4-Dichlorobenzene	9	U
95-50-1	1,2-Dichlorobenzene	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
87-61-6	1,2,3-Trichlorobenzene	9	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SED-01

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) SOIL

Lab Sample ID: 101-313-11

Sample wt/vol: 7.0 (g/ml) G

Lab File ID: 01C1320.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. 17

Date Analyzed: 11/13/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 1 (uL)

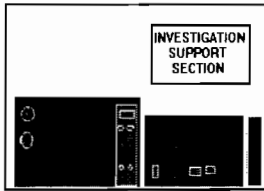
Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

Site Name: PRECISION CONCEPTS

Site Code: 152158

Date Collected: 11/9/01

SDG No.: 313-02

SED-02

Matrix: (soil/water) SOIL Date Received: 11/09/01

Lab Sample ID: 101-313-12R

Sample wt/vol: 5.9 (g/ml) G

Lab File ID: 01C1329.D

GC Column: ZB624 ID: 0.25 (mm)

Date Analyzed: 11/15/01

% Moisture: 23 decanted:(Y/N) N

Dilution Factor: 1.0

CONCENTRATION UNITS:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon Disulfide	11	U
67-64-1	Acetone	11	U
75-09-2	Methylene Chloride	11	U
1634-04-4	methyl-tert butyl ether	11	U
540-59-0	trans 1,2-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
108-05-4	Vinyl acetate	11	U
540-59-0	cis 1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropen	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	m,p-Xylenes	11	U
1330-20-7	o-Xylene	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
95-49-8	2-Chlorotoluene	11	U
106-43-4	4-Chlorotoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

SED-02

Site Name: PRECISION CONCEPTS

Site Code: 152158

SDG No.: 313-02

Matrix: (soil/water) SOIL

Lab Sample ID: 101-313-12R

Sample wt/vol: 5.9 (g/ml) G

Lab File ID: 01C1329.D

Level: (low/med) LOW

Date Received: 11/09/01

% Moisture: not dec. 23

Date Analyzed: 11/15/01

GC Column: ZB624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 1 (uL)

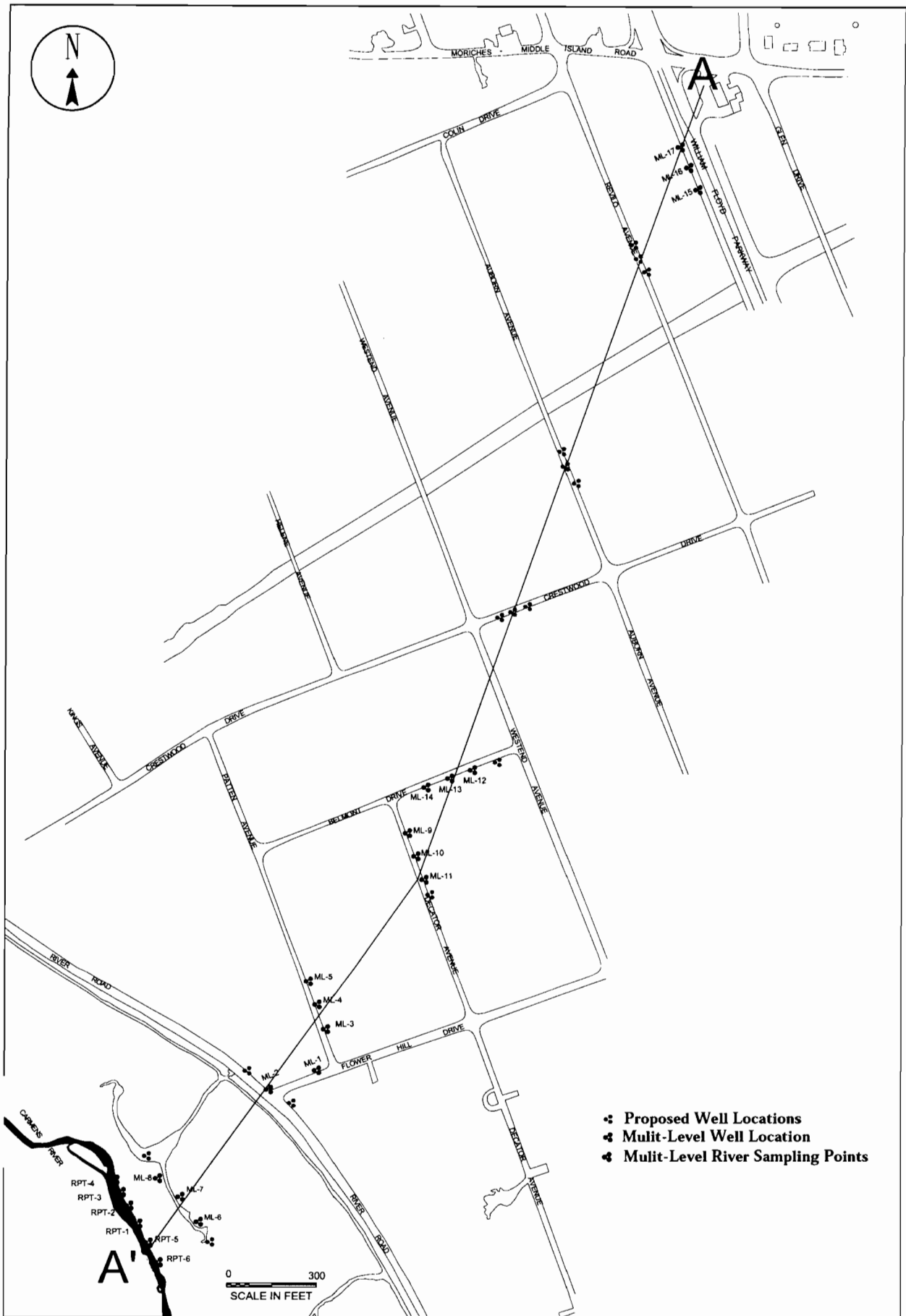
Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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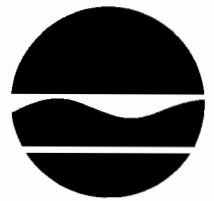


- ⊕ Proposed Well Locations
- ⊕⊙ Multi-Level Well Location
- ⊕⊙ Multi-Level River Sampling Points



Area Map
with
Proposed Multi-Level Well Locations

DEC-YAPHANK
River Rd. & Flower Hill Dr.
NYSDEC Spill # 01-25275



MEMORANDUM

TO: Jim Harrington, Chief, Technology Section

FROM: Michael MacCabe, Environmental Engineer I, Eastern Remedial Action

SUBJECT: Data Validation, Groundwater Investigation, Carmans River, Precision Concepts Site, Site #152158

DATE: February 15, 2001

Attached is the analytical data package for a groundwater investigation that was conducted just up gradient from the Carmans River. The River is down gradient from the Precision Concepts Site and a potential receptor of groundwater contamination.

The investigation was conducted with a NYSDEC standby driller and the data analysis was conducted by H2M, a Department contract lab.

Please have one of the chemists in your section validate the data and provide any comments to me by March 2, 2001. I can be contacted at 79329 if you have any questions

P.O. Box 5000
Upton, NY 11973-5000

*Precision Concepts
1 52 158*

BROOKHAVEN
NATIONAL LABORATORY

managed by Brookhaven Science Associates
for the U.S. Department of Energy



BROOKHAVEN
NATIONAL LABORATORY

BNL's commitment to the environment

*clean it up
and keep it clean*



**Cleaning up
Groundwater**

Dear Neighbor:

We at Brookhaven National Laboratory regret that during past decades groundwater contamination has occurred and moved off of our site. Over the past several years, we have worked hard to begin cleaning up the groundwater both on and off of Laboratory property. This work has included the installation of several treatment systems on Lab property, as well as one system and many groundwater monitoring wells in neighborhoods south of the Laboratory.

Soon, the Laboratory will be installing additional temporary and permanent monitoring wells in these neighborhoods. The sampling data from these wells will be used to locate the treatment systems necessary to complete the groundwater cleanup.

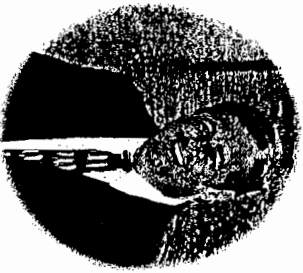
I realize that you may have questions and concerns about this work. We have tried to anticipate many of them and provide the answers here. If you have further questions, please call Ken White at 631-344-4423. Also, Laboratory staff will personally contact residents adjacent to the drilling sites. Eventually, they will also contact those adjacent to the planned treatment unit locations, to provide more information, answer your questions, and get your feedback.

As residents ourselves, we are sensitive to the impact of this work in the neighborhood. We will do everything we can to ensure the job is done safely and quickly and that our work sites are left clean. Again, please feel free to call if you have any questions.

Sincerely,

Les Hill,

Director, Environmental Management
Brookhaven National Laboratory



The manager of BNL's groundwater remediation program explaining Long Island's aquifers.



Elected officials and community members dedicating the first groundwater treatment system off BNL property.



Civic president Jan Schaefer and Congressman Felix Grucci learning about groundwater treatment from BNL staff.

community involvement
extensive sampling
compliance with laws

Cleaning up groundwater

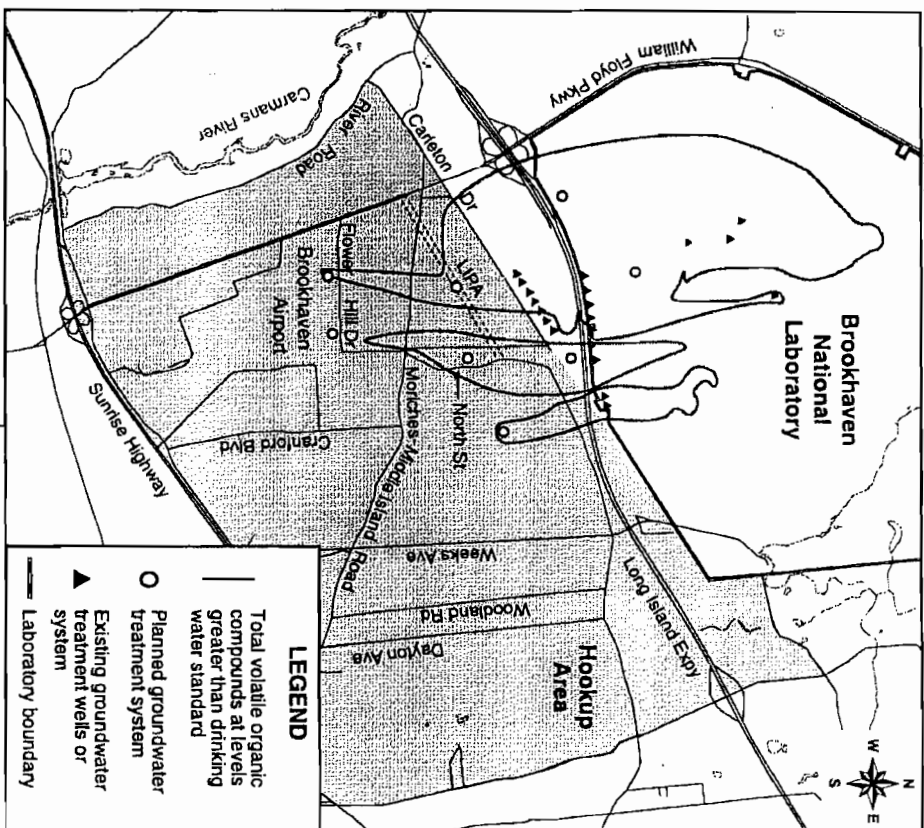
Background

Several years ago, Brookhaven National Laboratory discovered it was responsible for contaminating groundwater off the Laboratory site. As a result of past operations from as far back as World War I when the Lab was Camp Upton, some chemicals have entered the groundwater and moved beyond the Laboratory's southern boundary. These chemicals are known as volatile organic compounds. They are the same as those commonly found in household products such as solvents, fuel oils, polishes, and cleansers.

This has been a concern for both the U.S. Department of Energy and the Laboratory. We have been and will continue to address this issue, seeking and incorporating community input at appropriate points throughout the cleanup process.

Several very important steps already have been taken in our groundwater program:

- Residents to the south of the Lab who did not already have public water were offered connection to the Suffolk County Water Authority supply lines. Approximately 1,500 households accepted this offer.
- On-site sources of contamination such as old tanks and spill areas have been cleaned up to prevent further contamination.
- Hundreds of permanent and temporary sampling wells have been installed on site and to the south. Lab representatives sample these wells routinely to ensure we know where the contamination is located.
- Seven groundwater treatment systems are currently operating (see map). Six are on Lab property and one is in an industrial park south of the Laboratory and north of the Long Island Rail Road. The on-site systems prevent further migration of contaminated groundwater past the Lab boundary.



In cases where it is necessary to remove some vegetation to allow equipment access, Lab staff will contact property owners before the work starts. After drilling is completed, vegetation will be restored.

How will you minimize disruption in the neighborhood?

We realize that issues such as noise, the presence of equipment, and work-site cleanliness are important to you. That is why Laboratory staff will notify residents adjacent to well sites before work begins. If you, or any resident, encounter any problems or have questions, please call Ken White or Bob Howe at the phone numbers provided below.

Crews will work weekdays between 7:30 a.m. and 6:00 p.m., and most wells will be located on vacant property and within town and utility company right-of-ways. Of course, each work-site will be maintained in a safe and orderly condition, with a final clean up when work is completed.

What happens once all the sampling is complete?

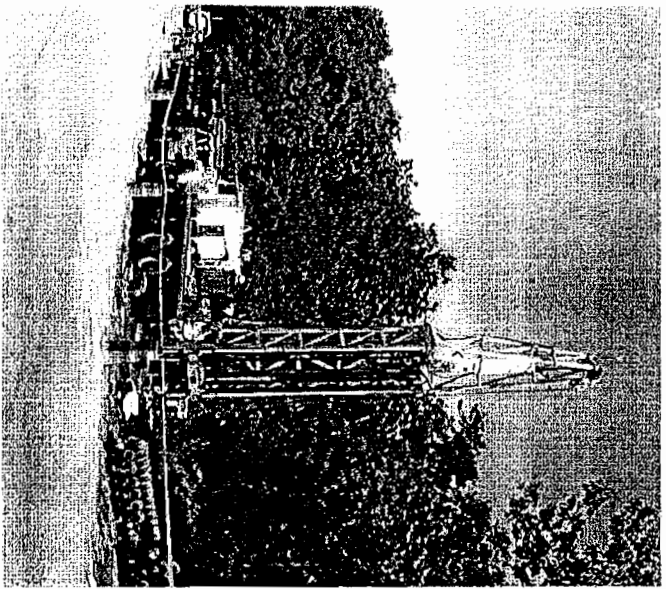
After the wells have been installed and a sufficient number of samples have been collected and analyzed, the Lab will determine the ideal locations for treatment systems. The Laboratory will provide this information to residents and ask them to give input on building locations and aesthetic appearance. A treatment system building is

typically the size of a one- or two-car garage. The exterior can be designed to suit the area. It is anticipated that the treatment systems will be located on vacant or industrial properties and will have minimal impact to the community. We would like



migration of contaminated groundwater past the Lab boundary.

• The Department of Energy worked with agencies that regulate the Laboratory — the Suffolk County Department of Health Services, the New York State Department of Environmental Conservation, and the United States Environmental Protection



Drill rig with 30-foot mast and support truck. Three to five workers will be present during the day. If necessary, security personnel will watch the site at night.

Agency — and came to agreement on how the Department and the Lab should continue the cleanup process. The community helped shape this agreement during the public comment period.

What will happen next?

The agreement made between the Department of Energy and the regulatory agencies defines the work the Lab is required to do by law to clean up the groundwater. Residents adjacent to work sites will be contacted before work starts.

In order for the Lab to meet its responsibilities, these actions must be completed:

- In the summer and fall of 2001, approximately 30 new wells will be installed south of the Laboratory so additional samples can be taken. The wells, both temporary and permanent, will be up to 250 feet deep. Samples from permanent wells will be taken routinely in the same way as with existing Laboratory wells. The information gathered from the samples will help to pinpoint the most effective locations for treatment systems.
- During 2001-02, approximately 15 additional wells will be drilled to sample water from the depths of 250-450 feet. Where possible, drilling will be confined to vacant properties. Occasionally, equipment may have to remain in front of a residence during drilling. This would require blocking off a portion of the street.

Drilling at each location will take place over a limited time. Shallow wells take two to three days, while the deeper wells may take up to four weeks.

the community. We would like these buildings to be as unobtrusive as possible.



Five treatment units will be installed immediately south of the Laboratory (see map). All of the units are planned to be operational by 2006. Once constructed, they will operate for a number of years. The exact length of operation will depend on the results of continued groundwater monitoring. After the groundwater cleanup is complete, the treatment units will be dismantled and removed and the land restored.

Community resident Jerry Minasi touring a treatment system building with BNL staff

Our commitment to the community

The Department of Energy and the Laboratory are committed to integrating community input into groundwater cleanup decisions. Ongoing opportunities for input include presentations at local civic meetings, periodic information sessions and roundtable discussions, and public comment periods on important cleanup documents. Also, presentations are regularly given to the Laboratory Community Advisory Council, which meets the second Thursday of each month. These meetings are open to the public.

Just as important as gathering input is delivering timely groundwater cleanup information to the community. The Laboratory and the Department of Energy accomplish this through fact sheets like this one, as well as the quarterly newsletter *cleanupdate* and the Environmental Restoration Division website at <http://www.bnl.gov/erd>. If you would like to add your name to our mailing list or learn more about public participation activities at the Laboratory, please call Ken White at the number provided below.

The Laboratory also maintains an Administrative Record that contains information used to make cleanup decisions, as well as the Department's responses to community comments. These documents are located at several locations, including the Longwood and Mastics-Morches-Shirley Public Libraries.

If you have any questions or concerns, please contact:

Ken White, Community Involvement Brookhaven National Laboratory 631.344.4423 kwwhite@bnl.gov	Bob Howe, Environmental Restoration Brookhaven National Laboratory 631.344.5588 howe@bnl.gov
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Background information and regular status updates are available online at: <http://www.bnl.gov/erd>

BROOKHAVEN NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION DIVISION

FAX NUMBER (631) 344-5844

If there are any problems, please contact (631) 344-7459

FACSIMILE TRANSMITTAL SHEET

DATE June 6, 2001

TO: Jim Lister

FAX NUMBER: 1-518-457-4198

COMPANY: NYS DEC

FROM: Christine Lafon

NUMBER OF PAGES (INCLUDING COVER SHEET): 5

Next week, pre-design characterization activities will begin in the neighborhood south of Brookhaven Lab. In preparation for this increased visibility, we have developed this fact sheet. It is being mailed to approximately 1,200 households in the vicinity of the planned drilling and sampling. We are also sending copies to CAC and BER members, and will hand it out during door-to-door canvassing of residents nearest the drilling locations.

The mailed version will be on an 11x17 sheet, folded twice, just as we did for the Peconic River sampling results brochure in the fall of 1999. A copy will be mailed to you.

Please call me at 631-344-8192 or Ken White at 631-344-4423 if you have any questions.