

**FOURTH QUARTERLY REPORT
INITIAL YEAR OF GROUNDWATER
TREATMENT FACILITY OPERATION**

VOLUME 2 of 2



SUBMITTED TO:

**TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS**

JULY 1993

FOURTH QUARTERLY REPORT
INITIAL YEAR
OF
GROUNDWATER TREATMENT FACILITY OPERATION

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30104EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/4/93	TIME:	7:58 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.71
BENZENE	ND	0.06
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.01
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.06
DICHLOROBENZENE, p	4.7	0.13
DICHLOROBENZENE, o,m, & p	50	0.27
1,1 DICHLOROETHANE	5	0.06
1,2 DICHLOROETHANE	5	0.06
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.50
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.04
METHYLENE CHLORIDE	5	0.07
TETRACHLOROETHENE	0.7	0.38
TOLUENE	5	0.04
1,1,1 TRICHLOROETHANE	5	0.05
TRICHLOROETHYLENE	5	0.06
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.05
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.07

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	901041A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/4/93	TIME:	8:01 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION* (ug/l)
TOTAL VOCs	100	181.10
BENZENE	ND	3.80
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.80
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.67
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.27
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.92
DICHLOROBENZENE, m	4.7	0.20
DICHLOROBENZENE, p	4.7	1.80
DICHLOROBENZENE, o,m, & p	50	2.92
1,1 DICHLOROETHANE	5	6.84
1,2 DICHLOROETHANE	5	0.35
1,1 DICHLOROETHENE	0.07	0.25
1,2 DICHLOROETHENE, cis	50	31.63
1,2 DICHLOROETHENE, trans	5	0.40
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.10
METHYLENE CHLORIDE	5	3.36
TETRACHLOROETHENE	0.7	110.63
TOLUENE	5	0.22
1,1,1 TRICHLOROETHANE	5	2.94
TRICHLOROETHYLENE	5	8.86
VINYL CHLORIDE	2	4.16
XYLENE, o	5	2.08
XYLENE, m & p	5	0.07
XYLENE, o, m & p	50	2.10

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GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30106EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/6/99	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.90
BENZENE	ND	0.15
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.02
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.11
DICHLOROBENZENE, p	4.7	0.15
DICHLOROBENZENE, o, m, & p	50	0.32
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.15
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.37
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.04
METHYLENE CHLORIDE	5	0.04
TETRACHLOROETHENE	0.7	0.38
TOLUENE	5	0.04
1,1,1 TRICHLOROETHANE	5	0.02
TRICHLOROETHYLENE	5	0.13
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.14
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.16

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ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	901061A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/6/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	252.81
BENZENE	ND	5.85
BROMODICHLOROMETHANE	60 ***	0.00
BROMOFORM	60 ***	1.22
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.10
CHLORODIBROMOMETHANE	60 ***	0.00
CHLOROETHANE	5	2.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.97
DICHLOROBENZENE, m	4.7	0.22
DICHLOROBENZENE, p	4.7	2.78
DICHLOROBENZENE, o,m, & p	60	3.97
1,1 DICHLOROETHANE	5	9.69
1,2 DICHLOROETHANE	5	0.45
1,1 DICHLOROETHENE	0.07	0.39
1,2 DICHLOROETHENE, cis	60	47.65
1,2 DICHLOROETHENE, trans	5	0.48
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	60	0.28
METHYLENE CHLORIDE	5	3.95
TETRACHLOROETHENE	0.7	149.05
TOLUENE	5	0.26
1,1,1 TRICHLOROETHANE	5	3.39
TRICHLOROETHYLENE	5	13.37
VINYL CHLORIDE	2	6.66
XYLENE, o	5	8.17
XYLENE, m & p	5	0.10
XYLENE, o, m & p	60	3.27

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	90108EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/8/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.88
BENZENE	ND	0.07
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.01
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.05
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	0.11
DICHLOROBENZENE, o, m, & p	50	0.20
1,1 DICHLOROETHANE	5	0.08
1,2 DICHLOROETHANE	5	0.08
1,1 DICHLOROETHENE	0.07	0.06
1,2 DICHLOROETHENE, cis	50	0.53
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.14
TETRACHLOROETHENE	0.7	0.38
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	0.02
TRICHLOROETHYLENE	5	0.11
VINYL CHLORIDE	2	0.02
XYLENE, o	5	0.04
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.06

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	901081A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/8/99	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	254.59
BENZENE	ND	5.51
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.11
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.90
CHLORODIBROMOMETHANE	50 ***	0.08
CHLOROETHANE	5	1.80
CHLOROFORM	100 ***	0.36
DICHLOROBENZENE, o	4.7	0.92
DICHLOROBENZENE, m	4.7	0.27
DICHLOROBENZENE, p	4.7	2.54
DICHLOROBENZENE, o,m, & p	50	3.73
1,1 DICHLOROETHANE	5	10.52
1,2 DICHLOROETHANE	5	0.58
1,1 DICHLOROETHENE	0.07	0.58
1,2 DICHLOROETHENE, cis	50	48.95
1,2 DICHLOROETHENE, trans	5	0.75
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.09
METHYLENE CHLORIDE	5	4.87
TETRACHLOROETHENE	0.7	149.70
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	2.69
TRICHLOROETHYLENE	5	14.39
VINYL CHLORIDE	2	5.90
XYLENE, o	5	2.88
XYLENE, m & p	5	0.05
XYLENE, o, m & p	50	2.93

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	90111EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/11/99	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.60
BENZENE	ND	0.08
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.01
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.09
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.07
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.13
DICHLOROBENZENE, o,m, & p	50	0.26
1,1 DICHLOROETHANE	5	0.05
1,2 DICHLOROETHANE	5	0.07
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.48
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	0.09
TETRACHLOROETHENE	0.7	0.30
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.04
TRICHLOROETHYLENE	5	0.05
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.04
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.06

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	901111A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/11/99	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	262.21
BENZENE	ND	5.47
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	1.02
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.01
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.37
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.83
DICHLOROBENZENE, m	4.7	0.19
DICHLOROBENZENE, p	4.7	2.83
DICHLOROBENZENE, o,m, & p	50	3.75
1,1 DICHLOROETHANE	5	10.19
1,2 DICHLOROETHANE	5	0.51
1,1 DICHLOROETHENE	0.07	0.40
1,2 DICHLOROETHENE, cis	50	47.65
1,2 DICHLOROETHENE, trans	5	0.77
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.14
METHYLENE CHLORIDE	5	4.89
TETRACHLOROETHENE	0.7	147.95
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	2.70
TRICHLOROETHYLENE	5	13.46
VINYL CHLORIDE	2	6.87
XYLENE, o	5	2.85
XYLENE, m & p	5	0.08
XYLENE, o, m & p	50	2.91

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30113EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/13/93	TIME:	7:53 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.81
BENZENE	ND	0.08
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.01
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.02
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	0.75
DICHLOROBENZENE, o,m, & p	50	0.85
1,1 DICHLOROETHANE	5	0.03
1,2 DICHLOROETHANE	5	0.04
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.26
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.03
METHYLENE CHLORIDE	5	0.03
TETRACHLOROETHENE	0.7	0.15
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.03
TRICHLOROETHYLENE	5	0.08
VINYL CHLORIDE	2	0.05
XYLENE, o	5	0.10
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.12

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ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	301131A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/19/93	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	310.88
BENZENE	ND	8.85
BROMODICHLOROMETHANE	50 ***	0.09
BROMOFORM	50 ***	1.38
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.77
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.90
CHLOROFORM	100 ***	0.21
DICHLOROBENZENE, o	4.7	1.09
DICHLOROBENZENE, m	4.7	0.25
DICHLOROBENZENE, p	4.7	1.37
DICHLOROBENZENE, o,m, & p	50	2.71
1,1 DICHLOROETHANE	5	11.90
1,2 DICHLOROETHANE	5	0.54
1,1 DICHLOROETHENE	0.07	0.64
1,2 DICHLOROETHENE, cis	50	60.88
1,2 DICHLOROETHENE, trans	5	0.79
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.14
METHYLENE CHLORIDE	5	5.92
TETRACHLOROETHENE	0.7	182.66
TOLUENE	5	1.90
1,1,1 TRICHLOROETHANE	5	2.98
TRICHLOROETHYLENE	5	17.42
VINYL CHLORIDE	2	7.29
XYLENE, o	5	8.87
XYLENE, m & p	5	0.06
XYLENE, o, m & p	50	3.93

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	90115EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/15/99	TIME:	8:06 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	2.06
BENZENE	ND	0.07
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.09
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	0.08
DICHLOROBENZENE, o,m, & p	50	0.18
1,1 DICHLOROETHANE	5	0.03
1,2 DICHLOROETHANE	5	0.06
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.38
1,2 DICHLOROETHENE, trans	5	0.11
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	0.09
TETRACHLOROETHENE	0.7	0.86
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.03
TRICHLOROETHYLENE	5	0.06
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.04
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.06

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	901151A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/15/93	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	240.30
BENZENE	ND	8.71
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.04
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.50
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.28
DICHLOROBENZENE, m	4.7	0.28
DICHLOROBENZENE, p	4.7	3.68
DICHLOROBENZENE, o,m, & p	50	5.22
1,1 DICHLOROETHANE	5	10.88
1,2 DICHLOROETHANE	5	0.58
1,1 DICHLOROETHENE	0.07	0.14
1,2 DICHLOROETHENE, cis	50	54.35
1,2 DICHLOROETHENE, trans	5	0.91
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.10
METHYLENE CHLORIDE	5	4.40
TETRACHLOROETHENE	0.7	127.91
TOLUENE	5	0.17
1,1,1 TRICHLOROETHANE	5	3.32
TRICHLOROETHYLENE	5	13.46
VINYL CHLORIDE	2	6.15
XYLENE, o	5	3.33
XYLENE, m & p	5	0.07
XYLENE, o, m & p	50	3.40

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	90118EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/18/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	2.08
BENZENE	ND	0.09
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.01
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.23
DICHLOROBENZENE, m	4.7	0.09
DICHLOROBENZENE, p	4.7	0.18
DICHLOROBENZENE, o,m, & p	50	0.48
1,1 DICHLOROETHANE	5	0.05
1,2 DICHLOROETHANE	5	0.08
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.74
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	0.02
TETRACHLOROETHENE	0.7	0.42
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.08
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.05
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.06

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	301181A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/18/99	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	237.68
BENZENE	ND	6.88
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.01
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.18
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	2.24
DICHLOROBENZENE, m	4.7	0.09
DICHLOROBENZENE, p	4.7	3.00
DICHLOROBENZENE, o,m, & p	50	6.33
1,1 DICHLOROETHANE	5	10.24
1,2 DICHLOROETHANE	5	0.42
1,1 DICHLOROETHENE	0.07	0.08
1,2 DICHLOROETHENE, cis	50	54.96
1,2 DICHLOROETHENE, trans	5	0.63
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.09
METHYLENE CHLORIDE	5	4.70
TETRACHLOROETHENE	0.7	127.10
TOLUENE	5	0.17
1,1,1 TRICHLOROETHANE	5	3.10
TRICHLOROETHYLENE	5	13.59
VINYL CHLORIDE	2	4.86
XYLENE, o	5	8.98
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	3.36

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30120EA	SAMPLER:	PM
LOCATION:	EPFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/20/93	TIME:	7:59 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	3.36
BENZENE	ND	0.11
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.05
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.08
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	0.14
DICHLOROBENZENE, o,m, & p	50	0.26
1,1 DICHLOROETHANE	5	0.05
1,2 DICHLOROETHANE	5	0.02
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.36
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.01
ETHYLBENZENE	50	0.03
METHYLENE CHLORIDE	5	0.01
TETRACHLOROETHENE	0.7	1.60
TOLUENE	5	0.04
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.12
VINYL CHLORIDE	2	0.01
XYLENE, o	5	0.10
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	0.13

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	901201A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/20/99	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	267.78
BENZENE	ND	7.84
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.05
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.99
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.05
DICHLOROBENZENE, m	4.7	0.09
DICHLOROBENZENE, p	4.7	1.90
DICHLOROBENZENE, o,m, & p	50	3.04
1,1 DICHLOROETHANE	5	10.07
1,2 DICHLOROETHANE	5	0.41
1,1 DICHLOROETHENE	0.07	0.03
1,2 DICHLOROETHENE, cis	50	60.33
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.01
ETHYLBENZENE	50	0.11
METHYLENE CHLORIDE	5	3.55
TETRACHLOROETHENE	0.7	151.29
TOLUENE	5	0.17
1,1,1 TRICHLOROETHANE	5	2.99
TRICHLOROETHYLENE	5	15.64
VINYL CHLORIDE	2	5.90
XYLENE, o	5	9.82
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	3.86

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- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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SAMPLE ID:	30122EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	2.47
BENZENE	ND	0.11
BROMODICHLOROMETHANE	50 ***	0.01
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.03
CHLOROBENZENE	5	0.05
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.02
CHLOROFORM	100 ***	0.04
DICHLOROBENZENE, o	4.7	0.09
DICHLOROBENZENE, m	4.7	0.07
DICHLOROBENZENE, p	4.7	0.16
DICHLOROBENZENE, o,m, & p	50	0.32
1,1 DICHLOROETHANE	5	0.08
1,2 DICHLOROETHANE	5	0.12
1,1 DICHLOROETHENE	0.07	0.01
1,2 DICHLOROETHENE, cis	50	0.68
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.03
ETHYLBENZENE	50	0.04
METHYLENE CHLORIDE	5	0.07
TETRACHLOROETHENE	0.7	0.54
TOLUENE	5	0.04
1,1,1 TRICHLOROETHANE	5	0.08
TRICHLOROETHYLENE	5	0.10
VINYL CHLORIDE	2	0.01
XYLENE, o	5	0.06
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	0.09

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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ORGANICS ANALYSIS REPORT
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SAMPLE ID:	301221A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	297.88
BENZENE	ND	8.79
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.03
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.82
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.21
DICHLOROBENZENE, m	4.7	0.22
DICHLOROBENZENE, p	4.7	3.05
DICHLOROBENZENE, o,m, & p	50	4.48
1,1 DICHLOROETHANE	5	11.83
1,2 DICHLOROETHANE	5	0.62
1,1 DICHLOROETHENE	0.07	0.35
1,2 DICHLOROETHENE, cis	50	53.83
1,2 DICHLOROETHENE, trans	5	0.13
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.08
METHYLENE CHLORIDE	5	4.26
TETRACHLOROETHENE	0.7	130.38
TOLUENE	5	0.14
1,1,1 TRICHLOROETHANE	5	3.63
TRICHLOROETHYLENE	5	13.50
VINYL CHLORIDE	2	2.82
XYLENE, o	5	8.80
XYLENE, m & p	5	0.08
XYLENE, o, m & p	50	3.38

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30125EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/25/93	TIME:	7:52 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	2.15
BENZENE	ND	0.05
BROMODICHLOROMETHANE	50 ***	0.44
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.01
CHLOROBENZENE	5	0.03
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.01
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	0.05
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.09
DICHLOROBENZENE, o,m, & p	50	0.16
1,1 DICHLOROETHANE	5	0.05
1,2 DICHLOROETHANE	5	0.08
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.39
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	0.05
TETRACHLOROETHENE	0.7	0.71
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.02
TRICHLOROETHYLENE	5	0.05
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.03
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.04

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	301251A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/25/93	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	222.12
BENZENE	ND	6.30
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.83
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.55
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.98
DICHLOROBENZENE, m	4.7	0.10
DICHLOROBENZENE, p	4.7	2.85
DICHLOROBENZENE, o,m, & p	50	4.93
1,1 DICHLOROETHANE	5	10.72
1,2 DICHLOROETHANE	5	0.89
1,1 DICHLOROETHENE	0.07	0.40
1,2 DICHLOROETHENE, cis	50	50.00
1,2 DICHLOROETHENE, trans	5	0.18
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	4.51
TETRACHLOROETHENE	0.7	120.11
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	3.88
TRICHLOROETHYLENE	5	12.41
VINYL CHLORIDE	2	2.83
XYLENE, o	5	2.99
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	3.03

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30127EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/27/93	TIME:	7:43 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION* (ug/l)
TOTAL VOCs	100	3.25
BENZENE	ND	0.38
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.03
CHLOROBENZENE	5	0.10
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.01
CHLOROFORM	100 ***	0.05
DICHLOROBENZENE, o	4.7	0.18
DICHLOROBENZENE, m	4.7	0.16
DICHLOROBENZENE, p	4.7	0.18
DICHLOROBENZENE, o,m, & p	50	0.50
1,1 DICHLOROETHANE	5	0.09
1,2 DICHLOROETHANE	5	0.12
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	0.66
1,2 DICHLOROETHENE, trans	5	0.07
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.07
METHYLENE CHLORIDE	5	0.12
TETRACHLOROETHENE	0.7	0.62
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.09
TRICHLOROETHYLENE	5	0.13
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.05
XYLENE, m & p	5	0.08
XYLENE, o, m & p	50	0.11

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	301271A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/27/93	TIME:	7:46 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	236.37
BENZENE	ND	6.82
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.19
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.07
DICHLOROBENZENE, m	4.7	0.10
DICHLOROBENZENE, p	4.7	3.03
DICHLOROBENZENE, o,m, & p	50	4.20
1,1 DICHLOROETHANE	5	11.04
1,2 DICHLOROETHANE	5	0.59
1,1 DICHLOROETHENE	0.07	0.56
1,2 DICHLOROETHENE, cis	50	52.63
1,2 DICHLOROETHENE, trans	5	0.23
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.14
METHYLENE CHLORIDE	5	4.48
TETRACHLOROETHENE	0.7	128.50
TOLUENE	5	0.21
1,1,1 TRICHLOROETHANE	5	3.49
TRICHLOROETHYLENE	5	13.28
VINYL CHLORIDE	2	5.63
XYLENE, o	5	9.28
XYLENE, m & p	5	0.06
XYLENE, o, m & p	50	3.34

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30201EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/1/93	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.26
BENZENE	ND	0.04
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.05
DICHLOROBENZENE, m	4.7	0.05
DICHLOROBENZENE, p	4.7	0.10
DICHLOROBENZENE, o,m, & p	50	0.20
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.07
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.38
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.04
TETRACHLOROETHENE	0.7	0.29
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.04
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.03
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302011A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/1/92	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	270.31
BENZENE	ND	7.82
BROMODICHLOROMETHANE	50 ***	0.68
BROMOFORM	50 ***	0.11
CARBON TETRACHLORIDE	5	1.80
CHLOROBENZENE	5	1.80
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	4.19
CHLOROFORM	100 ***	2.60
DICHLOROBENZENE, o	4.7	1.45
DICHLOROBENZENE, m	4.7	0.87
DICHLOROBENZENE, p	4.7	3.72
DICHLOROBENZENE, o,m, & p	50	6.04
1,1 DICHLOROETHANE	5	11.27
1,2 DICHLOROETHANE	5	1.82
1,1 DICHLOROETHENE	0.07	1.70
1,2 DICHLOROETHENE, cis	50	53.96
1,2 DICHLOROETHENE, trans	5	1.39
1,2 DICHLOROPROPANE	5	1.42
ETHYLBENZENE	50	1.28
METHYLENE CHLORIDE	5	5.96
TETRACHLOROETHENE	0.7	131.20
TOLUENE	5	1.17
1,1,1 TRICHLOROETHANE	5	5.08
TRICHLOROETHYLENE	5	15.42
VINYL CHLORIDE	2	9.06
XYLENE, o	5	4.10
XYLENE, m & p	5	1.19
XYLENE, o, m & p	50	5.29

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30203EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/3/93	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.73
BENZENE	ND	0.05
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.03
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.18
DICHLOROBENZENE, o,m, & p	50	0.23
1,1 DICHLOROETHANE	5	0.01
1,2 DICHLOROETHANE	5	0.02
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.10
1,2 DICHLOROETHENE, trans	5	0.01
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.03
METHYLENE CHLORIDE	5	0.02
TETRACHLOROETHENE	0.7	0.08
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.02
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.03
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.05

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302031A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/3/93	TIME:	7:50 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	302.40
BENZENE	ND	7.87
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.73
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.29
CHLOROFORM	100 ***	1.32
DICHLOROBENZENE, o	4.7	0.73
DICHLOROBENZENE, m	4.7	0.15
DICHLOROBENZENE, p	4.7	1.19
DICHLOROBENZENE, o,m, & p	50	2.07
1,1 DICHLOROETHANE	5	11.60
1,2 DICHLOROETHANE	5	0.89
1,1 DICHLOROETHENE	0.07	0.50
1,2 DICHLOROETHENE, cis	50	65.69
1,2 DICHLOROETHENE, trans	5	0.45
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	5.16
TETRACHLOROETHENE	0.7	171.11
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	2.88
TRICHLOROETHYLENE	5	17.57
VINYL CHLORIDE	2	8.51
XYLENE, o	5	3.96
XYLENE, m & p	5	0.05
XYLENE, o, m & p	50	4.01

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30205EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/5/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.66
BENZENE	ND	0.04
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.03
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.02
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.04
DICHLOROBENZENE, o,m, & p	50	0.08
1,1 DICHLOROETHANE	5	0.03
1,2 DICHLOROETHANE	5	0.05
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.14
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.02
TETRACHLOROETHENE	0.7	0.17
TOLUENE	5	0.03
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.02
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.02
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	302051A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/5/93	TIME:	8:05 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	219.77
BENZENE	ND	5.50
BROMODICHLOROMETHANE	50 ***	0.09
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.39
CHLOROBENZENE	5	0.80
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.39
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.54
DICHLOROBENZENE, m	4.7	0.21
DICHLOROBENZENE, p	4.7	0.94
DICHLOROBENZENE, o,m, & p	50	1.69
1,1 DICHLOROETHANE	5	11.07
1,2 DICHLOROETHANE	5	0.69
1,1 DICHLOROETHENE	0.07	0.78
1,2 DICHLOROETHENE, cis	50	43.97
1,2 DICHLOROETHENE, trans	5	0.64
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.22
METHYLENE CHLORIDE	5	5.43
TETRACHLOROETHENE	0.7	117.78
TOLUENE	5	0.26
1,1,1 TRICHLOROETHANE	5	3.43
TRICHLOROETHYLENE	5	14.66
VINYL CHLORIDE	2	8.04
XYLENE, o	5	2.85
XYLENE, m & p	5	0.19
XYLENE, o, m & p	50	3.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30208EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/8/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.41
BENZENE	ND	0.02
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.02
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.01
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.08
DICHLOROBENZENE, o,m, & p	50	0.11
1,1 DICHLOROETHANE	5	0.01
1,2 DICHLOROETHANE	5	0.02
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.07
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.01
TETRACHLOROETHENE	0.7	0.10
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.00
TRICHLOROETHYLENE	5	0.01
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.01
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.02

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302081A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/8/93	TIME:	8:00 AM

#2 WELL IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	237.89
BENZENE	ND	8.03
BROMODICHLOROMETHANE	50 ***	0.60
BROMOFORM	50 ***	0.08
CARBON TETRACHLORIDE	5	1.21
CHLOROBENZENE	5	0.91
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.19
CHLOROFORM	100 ***	0.03
DICHLOROBENZENE, o	4.7	0.70
DICHLOROBENZENE, m	4.7	0.89
DICHLOROBENZENE, p	4.7	1.21
DICHLOROBENZENE, o,m, & p	50	2.30
1,1 DICHLOROETHANE	5	11.84
1,2 DICHLOROETHANE	5	1.13
1,1 DICHLOROETHENE	0.07	0.76
1,2 DICHLOROETHENE, cis	50	45.47
1,2 DICHLOROETHENE, trans	5	1.24
1,2 DICHLOROPROPANE	5	1.43
ETHYLBENZENE	50	0.50
METHYLENE CHLORIDE	5	5.84
TETRACHLOROETHENE	0.7	119.10
TOLUENE	5	0.56
1,1,1 TRICHLOROETHANE	5	4.49
TRICHLOROETHYLENE	5	17.33
VINYL CHLORIDE	2	11.25
XYLENE, o	5	3.15
XYLENE, m & p	5	0.48
XYLENE, o, m & p	50	3.63

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30210EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/10/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.54
BENZENE	ND	0.04
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.02
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.01
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.15
DICHLOROBENZENE, o,m, & p	50	0.18
1,1 DICHLOROETHANE	5	0.01
1,2 DICHLOROETHANE	5	0.02
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.06
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.01
TETRACHLOROETHENE	0.7	0.08
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.01
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.02
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302101A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/10/93	TIME:	8:05 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	217.76
BENZENE	ND	5.81
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.11
CHLOROBENZENE	5	0.78
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.13
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.59
DICHLOROBENZENE, m	4.7	0.26
DICHLOROBENZENE, p	4.7	1.06
DICHLOROBENZENE, o,m, & p	50	1.90
1,1 DICHLOROETHANE	5	10.53
1,2 DICHLOROETHANE	5	0.81
1,1 DICHLOROETHENE	0.07	0.42
1,2 DICHLOROETHENE, cis	50	43.97
1,2 DICHLOROETHENE, trans	5	0.20
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.15
METHYLENE CHLORIDE	5	4.44
TETRACHLOROETHENE	0.7	117.80
TOLUENE	5	0.18
1,1,1 TRICHLOROETHANE	5	2.80
TRICHLOROETHYLENE	5	16.03
VINYL CHLORIDE	2	8.58
XYLENE, o	5	2.82
XYLENE, m & p	5	0.12
XYLENE, o, m & p	50	2.94

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30212EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/12/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.71
BENZENE	ND	0.03
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.02
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.04
DICHLOROBENZENE, o,m, & p	50	0.08
1,1 DICHLOROETHANE	5	0.02
1,2 DICHLOROETHANE	5	0.05
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.19
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	0.07
TETRACHLOROETHENE	0.7	0.17
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.02
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.01
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.02

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	902121A	SAMPLE:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK/PM
DATE:	2/12/93	TIME:	8:08 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	272.76
BENZENE	ND	8.01
BROMODICHLOROMETHANE	50 ***	0.06
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.17
CHLOROBENZENE	5	0.88
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	3.85
CHLOROFORM	100 ***	0.71
DICHLOROBENZENE, o	4.7	0.58
DICHLOROBENZENE, m	4.7	0.17
DICHLOROBENZENE, p	4.7	0.97
DICHLOROBENZENE, o,m, & p	50	1.70
1,1 DICHLOROETHANE	5	10.43
1,2 DICHLOROETHANE	5	0.77
1,1 DICHLOROETHENE	0.07	0.50
1,2 DICHLOROETHENE, cis	50	48.88
1,2 DICHLOROETHENE, trans	5	0.55
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.17
METHYLENE CHLORIDE	5	9.03
TETRACHLOROETHENE	0.7	181.13
TOLUENE	5	0.21
1,1,1 TRICHLOROETHANE	5	3.20
TRICHLOROETHYLENE	5	13.38
VINYL CHLORIDE	2	8.37
XYLENE, o	5	9.02
XYLENE, m & p	5	0.14
XYLENE, o, m & p	50	3.16

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** - TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30215EA	SAMPLER:	PH
LOCATION:	EFFLUENT-RAP	ANALYST:	PH/LK
DATE:	2/15/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.14
BENZENE	ND	0.04
BROMODICHLOROMETHANE	60 ***	0.00
BROMOFORM	60 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	60 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.02
DICHLOROBENZENE, m	4.7	0.03
DICHLOROBENZENE, p	4.7	0.06
DICHLOROBENZENE, o,m, & p	60	0.11
1,1 DICHLOROETHANE	5	0.03
1,2 DICHLOROETHANE	5	0.07
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	60	0.32
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	60	0.01
METHYLENE CHLORIDE	5	0.14
TETRACHLOROETHENE	0.7	0.27
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.03
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.02
XYLENE, m & p	5	0.01
XYLENE, o, m & p	60	0.03

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302151A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/15/93	TIME:	8:00 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	264.06
BENZENE	ND	5.80
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.52
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.58
CHLOROFORM	100 ***	0.89
DICHLOROBENZENE, o	4.7	0.49
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.58
DICHLOROBENZENE, o,m, & p	50	1.15
1,1 DICHLOROETHANE	5	9.78
1,2 DICHLOROETHANE	5	0.71
1,1 DICHLOROETHENE	0.07	0.31
1,2 DICHLOROETHENE, cis	50	47.71
1,2 DICHLOROETHENE, trans	5	0.34
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	8.99
TETRACHLOROETHENE	0.7	159.77
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	2.38
TRICHLOROETHYLENE	5	18.52
VINYL CHLORIDE	2	8.89
XYLENE, o	5	2.84
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	2.86

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	90217EA	SAMPLER:	PH
LOCATION:	EFFLUENT-RAP	ANALYST:	PH/LK
DATE:	2/17/93	TIME:	7:43 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.24
BENZENE	ND	0.04
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.03
DICHLOROBENZENE, m	4.7	0.03
DICHLOROBENZENE, p	4.7	0.06
DICHLOROBENZENE, o,m, & p	50	0.12
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.09
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.41
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.12
TETRACHLOROETHENE	0.7	0.26
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.00
TRICHLOROETHYLENE	5	0.03
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.08
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.04

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302171A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/17/93	TIME:	7:47 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	278.08
BENZENE	ND	8.03
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.13
CHLOROBENZENE	5	0.70
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.48
CHLOROFORM	100 ***	1.03
DICHLOROBENZENE, o	4.7	0.68
DICHLOROBENZENE, m	4.7	0.28
DICHLOROBENZENE, p	4.7	1.09
DICHLOROBENZENE, o,m, & p	50	1.98
1,1 DICHLOROETHANE	5	10.00
1,2 DICHLOROETHANE	5	0.79
1,1 DICHLOROETHENE	0.07	0.44
1,2 DICHLOROETHENE, cis	50	49.57
1,2 DICHLOROETHENE, trans	5	0.44
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.16
METHYLENE CHLORIDE	5	9.09
TETRACHLOROETHENE	0.7	162.49
TOLUENE	5	0.16
1,1,1 TRICHLOROETHANE	5	2.34
TRICHLOROETHYLENE	5	14.08
VINYL CHLORIDE	2	7.94
XYLENE, o	5	8.09
XYLENE, m & p	5	0.11
XYLENE, o, m & p	50	8.20

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID	30219EA	SAMPLE	PM
LOCATION	EFFLUENT-RAP	ANALYST	PM/LK
DATE	2/19/93	TIME	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.48
BENZENE	ND	0.06
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.11
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.08
DICHLOROBENZENE, o,m, & p	50	0.16
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.09
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.28
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.11
TETRACHLOROETHENE	0.7	0.49
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.03
TRICHLOROETHYLENE	5	0.04
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.08
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302191A	SAMPLE:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/19/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	285.66
BENZENE	ND	5.97
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.89
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	3.03
CHLOROFORM	100 ***	1.21
DICHLOROBENZENE, o	4.7	0.83
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.88
DICHLOROBENZENE, o,m, & p	50	1.89
1,1 DICHLOROETHANE	5	11.29
1,2 DICHLOROETHANE	5	0.87
1,1 DICHLOROETHENE	0.07	0.47
1,2 DICHLOROETHENE, cis	50	50.06
1,2 DICHLOROETHENE, trans	5	0.35
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	11.88
TETRACHLOROETHENE	0.7	189.42
TOLUENE	5	0.09
1,1,1 TRICHLOROETHANE	5	2.51
TRICHLOROETHYLENE	5	15.18
VINYL CHLORIDE	2	8.25
XYLENE, o	5	2.97
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	8.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE #	30222EA	ANALYST	PM
LOCATION	EFFLUENT-RAP	ANALYST	PM/LK
DATE	2/22/93	TIME	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION (ug/l)
TOTAL VOCs	100	1.81
BENZENE	ND	0.07
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.07
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	0.04
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.11
DICHLOROBENZENE, o,m, & p	50	0.18
1,1 DICHLOROETHANE	5	0.08
1,2 DICHLOROETHANE	5	0.18
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.54
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.28
TETRACHLOROETHENE	0.7	0.37
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.05
VINYL CHLORIDE	2	0.01
XYLENE, o	5	0.08
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID	302221A	SAMPLE	LK
LOCATION	INFLUENT-RAP	ANALYST	PM/LK
DATE	2/22/93	TIME	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION (ug/l)
TOTAL VOCs	100	804.58
BENZENE	ND	8.59
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.78
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	9.48
CHLOROPFORM	100 ***	1.28
DICHLOROBENZENE, o	4.7	0.80
DICHLOROBENZENE, m	4.7	0.12
DICHLOROBENZENE, p	4.7	1.89
DICHLOROBENZENE, o,m, & p	50	2.41
1,1 DICHLOROETHANE	5	12.18
1,2 DICHLOROETHANE	5	0.95
1,1 DICHLOROETHENE	0.07	0.43
1,2 DICHLOROETHENE, cis	50	54.82
1,2 DICHLOROETHENE, trans	5	0.18
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	9.97
TETRACHLOROETHENE	0.7	178.78
TOLUENE	5	0.11
1,1,1 TRICHLOROETHANE	5	3.89
TRICHLOROETHYLENE	5	16.93
VINYL CHLORIDE	2	9.28
XYLENE, o	5	9.26
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	9.29

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30224EA	SAMPLE:	PH
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/24/93	TIME:	8:10 AM

ALL WELLS WERE TURNED OFF AT 7:45 AM WITHOUT NOTICE.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	1.22
BENZENE	ND	0.09
BROMODICHLOROMETHANE	50 ***	0.01
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.01
CHLOROBENZENE	5	0.02
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.03
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	0.02
DICHLOROBENZENE, m	4.7	0.02
DICHLOROBENZENE, p	4.7	0.10
DICHLOROBENZENE, o,m, & p	50	0.14
1,1 DICHLOROETHANE	5	0.02
1,2 DICHLOROETHANE	5	0.04
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	0.06
1,2 DICHLOROETHENE, trans	5	0.01
1,2 DICHLOROPROPANE	5	0.01
ETHYLBENZENE	50	0.05
METHYLENE CHLORIDE	5	0.08
TETRACHLOROETHENE	0.7	0.13
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.03
TRICHLOROETHYLENE	5	0.03
VINYL CHLORIDE	2	0.02
XYLENE, o	5	0.95
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	0.98

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	902241A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/24/93	TIME:	8:10 AM

ALL WELLS WERE TURNED OFF AT 7:45 AM WITHOUT NOTICE.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	288.88
BENZENE	ND	8.21
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.75
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.31
CHLOROFORM	100 ***	1.84
DICHLOROBENZENE, o	4.7	0.83
DICHLOROBENZENE, m	4.7	0.10
DICHLOROBENZENE, p	4.7	1.29
DICHLOROBENZENE, o,m, & p	50	2.22
1,1 DICHLOROETHANE	5	11.20
1,2 DICHLOROETHANE	5	0.84
1,1 DICHLOROETHENE	0.07	0.50
1,2 DICHLOROETHENE, cis	50	51.66
1,2 DICHLOROETHENE, trans	5	0.41
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	12.17
TETRACHLOROETHENE	0.7	189.54
TOLUENE	5	0.07
1,1,1 TRICHLOROETHANE	5	3.47
TRICHLOROETHYLENE	5	15.36
VINYL CHLORIDE	2	7.28
XYLENE, o	5	8.04
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	8.07

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	902262A	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/26/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (ug/l)	MEASURED CONCENTRATION^{**} (ug/l)
TOTAL VOCs	100	1.28
BENZENE	ND	0.05
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.04
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.05
DICHLOROBENZENE, o,m, & p	50	0.12
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.07
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.36
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.07
TETRACHLOROETHENE	0.7	0.38
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.02
TRICHLOROETHYLENE	5	0.04
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.02
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.08

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	902261A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/26/99	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	180.34
BENZENE	ND	4.84
BROMODICHLOROMETHANE	50 ***	0.06
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.19
CHLOROBENZENE	5	0.73
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.23
CHLOROFORM	100 ***	0.87
DICHLOROBENZENE, o	4.7	0.59
DICHLOROBENZENE, m	4.7	0.18
DICHLOROBENZENE, p	4.7	1.91
DICHLOROBENZENE, o,m, & p	50	2.68
1,1 DICHLOROETHANE	5	8.25
1,2 DICHLOROETHANE	5	0.59
1,1 DICHLOROETHENE	0.07	0.54
1,2 DICHLOROETHENE, cis	50	36.24
1,2 DICHLOROETHENE, trans	5	0.48
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.15
METHYLENE CHLORIDE	5	3.77
TETRACHLOROETHENE	0.7	98.27
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	2.88
TRICHLOROETHYLENE	5	10.69
VINYL CHLORIDE	2	8.69
XYLENE, o	5	2.14
XYLENE, m & p	5	0.12
XYLENE, o, m & p	50	2.26

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30301EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/1/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	0.85
BENZENE	ND	0.04
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.01
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.04
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.05
DICHLOROBENZENE, o,m, & p	50	0.12
1,1 DICHLOROETHANE	5	0.03
1,2 DICHLOROETHANE	5	0.06
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.18
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	0.07
TETRACHLOROETHENE	0.7	0.17
TOLUENE	5	0.01
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.03
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.02
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	903011A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/1/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (ug/l)	MEASURED CONCENTRATION^{**} (ug/l)
TOTAL VOCs	100	179.22
BENZENE	ND	4.90
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.64
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.79
CHLOROFORM	100 ***	0.83
DICHLOROBENZENE, o	4.7	0.56
DICHLOROBENZENE, m	4.7	0.11
DICHLOROBENZENE, p	4.7	1.48
DICHLOROBENZENE, o,m, & p	50	2.13
1,1 DICHLOROETHANE	5	7.98
1,2 DICHLOROETHANE	5	0.51
1,1 DICHLOROETHENE	0.07	0.25
1,2 DICHLOROETHENE, cis	50	37.28
1,2 DICHLOROETHENE, trans	5	0.30
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	3.76
TETRACHLOROETHENE	0.7	96.75
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	2.20
TRICHLOROETHYLENE	5	11.54
VINYL CHLORIDE	2	6.16
XYLENE, o	5	2.12
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	2.15

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID	30303EA	SAMPLER	PM
LOCATION	EFFLUENT-RAP	ANALYST	PM
DATE	9/8/93	TIME	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (ug/l)	MEASURED CONCENTRATION^{**} (ug/l)
TOTAL VOCs	100	1.26
BENZENE	ND	0.05
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.07
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.06
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	0.08
DICHLOROBENZENE, o,m, & p	50	0.18
1,1 DICHLOROETHANE	5	0.05
1,2 DICHLOROETHANE	5	0.07
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	0.41
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.01
METHYLENE CHLORIDE	5	0.04
TETRACHLOROETHENE	0.7	0.23
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.01
TRICHLOROETHYLENE	5	0.04
VINYL CHLORIDE	2	0.00
XYLENE, o	5	0.05
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.06

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	303031A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/3/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	180.77
BENZENE	ND	4.69
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.11
CHLOROBENZENE	5	0.80
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.80
CHLOROFORM	100 ***	1.05
DICHLOROBENZENE, o	4.7	0.75
DICHLOROBENZENE, m	4.7	0.27
DICHLOROBENZENE, p	4.7	1.49
DICHLOROBENZENE, o,m, & p	50	2.51
1,1 DICHLOROETHANE	5	7.86
1,2 DICHLOROETHANE	5	0.62
1,1 DICHLOROETHENE	0.07	0.42
1,2 DICHLOROETHENE, cis	50	36.89
1,2 DICHLOROETHENE, trans	5	0.39
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.18
METHYLENE CHLORIDE	5	3.78
TETRACHLOROETHENE	0.7	97.77
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	2.02
TRICHLOROETHYLENE	5	10.77
VINYL CHLORIDE	2	6.52
XYLENE, o	5	2.29
XYLENE, m & p	5	0.13
XYLENE, o, m & p	50	2.36

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30107W1	SAMPLER:	IC/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	1/7/93	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	29.95
BENZENE	ND	2.51
BROMODICHLOROMETHANE	50 ***	0.02
BROMOFORM	50 ***	0.57
CARBON TETRACHLORIDE	5	0.08
CHLOROBENZENE	5	1.36
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.02
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	1.55
DICHLOROBENZENE, m	4.7	0.54
DICHLOROBENZENE, p	4.7	3.15
DICHLOROBENZENE, o,m, & p	50	5.24
1,1 DICHLOROETHANE	5	2.51
1,2 DICHLOROETHANE	5	0.26
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	6.02
1,2 DICHLOROETHENE, trans	5	0.30
1,2 DICHLOROPROPANE	5	0.24
ETHYLBENZENE	50	0.35
METHYLENE CHLORIDE	5	1.40
TETRACHLOROETHENE	0.7	1.99
TOLUENE	5	0.27
1,1,1 TRICHLOROETHANE	5	1.36
TRICHLOROETHYLENE	5	1.48
VINYL CHLORIDE	2	2.32
XYLENE, o	5	0.97
XYLENE, m & p	5	0.24
XYLENE, o, m & p	50	0.61

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.
- *** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30107W2	SAMPLER:	TC/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	1/7/93	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	53.43
BENZENE	ND	2.49
BROMODICHLOROMETHANE	50 ***	0.98
BROMOFORM	50 ***	0.11
CARBON TETRACHLORIDE	5	1.13
CHLOROBENZENE	5	2.15
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.68
CHLOROFORM	100 ***	1.23
DICHLOROBENZENE, o	4.7	1.71
DICHLOROBENZENE, m	4.7	1.25
DICHLOROBENZENE, p	4.7	3.68
DICHLOROBENZENE, o,m, & p	50	6.64
1,1 DICHLOROETHANE	5	5.06
1,2 DICHLOROETHANE	5	0.68
1,1 DICHLOROETHENE	0.07	1.10
1,2 DICHLOROETHENE, cis	50	7.94
1,2 DICHLOROETHENE, trans	5	0.82
1,2 DICHLOROPROPANE	5	1.00
ETHYLBENZENE	50	1.57
METHYLENE CHLORIDE	5	2.82
TETRACHLOROETHENE	0.7	3.71
TOLUENE	5	1.14
1,1,1 TRICHLOROETHANE	5	2.83
TRICHLOROETHYLENE	5	2.86
VINYL CHLORIDE	2	2.69
XYLENE, o	5	1.30
XYLENE, m & p	5	1.10
XYLENE, o, m & p	50	2.40

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30107W3	SAMPLER:	TC/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	1/7/93	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	351.64
BENZENE	ND	12.81
BROMODICHLOROMETHANE	50 ***	0.27
BROMOFORM	50 ***	0.10
CARBON TETRACHLORIDE	5	0.29
CHLOROBENZENE	5	2.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	5.97
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	2.02
DICHLOROBENZENE, m	4.7	0.88
DICHLOROBENZENE, p	4.7	4.47
DICHLOROBENZENE, o, m, & p	50	7.37
1,1 DICHLOROETHANE	5	41.90
1,2 DICHLOROETHANE	5	0.82
1,1 DICHLOROETHENE	0.07	1.43
1,2 DICHLOROETHENE, cis	50	167.17
1,2 DICHLOROETHENE, trans	5	1.51
1,2 DICHLOROPROPANE	5	1.44
ETHYLBENZENE	50	0.83
METHYLENE CHLORIDE	5	15.44
TETRACHLOROETHENE	0.7	35.56
TOLUENE	5	0.99
1,1,1 TRICHLOROETHANE	5	9.49
TRICHLOROETHYLENE	5	14.76
VINYL CHLORIDE	2	20.15
XYLENE, o	5	10.45
XYLENE, m & p	5	0.81
XYLENE, o, m & p	50	11.06

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30107W4	SAMPLER:	IC/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	1/7/93	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	302.92
BENZENE	ND	1.08
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	1.26
CARBON TETRACHLORIDE	5	0.09
CHLOROBENZENE	5	0.87
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.42
DICHLOROBENZENE, m	4.7	0.36
DICHLOROBENZENE, p	4.7	0.54
DICHLOROBENZENE, o,m, & p	50	1.32
1,1 DICHLOROETHANE	5	0.36
1,2 DICHLOROETHANE	5	0.26
1,1 DICHLOROETHENE	0.07	0.04
1,2 DICHLOROETHENE, cis	50	12.76
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.18
METHYLENE CHLORIDE	5	2.27
TETRACHLOROETHENE	0.7	274.50
TOLUENE	5	0.36
1,1,1 TRICHLOROETHANE	5	1.45
TRICHLOROETHYLENE	5	3.88
VINYL CHLORIDE	2	1.13
XYLENE, o	5	0.30
XYLENE, m & p	5	0.13
XYLENE, o, m & p	50	0.43

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	90107W5	SAMPLER:	IC/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	1/7/93	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	476.58
BENZENE	ND	9.88
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	1.33
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.21
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.81
DICHLOROBENZENE, m	4.7	0.56
DICHLOROBENZENE, p	4.7	1.19
DICHLOROBENZENE, o, m, & p	50	2.56
1,1 DICHLOROETHANE	5	0.56
1,2 DICHLOROETHANE	5	0.84
1,1 DICHLOROETHENE	0.07	0.33
1,2 DICHLOROETHENE, cis	50	24.06
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.31
METHYLENE CHLORIDE	5	4.80
TETRACHLOROETHENE	0.7	379.54
TOLUENE	5	0.65
1,1,1 TRICHLOROETHANE	5	10.31
TRICHLOROETHYLENE	5	38.61
VINYL CHLORIDE	2	0.13
XYLENE, o	5	2.48
XYLENE, m & p	5	0.18
XYLENE, o, m & p	50	2.66

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30114W1	SAMPLER:	DC/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	30.11
BENZENE	ND	2.58
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.48
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.31
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.48
CHLOROFORM	100 ***	0.14
DICHLOROBENZENE, o	4.7	1.21
DICHLOROBENZENE, m	4.7	0.27
DICHLOROBENZENE, p	4.7	3.01
DICHLOROBENZENE, o,m, & p	60	4.49
1,1 DICHLOROETHANE	5	2.67
1,2 DICHLOROETHANE	5	0.26
1,1 DICHLOROETHENE	0.07	0.01
1,2 DICHLOROETHENE, cis	50	0.39
1,2 DICHLOROETHENE, trans	5	0.53
1,2 DICHLOROPROPANE	5	0.20
ETHYLBENZENE	50	0.18
METHYLENE CHLORIDE	5	1.56
TETRACHLOROETHENE	0.7	1.71
TOLUENE	5	0.10
1,1,1 TRICHLOROETHANE	5	0.63
TRICHLOROETHYLENE	5	1.44
VINYL CHLORIDE	2	3.70
XYLENE, o	5	0.23
XYLENE, m & p	5	0.07
XYLENE, o, m & p	50	0.30

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30114W2	SAMPLER:	DC/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	40.02
BENZENE	ND	2.20
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.79
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.65
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.61
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	1.69
DICHLOROBENZENE, m	4.7	0.17
DICHLOROBENZENE, p	4.7	4.22
DICHLOROBENZENE, o, m, & p	50	6.08
1,1 DICHLOROETHANE	5	5.24
1,2 DICHLOROETHANE	5	0.27
1,1 DICHLOROETHENE	0.07	0.18
1,2 DICHLOROETHENE, cis	50	0.88
1,2 DICHLOROETHENE, trans	5	0.53
1,2 DICHLOROPROPANE	5	0.22
ETHYLBENZENE	50	0.12
METHYLENE CHLORIDE	5	1.86
TETRACHLOROETHENE	0.7	1.83
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.99
TRICHLOROETHYLENE	5	2.01
VINYL CHLORIDE	2	2.93
XYLENE, o	5	0.50
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	0.54

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30114W3	SAMPLER:	DC/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	416.71
BENZENE	ND	16.18
BROMODICHLOROMETHANE	50 ***	0.08
BROMOFORM	50 ***	1.12
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	2.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	8.29
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	1.26
DICHLOROBENZENE, m	4.7	0.30
DICHLOROBENZENE, p	4.7	4.08
DICHLOROBENZENE, o,m, & p	50	5.64
1,1 DICHLOROETHANE	5	46.64
1,2 DICHLOROETHANE	5	0.04
1,1 DICHLOROETHENE	0.07	1.20
1,2 DICHLOROETHENE, cis	50	212.16
1,2 DICHLOROETHENE, trans	5	2.02
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.22
METHYLENE CHLORIDE	5	17.00
TETRACHLOROETHENE	0.7	39.86
TOLUENE	5	0.60
1,1,1 TRICHLOROETHANE	5	5.83
TRICHLOROETHYLENE	5	19.19
VINYL CHLORIDE	2	26.47
XYLENE, o	5	13.32
XYLENE, m & p	5	0.10
XYLENE, o, m & p	50	13.42

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30114W4	SAMPLER:	DC/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	350.32
BENZENE	ND	0.37
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	1.47
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.88
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.30
DICHLOROBENZENE, m	4.7	0.17
DICHLOROBENZENE, p	4.7	9.98
DICHLOROBENZENE, o, m, & p	50	10.43
1,1 DICHLOROETHANE	5	0.94
1,2 DICHLOROETHANE	5	0.25
1,1 DICHLOROETHENE	0.07	0.08
1,2 DICHLOROETHENE, cis	30	13.32
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.04
METHYLENE CHLORIDE	5	2.65
TETRACHLOROETHENE	0.7	288.68
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	0.93
TRICHLOROETHYLENE	5	4.22
VINYL CHLORIDE	2	1.03
XYLENE, o	5	14.86
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	14.88

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30114W5	SAMPLER:	DC/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	527.73
BENZENE	ND	9.97
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.57
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.17
CHLOROFORM	100 ***	0.29
DICHLOROBENZENE, o	4.7	0.46
DICHLOROBENZENE, m	4.7	0.35
DICHLOROBENZENE, p	4.7	1.72
DICHLOROBENZENE, o,m, & p	50	2.53
1,1 DICHLOROETHANE	5	0.59
1,2 DICHLOROETHANE	5	0.78
1,1 DICHLOROETHENE	0.07	0.65
1,2 DICHLOROETHENE, cis	50	27.09
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.11
METHYLENE CHLORIDE	5	6.74
TETRACHLOROETHENE	0.7	424.03
TOLUENE	5	0.25
1,1,1 TRICHLOROETHANE	5	5.50
TRICHLOROETHYLENE	5	45.65
VINYL CHLORIDE	2	0.00
XYLENE, o	5	2.68
XYLENE, m & p	5	0.07
XYLENE, o, m & p	50	2.75

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30121W1	SAMPLER:	PM
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	34.74
BENZENE	ND	3.22
BROMODICHLOROMETHANE	50 ***	0.29
BROMOFORM	50 ***	3.00
CARBON TETRACHLORIDE	5	0.04
CHLOROBENZENE	5	1.09
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.07
CHLOROFORM	100 ***	0.24
DICHLOROBENZENE, o	4.7	1.14
DICHLOROBENZENE, m	4.7	0.38
DICHLOROBENZENE, p	4.7	3.43
DICHLOROBENZENE, o,m, & p	50	4.96
1,1 DICHLOROETHANE	5	2.66
1,2 DICHLOROETHANE	5	0.31
1,1 DICHLOROETHENE	0.07	0.05
1,2 DICHLOROETHENE, cis	50	7.29
1,2 DICHLOROETHENE, trans	5	0.59
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.18
METHYLENE CHLORIDE	5	1.59
TETRACHLOROETHENE	0.7	5.80
TOLUENE	5	0.18
1,1,1 TRICHLOROETHANE	5	0.37
TRICHLOROETHYLENE	5	1.69
VINYL CHLORIDE	2	2.61
XYLENE, o	5	0.26
XYLENE, m & p	5	0.09
XYLENE, o, m & p	50	0.36

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30121W2	SAMPLER:	PM/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	43.21
BENZENE	ND	2.96
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.68
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.17
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	2.09
DICHLOROBENZENE, m	4.7	0.19
DICHLOROBENZENE, p	4.7	4.96
DICHLOROBENZENE, o,m, & p	60	7.20
1,1 DICHLOROETHANE	5	5.40
1,2 DICHLOROETHANE	5	0.20
1,1 DICHLOROETHENE	0.07	0.14
1,2 DICHLOROETHENE, cis	50	11.04
1,2 DICHLOROETHENE, trans	5	0.20
1,2 DICHLOROPROPANE	5	0.08
ETHYLBENZENE	50	0.13
METHYLENE CHLORIDE	5	1.14
TETRACHLOROETHENE	0.7	2.94
TOLUENE	5	0.12
1,1,1 TRICHLOROETHANE	5	1.10
TRICHLOROETHYLENE	5	2.18
VINYL CHLORIDE	2	2.93
XYLENE, o	5	0.59
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	0.63

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
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SAMPLE ID:	30121W3	SAMPLER:	PM/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	448.41
BENZENE	ND	19.28
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.86
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	6.13
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.76
DICHLOROBENZENE, m	4.7	0.39
DICHLOROBENZENE, p	4.7	4.28
DICHLOROBENZENE, o,m, & p	50	6.41
1,1 DICHLOROETHANE	5	48.87
1,2 DICHLOROETHANE	5	0.98
1,1 DICHLOROETHENE	0.07	1.68
1,2 DICHLOROETHENE, cis	50	228.15
1,2 DICHLOROETHENE, trans	5	0.15
1,2 DICHLOROPROPANE	5	0.24
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	18.05
TETRACHLOROETHENE	0.7	44.97
TOLUENE	5	0.57
1,1,1 TRICHLOROETHANE	5	7.81
TRICHLOROETHYLENE	5	17.81
VINYL CHLORIDE	2	29.24
XYLENE, o	5	15.00
XYLENE, m & p	5	0.13
XYLENE, o, m & p	50	15.13

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30121W4X	SAMPLER:	PM/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	235.68
BENZENE	ND	0.62
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.06
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.06
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.07
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.11
DICHLOROBENZENE, m	4.7	0.26
DICHLOROBENZENE, p	4.7	4.33
DICHLOROBENZENE, o,m, & p	50	4.70
1,1 DICHLOROETHANE	5	0.04
1,2 DICHLOROETHANE	5	0.24
1,1 DICHLOROETHENE	0.07	0.09
1,2 DICHLOROETHENE, cis	50	14.07
1,2 DICHLOROETHENE, trans	5	0.01
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.06
METHYLENE CHLORIDE	5	2.60
TETRACHLOROETHENE	0.7	241.35
TOLUENE	5	0.15
1,1,1 TRICHLOROETHANE	5	0.98
TRICHLOROETHYLENE	5	3.98
VINYL CHLORIDE	2	0.96
XYLENE, o	5	14.00
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	14.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30121W5	SAMPLER:	PM/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	642.30
BENZENE	ND	12.35
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.17
CHLOROBENZENE	5	0.15
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.11
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.96
DICHLOROBENZENE, m	4.7	0.31
DICHLOROBENZENE, p	4.7	1.82
DICHLOROBENZENE, o,m, & p	50	4.08
1,1 DICHLOROETHANE	5	0.71
1,2 DICHLOROETHANE	5	0.89
1,1 DICHLOROETHENE	0.07	0.39
1,2 DICHLOROETHENE, cis	50	31.04
1,2 DICHLOROETHENE, trans	5	1.15
1,2 DICHLOROPROPANE	5	0.17
ETHYLBENZENE	50	0.19
METHYLENE CHLORIDE	5	7.50
TETRACHLOROETHENE	0.7	424.09
TOLUENE	5	0.36
1,1,1 TRICHLOROETHANE	5	7.03
TRICHLOROETHYLENE	5	48.76
VINYL CHLORIDE	2	0.58
XYLENE, o	5	3.03
XYLENE, m & p	5	0.14
XYLENE, o, m & p	50	3.17

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30128W1	SAMPLER:	PM/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	26.13
BENZENE	ND	2.79
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.88
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.12
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.99
DICHLOROBENZENE, m	4.7	0.12
DICHLOROBENZENE, p	4.7	3.04
DICHLOROBENZENE, o,m, & p	50	4.15
1,1 DICHLOROETHANE	5	2.72
1,2 DICHLOROETHANE	5	0.26
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	6.40
1,2 DICHLOROETHENE, trans	5	0.18
1,2 DICHLOROPROPANE	5	0.08
ETHYLBENZENE	50	0.07
METHYLENE CHLORIDE	5	1.26
TETRACHLOROETHENE	0.7	1.38
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.31
TRICHLOROETHYLENE	5	1.27
VINYL CHLORIDE	2	2.92
XYLENE, o	5	0.29
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.26

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30128W2	SAMPLER:	PM/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	39.75
BENZENE	ND	2.75
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.55
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.83
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.81
DICHLOROBENZENE, m	4.7	0.15
DICHLOROBENZENE, p	4.7	3.52
DICHLOROBENZENE, o,m, & p	50	5.28
1,1 DICHLOROETHANE	5	5.38
1,2 DICHLOROETHANE	5	0.29
1,1 DICHLOROETHENE	0.07	0.13
1,2 DICHLOROETHENE, cis	50	11.08
1,2 DICHLOROETHENE, trans	5	0.80
1,2 DICHLOROPROPANE	5	0.15
ETHYLBENZENE	50	0.11
METHYLENE CHLORIDE	5	1.77
TETRACHLOROETHENE	0.7	3.52
TOLUENE	5	0.09
1,1,1 TRICHLOROETHANE	5	1.07
TRICHLOROETHYLENE	5	2.10
VINYL CHLORIDE	2	1.44
XYLENE, o	5	0.57
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	0.61

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30128W3	SAMPLER:	PM/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	365.86
BENZENE	ND	15.58
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.73
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	4.84
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.19
DICHLOROBENZENE, m	4.7	0.41
DICHLOROBENZENE, p	4.7	3.66
DICHLOROBENZENE, o,m, & p	50	5.26
1,1 DICHLOROETHANE	5	41.53
1,2 DICHLOROETHANE	5	1.30
1,1 DICHLOROETHENE	0.07	1.06
1,2 DICHLOROETHENE, cis	50	186.66
1,2 DICHLOROETHENE, trans	5	1.76
1,2 DICHLOROPROPANE	5	0.56
ETHYLBENZENE	50	0.16
METHYLENE CHLORIDE	5	16.54
TETRACHLOROETHENE	0.7	33.89
TOLUENE	5	0.42
1,1,1 TRICHLOROETHANE	5	7.45
TRICHLOROETHYLENE	5	13.53
VINYL CHLORIDE	2	21.81
XYLENE, o	5	11.90
XYLENE, m & p	5	0.08
XYLENE, o, m & p	50	11.98

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30128W4	SAMPLER:	PM/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	262.73
BENZENE	ND	0.77
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.04
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.09
DICHLOROBENZENE, m	4.7	0.10
DICHLOROBENZENE, p	4.7	3.58
DICHLOROBENZENE, o,m, & p	50	3.76
1,1 DICHLOROETHANE	5	0.93
1,2 DICHLOROETHANE	5	0.25
1,1 DICHLOROETHENE	0.07	0.11
1,2 DICHLOROETHENE, cis	50	13.26
1,2 DICHLOROETHENE, trans	5	0.73
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.04
METHYLENE CHLORIDE	5	3.41
TETRACHLOROETHENE	0.7	223.74
TOLUENE	5	0.14
1,1,1 TRICHLOROETHANE	5	0.73
TRICHLOROETHYLENE	5	3.67
VINYL CHLORIDE	2	1.00
XYLENE, o	5	0.19
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	0.16

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30128W5	SAMPLER:	PM/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	503.90
BENZENE	ND	11.09
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.08
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	0.40
DICHLOROBENZENE, m	4.7	0.16
DICHLOROBENZENE, p	4.7	1.79
DICHLOROBENZENE, o,m, & p	50	2.35
1,1 DICHLOROETHANE	5	0.81
1,2 DICHLOROETHANE	5	0.75
1,1 DICHLOROETHENE	0.07	0.85
1,2 DICHLOROETHENE, cis	50	27.67
1,2 DICHLOROETHENE, trans	5	0.08
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.10
METHYLENE CHLORIDE	5	6.21
TETRACHLOROETHENE	0.7	402.89
TOLUENE	5	0.25
1,1,1 TRICHLOROETHANE	5	6.58
TRICHLOROETHYLENE	5	41.77
VINYL CHLORIDE	2	0.00
XYLENE, o	5	2.71
XYLENE, m & p	5	0.09
XYLENE, o, m & p	50	2.80

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	302004W1	SAMPLER:	DC/BB
LOCATION:	WELL 1	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

WELL#2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	26.36
BENZENE	ND	2.88
BROMODICHLOROMETHANE	50 ***	0.01
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.03
CHLOROBENZENE	6	1.02
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	6	1.42
CHLOROFORM	100 ***	0.23
DICHLOROBENZENE, o	4.7	1.01
DICHLOROBENZENE, m	4.7	0.80
DICHLOROBENZENE, p	4.7	2.32
DICHLOROBENZENE, o,m, & p	50	3.63
1,1 DICHLOROETHANE	6	2.74
1,2 DICHLOROETHANE	6	0.25
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	6.69
1,2 DICHLOROETHENE, trans	6	0.19
1,2 DICHLOROPROPANE	6	0.14
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	6	1.14
TETRACHLOROETHENE	0.7	1.11
TOLUENE	6	0.08
1,1,1 TRICHLOROETHANE	6	0.23
TRICHLOROETHYLENE	6	1.39
VINYL CHLORIDE	2	3.00
XYLENE, o	6	0.21
XYLENE, m & p	6	0.07
XYLENE, o, m & p	50	0.28

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30204W3	SAMPLER:	DC/BB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

well #2 is down

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	473.19
BENZENE	ND	19.67
BROMODICHLOROMETHANE	50 ***	1.44
BROMOFORM	50 ***	0.21
CARBON TETRACHLORIDE	5	0.18
CHLOROBENZENE	5	3.79
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	10.34
CHLOROFORM	100 ***	2.59
DICHLOROBENZENE, o	4.7	3.04
DICHLOROBENZENE, m	4.7	1.87
DICHLOROBENZENE, p	4.7	3.08
DICHLOROBENZENE, o,m, & p	50	7.99
1,1 DICHLOROETHANE	5	47.12
1,2 DICHLOROETHANE	5	2.09
1,1 DICHLOROETHENE	0.07	2.24
1,2 DICHLOROETHENE, cis	50	216.01
1,2 DICHLOROETHENE, trans	5	3.01
1,2 DICHLOROPROPANE	5	2.43
ETHYLBENZENE	50	2.25
METHYLENE CHLORIDE	5	18.52
TETRACHLOROETHENE	0.7	46.78
TOLUENE	5	2.27
1,1,1 TRICHLOROETHANE	5	9.40
TRICHLOROETHYLENE	5	19.16
VINYL CHLORIDE	2	34.75
XYLENE, o	5	15.96
XYLENE, m & p	5	2.07
XYLENE, o, m & p	50	18.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30204W4	SAMPLER:	DC/BB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	266.68
BENZENE	ND	0.89
BROMODICHLOROMETHANE	50 ***	0.08
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.20
CHLOROBENZENE	5	0.24
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.12
CHLOROFORM	100 ***	0.63
DICHLOROBENZENE, o	4.7	0.19
DICHLOROBENZENE, m	4.7	0.88
DICHLOROBENZENE, p	4.7	2.67
DICHLOROBENZENE, o,m, & p	50	3.14
1,1 DICHLOROETHANE	5	1.22
1,2 DICHLOROETHANE	5	0.37
1,1 DICHLOROETHENE	0.07	0.17
1,2 DICHLOROETHENE, cis	50	13.52
1,2 DICHLOROETHENE, trans	5	0.52
1,2 DICHLOROPROPANE	5	0.16
ETHYLBENZENE	50	0.25
METHYLENE CHLORIDE	5	2.86
TETRACHLOROETHENE	0.7	236.34
TOLUENE	5	0.28
1,1,1 TRICHLOROETHANE	5	1.13
TRICHLOROETHYLENE	5	4.26
VINYL CHLORIDE	2	0.03
XYLENE, o	5	0.20
XYLENE, m & p	5	0.22
XYLENE, o, m & p	50	0.42

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30204W5	SAMPLER:	DC/BB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	508.98
BENZENE	ND	10.98
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.10
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.09
DICHLOROBENZENE, o	4.7	0.18
DICHLOROBENZENE, m	4.7	0.17
DICHLOROBENZENE, p	4.7	3.21
DICHLOROBENZENE, o,m, & p	50	3.56
1,1 DICHLOROETHANE	5	0.85
1,2 DICHLOROETHANE	5	0.69
1,1 DICHLOROETHENE	0.07	0.39
1,2 DICHLOROETHENE, cis	50	28.91
1,2 DICHLOROETHENE, trans	5	0.73
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.13
METHYLENE CHLORIDE	5	5.78
TETRACHLOROETHENE	0.7	399.71
TOLUENE	5	0.19
1,1,1 TRICHLOROETHANE	5	6.58
TRICHLOROETHYLENE	5	47.42
VINYL CHLORIDE	2	0.21
XYLENE, o	5	2.77
XYLENE, m & p	5	0.11
XYLENE, o, m & p	50	2.98

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30211W1	SAMPLER:	MA/MR
LOCATION:	WELL 1	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	21.80
BENZENE	ND	2.00
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.70
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.69
CHLOROFORM	100 ***	0.02
DICHLOROBENZENE, o	4.7	0.79
DICHLOROBENZENE, m	4.7	0.20
DICHLOROBENZENE, p	4.7	2.08
DICHLOROBENZENE, o,m, & p	50	3.07
1,1 DICHLOROETHANE	5	2.52
1,2 DICHLOROETHANE	5	0.23
1,1 DICHLOROETHENE	0.07	0.05
1,2 DICHLOROETHENE, cis	50	4.46
1,2 DICHLOROETHENE, trans	5	0.29
1,2 DICHLOROPROPANE	5	0.11
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	1.74
TETRACHLOROETHENE	0.7	1.20
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	0.24
TRICHLOROETHYLENE	5	1.20
VINYL CHLORIDE	2	3.02
XYLENE, o	5	0.17
XYLENE, m & p	5	0.04
XYLENE, o, m & p	50	0.21

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30211W3	SAMPLER:	MA/MR
LOCATION:	WELL 3	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	317.93
BENZENE	ND	11.93
BROMODICHLOROMETHANE	50 ***	0.98
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.15
CHLOROBENZENE	5	1.82
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	3.89
CHLOROFORM	100 ***	0.00
DICHLOROBENZENE, o	4.7	1.47
DICHLOROBENZENE, m	4.7	0.51
DICHLOROBENZENE, p	4.7	1.42
DICHLOROBENZENE, o,m, & p	50	3.40
1,1 DICHLOROETHANE	5	41.92
1,2 DICHLOROETHANE	5	0.84
1,1 DICHLOROETHENE	0.07	0.99
1,2 DICHLOROETHENE, cis	50	141.31
1,2 DICHLOROETHENE, trans	5	1.74
1,2 DICHLOROPROPANE	5	1.21
ETHYLBENZENE	50	0.31
METHYLENE CHLORIDE	5	17.06
TETRACHLOROETHENE	0.7	41.59
TOLUENE	5	0.43
1,1,1 TRICHLOROETHANE	5	4.39
TRICHLOROETHYLENE	5	15.92
VINYL CHLORIDE	2	18.52
XYLENE, o	5	9.76
XYLENE, m & p	5	0.27
XYLENE, o, m & p	50	10.03

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30211W4	SAMPLER:	MA/MR
LOCATION:	WELL 4	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	236.65
BENZENE	ND	0.85
BROMODICHLOROMETHANE	50 ***	0.08
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.10
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.01
CHLOROFORM	100 ***	0.01
DICHLOROBENZENE, o	4.7	0.13
DICHLOROBENZENE, m	4.7	0.09
DICHLOROBENZENE, p	4.7	0.49
DICHLOROBENZENE, o,m, & p	50	0.71
1,1 DICHLOROETHANE	5	1.15
1,2 DICHLOROETHANE	5	0.25
1,1 DICHLOROETHENE	0.07	0.04
1,2 DICHLOROETHENE, cis	50	9.51
1,2 DICHLOROETHENE, trans	5	0.74
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	3.96
TETRACHLOROETHENE	0.7	212.93
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.89
TRICHLOROETHYLENE	5	3.82
VINYL CHLORIDE	2	0.61
XYLENE, o	5	0.06
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.08

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30211W5	SAMPLER:	MA/MR
LOCATION:	WELL 5	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	519.80
BENZENE	ND	8.93
BROMODICHLOROMETHANE	50 ***	0.67
BROMOFORM	50 ***	3.00
CARBON TETRACHLORIDE	5	1.14
CHLOROBENZENE	5	0.72
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.75
CHLOROFORM	100 ***	0.96
DICHLOROBENZENE, o	4.7	0.45
DICHLOROBENZENE, m	4.7	0.59
DICHLOROBENZENE, p	4.7	0.80
DICHLOROBENZENE, o,m, & p	50	1.84
1,1 DICHLOROETHANE	5	1.46
1,2 DICHLOROETHANE	5	1.26
1,1 DICHLOROETHENE	0.07	0.21
1,2 DICHLOROETHENE, cis	50	22.00
1,2 DICHLOROETHENE, trans	5	0.86
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.51
METHYLENE CHLORIDE	5	2.93
TETRACHLOROETHENE	0.7	407.90
TOLUENE	5	0.59
1,1,1 TRICHLOROETHANE	5	8.08
TRICHLOROETHYLENE	5	53.42
VINYL CHLORIDE	2	2.05
XYLENE, o	5	2.66
XYLENE, m & p	5	0.48
XYLENE, o, m & p	50	3.14

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30218W1	SAMPLER:	MA/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	2/18/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	26.60
BENZENE	ND	2.50
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.05
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.09
CHLOROFORM	100 ***	0.18
DICHLOROBENZENE, o	4.7	0.92
DICHLOROBENZENE, m	4.7	0.16
DICHLOROBENZENE, p	4.7	1.99
DICHLOROBENZENE, o,m, & p	50	9.07
1,1 DICHLOROETHANE	5	2.58
1,2 DICHLOROETHANE	5	0.80
1,1 DICHLOROETHENE	0.07	0.06
1,2 DICHLOROETHENE, cis	50	5.61
1,2 DICHLOROETHENE, trans	5	0.17
1,2 DICHLOROPROPANE	5	0.09
ETHYLBENZENE	50	0.08
METHYLENE CHLORIDE	5	2.79
TETRACHLOROETHENE	0.7	0.90
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.18
TRICHLOROETHYLENE	5	1.04
VINYL CHLORIDE	2	3.70
XYLENE, o	5	0.18
XYLENE, m & p	5	0.03
XYLENE, o, m & p	50	0.21

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30218W3	SAMPLER:	MA/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	2/18/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	409.42
BENZENE	ND	15.49
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.07
CARBON TETRACHLORIDE	5	0.14
CHLOROBENZENE	5	2.31
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	13.07
CHLOROFORM	100 ***	1.52
DICHLOROBENZENE, o	4.7	1.89
DICHLOROBENZENE, m	4.7	0.60
DICHLOROBENZENE, p	4.7	5.19
DICHLOROBENZENE, o,m, & p	50	7.68
1,1 DICHLOROETHANE	5	42.32
1,2 DICHLOROETHANE	5	1.24
1,1 DICHLOROETHENE	0.07	1.01
1,2 DICHLOROETHENE, cis	50	185.49
1,2 DICHLOROETHENE, trans	5	1.50
1,2 DICHLOROPROPANE	5	0.68
ETHYLBENZENE	50	0.35
METHYLENE CHLORIDE	5	31.08
TETRACHLOROETHENE	0.7	39.71
TOLUENE	5	0.50
1,1,1 TRICHLOROETHANE	5	4.30
TRICHLOROETHYLENE	5	14.32
VINYL CHLORIDE	2	34.00
XYLENE, o	5	12.88
XYLENE, m & p	5	0.31
XYLENE, o, m & p	50	12.69

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30218W4	SAMPLER:	MA/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	2/18/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	299.54
BENZENE	ND	0.82
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.27
DICHLOROBENZENE, o	4.7	0.11
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.88
DICHLOROBENZENE, o,m, & p	50	0.83
1,1 DICHLOROETHANE	5	1.11
1,2 DICHLOROETHANE	5	0.30
1,1 DICHLOROETHENE	0.07	0.07
1,2 DICHLOROETHENE, cis	50	11.54
1,2 DICHLOROETHENE, trans	5	0.34
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.02
METHYLENE CHLORIDE	5	7.56
TETRACHLOROETHENE	0.7	270.78
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.88
TRICHLOROETHYLENE	5	3.60
VINYL CHLORIDE	2	1.44
XYLENE, o	5	0.08
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.08

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30218W5	SAMPLER:	MA/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	2/18/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	621.88
BENZENE	ND	11.26
BROMODICHLOROMETHANE	50 ***	0.27
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.63
CHLOROBENZENE	5	0.42
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.23
CHLOROFORM	100 ***	0.58
DICHLOROBENZENE, o	4.7	0.29
DICHLOROBENZENE, m	4.7	0.85
DICHLOROBENZENE, p	4.7	2.18
DICHLOROBENZENE, o,m, & p	50	2.82
1,1 DICHLOROETHANE	5	1.38
1,2 DICHLOROETHANE	5	1.35
1,1 DICHLOROETHENE	0.07	1.28
1,2 DICHLOROETHENE, cis	50	27.91
1,2 DICHLOROETHENE, trans	5	0.97
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.44
METHYLENE CHLORIDE	5	17.66
TETRACHLOROETHENE	0.7	494.35
TOLUENE	5	0.55
1,1,1 TRICHLOROETHANE	5	7.09
TRICHLOROETHYLENE	5	45.26
VINYL CHLORIDE	2	1.83
XYLENE, o	5	8.21
XYLENE, m & p	5	0.42
XYLENE, o, m & p	50	8.63

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*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30225W1	SAMPLER:	MA/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	28.42
BENZENE	ND	2.34
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.00
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	2.00
CHLOROFORM	100 ***	0.17
DICHLOROBENZENE, o	4.7	0.83
DICHLOROBENZENE, m	4.7	0.17
DICHLOROBENZENE, p	4.7	2.84
DICHLOROBENZENE, o,m, & p	50	3.64
1,1 DICHLOROETHANE	5	2.83
1,2 DICHLOROETHANE	5	0.29
1,1 DICHLOROETHENE	0.07	0.05
1,2 DICHLOROETHENE, cis	50	5.35
1,2 DICHLOROETHENE, trans	5	0.38
1,2 DICHLOROPROPANE	5	0.08
ETHYLBENZENE	50	0.07
METHYLENE CHLORIDE	5	3.59
TETRACHLOROETHENE	0.7	1.44
TOLUENE	5	0.04
1,1,1 TRICHLOROETHANE	5	0.25
TRICHLOROETHYLENE	5	1.10
VINYL CHLORIDE	2	3.80
XYLENE, o	5	0.18
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.20

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30225W2	SAMPLER:	MA/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (ug/l)	MEASURED CONCENTRATION^{**} (ug/l)
TOTAL VOCs	100	25.51
BENZENE	ND	1.20
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.03
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.94
CHLOROFORM	100 ***	0.19
DICHLOROBENZENE, o	4.7	1.08
DICHLOROBENZENE, m	4.7	0.21
DICHLOROBENZENE, p	4.7	3.02
DICHLOROBENZENE, o,m, & p	50	4.31
1,1 DICHLOROETHANE	5	3.01
1,2 DICHLOROETHANE	5	0.21
1,1 DICHLOROETHENE	0.07	0.07
1,2 DICHLOROETHENE, cis	50	5.34
1,2 DICHLOROETHENE, trans	5	0.32
1,2 DICHLOROPROPANE	5	0.08
ETHYLBENZENE	50	0.08
METHYLENE CHLORIDE	5	3.58
TETRACHLOROETHENE	0.7	1.10
TOLUENE	5	0.18
1,1,1 TRICHLOROETHANE	5	0.51
TRICHLOROETHYLENE	5	1.03
VINYL CHLORIDE	2	1.21
XYLENE, o	5	0.18
XYLENE, m & p	5	0.01
XYLENE, o, m & p	50	0.19

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TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30225W3	SAMPLER:	MA/BB
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	351.08
BENZENE	ND	13.38
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.03
CHLOROBENZENE	5	1.86
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.38
CHLOROFORM	100 ***	2.06
DICHLOROBENZENE, o	4.7	0.81
DICHLOROBENZENE, m	4.7	0.41
DICHLOROBENZENE, p	4.7	1.40
DICHLOROBENZENE, o,m, & p	50	2.62
1,1 DICHLOROETHANE	5	38.59
1,2 DICHLOROETHANE	5	1.02
1,1 DICHLOROETHENE	0.07	0.88
1,2 DICHLOROETHENE, cis	50	157.44
1,2 DICHLOROETHENE, trans	5	1.29
1,2 DICHLOROPROPANE	5	0.50
ETHYLBENZENE	50	0.27
METHYLENE CHLORIDE	5	27.14
TETRACHLOROETHENE	0.7	46.23
TOLUENE	5	0.88
1,1,1 TRICHLOROETHANE	5	5.09
TRICHLOROETHYLENE	5	13.51
VINYL CHLORIDE	2	27.00
XYLENE, o	5	10.12
XYLENE, m & p	5	0.21
XYLENE, o, m & p	50	10.33

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30225W4	SAMPLER:	MA/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	284.44
BENZENE	ND	0.81
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.59
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.81
DICHLOROBENZENE, o	4.7	0.15
DICHLOROBENZENE, m	4.7	0.04
DICHLOROBENZENE, p	4.7	1.04
DICHLOROBENZENE, o,m, & p	50	1.28
1,1 DICHLOROETHANE	5	1.14
1,2 DICHLOROETHANE	5	0.25
1,1 DICHLOROETHENE	0.07	0.00
1,2 DICHLOROETHENE, cis	50	10.52
1,2 DICHLOROETHENE, trans	5	0.10
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.03
METHYLENE CHLORIDE	5	5.79
TETRACHLOROETHENE	0.7	258.28
TOLUENE	5	0.05
1,1,1 TRICHLOROETHANE	5	0.72
TRICHLOROETHYLENE	5	3.38
VINYL CHLORIDE	2	1.39
XYLENE, o	5	0.08
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.05

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30225W5	SAMPLER:	MA/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	551.07
BENZENE	ND	8.71
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.08
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.52
DICHLOROBENZENE, o	4.7	0.14
DICHLOROBENZENE, m	4.7	0.07
DICHLOROBENZENE, p	4.7	1.75
DICHLOROBENZENE, o,m, & p	50	1.96
1,1 DICHLOROETHANE	5	0.58
1,2 DICHLOROETHANE	5	0.73
1,1 DICHLOROETHENE	0.07	0.41
1,2 DICHLOROETHENE, cis	50	21.86
1,2 DICHLOROETHENE, trans	5	0.18
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.08
METHYLENE CHLORIDE	5	11.15
TETRACHLOROETHENE	0.7	458.18
TOLUENE	5	0.11
1,1,1 TRICHLOROETHANE	5	8.39
TRICHLOROETHYLENE	5	39.33
VINYL CHLORIDE	2	0.43
XYLENE, o	5	2.89
XYLENE, m & p	5	0.08
XYLENE, o, m & p	50	2.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30304W1	SAMPLER:	PM/MA
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	22.11
BENZENE	ND	2.18
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.72
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.35
CHLOROFORM	100 ***	0.18
DICHLOROBENZENE, o	4.7	0.70
DICHLOROBENZENE, m	4.7	0.14
DICHLOROBENZENE, p	4.7	2.08
DICHLOROBENZENE, o,m, & p	50	2.90
1,1 DICHLOROETHANE	5	2.22
1,2 DICHLOROETHANE	5	0.23
1,1 DICHLOROETHENE	0.07	0.02
1,2 DICHLOROETHENE, cis	50	4.81
1,2 DICHLOROETHENE, trans	5	0.19
1,2 DICHLOROPROPANE	5	0.09
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	1.68
TETRACHLOROETHENE	0.7	0.81
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.23
TRICHLOROETHYLENE	5	1.08
VINYL CHLORIDE	2	3.22
XYLENE, o	5	0.16
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.18

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30304W2	SAMPLER:	PM
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	26.46
BENZENE	ND	1.58
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	1.00
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	1.95
CHLOROFORM	100 ***	0.23
DICHLOROBENZENE, o	4.7	0.84
DICHLOROBENZENE, m	4.7	0.05
DICHLOROBENZENE, p	4.7	2.35
DICHLOROBENZENE, o,m, & p	50	3.24
1,1 DICHLOROETHANE	5	3.59
1,2 DICHLOROETHANE	5	0.21
1,1 DICHLOROETHENE	0.07	0.09
1,2 DICHLOROETHENE, cis	50	6.69
1,2 DICHLOROETHENE, trans	5	0.22
1,2 DICHLOROPROPANE	5	0.12
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	1.66
TETRACHLOROETHENE	0.7	0.75
TOLUENE	5	0.02
1,1,1 TRICHLOROETHANE	5	0.66
TRICHLOROETHYLENE	5	1.40
VINYL CHLORIDE	2	1.75
XYLENE, o	5	0.80
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.32

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 601 & 602

SAMPLE ID:	30304W3	SAMPLER:	PM & MA
LOCATION:	WELL 3	ANALYST:	PM/LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	301.23
BENZENE	ND	11.90
BROMODICHLOROMETHANE	50 ***	0.16
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.22
CHLOROBENZENE	5	1.66
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	7.23
CHLOROFORM	100 ***	2.30
DICHLOROBENZENE, o	4.7	1.47
DICHLOROBENZENE, m	4.7	0.51
DICHLOROBENZENE, p	4.7	1.29
DICHLOROBENZENE, o,m, & p	50	3.27
1,1 DICHLOROETHANE	5	33.32
1,2 DICHLOROETHANE	5	0.98
1,1 DICHLOROETHENE	0.07	0.96
1,2 DICHLOROETHENE, cis	50	143.02
1,2 DICHLOROETHENE, trans	5	1.16
1,2 DICHLOROPROPANE	5	0.78
ETHYLBENZENE	50	0.25
METHYLENE CHLORIDE	5	13.29
TETRACHLOROETHENE	0.7	25.86
TOLUENE	5	0.41
1,1,1 TRICHLOROETHANE	5	3.91
TRICHLOROETHYLENE	5	13.11
VINYL CHLORIDE	2	28.12
XYLENE, o	5	9.11
XYLENE, m & p	5	0.28
XYLENE, o, m & p	50	9.37

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30304W4	SAMPLER:	PM & MA
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	188.99
BENZENE	ND	0.89
BROMODICHLOROMETHANE	80 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.00
CHLOROBENZENE	5	0.00
CHLORODIBROMOMETHANE	80 ***	0.00
CHLOROETHANE	5	0.00
CHLOROFORM	100 ***	0.28
DICHLOROBENZENE, o	4.7	0.17
DICHLOROBENZENE, m	4.7	0.08
DICHLOROBENZENE, p	4.7	0.07
DICHLOROBENZENE, o,m, & p	80	0.92
1,1 DICHLOROETHANE	5	1.01
1,2 DICHLOROETHANE	5	0.20
1,1 DICHLOROETHENE	0.07	0.03
1,2 DICHLOROETHENE, cis	50	9.21
1,2 DICHLOROETHENE, trans	5	0.00
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.00
METHYLENE CHLORIDE	5	3.18
TETRACHLOROETHENE	0.7	188.38
TOLUENE	5	0.08
1,1,1 TRICHLOROETHANE	5	0.88
TRICHLOROETHYLENE	5	3.32
VINYL CHLORIDE	2	1.59
XYLENE, o	5	0.04
XYLENE, m & p	5	0.02
XYLENE, o, m & p	50	0.06

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** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

ORGANICS ANALYSIS REPORT
EPA METHODS 801 & 802

SAMPLE ID:	30304W5	SAMPLER:	PM & MA
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (ug/l)	MEASURED CONCENTRATION** (ug/l)
TOTAL VOCs	100	426.22
BENZENE	ND	8.51
BROMODICHLOROMETHANE	50 ***	0.00
BROMOFORM	50 ***	0.00
CARBON TETRACHLORIDE	5	0.44
CHLOROBENZENE	5	0.31
CHLORODIBROMOMETHANE	50 ***	0.00
CHLOROETHANE	5	0.57
CHLOROFORM	100 ***	1.22
DICHLOROBENZENE, o	4.7	0.35
DICHLOROBENZENE, m	4.7	0.27
DICHLOROBENZENE, p	4.7	0.89
DICHLOROBENZENE, o,m, & p	50	1.31
1,1 DICHLOROETHANE	5	1.08
1,2 DICHLOROETHANE	5	0.91
1,1 DICHLOROETHENE	0.07	1.05
1,2 DICHLOROETHENE, cis	50	21.67
1,2 DICHLOROETHENE, trans	5	0.71
1,2 DICHLOROPROPANE	5	0.00
ETHYLBENZENE	50	0.23
METHYLENE CHLORIDE	5	7.28
TETRACHLOROETHENE	0.7	326.83
TOLUENE	5	0.35
1,1,1 TRICHLOROETHANE	5	8.95
TRICHLOROETHYLENE	5	41.11
VINYL CHLORIDE	2	1.20
XYLENE, o	5	2.42
XYLENE, m & p	5	2.29
XYLENE, o, m & p	50	4.71

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** HIGHLIGHTED COMPOUNDS ARE IN EXCESS OF ALLOWABLE EFFLUENT CONCENTRATIONS.

*** TOTAL CONCENTRATION OF THESE FOUR TRIHALOMETHANES SHALL NOT EXCEED 100 ug/l.

APPENDIX D

SELF MONITORING INORGANIC ANALYSES

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90104EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/4/99	TIME:	7:58 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901041A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/4/99	TIME:	8:01 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30106EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/6/99	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901061A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/6/99	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/98 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90108EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/8/99	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.246
DISSOLVED OXYGEN	>=5.0	8.7
AMMONIA	10	7.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901081A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	1/8/99	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.08
MANGANESE, TOTAL	0.3	0.245
DISSOLVED OXYGEN	>=5.0	2.9
AMMONIA	10	7.40

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90111EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/11/99	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901111A	ANALYST:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/11/99	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- ✱ REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ✱✱ ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- ✱✱✱ HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90119EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/13/99	TIME:	7:53 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901131A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/13/93	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30115EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/15/93	TIME:	8:06 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.242
DISSOLVED OXYGEN	>=5.0	7.1
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

Time [min]

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901151A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/15/93	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.243
DISSOLVED OXYGEN	>=5.0	2.4
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90118EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/18/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	301181A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/18/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.2
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30120EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/20/99	TIME:	7:59 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	901201A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/20/99	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30122EA	SAMPLER:	PM/LK
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.238
DISSOLVED OXYGEN	>=5.0	7.7
AMMONIA	10	7.40

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	301221A	SAMPLER:	PM/LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.240
DISSOLVED OXYGEN	>=5.0	2.1
AMMONIA	10	7.10

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30125EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/25/93	TIME:	7:52 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	301251A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/25/93	TIME:	7:57 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90127EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/27/99	TIME:	7:49 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	801271A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/27/99	TIME:	7:46 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30129EA	SAMPLER:	PM/LK
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	1/29/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.243
DISSOLVED OXYGEN	>=5.0	8.6
AMMONIA	10	7.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	301291A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	1/29/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.249
DISSOLVED OXYGEN	≥5.0	2.0
AMMONIA	10	7.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30201EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/1/99	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90201IA	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/1/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30203EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/3/93	TIME:	7:47 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302031A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/3/93	TIME:	2/3/93

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30205EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/5/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.226
DISSOLVED OXYGEN	>=5.0	9.2
AMMONIA	10	4.88

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302051A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/5/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.226
DISSOLVED OXYGEN	>=5.0	2.9
AMMONIA	10	5.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30208EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	2/8/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥5.0	9.4
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302081A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	2/8/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	9.5
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30210EA	SAMPLER:	LK
LOCATION:	EFFLUENT/RAP	ANALYST:	LK
DATE:	2/10/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	8.9
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302101A	SAMPLER:	LK
LOCATION:	INFLUENT/RAP	ANALYST:	LK
DATE:	2/10/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	9.6
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30212EA	SAMPLER:	LK
LOCATION:	EFFLUENT/RAP	ANALYST:	LK
DATE:	2/12/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.228
DISSOLVED OXYGEN	>=5.0	8.6
AMMONIA	10	4.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302121A	SAMPLER:	LK
LOCATION:	INFLUENT/RAP	ANALYST:	LK
DATE:	2/12/93	TIME:	8:08 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.228
DISSOLVED OXYGEN	>=5.0	3.6
AMMONIA	10	5.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30215EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/15/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥ 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302151A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/15/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30217EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/17/93	TIME:	7:43 AM

WELL#2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	8.3
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302171A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/17/93	TIME:	7:47 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	3.1
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30219EA	SAMPLE:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/19/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (mg/l)*	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.00
MANGANESE, TOTAL	0.3	0.228
DISSOLVED OXYGEN	>=5.0	9.4
AMMONIA	10	6.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302191A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/19/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.229
DISSOLVED OXYGEN	>=5.0	2.8
AMMONIA	10	5.13

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/6/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30222EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	NOT PERFORMED
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	7.7
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302221A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/22/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	NOT PERFORMED
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	2.9
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30224EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/24/93	TIME:	8:10 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	9.0
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30224IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	2/24/93	TIME:	8:10 AM

WELL #2 IS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOR PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	2.8
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30226EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	2/26/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.00
MANGANESE, TOTAL	0.3	0.244
DISSOLVED OXYGEN	>=5.0	7.7
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	302261A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	2/26/93	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.235
DISSOLVED OXYGEN	>=5.0	2.7
AMMONIA	10	7.62

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30301EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/01/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	8.1
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303011A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/01/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	2.6
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30303EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/3/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
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GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303031A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/3/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥ 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
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GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30305EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/5/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.00
MANGANESE, TOTAL	0.3	0.255
DISSOLVED OXYGEN	>=5.0	8.6
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
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GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303051A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/5/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.244
DISSOLVED OXYGEN	>=5.0	2.8
AMMONIA	10	7.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
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GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30308EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/8/93	TIME:	7:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥ 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
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GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303081A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/8/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30310EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/10/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303101A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/10/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30312EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/12/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.243
DISSOLVED OXYGEN	>=5.0	8.0
AMMONIA	10	7.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303121A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/12/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.240
DISSOLVED OXYGEN	>=5.0	2.2
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30315EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/15/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.3
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303151A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/15/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30319EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	3/19/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.238
DISSOLVED OXYGEN	>=5.0	8.8
AMMONIA	10	7.88

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303191A	SAMPLE SIZE:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	3/19/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.243
DISSOLVED OXYGEN	>=5.0	3.7
AMMONIA	10	8.13

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30322EA	SAMPLE EFF:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/22/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303221A	SAMPLER:	PM
LOCATION:	3/22/93	ANALYST:	PM
DATE:	3/22/93	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

火 REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

火火 ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

火火火 HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30324EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/24/93	TIME:	7:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30241A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/24/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	PM/LK
DATE:	3/25/93	TIME:	11:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.238
DISSOLVED OXYGEN	>=5.0	8.0
AMMONIA	10	7.50

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303251A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM/LK
DATE:	3/25/93	TIME:	10:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.242
DISSOLVED OXYGEN	>=5.0	3.8
AMMONIA	10	7.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30329EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/29/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	303291A	SAMPLER:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/29/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)*	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30331EA	SAMPLER:	PM
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	3/31/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30331IA	SAMPLED:	PM
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	3/31/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE
 CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE
 TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT
 CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90107W1	SAMPLER:	IC/BB
LOCATION:	WELL 1	ANALYST:	PM/LK
DATE:	1/7/99	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.11
MANGANESE, TOTAL	0.3	0.534
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	20.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90107W2	SAMPLER:	TC/BB
LOCATION:	WELL 2	ANALYST:	PM/LK
DATE:	1/7/99	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.06
MANGANESE, TOTAL	0.3	0.287
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	15.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90107W9	SAMPLER:	TC/BB
LOCATION:	WELL 9	ANALYST:	PM/LK
DATE:	1/7/99	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.246
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.29

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90107W4	SAMPLER:	IC/BB
LOCATION:	WELL 4	ANALYST:	PM/LK
DATE:	1/7/99	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.033
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.07

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90107W5	SAMPLER:	TC/BB
LOCATION:	WELL 5	ANALYST:	PM/LK
DATE:	1/7/99	TIME:	8:50-9:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.112
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.14

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90114W1	SAMPLER:	DC/BB
LOCATION:	WELL 1	ANALYST:	PM
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30114W2	SAMPLER:	DC/BB
LOCATION:	WELL 2	ANALYST:	PM
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

火 REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

火火 ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

火火火 HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90114W9	SAMPLER:	DC/BB
LOCATION:	WELL 9	ANALYST:	PM
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30114W4	SAMPLER:	DC/BB
LOCATION:	WELL 4	ANALYST:	PM
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30114W5	SAMPLER:	DC/BB
LOCATION:	WELL 5	ANALYST:	PM
DATE:	1/14/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30121W1	SAMPLER:	PM/BB
LOCATION:	WELL 1	ANALYST:	PM
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.517
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	19.60

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30121W2	SAMPLER:	PM/BB
LOCATION:	WELL 2	ANALYST:	PM
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.289
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	14.90

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/83 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30121W3	SAMPLER:	PM/BB
LOCATION:	WELL 9	ANALYST:	PM
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.249
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.30

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90121W4	SAMPLER:	PM/BB
LOCATION:	WELL 4	ANALYST:	PM
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.028
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.01

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90121W5	SAMPLER:	PM/BB
LOCATION:	WELL 5	ANALYST:	PM
DATE:	1/21/93	TIME:	8:05-8:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.07
MANGANESE, TOTAL	0.3	0.117
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.13

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30128W1	SAMPLER:	PM/BB
LOCATION:	WELL 1	ANALYST:	PM
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	6.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90128W2	SAMPLER:	PM/BB
LOCATION:	WELL 2	ANALYST:	PM
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30128W9	SAMPLER:	PM/BB
LOCATION:	WELL 9	ANALYST:	PM
DATE:	1/28/99	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	90128W4	SAMPLER:	PM/BB
LOCATION:	WELL 4	ANALYST:	PM
DATE:	1/28/99	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30128W5	SAMPLER:	PM/BB
LOCATION:	WELL 5	ANALYST:	PM
DATE:	1/28/93	TIME:	9:00-9:17 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30204W1	SAMPLER:	DC/BB
LOCATION:	WELL 1	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	6.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.530
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	20.62

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE NO:	30204W3	SAMPLER:	DC/BB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.242
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.34

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30204W4	SAMPLER:	DC/BB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.030
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30204W5	SAMPLER:	DC/BB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	2/4/93	TIME:	8:15-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.115
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.13

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30211W1	SAMPLER:	MA/MR
LOCATION:	WELL 1	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	6.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30211W3	SAMPLER:	MA/MR
LOCATION:	WELL 3	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30211W4	SAMPLER:	MA/MR
LOCATION:	WELL 4	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30211W5	SAMPLER:	MA/MR
LOCATION:	WELL 5	ANALYST:	LK
DATE:	2/11/93	TIME:	8:25-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30218W1	SAMPLER:	MA/BB
LOCATION:	WELL 1	ANALYST:	PM
DATE:	2/18/93	TIME:	8:45-9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.14
MANGANESE, TOTAL	0.3	0.528
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	21.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30218W3	SAMPLER:	MA/BB
LOCATION:	WELL 3	ANALYST:	PM
DATE:	2/18/93	TIME:	8:45-9:10 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.253
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.37

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30218W4	SAMPLER:	MA/BB
LOCATION:	WELL 4	ANALYST:	PM
DATE:	2/18/93	TIME:	8:45-9:10 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.024
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.04

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30218W5	SAMPLER:	MA/BB
LOCATION:	WELL 5	ANALYST:	PM
DATE:	2/18/93	TIME:	8:45-9:10 AM

WELL #2 IS DOWN

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.3
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.1
MANGANESE, TOTAL	0.3	0.122
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.14

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30225W1	SAMPLER:	MA/BB
LOCATION:	WELL 1	ANALYST:	PM
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION mg/l**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30225W2	SAMPLER:	MA/BB
LOCATION:	WELL 2	ANALYST:	PM
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30225W3	SAMPLER:	MA/BB
LOCATION:	WELL 3	ANALYST:	PM
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE NO:	3025W4	SAMPLER:	MA/BB
LOCATION:	WELL 4	ANALYST:	PM
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE NO:	30225W5	SAMPLER:	MA/BB
LOCATION:	WELL 5	ANALYST:	PM
DATE:	2/25/93	TIME:	8:35-9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30304W1	SAMPLER:	PM & MA
LOCATION:	WELL 1	ANALYST:	LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.10
MANGANESE, TOTAL	0.3	0.540
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	20.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30304W2	SAMPLER:	PM & MA
LOCATION:	WELL 2	ANALYST:	LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.278
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	15.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30304W3	SAMPLER:	PM & MA
LOCATION:	WELL 3	ANALYST:	LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION[*] (mg/l)^{**}	MEASURED CONCENTRATION^{***} (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mw)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.245
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.40

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30304W4	SAMPLER:	PM & MA
LOCATION:	WELL 4	ANALYST:	LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.030
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30304W5	SAMPLER:	PM & MA
LOCATION:	WELL 5	ANALYST:	LK
DATE:	3/4/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.131
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.15

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE NO:	30311W1	SAMPLER:	PM
LOCATION:	WELL 1	ANALYST:	PM
DATE:	3/11/93	TIME:	7:55-8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30311W2	SAMPLER:	PM
LOCATION:	WELL 2	ANALYST:	PM
DATE:	3/11/93	TIME:	7:55-8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30311W3	SAMPLER:	PM
LOCATION:	WELL 3	ANALYST:	PM
DATE:	3/11/93	TIME:	7:55-8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30311W4	SAMPLER:	PM
LOCATION:	WELL 4	ANALYST:	PM
DATE:	3/11/93	TIME:	7:55-8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30311W5	SAMPLER:	PM
LOCATION:	WELL 5	ANALYST:	PM
DATE:	3/11/93	TIME:	7:55-8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325W1	SAMPLER:	PM/MA
LOCATION:	WELL 1	ANALYST:	PM
DATE:	3/25/93	TIME:	8:05-8:25 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	6.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.11
MANGANESE, TOTAL	0.3	0.531
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	19.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325W2	SAMPLER:	PM/MA
LOCATION:	WELL 2	ANALYST:	PM
DATE:	3/25/93	TIME:	8:05-8:25 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.281
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	15.25

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325W3	SAMPLER:	PM/MA
LOCATION:	WELL 3	ANALYST:	PM
DATE:	3/25/93	TIME:	8:05-8:25 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.236
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.43

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325W4	SAMPLER:	PM/MA
LOCATION:	WELL 4	ANALYST:	PM
DATE:	3/25/93	TIME:	8:05-8:25 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.032
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30325W5	SAMPLER:	PM/MA
LOCATION:	WELL 5	ANALYST:	PM
DATE:	3/25/93	TIME:	8:05-8:25 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.132
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.16

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

APPENDIX E
SPDES REPORTS

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930008/2

01/19/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

*7036-1
57065
Wegener*SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 01/04/93 RECEIVED: 01/04/93

SAMPLE: Wastewater sample, Effluent, 7:58 am

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1.
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	ND*
1,2 Dichloroethene	ug/L	<1.
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	<1.
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	<1.
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	<1.
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	<1.
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

CC:

REMARKS: * Not detected at MDL of 0.07ug/L.

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930008/2

01/19/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

*5086
- 27025
Jackson*SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 01/04/93 RECEIVED: 01/04/93

SAMPLE: Wastewater sample, Effluent, 7:58 am

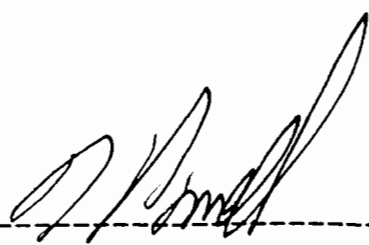
ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.10
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	110
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	0.05
Lead as Pb	mg/L	<0.005
Magnesium as Mg	mg/L	9.1
Manganese as Mn	mg/L	0.20
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	0.03
Tot Dissolved Solids	mg/L	240
Nitrate as N	mg/L	0.8
Sulfate as SO ₄	mg/L	18
Phenols as Phenol	mg/L	<0.001

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930428/2

02/17/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 02/01/93 RECEIVED: 02/01/93

SAMPLE: Wastewater sample, Effluent, 7:47 am

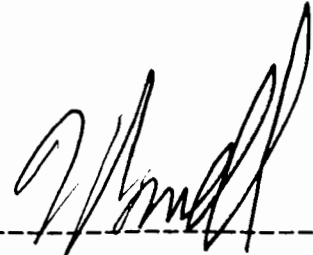
ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
1,1 Dichloroethene	ug/L	ND*
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
1,1 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Bromoform	ug/L	<2
Tetrachloroethene	ug/L	<1
Chlorobenzene	ug/L	<1
1,2 Dichlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

ANALYTICAL PARAMETERS

CC:

REMARKS: * Not detected at MDL of 0.07 ug/L.

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930428/3

02/17/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 02/01/93 RECEIVED: 02/01/93

SAMPLE: Wastewater sample, Effluent, 8:00 am

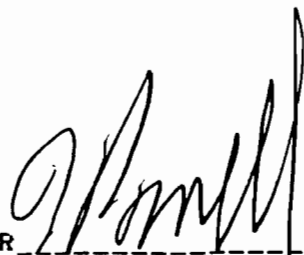
ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.09
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	100
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	0.03
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	<0.05
Lead as Pb	mg/L	<0.005
Magnesium as Mg	mg/L	8.6
Manganese as Mn	mg/L	0.23
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	<0.02
Tot Dissolved Solids	mg/L	250
Nitrate as N	mg/L	1.5
Sulfate as SO ₄	mg/L	19
Phenols as Phenol	mg/L	<0.001

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C931184/2

04/08/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 03/25/93 RECEIVED: 03/25/93

SAMPLE: Wastewater sample, Effluent, 10:55

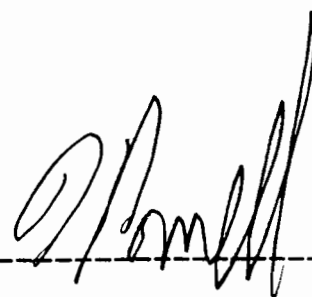
ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1.
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	ND
1,2 Dichloroethene	ug/L	<1.
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	<1.
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	<1.
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<1.
Tetrachloroethene	ug/L	<1.
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	<1.
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

CC:

REMARKS: • Not detected at MDL of 0.07ug/L.

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C931184/3

04/08/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 03/25/93 RECEIVED: 03/25/93

SAMPLE: Wastewater sample, Effluent, 10:45-10:50

ANALYTICAL PARAMETERS

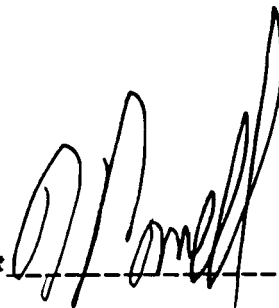
Barium as Ba	mg/L	0.08
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	110
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	<0.05
Lead as Pb	mg/L	<0.001
Magnesium as Mg	mg/L	8.0
Manganese as Mn	mg/L	0.20
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	<0.02
Tot Dissolved Solids	mg/L	230
Nitrate as N	mg/L	1.0
Sulfate as SO4	mg/L	18
Phenols as Phenol	mg/L	0.004

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



APPENDIX F

"AIR STRIPPER STCK EMISSIONS SURVEY"
JUNE, 1993
(Third Quarter Results)

**OLD BETHPAGE LANDFILL
OYSTER BAY SOLID WASTE DISPOSAL COMPLEX
AIR STRIPPER STACK EMISSIONS TEST PROGRAM**

Initial Year of Operation

1992 - 1993 Third Quarter Report

Prepared for:

Lockwood Kessler & Bartlett, Inc.
One Aerial Way
Syosset, New York 11791

Prepared by:

RTP Environmental Associates, Inc.
400 Post Avenue
Westbury, New York 11590

JUNE 1993

**INITIAL YEAR OF OPERATION
THIRD QUARTERLY REPORT
OBSWDC AIR STRIPPER TEST PROGRAM**

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**INITIAL YEAR OF OPERATION
THIRD QUARTERLY REPORT
OBOWDC AIR STRIPPER TEST PROGRAM**

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**INITIAL YEAR OF OPERATION
THIRD QUARTERLY REPORT
OBSWDC AIR STRIPPER TEST PROGRAM**

1.0 INTRODUCTION

The Town of Oyster Bay entered into a Consent Decree (83CIV5357) with the New York State Department of Law (DOL) regarding remediation efforts at the Oyster Bay Solid Waste Disposal Complex (OBSWDC). The Decree requires, among other items, quarterly stack emissions testing of the air stripper. The air stripper was constructed to remediate an offsite groundwater plume.

This report has been prepared by RTP Environmental Associates, Inc. (RTP), the subcontractor for conducting and evaluating the air stripper emissions tests. This report is the third in a series of quarterly reports that will provide data on the individual air emissions tests being performed by RTP. The report provides a brief summary of sampling procedures and analytical methods; a presentation of data collected during the test; an analysis of the data including comparisons to the Consent Decree emissions limits used in facility design; and an air quality modeling analysis.

The tetrachloroethene Annual Guideline Concentration (AGC) value of 0.075 ug/m³ stated in the latest draft Air Guide-1 document (NYSDEC, 1991 Edition) has been changed by the New York State Department of Environmental Conservation (NYSDEC) to 1.2 ug/m³. This change is reflected in this report. The first and second quarter tetrachloroethene results will be reevaluated with the new AGC value and presented later in the annual air stripper monitoring summary report. The annual report will include an overall analysis of all tests combined for direct comparison to the applicable guidelines.

2.0 SAMPLING AND ANALYSIS PROCEDURES

Prior to initiating the stack testing, RTP developed and submitted a monitoring and analysis protocol (RTP 1992) for the quarterly tests to the NYSDEC for approval. The specific sampling and analysis procedures are fully defined in a series of documents including the project scope of work and subsequent

correspondence with the NYSDEC and Lockwood, Kessler & Bartlett, Inc. (LKB). NYSDEC gave formal protocol approval on May 14, 1992 (NYSDECa). The approved protocol detailed the following quarterly monitoring parameters:

- o Monitor air stripper operations continuously. Monitor process parameters including all five individual recovery Well flow rates (GPM), system flow rate (Well total/pump station tank influent - GPM), air stripper influent flow (GPM), pressure filter flow (final holding tank effluent flow - GPM), air stripper blower pressure (inches H₂O), air stripper blower flow rate (SCFM), and status of operation. Record the above mentioned process parameters every 10 minutes during the test program. Record air stripper groundwater inlet totalizer readings at the beginning and end of each VOST run to calculate the total system flow (gallons of groundwater processed) per VOST run.
- o Determine air stripper exhaust concentrations of targeted Volatile Organic Compounds (VOCs) presented in Table 1 by utilizing the Volatile Organic Sampling Train (VOST) procedure as outlined in EPA SW846 Method 0030. Perform three (3) VOST tests consisting of four (4) 40-minute VOST runs (total of twelve (12) 40-minute VOST runs. Utilize VOST train flow rate of 0.1 Lpm and a probe temperature of $\geq 265^{\circ}\text{F}$. Analyze all VOST samples for targeted VOCs (Table 1) by Desorb Purge Trap Desorb Gas Chromatography Mass Spectrometry (DPTD GC/MS) in accordance with EPA SW846 Method 5040/8240.
- o Determine air stripper exhaust ammonia mass flow rate via air stripper influent and effluent water ammonia content and influent and effluent water flow rates (mass balance). Collect one influent and one effluent air stripper water sample at the beginning and end of each VOST test for a total of two influent and two effluent samples per test and six samples of each per quarterly field effort. Analyze all water samples for ammonia in accordance with EPA Method 350.3. Ammonia was determined potentiometrically using an ion selective ammonia electrode and pH meter.
- o Determine the air stripper volumetric flow rate in accordance with EPA Methods 1 and 2 before and after each VOST test (every four (4) VOST runs). Flow rate data is used to determine air stripper exhaust VOC mass emissions rates and ammonia concentrations.

The NYSDEC also approved an RTP recommended change to the protocol used in the first quarterly test (NYSDECb). The VOST sample run times were changed from 40 minutes to 20 minutes with an increase in the VOST sampling rate from 0.1 Lpm to 0.2 Lpm. This change was made because of the very low flow rates that must be maintained over the entire 40 minute sampling period by the flow control module. The new sampling rate and duration were first implemented during the second quarter test program and have been used since. The air stripper stack sampling program was based on achieving a combined sampling and analytical method lower quantitation limit (ug/m^3) that, when modeled, is less than the lowest target compound ambient air AGC at the maximum point of impact.

The analytical laboratories selected for this project were Research Triangle Laboratories (RTL) and EcoTest Laboratories (EcoTest). RTL provided the required analytical gas chromatograph-mass spectrographic services to identify and quantify all substances listed on the Target Compound List (TCL) except ammonia. The TCL was based on the Consent Decree and is provided in Table 1. EcoTest provided ion specific electrode water analysis services to identify and quantify ammonia emissions.

All sampling equipment was calibrated before and after each quarterly field effort. Equipment pre and post calibrations are presented in Appendix A.

3.0 DISCUSSION OF RESULTS

The following section presents a discussion of results for the third quarter stack test at the OBSWDC air stripper on December 14, 1992. Results of quarterly measured monitoring parameters (process operations, VOC and ammonia emissions) detailed in the test protocol and outlined in Section 2.0 will be presented in this section including supplemental ambient VOST data. A comparison of the following test results to Consent Decree limits and ambient air guideline concentrations will be presented in Section 4.0. In all, the testing was within the general parameters and conditions outlined in the test protocol and the results as discussed below are considered valid for this quarter.

3.1 Air Stripper Operational Data

The facility operations were monitored on a continuous basis during the performance of the stack test. Site personnel kept detailed records of Well flows, air stripper flow, air blower flow and blower pressure.

Table 2 summarizes the operational data for the groundwater treatment facility on the day of the air stripper stack test. Operations data during each stack test performed by RTP are provided in the table. Wells 2 and 3 were non-operational as noted in Table 2. The Wells were shut down as a result of a lightning storm and were not able to run during the third quarter test. All other major unit processes were operating normally during the entire period of the test. Process data is presented in Appendix B. Air stripper exhaust flow rates measured at the stack in accordance with EPA Methods 1 and 2 are presented in Section 3.2 along with VOC concentration results.

The observed third quarter operational data and VOC and ammonia results are corrected in Section 5.4 of this report, to determine "expected" air stripper exhaust stack emissions and their impacts during normal operations (all 5 Wells operating). These corrected results will be combined with other first year quarterly test results and modeled (tested during normal operating conditions) for comparison to ambient AGC values.

3.2 Air Stripper VOST Results

Tables 3 through 5 provide the nanogram per liter (ng/l) air concentrations for each TCL constituent detected during the twelve (12) VOST runs performed by RTP at the air stripper exhaust stack. A test is comprised of four (4) individual 20-minute VOST runs. The test averages (G, H and I) are provided in Table 6 along with the average for all test runs (except S-25). Run S-25 was omitted from the Test G average and the third quarter run average due to suspect data. Several compounds were identified with the most prevalent being tetrachloroethene. There was no condensate in any of the test samples primarily because of the low (4 liter) total sample volume required for each test run. Field and trip blank samples were collected. There is no indication that contamination was present in the blank sample tubes. This is described in the RTL report presented in Appendix C. Field data sheets are presented in Appendix D.

In-stack measurements at the facility were made of pressure differential, temperature and dew point. This data was used to calculate the air stripper volumetric flow rate for each VOST test and to correct each individual VOST run sample volume to air stripper exhaust stack conditions. VOST test volumetric flow rates and corrected VOST run sample volumes are presented in Tables 3 through 6. EPA Method 1 and 2 field data sheets are presented in Appendix D.

Air stripper influent and effluent water samples were collected and analyzed for target VOC content. Table 7 provides a direct comparison between stack VOC concentrations (via mass balance) as determined by water analyses (water sample collected during VOST Run 26) and by VOST stack test (Run 26 VOC results). In general, the water analyses suggested lower concentrations of VOCs. Influent and effluent water VOC results are presented in Appendix E.

As stated earlier in Section 3.1, air stripper exhaust stack VOST results will be corrected to represent emissions during normal facility operations. Corrected VOC emissions and impact results are presented in Section 5.4.

3.3 Air Stripper Ammonia Emissions Results

Influent and effluent water samples were collected to evaluate the release of ammonia via a net difference (mass balance) method. A summary of the emissions rates and other data are provided in Table 8. Tests 7, 8 and 9 correspond to stack gas emissions test groups G, H and I, respectively. As seen in the first and second quarter air stripper tests, negative ammonia mass emissions rates were observed using only the proposed mass balance technique. Water ammonia analyses are presented in Appendix F. In addition to the mass balance technique, RTP measured ammonia emissions at the air stripper exhaust stack during the third quarter sampling event in accordance with NIOSH P&CAM Method 205 (mini impingers with 0.1N sulfuric acid, analyzed by calorimetric methodology). Concurrent ammonia stack tests yielded the following results; $<212 \text{ ug/m}^3$ (Test 7), $<206 \text{ ug/m}^3$ (Test 8) and $<202 \text{ ug/m}^3$ (Test 9). For reporting purposes, RTP will use measured stack ammonia emissions data for comparison with discharge requirements and ambient air guideline values in section 4.0. Field data sheets are presented in Appendix D and rotameter calibrations are presented in Appendix A. Ammonia stack test analytical results are presented in Appendix G.

Air stripper exhaust stack ammonia results will be corrected to represent emissions during normal facility operations. Corrected ammonia emissions and impact results are presented in Section 5.4.

3.4 Ambient Air VOST Results

Ambient VOST samples were collected at two locations during the air stripper tower stack test. Sample 1-3-U was collected upwind of the tower to provide background VOC concentrations in the air approaching or being drawn into the tower. Sample 1-3-D1 was collected downwind of the tower to determine combined VOC impacts from background sources and the operation of the tower. The downwind site was 375 feet due south of the air stripper tower with an elevation of 10 feet above the air stripper tower base.

The analytical TCL results for the ambient VOST samples are presented in Table 9. Nine (9) VOCs were detected above the lower quantification limit in the downwind sample. The upwind sample did not contain any VOCs above the lower quantitation limit. The upwind sample location was 100 feet due north of the air stripper tower at the base elevation of the tower.

VOCs detected at the downwind sampling location were also detected in the air stripper exhaust stack (see Table 6) with the exception of five VOCs: carbon tetrachloride, ethylbenzene, methylene chloride, toluene and xylenes. In addition, cis-1,2-dichloroethene was detected in the stack exhaust but was not detected in the ambient air. An ambient air field blank (A-FB3) and trip blank (S-TB3(A)) were collected and both were free of any quantifiable contamination. The respective upwind and downwind air samples with total air volumes of 114 and 109 liters did not contain sufficient moisture to have a collectable condensate sample. Rotameter calibrations are presented in Appendix A. Field data sheets are presented in Appendix D and RTL ambient VOST results are presented in Appendix C.

4.0 COMPARISON OF EMISSIONS RATES TO CONSENT DECREE LIMITATIONS

The Consent Decree stipulates air stripper discharge concentration requirements which are provided in Table 10. A direct comparison of observed discharge concentrations to the limits tabulated in the Consent Decree, which is the first step in the analysis, indicates that potentially one (1) compound, tetrachloroethene, exceeds the specified limit even at the reduced air stripper water flow rate. Several other targeted VOCs (bromodichloromethane, bromoform, dibromochloromethane, 1,3-dichlorobenzene, 1,2-dichloroethane, freon 13 and/or vinyl chloride) may have exceeded, but were not identified as exceeding Consent Decree discharge requirements since their individually assigned discharge limit

(ranging from 0.03 to 20 ug/m³) was lower than the combined sampling and analytical lower quantitation limit (55.4 ug/m³). This limitation results from the combination of the wide range of concentrations observed in the tower outlet and the limited range of the analytical methods.

In Section 5.4, VOC and ammonia emissions observed during the third quarter test (during reduced air stripper influent water flow rate) are corrected to represent emissions during normal air stripper facility operations (all 5 groundwater Wells operating). Modeled corrected emissions impacts are compared to former and current AGCs in Section 5.4.

This was the third in a series of stack tests that will be performed during the first year of testing at the air stripper. Future and past stack test data will be combined with the above results to evaluate facility operations on an annual basis.

5.0 AIR QUALITY MODELING

An air quality impact analysis using an approved USEPA model was prepared based on stack and ambient air VOST test data. Predicted model values were compared to observed ambient air VOST test data and NYSDEC ambient air annual guidelines as provided in Air Guide-1.

The analysis was performed to determine if the annual air quality impacts of the air stripper operation exceed ambient air quality guidelines. The ISCST2 Model was selected for this analysis. The air stripper emissions rates and its associated source parameters, as tested in the first year third quarterly stack test, were used in the modeling analysis. Meteorological data used in the analysis are presented in Appendix H and the model results are presented in Appendix I.

5.1 Modeling Methodology

The ISCST2 Dispersion Model (EPA, 1992), is a restructured and reprogrammed version of the original ISCST Model. The ISC2 model provides the ability to model emissions from a wide range of sources including elevated point source emissions. The basis of the model is the straight-line, steady-state Gaussian plume dispersion equation. It has the ability to take into account building downwash effects for different wind angles, incorporates local terrain information and accepts hourly meteorological data. The

user can select various time period averages including annual average impacts. Since ISCST2 is best suited for this case, it has been selected for evaluating the air stripper tower air quality impacts on receptors surrounding the OBSWDC.

5.2 Model and Source Configuration

The ISCST2 Model has a variety of run options that are useful in customizing the model for a specific application. Prior to running the model for predicting annual impacts, a validation effort is prepared based on the data recorded during the quarterly test program. General model options, source/receptor configurations and meteorological data were then input into the model to predict the maximum annual average impacts for off-property receptors associated with the air stripper tower.

The following regulatory default options are applied in the simulation including:

- o stack-tip downwash,
- o buoyancy-induced dispersion,
- o calm wind speed processing routine,
- o upper bound concentration estimates for sources influenced by building downwash from a super-squat building,
- o regulatory default wind speed profile exponents, and
- o regulatory default vertical potential temperature gradients.

The source parameters utilized in the model are based on the third quarterly air stripper exhaust tests. The important parameters are air stripper base location and elevation, tower height, stack exit temperature, inner stack diameter of the exhaust section, exhaust volume flow rates and VOC emissions rates. Since the air stripper building downwash is included, the building crosswind dimensions for various wind directions are also input into the model. The base elevation is 42.8 meters, the tower height is 16.7 meters, the stack diameter is 1.02 meters and other parameter values vary with the tower's operation.

Receptors used in the modeling analysis covered a four (4) kilometer square area around the air stripper. Two receptor grids with 200 meter and 100 meter spacing were used along with a separate series of property line receptors. The above surface height of each receptor was one (1) meter.

One year of onsite meteorological data is used in the annual modeling analysis. This data set was collected from atop the Oyster Bay Landfill by the Town of Oyster Bay Industrial Development Authority in 1985. The meteorological data included wind speed, wind direction, ambient air temperature, humidity and turbulence level. Mixing heights for this period were based on Holzworth seasonal mixing height data. These data along with the model outputs for specific conditions will be provided in the final report of the first year's test program for this project.

5.3 Modeling Validation

The objective of the model validation process is to verify that the model set up and results compare favorably with available onsite ambient air sampling results.

Both upwind and downwind ambient air concentrations along with the onsite meteorological data were collected during the third quarter test effort. These data were collected concurrent with the air stripper emissions test period described in Section 3.0. For this case, tetrachloroethene was selected as the appropriate compound for the model validation analysis. All other VOCs emitted from the air stripper had impacts that were at or below the sampling and analytical lower quantification limits established for the ambient air samples and therefore could not be applied to validate the model.

The background tetrachloroethene concentration represents the ambient level upwind of the air stripper. This sample concentration was below the lower quantification limit and was collected to the north of the air stripper tower under persistent north northeasterly wind conditions. The downwind tetrachloroethene sample was collected to the south southwest of the tower. The downwind concentration represents the summation of the background and air stripper impact for tetrachloroethene. As indicated in Table 11, the measured downwind concentration impact is 0.844 micrograms per cubic meter. The contribution associated with the air stripper is 0.669 to 0.844 micrograms per cubic meter, assuming a background level of 0.175 or 0.0 micrograms per cubic meter, respectively. The modeled impact for the testing period is 0.768 micrograms per cubic meter based on the observed tetrachloroethene emissions rate. The ratio of the observed to the predicted concentration values is in the range of 0.87 to 1.1 depending on the actual upwind concentration.

These observed versus predicted results indicate that there is reasonable correlation between the two methods of determining air stripper impacts for specific short-term periods. Similar modeling analyses will be performed during each quarterly test to determine compliance with ambient standards and then for all available data at the conclusion of the first year of the field study.

5.4 Modeling Results

The off-property maximum annual normalized impact predicted by the ISCST2 Model for the OBSWDC air stripper tower is 7.40 micrograms per cubic meter. This value is based on a one gram per second emissions rate and one year of onsite meteorological data.

The impacts predicted for all compounds identified in the first year third quarterly air stripper emissions tests are presented in Table 12. They are derived by converting the emissions rates shown in Table 10 to grams per second values. The grams per second emissions rate for each reported VOC is corrected to represent emissions during the operation of all five (5) groundwater collection Wells. At the time of the third quarter test (12/14/92), only three (3) Wells were in service (Wells 1,4 and 5). A mass emissions rate multiplier for each reported individual VOC is based on dividing the total mass flow rate for all five (5) Wells by the total mass flow rate for Wells 1,4 and 5. December 17, 1992 Well water VOC analysis data (included in Appendix E) and December 14, 1992 Well flow rate data were used for all mass flow rate calculations. These emissions rates were then multiplied by the off-property maximum annual normalized impact (7.40 ug/m³) shown above.

The maximum annual impacts were then compared to the New York State AGCs that were in place at the time the Consent Decree was developed and to the current (as of June 1991, November 1991 for tetrachloroethene) AGCs. As shown in Table 12, each compound specific annual impact is below the AGCs that were in effect at the time the Consent Decree was formalized and all current (as of 6/91 or 11/91 for tetrachloroethene) applied AGCs. A review of all first year quarterly monitoring and modeling data is necessary to confirm or deny the potential for exceeding the current (as of June 1991) State Guidelines. The first year air stripper monitoring summary report will be submitted after the final fourth quarter report.

Several VOCs (1,1-dichloroethane, methylene chloride, toluene, xylenes and/or vinyl chloride) that were observed during the first and second quarter test programs were not reported (below lower quantitation limit) and could not be corrected for maximum annual impact analysis. This was due to one or more of the following: significant individual VOC mass flow rate contribution from Well(s) 2 and/or 3, fluctuation in groundwater VOC content and/or existence of VOC concentrations at or slightly above the lower quantitation limit. These issues will be discussed in the annual report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

A comparison of the air quality impacts (based on corrected air stripper emissions test results (see Table 12)) at the worst-case off-property receptor was made with the NYSDEC ambient AGCs in effect at the time of the signing of the Consent Decree. The comparison indicates that the air stripper emissions do not exceed any of the AGCs in effect at that time. The stack test emissions rates were used to predict expected annual air quality impacts using an approved USEPA model. The model results also indicate that none of the target compounds have an impact that exceeds the level of the current (as of June 1991, November 1991 for tetrachloroethene) AGCs.

REFERENCES

- RTP, 1992. Sampling Protocol for the Air Stripper Monitoring and Assessment Program at the Old Bethpage Solid Waste Disposal Complex, RTP Environmental Associates, Inc., March 1992.
- NYSDECa. Letter submitted to Mr. Karl J. Leupold (Commissioner of the Town of Oyster Bay) from Mr. Robert C. Knizek (NYSDEC) approving the March 1992 sampling protocol for the air stripper monitoring and assessment program, May 14, 1992.
- NYSDECb. Letter submitted to Mr. Scott Mills (RTP) from Mr. Robert Waterfall (NYSDEC) approving sampling protocol changes resulting in a 20 minute VOST run sample time at a sampling rate of 0.25 Lpm (nominal), August 18, 1992.
- EPA, 1992. Users Guide for the Industrial Source Complex (ISC2) Dispersion Models, EPA-450/4-92-008a OAQPS, Research Triangle Park, North Carolina 27711
- NYSDEC, 1991. New York State Air Guide-1, Division of Air Resources, New York State Department of Environmental Conservation (NYSDEC), Albany, New York
- EPA, Mixing Heights, Wind Speeds, and Potential for Urban Air Pollution Throughout the Contiguous United States, George C. Holzworth, Division of Meteorology, January 1972.

TABLE 1

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

PROGRAM TARGET COMPOUND LIST
AND NYSDEC AMBIENT GUIDELINES

VOC COMPOUND NAME	TOXICITY	CURRENT SGC (ug/m3)		CURRENT AGC (ug/m3)		FORMER AGC (ug/m3)	CONSENT DECREE LIMITS***
Benzene	H	30	(p)	0.12	(E,U)	100	100
Bromodichloromethane	H			0.02	(D)	0.03**	0.03
Bromoform	M	1,200	(t)	12	(T)	11.9**	16.7
Carbon Tetrachloride	H	1,300	(r)	0.07	(E,U)	100	100
Chlorobenzene	M	11,000	(p)	20	(E)	1,170	1,170
Chloroethane	L	630,000	(t)	63,000	(T)	52,000	52,000
Chloroform	M	980	(r)	23	(R)	167	167
Dibromochloromethane	M			0.1	(D)	0.03**	0.03
1,2-Dichlorobenzene (o)	M	30,000	(t)	200	(E)	1,000	1,000
1,3-Dichlorobenzene (m)	M	30,000	(a)	200	(A)	714**	0.03
1,4-Dichlorobenzene (p)	M**	110,000**		700**			1,500
1,1-Dichloroethane	L	190,000	(t)	500	(E)	9,524**	2,700
1,2-Dichloroethane	M	950	(r)	0.039	(E,U)	0.2	20
1,1-Dichloroethene	H	2,000	(t)	0.02	(E,U)	66.7	66.7
cis-1,2-Dichloroethene*	M	190,000	(a)	1,900	(A)	1,880**	2,630****
trans-1,2-Dichloroethene	M			360	(D)	360**	
1,2-Dichloropropane	M	83,000	(t)	0.15	(D)	833**	1,170
Ethylbenzene	M	100,000	(t)	1,000	(T)	1,450	1,450
Freon 13*	L	43,000	(a)	530	(A)	133,333**	0.03
Methylene Chloride	M	41,000	(t)	27	(D,U)	1,170	1,170
Tetrachloroethene	M	81,000	(t)	1.2*****	(D,U)	1,120	1,120
Toluene	L	89,000	(r)	2,000	(I)	7,500	7,500
1,1,1-Trichloroethane	L	450,000	(t)	1,000	(E)	38,000	38,000
Trichloroethene	M	33,000	(r)	0.45	(D,U)	900	900
Vinyl Chloride	H	1,300	(t)	0.02	(E,U)	0.4	0.4
Xylenes (Total)	M	100,000	(t)	300	(I)	1,450	1,450*****
OTHER COMPOUNDS							
Ammonia	L	4,000	(t)	360	(E)	360	360

FOOTNOTES:

SGC - Short-term guideline concentration (current as of June 1991)

AGC - Annual guideline concentration (current as of June 1991, former as of 1986, 9/89 Edition)

* Tentatively Identified Compound (TIC) using EPA SW846 Method 8240

** Proposed Value

*** As per Table 1 of the Final Consent Decree. Reported in micrograms per cubic meter (ug/m3)

**** Total for cis and trans isomers

***** Tetrachloroethene AGC current as of November 22, 1991

***** 1450 total for ortho and para xylene and 1450 total for meta xylene

Toxicity - H for high; M for moderate; and L for low by NYSDEC

(a) - SGC based on NYSDEC structure-activity analogy

(p) - SGC derived from proposed ACGIH TLV-TWA (1990-1991)

(r) - SGC derived from NIOSH REL-TWA (1988)

(t) - SGC derived from ACGIH TLV-TWA (1990-1991)

(A) - AGC based on NYSDEC structure-activity analogy

(D) - AGC derived from NYSDEC, Division of Air Resources, Bureau of Air Toxics, Toxics Assessment Section

(E) - AGC based on derivation by USEPA

(I) - AGC based on RFC developed by USEPA - Integrated Risk Information System (IRIS), input pending

(R) - AGC derived from NIOSH REL-TWA (1988)

(T) - AGC derived from ACGIH TLV-TWA (1990-1991)

(U) - AGC is the ambient air concentration which corresponds to an excess cancer risk of one in one million after lifetime exposure

TABLE 2

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

SUMMARY OF AIR STRIPPER OPERATIONAL DATA
Third Quarter Test Results

VOST RUN NUMBER	WELL 1 FLOW (GPM)	WELL 2 FLOW (GPM)	WELL 3 FLOW (GPM)	WELL 4 FLOW (GPM)	WELL 5 FLOW (GPM)	SYSTEM FLOW (GPM)	STRIPPER FLOW (GPM)	PRESSURE FILTER FLOW (GPM)	BLOWER AIR FLOW (CFM)	AIR PRESSURE (Inches H ₂ O)	GROUNDWATER PROCESSED* (gallons)
25	210	--	--	193	268	258	540	472	10,600	NA	11,400**
26	197	--	--	201	269	318	566	527	10,600	NA	12,000**
27	203	--	--	197	266	374	542	523	10,300	NA	11,900
28	191	--	--	206	267	581	604	667	9,810	NA	12,600
29	195	--	--	198	268	522	685	703	9,810	NA	13,700
30	187	--	--	202	266	524	582	688	9,810	NA	11,900
31	198	--	--	207	253	445	583	684	10,200	NA	11,800
32	206	--	--	196	252	457	614	634	9,930	NA	11,400
33	190	--	--	204	265	582	582	653	9,910	NA	11,900
34	200	--	--	193	268	432	578	635	10,200	NA	11,700
35	203	--	--	196	268	429	598	643	10,200	NA	16,100
36	193	--	--	204	271	437	588	578	10,200	NA	12,800
AVERAGE	198	--	--	200	265	447	589	617	10,100	NA	12,400

NOTE:

Wells 2 and 3 were non-operational during the 12/14/92 Air Stripper test effort

NA-Air pressure measurements were not available

* Values determined from the air stripper inlet flow totalizer recordings

**Values not recorded during the test. Estimate based on air stripper flow values

TABLE 3

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST RESULTS - TEST G
Third Quarter Test Results

Sample ID	S-25	S-26	S-27	S-28	Condensate	Average***
Sample Volume (L)*	4.21	4.21	4.12	4.17		4.17
Flow Rate (ACFM)	8,360			8,250		8,310
Stack Temperature (Deg.F)	52	52	52	52		52
Lower Quantitation Limit (ng/l)	33.3	57	58.3	57.6		57.6

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene		80.8	65.5	81.5	NA	75.9
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane					NA	
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	169	226	206	233	NA	222
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride					NA	
Tetrachloroethene	68.9	5,230	4,370	5,040	NA	4,880
Toluene					NA	
1,1,1-Trichloroethane	71.3		58.3	125	NA	92
Trichloroethene	145	356	291	336	NA	328
Vinyl Chloride					NA	
Xylenes (Total)					NA	

NOTE:

- All blank values are below the Lower Quantitation Limit
- < Values are used where the Lower Quantitation Limit is averaged with reported values
- A condensate sample was not available (NA) for collection

* Corrected to stack conditions

** Tentatively Identified Compound (TIC)

*** S-25 omitted from Test G average

TABLE 4

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST RESULTS - TEST H
Third Quarter Test Results

Sample ID	S-29	S-30	S-31	S-32	Condensate	Average
Sample Volume (L)*	4.19	4.25	4.29	4.23		4.24
Flow Rate (ACFM)	8,250			8,410		8,330
Stack Temperature (Deg.F)	52	52	52	52		52
Lower Quantitation Limit (ng/l)	57.3	56.5	51.3	56.7		55.5

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	110	75.3	69.9	68.6	NA	81
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane					NA	
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	286	195	205	191	NA	219
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride					NA	
Tetrachloroethene	6,680	4,710	2,310	1,160	NA	3,720
Toluene					NA	
1,1,1-Trichloroethane	124	58.8		59.1	NA	<73.3
Trichloroethene	453	329	280	284	NA	337
Vinyl Chloride					NA	
Xylenes (Total)					NA	

NOTE:

- All blank values are below the Lower Quantitation Limit
- < Values are used where the Lower Quantitation Limit is averaged with reported values
- A condensate sample was not available (NA) for collection

* Corrected to stack conditions

** Tentatively Identified Compound (TIC)

TABLE 5

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST RESULTS - TEST I

Third Quarter Test Results

Sample ID	S-33	S-34	S-35	S-36	Condensate	Average
Sample Volume (L)*	4.19	4.40	4.32	4.27		4.30
Flow Rate (ACFM)	8,410			8,250		8,360
Stack Temperature (Deg.F)	52	52	52	52		52
Lower Quantitation Limit (ng/l)	57.3	50.0	50.9	56.2		53.6

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	76.4	70.5	104	79.6	NA	82.6
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane					NA	
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	205	198	278	258	NA	235
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride					NA	
Tetrachloroethene	4,300	4,320	6,020	4,450	NA	4,770
Toluene					NA	
1,1,1-Trichloroethane			50.9		NA	<53.6
Trichloroethene	286	273	394	304	NA	314
Vinyl Chloride					NA	
Xylenes (Total)					NA	

NOTE:

- All blank values are below the Lower Quantitation Limit
- < Values are used where the Lower Quantitation Limit is averaged with reported values
- A condensate sample was not available (NA) for collection

* Corrected to stack conditions

** Tentatively Identified Compound (TIC)

TABLE 6

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST TESTS RESULTS
Third Quarter Test Results

Test ID*	G	H	I	AVERAGE	SFB3	S-TB3(A)
Sample Volume (L)**	4.18	4.24	4.3	4.24		
Flow Rate (ACFM)	8,310	8,330	8,360	8,330		
Stack Temperature (Deg.F)	52	52	52	52		
Lower Quantitation Limit (ng/l)	51.6	55.5	53.6	55.4	20****	20****

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	75.9	81	82.6	79.8		
Bromodichloromethane						
Bromoform						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Dibromochloromethane						
1,2-Dichlorobenzene (o)						
1,3-Dichlorobenzene (m)						
1,4-Dichlorobenzene (p)						
1,1-Dichloroethane						
1,2-Dichloroethane						
1,1-Dichloroethene						
cis-1,2-Dichloroethene ***	222	219	235	225		
trans-1,2-Dichloroethene						
1,2-Dichloropropane						
Ethylbenzene						
Freon 13***						
Methylene Chloride						
Tetrachloroethene	4,880	3,720	4,770	4,460		
Toluene						
1,1,1-Trichloroethane	91.7	<73.3	<53.6	<72.9		
Trichloroethene	328	337	314	326		
Vinyl Chloride						
Xylenes (Total)						

NOTE:

- All blank values are below the Lower Quantitation Limit
- < Values are used where the Lower Quantitation Limit is averaged with reported values

* Test ID: G - Average of Runs S-26, S-27 and S-28

H - Average of Runs S-29, S-30, S-31 and S-32

I - Average of Runs S-33, S-34, S-35 and S-36

** Corrected to stack conditions

*** Tentatively Identified Compound (TIC)

****The Lower Quantitation Limit for the Stack Sampling Train Field Blank (SFB3) and Trip Blank (STB3) reported as 20ng (mass loading lower quantitation limit)

SFB3 - Third Quarter Stack Test Field Blank

S-TB3 (A)- Third Quarter Test Effort Trip Blank

TABLE 7

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

COMPARISON OF AIR STRIPPER EMISSION CONCENTRATIONS
USING TWO INDEPENDENT METHODS
Third Quarter Test Results

CONSTITUENT	WATER INFLUENT CONCENTRATION (ug/l)	WATER EFFLUENT CONCENTRATION (ug/l)	EXHAUST STACK CONCENTRATION (ng/l)	EXHAUST STACK VOST CONCENTRATION (ng/l)	RATIO WATER/VOST
Benzene	7.10	0.07	67.8	80.8	0.84
Bromodichloromethane	0.00	0.00			
Bromoform	0.00	0.01	~0		
Carbon Tetrachloride	0.00	0.00			
Chlorobenzene	0.33	0.28	0.483		
Chloroethane	0.00	0.00			
Chloroform	0.00	0.00			
Dibromochloromethane	0.00	0.00			
1,2-Dichlorobenzene (o)	0.61	0.03	5.60		
1,3-Dichlorobenzene (m)	0.18	0.08	0.965		
1,4-Dichlorobenzene (p)	1.46	0.04	13.7		
1,1-Dichloroethane	1.64	0.03	15.5		
1,2-Dichloroethane	0.71	0.08	6.08		
1,1-Dichloroethene	0.80	0.00	7.72		
cis-1,2-Dichloroethene*	18.44	0.06	177	226	0.78
trans-1,2-Dichloroethene	0.13	0.04	0.869		
1,2-Dichloropropane	0.00	0.00			
Ethylbenzene	0.10	0.07	0.290		
Methylene Chloride	1.89	0.01	18.1		
Tetrachloroethene	305.44	0.17	2,950	5,230	0.56
Toluene	0.10	0.02	0.772		
1,1,1-Trichloroethane	4.84	0.12	45.5		
Trichloroethene	22.53	0.05	217	356	0.61
Vinyl Chloride	2.72	0.01	26.2		
Xylenes (Total)	1.28	0.06	11.8		

NOTES:

- ug/l = micrograms per liter of water
- ng/l = nanograms per liter of air leaving the air stripper stack
- Exhaust Stack Concentration: Concentration in ng/l based on water samples and VOST Run 26 water and air flow operational data (600 gallons per minute and 8,310 ACFM)
- Exhaust Stack VOST Concentration: Concentration in ng/l based on VOST Run 26 Test data collected at the air stripper exhaust stack. All blank values are below the lower quantitation limit (57.0 ng/l)
- Ratio Water/VOST: Ratio of Water derived emission estimate vs. stack test VOST emission estimate
- Water test results provided by the Town of Oyster Bay, Department of Public Works on-site laboratory

* Tentatively Identified Compound (TIC) via VOST

TABLE 8

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

SUMMARY OF AIR STRIPPER AMMONIA EMISSIONS
Third Quarter Test Results

TEST	SAMPLE ID	STRIPPER WATER AMMONIA CONC. (mg/l)	STRIPPER INFLUENT AND EFFLUENT FLOW RATE (Lpm)	MASS FLOW RATE (lb/hr)	AVG. AIR STRIPPER MASS EMISSION RATES*	
					(lb/hr)	(ug/m3)
7	Inlet -1	6.0	2,270	1.80		
	Outlet -1	6.0	2,270	1.80	0.00	0.00
	Inlet-2	6.0	2,270	1.80		
	Outlet-2	5.6	2,270	1.68	0.22	7,070
8	Inlet-3	5.8	2,310	1.77		
	Outlet-3	5.8	2,310	1.77	0.00	0.00
	Inlet-4	6.0	2,310	1.83		
	Outlet-4	5.8	2,310	1.77	0.06	1,920
9	Inlet-5	5.8	2,480	1.90		
	Outlet-5	6.6	2,480	2.17	-0.27	-8,620
	Inlet-6	5.6	2,480	1.84		
	Outlet-6	6.6	2,480	2.17	-0.33	-10,500
AVERAGE					-0.05	-1,690

NOTE:

Influent and effluent water flows were found to be essentially the same

*Calculated via air stripper influent and effluent water ammonia mass balance

Concurrent Ammonia stack test (NIOSH P&CAM Method 205) yielded the following results:

Test 7 = <212 ug/m3 (<0.00660 lb/hr)

Test 8 = <206 ug/m3 (<0.00643 lb/hr)

Test 9 = <202 ug/m3 (<0.00633 lb/hr)

Average = <207 ug/m3 (<0.00645 lb/hr)

TABLE 9

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AMBIENT AIR VOST RESULTS
Third Quarter Test Results

Sample ID*	1-3-U	1-3-D1	A-FB3	S-TB3(A)
Sample Volume (L)**	114	109		
Ambient Temperature (Deg.F)	39	39	39	39
Lower Quantitation Limit (ng/l)	0.175	0.183	20****	20****

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)
Benzene		1.93		
Bromodichloromethane				
Bromoform				
Carbon Tetrachloride		0.550		
Chlorobenzene				
Chloroethane				
Chloroform				
Dibromochloromethane				
1,2-Dichlorobenzene (o)				
1,3-Dichlorobenzene (m)				
1,4-Dichlorobenzene (p)				
1,1-Dichloroethane				
1,2-Dichloroethane				
1,1-Dichloroethene				
cis-1,2-Dichloroethene ***				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
Ethylbenzene		0.688		
Freon 13***				
Methylene Chloride		0.725		
Tetrachloroethene		0.844		
Toluene		3.85		
1,1,1-Trichloroethane		17.4		
Trichloroethene		2.75		
Vinyl Chloride				
Xylenes (Total)		4.13		

NOTE:

- All blank values are below the Lower Quantitation Limit

- * Sample ID: 1-3-U (Ambient Sample Upwind of the Air Stripper)
1-3-D1 (Ambient Sample Downwind of the Air Stripper)
A-FB3 (Ambient Sampling Train Field Blank)
S-TB3(A) (Third Quarter Test Effort Trip Blank)

** Sample volume at ambient conditions

*** Tentatively Identified Compound (TIC)

**** The Lower Quantitation Limit for the Ambient Sampling Train Field Blank (A-FB3) and the Third Quarter Test Effort Trip Blank (S-TB3(A)) as 20 ng (mass loading lower quantitation limit)

TABLE 10

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

**COMPARISON OF APPLICABLE DISCHARGE REQUIREMENTS
FOR AIR STRIPPER TREATMENT SYSTEM WITH STACK TEST RESULTS**
Third Quarter Test Effort

CONSTITUENT	STACK TEST DISCHARGE CONCENTRATION* (ug/m3)	STACK DISCHARGE REQUIREMENTS** (ug/m3)
Ammonia	<207***	360
Benzene	79.8	100
Bromodichloromethane		0.03
Bromoform		16.7
Carbon Tetrachloride		100
Chlorobenzene		1,170
Chloroethane		52,000
Chloroform		167
Dibromochloromethane		0.03
1,2-Dichlorobenzene (o)		1000.00
1,3-Dichlorobenzene (m)		0.03
1,4-Dichlorobenzene (p)		1,500
1,1-Dichloroethane		2,700
1,2-Dichloroethane		20
1,2-Dichloroethenes****	225	2,630*****
1,1-Dichloroethene		66.7
1,2-Dichloropropane		1,170
Ethylbenzene		1,450
Freon 13****		0.03
Methylene Chloride		1,170
Tetrachloroethene	4,460*	1,120
Toluene		7,500
1,1,1-Trichloroethane	<72.9	38,000
Trichloroethene	326	900
Vinyl Chloride		0.4
Xylenes (Total)		1,450

NOTES:

- Stack test discharge concentrations are derived from uncorrected VOST tests (sampled with 3 of 5 wells on line)
- All blank values are below the Lower Quantitation Limit (55.4ug/m3)
- * Values in shaded areas exceed applicable air discharge requirements
- ** As per Table 1 of the Final Consent Decree (Table 1)
- *** Average of stack test data used instead of mass balance results due to suspect water ammonia analytical data (see Table 8)
- **** Freon 13 and the cis isomer of 1,2-Dichloroethene are Tentatively Identified Compounds (TIC)
- *****Total of cis and trans isomers

TABLE 11

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

MODELING VALIDATION RESULTS
Third Quarter Test Results

COMPOUNDS	AMBIENT AIR SAMPLING RESULTS			MODELING RESULTS		RATIO*
	BACKGROUND	DOWNWIND	TOWER IMPACT	BACKGROUND	MODELED IMPACT	
Tetrachloroethene	<0.175	0.844	0.669 to 0.844	0	0.768	0.87 to 1.1

NOTES:

- All concentrations are in micrograms per cubic meter
- Modeled impacts are based on the observed first year, third quarter air stripper emissions and the normalized impact of 43.9 micrograms per cubic meter, which is based on third quarter tower operation data

* Ratio of measured impact to modeled impact

TABLE 12

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

MAXIMUM ANNUAL IMPACTS BASED ON CORRECTED AIR STRIPPER EMISSIONS TEST RESULTS
Third Quarter Test Results

CONSTITUENT	EMISSION RATES (g/s)	MAXIMUM ANNUAL IMPACT**	PREVIOUS AGC**	CURRENT AGC**
Ammonia	<0.00132***	<0.00977***	360	360
Benzene	0.000587	0.00434	100	0.12
Bromodichloromethane			0.03	0.02
Bromoform			11.9	12
Carbon Tetrachloride			100	0.07
Chlorobenzene			1,170	20
Chloroethane			52,000	63,000
Chloroform			167	23
Dibromochloromethane			0.03	0.1
1,2-Dichlorobenzene (o)			1,000	200
1,3-Dichlorobenzene (m)			714	200
1,4-Dichlorobenzene (p)				700
1,1-Dichloroethane			9,524	500
1,2-Dichloroethane			0.2	0.039
1,1-Dichloroethene			66.7	0.02
cis-1,2-Dichloroethene *	0.00464	0.0343	1,880	1,900
trans-1,2-Dichloroethene			360	360
1,2-Dichloropropane			833	0.15
Ethylbenzene			1,450	1,000
Freon 13*			133,333	530
Methylene Chloride			1,170	27
Tetrachloroethene	0.0183	0.135	1,120	1.2***
Toluene			7,500	2,000
Xylenes (Total)			1,450	300
1,1,1-Trichloroethane	<0.000533	<0.00394	38,000	1,000
Trichloroethene	0.00173	0.0128	900	0.45
Vinyl Chloride			0.4	0.02

NOTES:

- Emission rates for each reported VOC and ammonia was corrected to represent emissions during the operations of all five (5) ground water wells. At the time of the third quarter test (12/14/92) only three wells were in service (1,4 and 5)
- All blank Emission Rate values are <0.000218 g/s
- All blank Maximum Annual Impact values are <0.00161 ug/m3
- Maximum annual impacts are based on the maximum annual normalized impact of 7.40 micrograms per cubic meter (ug/m3)
- Values in shaded areas exceed current (as of 6/91 or 11/91 for tetrachloroethene) and/or previous AGC values

* Freon 13 and the cis isomer of 1,2-Dichloroethene are Tentatively Identified Compounds (TICs)

** Concentrations are in micrograms per cubic meter (ug/m3)

***Corrected average of stack test data used instead of mass balance results due to suspect water ammonia analytical data (see Table 8)

AGC = Annual Guideline Concentration

APPENDIX G

"QUARTERLY MONITORING REPORT - FOURTH QUARTER RESULTS"
JUNE, 1993

**QUARTERLY MONITORING REPORT
FOURTH (OPERATIONAL) QUARTER RESULTS
OLD BETHPAGE LANDFILL
GROUND-WATER REMEDIATION PROGRAM
OLD BETHPAGE, NEW YORK**

June 1993

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7. Configuration of the Water-Table Surface on March 8, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.
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11. Approximate Distribution of Aromatic Hydrocarbons in January 1993, Old Bethpage Landfill, Old Bethpage, New York.
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APPENDICES

- A. Laboratory Data Reports.
- B. Fourth (Operational) Quarter Water Sampling Logs.
- C. Ground-Water Sampling Protocols.



**QUARTERLY MONITORING REPORT
FOURTH (OPERATIONAL) QUARTER RESULTS
OLD BETHPAGE LANDFILL
GROUND-WATER REMEDIATION PROGRAM
OLD BETHPAGE, NEW YORK**

INTRODUCTION

Geraghty & Miller, Inc. has prepared this report at the request of Lockwood, Kessler & Bartlett, Inc. (LKB) and the Town of Oyster Bay to summarize and evaluate data collected at the Old Bethpage Landfill, Old Bethpage, New York during the fourth quarter (January through March 1993) of the ground-water remediation system operation.

The ground-water remediation system at the Old Bethpage Landfill became operational on April 1, 1992. In accordance with the Remedial Action Plan (RAP), Geraghty & Miller initiated monthly hydraulic monitoring approximately 30 days after system start-up and quarterly ground-water quality monitoring 3 months after system start-up. During the fourth quarter of system operation, three synoptic rounds of water-level measurements (January 5, February 5, and March 8, 1993) and one round of quarterly ground-water sampling (January 5 through 8, and 26, 1993) were conducted.

The purposes of the hydraulic monitoring are to (1) delineate the mounding effects (if any) in the vicinity of the recharge basin, and (2) delineate the effective capture zone of the recovery system (i.e., determine the effectiveness of the hydraulic containment system in exerting control over the volatile organic compound [VOC] plume). The purposes of the ground-water quality monitoring are to (1) assess the progress of ground-water cleanup, and (2) demonstrate whether the termination criteria set forth in the RAP have been met.

Water-level data collected during this quarter are summarized in Tables 1, 2, and 3; ground-water quality data are provided in Appendix A. Water sampling logs and ground-water sampling protocols are provided in Appendices B and C, respectively.



WATER-LEVEL MEASUREMENTS AND MAPPING

On January 5, February 5, and March 8, 1993, Geraghty & Miller collected synoptic water-level measurements from site monitoring wells. The ground-water recovery wells were fully operational during the March 8, 1993 water-level measurement round; Recovery Wells RW-1 and RW-2 were not operating during the January and February rounds, respectively. Pumpage records for the ground-water remediation system from January 1 through March 31, 1993 are summarized in Table 4. The ground-water recovery system was fully operational for approximately 53 days of the 90-day fourth quarter reporting period.

Depth-to-water measurements and water-level elevations (relative to mean sea level) for the January 1993, February 1993, and March 1993 rounds are summarized in Tables 1, 2, and 3, respectively. Similar to previous rounds, water-level elevations were plotted for the water-table, shallow potentiometric, and deep potentiometric zones on the site base map. Where appropriate, water-level contour lines, the approximate extent of the VOC plume (using data from the January 1993 ground-water sampling round), and limiting flow lines were drawn on the maps. Contour lines were dashed where the data points were less than optimum, and limiting flow lines through these areas are approximate.

Water-level elevation maps for the January 5, 1993; February 5, 1993; and March 8, 1993 rounds are shown on Figures 1 through 9. Water-level elevation data and limiting flow lines presented on Figures 2, 3, 5, 6, 8, and 9 indicate that system pumpage, which ranged from approximately 1,181 to 1,502 gallons per minute (gpm) on the days the water levels were measured, was sufficient to create and maintain a capture zone that exerted effective hydraulic control over the VOC plume, both horizontally and vertically.

JANUARY 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on January 5, 1993 are shown on Figures 1 through 3, respectively.



Compared to the third quarter monitoring round, water-level elevations from the January 5, 1993 round increased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-1; this increase is most likely because Recovery Well RW-1 was not operational during the January 5, 1993 water-level measurement round. However, as shown on Figures 2 and 3, hydraulic control was maintained during this period. Ground-water elevations observed in this round ranged from 70 ft above msl (north of the site) to 57 ft above msl (south of the site), and the horizontal direction of ground-water flow was to the southeast across the site.

In general, water-level elevation data for the January 1993 round indicate an overall increase in water levels of approximately 0.5 ft across the site compared to data collected in December 1992, and a decline in water levels of approximately 3.0 ft compared to baseline data collected prior to system start-up (Geraghty & Miller, Inc. 1992a). Furthermore, data presented on Figure 1 indicate a localized mounding of the water table immediately adjacent to the recharge basin that receives treated water from the ground-water remediation system. Similar mounding was observed during the previous three quarters of system operation. A water level could not be measured in Well 9A during the January 1993 round because the well screen is apparently damaged and gravel pack has entered the well. In addition, Well M-29A was dry during this round.

FEBRUARY 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on February 5, 1993 are shown on Figures 4 through 6, respectively. Compared to the January 5, 1993 round, water-level elevations from the February round decreased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-1, and increased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-2. As previously stated, Recovery Wells RW-1 and RW-2 were not operational during the January and February 1993 water-level measurement rounds, respectively. However, as shown on Figures 5 and 6, hydraulic control was



maintained during this period. Water-level elevation data for February 1993 show an approximate decrease of 3.0 ft compared to baseline data (Geraghty & Miller, Inc. 1992a), and the horizontal direction of ground-water flow was similar in the January and February rounds. In addition, localized mounding was observed during this round immediately adjacent to the ground-water remediation system recharge basin (see Figure 4).

MARCH 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on March 8, 1993 are shown on Figures 7 through 9, respectively. With the exception of the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-2, water-level elevation data from the March 1993 round indicated that ground-water elevations and flow directions across the site were similar to the February 1993 round and that water-level elevations had declined approximately 3 ft across the site compared to the baseline data (Geraghty & Miller, Inc. 1992b). Because Recovery Well RW-2 was operational during the March 1993 round, water-level elevations in and adjacent to Recovery Well RW-2 for the shallow and deep potentiometric zones decreased compared to the February 1993 data. In addition, localized mounding, immediately adjacent to the ground-water remediation system recharge basin, was also observed this round (see Figure 7). As in the January 1992 round, Well M-29A was dry.

GROUND-WATER SAMPLING AND CONTAMINANT DISTRIBUTION

Geraghty & Miller conducted the fourth quarterly round of ground-water quality sampling at the site from January 5 through 8, 1993, and January 26, 1993. Sampling protocols followed were the same as previous rounds and are provided in Appendix C. Well 9B was the only well sampled on January 26, 1993. Well 9B was not sampled between January 5 and 8, 1993 because of mechanical problems with the dedicated submersible pump. The submersible pump was repaired and the well was sampled on January 26, 1993, as close to the originally scheduled sampling as possible. The analytical parameters and



results obtained are presented in Tables 5 through 7. Laboratory data for this sampling round are provided in Appendix A. The water sampling logs used to record observations and measurements during ground-water sampling are provided in Appendix B.

Except as noted below, sample collection, equipment decontamination, and quality assurance/quality control (QA/QC) procedures used for the January 1993 round are identical to those used for the October 1992 sampling round. Well M-30B was again sampled as the upgradient monitoring well during this round because Well M-29A, which had been used in previous rounds, was dry. Data collected during the January 1993 sampling round are described below. Specifically, these data are compared to data for the October 1992 round (the last sampling round) and the July/August 1991 baseline sampling round (prior to remediation system start-up) (Geraghty & Miller, Inc. 1992a).

VOLATILE ORGANIC COMPOUND PLUME

VOCs detected in the January 1993 sampling round depict a pattern of ground-water contamination similar to that observed for all prior operational quarters and (the baseline sampling round) i.e., three groupings of VOCs located in specific portions of the study area. These VOC groupings include (1) volatile halogenated organics (VHOs), except tetrachloroethene; (2) aromatic hydrocarbons; and (3) tetrachloroethene. Analytical results of the samples collected for VOC analysis during the January 1993 sampling round are summarized in Table 5 and described below.

In the first VOC grouping, the most prevalent compounds detected, in terms of frequency of occurrence and concentration, were 1,2-dichloroethene and trichloroethene. Other VHOs were also detected, but in fewer wells and typically in concentrations of less than 10 micrograms per liter (ug/L). Well OBS-1 had the highest concentration of total VHOs detected, followed by Wells 8A and 7B. In general, concentrations of total VHOs detected in the January 1993 round were less than those detected in the October 1992 round and in the baseline round. For example, the concentrations of trichloroethene; 1,1,1-



trichloroethane; and 1,1-dichloroethane were generally lower in January 1993 compared to the October 1992 data. However, the concentrations of VHOs detected in Well OBS-1 increased in January 1993 compared to the October 1992 data. For example, the concentration of 1,2-dichloroethene increased in Well OBS-1 from 34 ug/L in October 1992 to 79 ug/L in January 1993. The approximate lateral extent of VHOs in ground water in January 1993 is shown on Figure 10 and is similar to the lateral extent based on data reported by Geraghty & Miller for the October 1992 round and the July/August 1991 baseline round (Geraghty & Miller, Inc. 1992a).

The second VOC grouping, aromatic hydrocarbons (consisting of benzene, ethylbenzene, chlorobenzene, p-dichlorobenzene, and o-dichlorobenzene), was detected in a more limited area than the first VOC grouping (see Figure 11). The highest concentrations of aromatic hydrocarbons were detected in Well OBS-1, followed by Well Cluster 6 and Wells 5B and 9C. In general, total concentrations of aromatic hydrocarbons detected in the January 1993 round were less than those detected in the October 1992 round and in the July/August 1991 baseline round; however, the concentrations of aromatic hydrocarbons in Wells OBS-1 and 6A increased in January 1993 compared to October 1992 data. For example, the concentration of benzene increased in Well OBS-1 from not detected in October 1992 to 110 ug/L in January 1993. In addition, the concentration of chlorobenzene increased slightly in Well 6A. The approximate lateral extent of aromatic hydrocarbons in January 1993 (Figure 11) is similar to the lateral extent based on October 1992 data and has decreased compared to the lateral extent in July/August 1991 (Geraghty & Miller, Inc. 1992a).

The third VOC grouping, tetrachloroethene, exhibits a very different distribution than the first two VOC groupings. Figure 12 illustrates the approximate lateral extent of tetrachloroethene in ground water in January 1993. The January 1993 lateral extent for tetrachloroethene is similar to the two separate plumes (east and west) apparent from the October 1992 data and from the July/August 1991 (baseline round) data (Geraghty & Miller, Inc. 1992a). The highest concentration of tetrachloroethene was detected in Well 8A,



followed by Wells 7B and OBS-1. Concentrations of tetrachloroethene detected in the January 1993 round decreased in Wells 6E, 8A, and 7B from 3 to 2 ug/L, 260 to 250 ug/L, and 340 to 110 ug/L, respectively, when compared to the October 1992 data. The concentration of tetrachloroethene detected in the January 1993 round increased in Wells 6A and OBS-1 from not detected to 1 ug/L and 12 to 27 ug/L, respectively, when compared with October 1992 data.

INORGANIC COMPOUND PLUME

Inorganic data collected during the January 1993 ground-water sampling round are summarized in Tables 6 and 7. In general, leachate indicators detected in total (unfiltered) samples from the January 1993 round depict a distribution similar to the data from the October 1992 round. Specifically, the landfill leachate plume exhibits its greatest approximate lateral extent in the middle zone, which is the approximate elevation of the "B" and "C" wells and is roughly equivalent to the shallow potentiometric zone, and its greatest approximate thickness (approximately 200 ft) in Well Cluster 6. The highest concentrations of ammonia, potassium, alkalinity, and pH detected in the January 1993 round were found in Wells 5B, 6B, 6C, 9C, and LF-1. Manganese, iron, and zinc were detected at their highest concentrations in the January 1993 round in Wells LF-1, M-30B, and OBS-1, respectively. The highest concentrations of hardness, chloride, and specific conductivity were detected in Well Cluster 6 and Wells 5B, 8B, 9C, LF-1, and M-30B. Except as described below, concentrations of the leachate indicators in the January 1993 round have remained consistent with the results from the October 1992 round. Compared to the October 1992 data, the concentrations of iron detected in the January 1993 round in Well 9B increased by greater than two orders of magnitude and decreased approximately six times in Well M-30B. In addition, the concentrations of ammonia, alkalinity, and potassium detected in the January 1993 samples from Wells 6C and LF-1 are approximately half the concentrations detected in October 1992 (see Table 7).



POSSIBLE SOURCES OF VOLATILE ORGANIC COMPOUNDS

As previously described by Geraghty & Miller (Geraghty & Miller, Inc. 1986 and 1992b), historical water-quality data for the site indicate that a portion of the observed VOC contamination may be potentially attributable to sources upgradient of the off-site monitoring wells, including the industrial area north of the Bethpage State Park (which includes the Claremont Polychemical site, a U.S. Environmental Protection Agency [USEPA] National Priority List site) and the Nassau County Fireman's Training Center, located northwest of the Bethpage State Park. Specifically, because Wells 5B and OBS-1 and Wells 8A and 7B are located hydraulically downgradient of the Nassau County Fireman's Training Center and the Claremont Polychemical site, respectively, VOCs detected in these wells may potentially be attributable to these sites. The data indicates that the Claremont Polychemical site is a potential source of VHOs and tetrachloroethene, and the Nassau County Fireman's Training Center is a potential source of aromatic hydrocarbons and trace amounts of VHOs and tetrachloroethene.

Although the monitoring wells sampled for the baseline and January 1993 monitoring rounds were installed to identify contamination attributable to the Old Bethpage Landfill, the distribution of VOCs and the ground-water flow direction measured support the findings of Geraghty & Miller's 1986 and 1992 reports that a portion of the VOC contamination detected at the site may be attributable to upgradient sources (Geraghty & Miller, Inc. 1986; 1992a; 1992b). In general, a comparison of baseline and January 1993 water-quality data indicate an overall decrease in the concentrations of VHOs and a slight decrease in the concentrations of aromatic hydrocarbons and tetrachloroethene from potential upgradient sources. For example, the concentrations of total VHOs in Wells 7B and OBS-1 (which are located downgradient of these potential sources) increased between the baseline and January 1993 rounds. In addition, tetrachloroethene detected in the baseline round at a maximum concentration of 440 ug/L (Well 8A), was detected in the January 1993 round at a maximum



concentration of 250 ug/L (Well 8A). Exceptions to these general patterns may be due to pumpage from the adjacent recovery wells.

FINDINGS AND CONCLUSIONS

The following findings and conclusions are based on data presented in this report:

1. Water-level elevation data indicate that system pumpage, which ranged from approximately 1,181 to 1,502 gpm on the days the water levels were measured, was sufficient to create and maintain a capture zone that exerted effective hydraulic control over the VOC plume, both horizontally and vertically.
2. Pumpage data indicate that the ground-water recovery system was fully operational for approximately 53 days of the 90-day fourth quarter reporting period.
3. An overall increase in water-level elevation across the site of approximately 0.5 ft was observed in the January 1993 data as compared to and December 1992 water-level data. Compared to the January 1993 round, water-level elevations from the February 1993 round decreased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-1, and increased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-2. Compared to the February 1993 round, water-level elevations from the March 1993 round decreased in the shallow and deep potentiometric zones in and adjacent to Recovery Well RW-2 and remained the same in the vicinity of the remaining wells. Overall water-level elevations decreased approximately 3 ft across the site compared to the baseline data.
4. Localized mounding of the water table immediately adjacent to the recharge basin, which receives treated water from the ground-water remediation system, was observed during the fourth quarter of system operation.



5. VOCs detected in the fourth (operational) quarterly ground-water sampling round depict a pattern of contamination similar to that described in previous Geraghty & Miller reports, i.e., three groupings of VOCs located in specific portions of the study area. These VOC groupings include VHOs (except tetrachloroethene), aromatic hydrocarbons, and tetrachloroethene.
6. In general, the concentrations of VHOs and aromatic hydrocarbons detected in the fourth (operational) quarterly ground-water sampling round have decreased compared to the October 1992 round and to baseline data collected in July/August 1991 prior to system start-up.
7. Concentrations of tetrachloroethene detected in the fourth (operational) quarter decreased in Wells 6E, 8A, and 7B and increased in Wells 6A and OBS-1 when compared with the third (operational) quarter results.
8. Although a few exceptions exist, concentrations of leachate indicators detected in total (unfiltered) samples from the fourth (operational) ground-water sampling round are consistent with the third (operational) quarter data. These leachate concentrations depict a similar distribution (i.e., the landfill leachate plume exhibits its greatest, approximate lateral extent in the middle zone, which is the approximate elevation of the "B" and "C" wells and is roughly equivalent to the shallow potentiometric zone, and its greatest approximate thickness [approximately 200 ft] in Well Cluster 6).
9. The Claremont Polychemical site is a potential source of VHOs and tetrachloroethene, and the Nassau County Fireman's Training Center is a potential source of aromatic hydrocarbons and trace amounts of VHOs and tetrachloroethene.



RECOMMENDATIONS

Based on the data presented in this report, Geraghty & Miller recommends the following:

1. The frequency of hydraulic monitoring should be reduced from monthly to quarterly. To provide for efficient data collection, quarterly hydraulic monitoring should be timed to coincide with the on-going quarterly ground-water sampling program.
2. To determine if hydraulic control of the VOC plume can be effectively maintained at a lower total system pumpage rate, system pumpage should, on a trial basis, be reduced incrementally and hydraulic monitoring should be increased to weekly. Weekly hydraulic monitoring should be continued until the effect of the reduced pumpage rate is determined.
3. The quarterly ground-water sampling program should be continued without change.
4. Well 9A should be repaired or replaced so that water levels can be measured.



Table 5. Fourth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	6F	7B	8A	8B	9B	9C
Sample Date:	1/7/93	1/6/93	1/6/93	1/6/93	1/26/93	1/8/93
Parameter (concentrations in ug/L)						
Chloromethane	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	1	2	<1	<1	<1
1,2-Dichloroethene	<1	54	54	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	2	3	2	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
Trichloroethylene	<1	9	19	3	<1	<1
Chlorodibromomethane	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2	<2
Tetrachloroethene	<1	110	250	<1	<1	<1
Chlorobenzene	<2	<2	<2	<2	<2	2
1,3-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	<2	<2	<2	<2	<2	6
Benzene	<1	<1	<1	<1	<1	4
Toluene	<2	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4	<4
Total VOCs	0	177	328	5	0	12

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 5. Fourth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	11A	11B	OBS-1	M-30B	FB-18B	FB-18C
Sample Date:	1/8/93	1/8/93	1/6/93	1/6/93	1/8/93	1/8/93
Parameter (concentrations in ug/L)						
Chloromethane	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	4	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	2	<1	<1	<1
1,2-Dichloroethene	<1	<1	79	<1	<1	<1
Chloroform	<1	<1	<1	<1	10	<1
1,2-Dichloroethane	<1	<1	4	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
Trichloroethylene	<1	<1	6	<1	<1	<1
Chlorodibromomethane	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2	<2
Tetrachloroethene	<1	<1	27	<1	<1	<1
Chlorobenzene	<2	<2	<2	<2	<2	<2
1,3-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	<2	<2	<2	<2	<2	<2
Benzene	<1	<1	110	<1	<1	<1
Toluene	<2	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4	<4
Total VOCs	0	0	233	0	10	0

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 5. Fourth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	FB-26	TB-16	TB-17	TB-18	Trip Blank
Sample Date:	1/26/93	1/6/93	1/7/93	1/8/93	1/26/93
Parameter (concentrations in ug/L)					
Chloromethane	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1
1,2-Dichloroethene	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2
Trichloroethylene	<1	<1	<1	<1	<1
Chlorodibromomethane	<2	<2	<2	<2	<2
1,1,2-Trichloroethane	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2
Tetrachloroethene	<1	<1	<1	<1	<1
Chlorobenzene	<2	<2	<2	<2	<2
1,3-Dichlorobenzene	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1
Toluene	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4
Total VOCs	0	0	0	0	0

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 6. Fourth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	5B	6A	6B	6C	6C-Rep	6E
Sample Date:	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93
Parameter (concentrations in mg/L)						
Aluminum	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.56	0.08	0.40	0.24	0.24	0.58
Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	300	5.1	180	93	95	29
Zinc	<0.02	0.04	<0.02	<0.02	<0.02	0.05
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium	68	1.0	81	50	46	11
Magnesium	24	2.6	14	13	12	15
Calcium	22	3.6	8.9	27	27	33
Barium	0.08	<0.05	0.06	0.07	0.07	0.26
Iron	<0.05	0.90	20	25	25	0.65

mg/L Milligrams per liter.

NA Not analyzed.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 6. Fourth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	6F	7B	8A	8B	9B	9C
Sample Date:	1/7/93	1/6/93	1/6/93	1/6/93	1/26/93	1/8/93
Parameter (concentrations in mg/L)						
Aluminum	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	<0.001	<0.001	<0.001	<0.001	0.004	0.003
Manganese	0.04	0.16	0.17	1.0	0.33	0.18
Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	41	23	9.6	30	15	250
Zinc	<0.02	<0.02	<0.02	0.06	0.02	0.02
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium	2.2	2.0	3.3	16	6.9	110
Magnesium	7.5	5.6	4.6	12	7.6	19
Calcium	20	10	15	34	12	8.2
Barium	0.10	0.09	0.08	0.30	0.06	0.08
Iron	<0.05	<0.05	<0.05	0.84	0.16	<0.05

mg/L Milligrams per liter.

NA Not analyzed.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 6. Fourth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	11A	11B	OBS-1	M-30B	LF-1
Sample Date:	1/8/93	1/8/93	1/6/93	1/6/93	1/8/93
Parameter (concentrations in mg/L)					
Aluminum	<0.20	<0.20	<0.20	<0.20	NA
Copper	<0.02	<0.02	<0.02	<0.02	NA
Lead	<0.001	<0.001	0.004	<0.001	NA
Manganese	<0.02	<0.02	0.30	0.16	3.6
Nickel	<0.10	<0.10	<0.10	<0.10	NA
Sodium	5.1	4.1	11	24	51
Zinc	<0.02	<0.02	0.40	<0.02	NA
Chromium	<0.005	<0.005	<0.005	<0.005	NA
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	NA
Potassium	0.68	0.56	2.3	2.3	26
Magnesium	0.94	0.65	8.6	11	NA
Calcium	2.1	1.7	9.6	14	12
Barium	<0.05	<0.05	0.06	0.15	NA
Iron	<0.05	<0.05	<0.05	<0.05	1.9

mg/L Milligrams per liter.

NA Not analyzed.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 7. Fourth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	5B	6A	6B	6C	6C-Rep	6E
Sample Date:	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93
Parameter (concentrations in mg/L)						
Chloride	380	8	260	220	190	160
Ammonia	74	<0.5	62	36	33	2.7
Iron	<0.05	0.88	26	25	26	0.70
Hardness	170	20	79	120	120	150
Alkalinity	660	20	480	240	230	8
Phenols	<0.001	<0.001	0.009	<0.001	<0.001	<0.001
Barium	0.09	<0.05	0.07	0.07	0.07	0.26
Aluminum	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	<0.001	0.001	<0.001	<0.001	<0.001	0.004
Manganese	0.62	0.08	0.40	0.25	0.25	0.60
Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	320	5.3	180	92	94	29
Zinc	<0.02	0.05	<0.02	<0.02	<0.02	0.05
Chromium, hexavalent	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium	79	1.0	85	54	50	11
Magnesium	27	2.6	14	13	13	15
Calcium	25	3.6	9.2	27	26	34
Total dissolved solids	1100	52	720	460	470	320
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfate	50	<5	15	20	18	13
Carbonate alkalinity	0	0	0	0	0	0
Total kjeldahl nitrogen	79	1.4	67	38	35	3.6
Nitrogen	79	1.4	67	38	35	3.6
Bicarbonate alkalinity	660	20	480	240	230	8
Cyanide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
pH (1) (2)	6.5	4.6	6.4	6.3	6.3	4.5
Specific conductivity (1) (3)	1800	60	1400	900	900	390

mg/L Milligrams per liter.

NA Not analyzed.

(1) Parameter measured in field by Geraghty & Miller, Inc.

(2) pH Units.

(3) Units equal micromhos per centimeter (umhos/cm).

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 7. Fourth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	6F	7B	8A	8B	9B	9C
Sample Date:	1/7/93	1/6/93	1/6/93	1/6/93	1/26/93	1/8/93
Parameter (concentrations in mg/L)						
Chloride	120	58	18	140	34	390
Ammonia	<0.05	<0.05	1.3	1.7	1.7	105
Iron	<0.05	1.2	0.07	0.85	7.1	<0.05
Hardness	82	40	54	130	60	110
Alkalinity	4	14	26	10	14	640
Phenols	<0.001	<0.001	<0.001	<0.001	0.004	<0.001
Barium	0.10	0.07	0.07	0.31	0.09	0.08
Aluminum	<0.20	0.41	<0.20	<0.20	<0.20	<0.20
Copper	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	<0.001	0.003	0.003	<0.001	0.041	0.004
Manganese	0.04	0.16	0.17	1.0	0.34	0.18
Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	41	19	9.2	30	15	250
Zinc	<0.02	<0.02	<0.02	0.06	0.04	<0.02
Chromium, hexavalent	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	0.0032	<0.00025
Potassium	2.1	2.1	3.3	16	6.6	110
Magnesium	7.6	5.0	4.8	12	7.9	22
Calcium	20	8.0	14	34	11	8.6
Total dissolved solids	260	140	120	320	150	1000
Nitrate	0.8	2.3	0.6	<0.5	3.0	<0.5
Sulfate	<5	8	29	25	37	14
Carbonate alkalinity	0	0	0	0	0	0
Total kjeldahl nitrogen	1.4	1.2	3.6	2.6	3.4	110
Nitrogen	2.2	3.5	4.2	2.6	6.4	110
Bicarbonate alkalinity	4	14	26	10	14	640
Cyanide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
pH (1) (2)	4.4	4.5	4.5	4.2	5.0	6.2
Specific conductivity (1) (3)	305	180	150	440	180	1900

mg/L Milligrams per liter.

NA Not analyzed.

(1) Parameter measured in field by Geraghty & Miller, Inc.

(2) pH Units.

(3) Units equal micromhos per centimeter (umhos/cm).

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 7. Fourth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	11A	11B	OBS-1	M-30B	LF-1
Sample Date:	1/8/93	1/8/93	1/6/93	1/6/93	1/8/93
Parameter (concentrations in mg/L)					
Chloride	8	8	19	60	110
Ammonia	<0.05	<0.05	0.20	<0.05	15
Iron	<0.05	<0.05	0.16	52	2.4
Hardness	8.7	8.9	54	67	85
Alkalinity	6	4	25	10	160
Phenols	<0.001	<0.001	<0.001	<0.001	NA
Barium	<0.05	<0.05	0.06	0.98	NA
Aluminum	<0.20	<0.20	<0.20	25	NA
Copper	<0.02	<0.02	<0.02	0.02	NA
Lead	<0.001	<0.001	0.006	0.027	NA
Manganese	<0.02	<0.02	0.30	0.97	3.6
Nickel	<0.10	<0.10	<0.10	<0.10	NA
Sodium	4.6	4.2	9.7	21	50
Zinc	<0.02	<0.02	0.29	0.03	NA
Chromium, hexavalent	<0.02	<0.02	<0.02	<0.02	NA
Chromium	<0.005	<0.005	<0.005	0.023	NA
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	NA
Potassium	0.66	0.62	2.6	3.4	26
Magnesium	0.98	0.70	8.0	8.9	NA
Calcium	1.9	2.4	8.4	12	11
Total dissolved solids	10	10	120	180	370
Nitrate	2.2	1.4	0.9	4.6	<0.5
Sulfate	<5	<5	28	35	60
Carbonate alkalinity	0	0	0	0	0
Total kjeldahl nitrogen	1.0	0.4	1.0	2.2	17
Nitrogen	3.2	1.8	1.9	6.8	NA
Bicarbonate alkalinity	6	4	25	10	160
Cyanide	<0.02	<0.02	<0.02	<0.02	NA
pH (1) (2)	5.0	5.0	5.0	NA	5.7
Specific conductivity (1) (3)	40	40	140	240	675

mg/L Milligrams per liter.

NA Not analyzed.

(1) Parameter measured in field by Geraghty & Miller, Inc.

(2) pH Units.

(3) Units equal micromhos per centimeter (umhos/cm).

All analyses performed by EcoTest Laboratories, North Babylon, New York.

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- Ott, D. 1993b. Farmingdale Water District. Verbal communication with B. Mulholland, Geraghty & Miller, Inc., February 1993.
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Table 1. Water-Level Data Collected on January 5, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet bmp)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	73.28	63.85	
5B	138.43	74.63	63.80	
6A	160.24	96.55	63.69	
6B	160.39	96.77	63.62	
6C	159.99	96.24	63.75	
6D	160.39	96.72	63.67	
6E	160.88	97.12	63.76	
6F	159.88	96.34	63.54	
7A	148.44	87.89	60.55	
7B	147.94	88.68	59.26	
8A	134.94	70.04	64.90	
8B	134.24	69.19	65.05	
8C	135.72	70.69	65.03	
9A (1)	153.35	(1)	(1)	TD = 91.84 (feet bmp)
9B	153.28	92.85	60.43	
9C	153.53	93.89	59.64	
9D	152.95	92.27	60.68	
10A	161.28	97.57	63.71	
10B	161.12	97.69	63.43	
10C	160.27	96.75	63.52	
10D	161.17	97.45	63.72	
11A	80.19	23.18	57.01	
11B	79.91	23.04	56.87	
M-29A	158.56	(2)	(2)	TD = 87.84 (feet bmp)
M-29B	157.41	86.60	70.81	
M-30A	151.20	82.09	69.11	
M-30B	155.65	85.86	69.79	
N-9980	80.46	23.92	56.54	
LF-1	111.40	45.74	65.66	
LF-2	118.70	53.00	65.70	
LF-3	126.50	58.78	67.72	
LF-4	149.93	80.90	69.03	
OBS-1	110.20	49.50	60.70	
OBS-2	105.26	45.69	59.57	
RW-1	110.94	49.60	61.34	Static
RW-2	145.31	97.02	48.29	Operating
RW-3	120.92	69.77	51.15	Operating
RW-4	144.82	89.47	55.35	Operating
RW-5	149.74	94.04	55.70	Operating
TW-1	121.12	52.70	68.42	
TW-2	117.52	51.61	65.91	
TW-3	122.94	57.04	65.90	
Farm W.D. 1-3	—	—	25.5 (3)	
Farm W.D. 2-2	—	—	65.0 (3)	
Farm W.D. 2-3	—	—	37.0 (3)	
Recharge Basin	125.86	NA	NA	Staff gauge submerged

— Elevation unknown.

NA Not assessable; water level could not be measured.

TD Total depth.

bmp Below measuring point.

(1) Screen zone for Well 9A is apparently damaged, and gravel pack has entered the well. Water level could not be measured.

(2) Well was dry.

(3) Water-level data from Farmingdale Water District (Ott 1993a) not included on water-level map because wells are beyond area of interest and the data are accurate to only plus or minus 1 foot.

Table 2. Water-Level Data Collected on February 5, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet below measuring point)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	73.18	63.95	
5B	138.43	74.50	63.93	
6A	160.24	96.37	63.87	
6B	160.39	96.56	63.83	
6C	159.99	96.04	63.95	
6D	160.39	96.50	63.89	
6E	160.88	96.97	63.91	
6F	159.88	96.25	63.63	
7A	148.44	87.74	60.70	
7B	147.94	88.39	59.55	
8A	134.94	69.82	65.12	
8B	134.24	69.03	65.21	
8C	135.72	70.59	65.13	
9A (1)	153.35	91.45 (1)	61.90 (1)	
9B	153.28	92.17	61.11	
9C	153.53	92.87	60.66	
9D	152.95	92.10	60.85	
10A	161.28	97.35	63.93	
10B	161.12	97.54	63.58	
10C	160.27	96.62	63.65	
10D	161.17	97.44	63.73	
11A	80.19	23.34	56.85	
11B	79.91	23.19	56.72	
M-29A	158.56	87.64	70.92	
M-29B	157.41	86.15	71.26	
M-30A	151.20	81.60	69.60	
M-30B	155.65	85.46	70.19	
N-9980	80.46	24.15	56.31	
LF-1	111.40	45.58	65.82	
LF-2	118.70	52.82	65.88	
LF-3	126.50	58.62	67.88	
LF-4	149.93	80.56	69.37	
OBS-1	110.20	49.58	60.62	
OBS-2	105.26	45.57	59.69	
RW-1	110.94	55.30	55.64	Pump operating
RW-2	145.31	84.47	60.84	Static water level
RW-3	120.92	69.65	51.27	Pump operating
RW-4	144.82	89.65	55.17	Pump operating
RW-5	149.74	93.91	55.83	Pump operating
TW-1	121.12	52.22	68.90	
TW-2	117.52	51.49	66.03	
TW-3	122.94	56.93	66.01	
Farm W.D. 1-3	—	25.50 (2)	—	Static water level
Farm W.D. 2-2	—	63.00 (2)	—	Static water level
Farm W.D. 2-3	—	36.00 (2)	—	Static water level
Recharge Basin	128	NA	Approximately 127.00	128-ft mark is the first increment on the staff gauge

— Elevation unknown.

NA Not applicable.

(1) Screen zone for Well 9A is apparently damaged, and gravel pack has entered the well.

(2) Accuracy is +/- 1.0 ft (Oct 1993b).

Table 3. Water-Level Data Collected on March 8, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet below measuring point)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	73.10	64.03	
5B	138.43	74.42	64.01	
6A	160.24	96.32	63.92	
6B	160.39	96.52	63.87	
6C	159.99	95.99	64.00	
6D	160.39	96.47	63.92	
6E	160.88	96.95	63.93	
6F	159.88	96.24	63.64	
7A	148.44	87.74	60.70	
7B	147.94	88.78	59.16	
8A	134.94	69.77	65.17	
8B	134.24	68.98	65.26	
8C	135.72	69.56	66.16	
9A (1)	153.35	91.5 (1)	61.85 (1)	
9B	153.28	92.78	60.50	
9C	153.53	93.93	59.60	
9D	152.95	92.30	60.65	
10A	161.28	97.30	63.98	
10B	161.12	97.51	63.61	
10C	160.27	96.61	63.66	
10D	161.17	97.45	63.72	
11A	80.19	23.28	56.91	
11B	79.91	23.08	56.83	
M-29A	158.56	(2)	(2)	
M-29B	157.41	86.32	71.09	
M-30A	151.20	81.67	69.53	
M-30B	155.65	85.59	70.06	
N-9980	80.46	24.05	56.41	
LF-1	111.40	45.64	65.76	
LF-2	118.70	52.80	65.90	
LF-3	126.50	58.61	67.89	
LF-4	149.93	80.59	69.34	
OBS-1	110.20	49.65	60.55	
OBS-2	105.26	45.70	59.56	
RW-1	110.94	55.66	55.28	Pumping
RW-2	145.31	91.98	53.33	Pumping
RW-3	120.92	70.16	50.76	Pumping
RW-4	144.82	89.76	55.06	Pumping
RW-5	149.74	94.11	55.63	Pumping
TW-1	121.12	52.42	68.70	
TW-2	117.52	51.44	66.08	
TW-3	122.94	56.91	66.03	
Farm W.D. 1-3	--	25.5 (3)	--	Static
Farm W.D. 2-2	--	63.0 (3)	--	Static
Farm W.D. 2-3	--	37.0 (3)	--	Static
Recharge Basin	128	NA	128.00	Staff gauge

-- Elevation unknown.

NA Not applicable.

(1) Screen zone for Well 9A is apparently damaged, and gravel pack has entered the well.

(2) Well was dry.

(3) Accuracy is +/- 1.0 ft (Ott 1993c).

Table 4. Pumpage Records for the Ground-Water Remediation System, January 1 through March 31, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Dates	Estimated Average System Flow (gpm)	Comments
1/1 to 1/4	1,389	All recovery wells on.
1/5	1,377	Recovery Wells 1 and 2 off for part of day.
1/6	1,376	Recovery Wells 2, 3, and 4 off for part of day.
1/7	1,155	All recovery wells off for part of day.
1/8 to 1/10	1,474	All recovery wells on.
1/11	1,421	Recovery Wells 1 and 2 off for part of day.
1/12	788	All recovery wells off for part of day.
1/13	826	Recovery Wells 2, 3, 4, and 5 off for part of day.
1/14 to 2/1	1,478	All recovery wells on.
2/2 to 2/20	1,183	Recovery Well 2 off.
2/21 to 2/23	985	Recovery Well 2 off. Recovery Wells 1, 3, 4, and 5 off for part of day.
2/24	1,041	All recovery wells off for part of day.
2/25 to 3/1	1,504	All recovery wells on.
3/2	1,228	Recovery Wells 2, 3, 4, and 5 off for part of day.
3/3 to 3/9	1,501	All recovery wells on.
3/10	1,399	Recovery Wells 2, 3, and 4 off for part of day.
3/11	1,477	Recovery Wells 1 and 5 off for part of day.
3/12 to 3/15	1,493	All recovery wells on.
3/16	500	All recovery wells off for part of day.
3/17	0	All recovery wells off.
3/18 to 3/19	926	All recovery wells off for part of day.
3/20 to 3/30	1,501	All recovery wells on.
3/31	507	All recovery wells off for part of day.

gpm Gallons per minute.



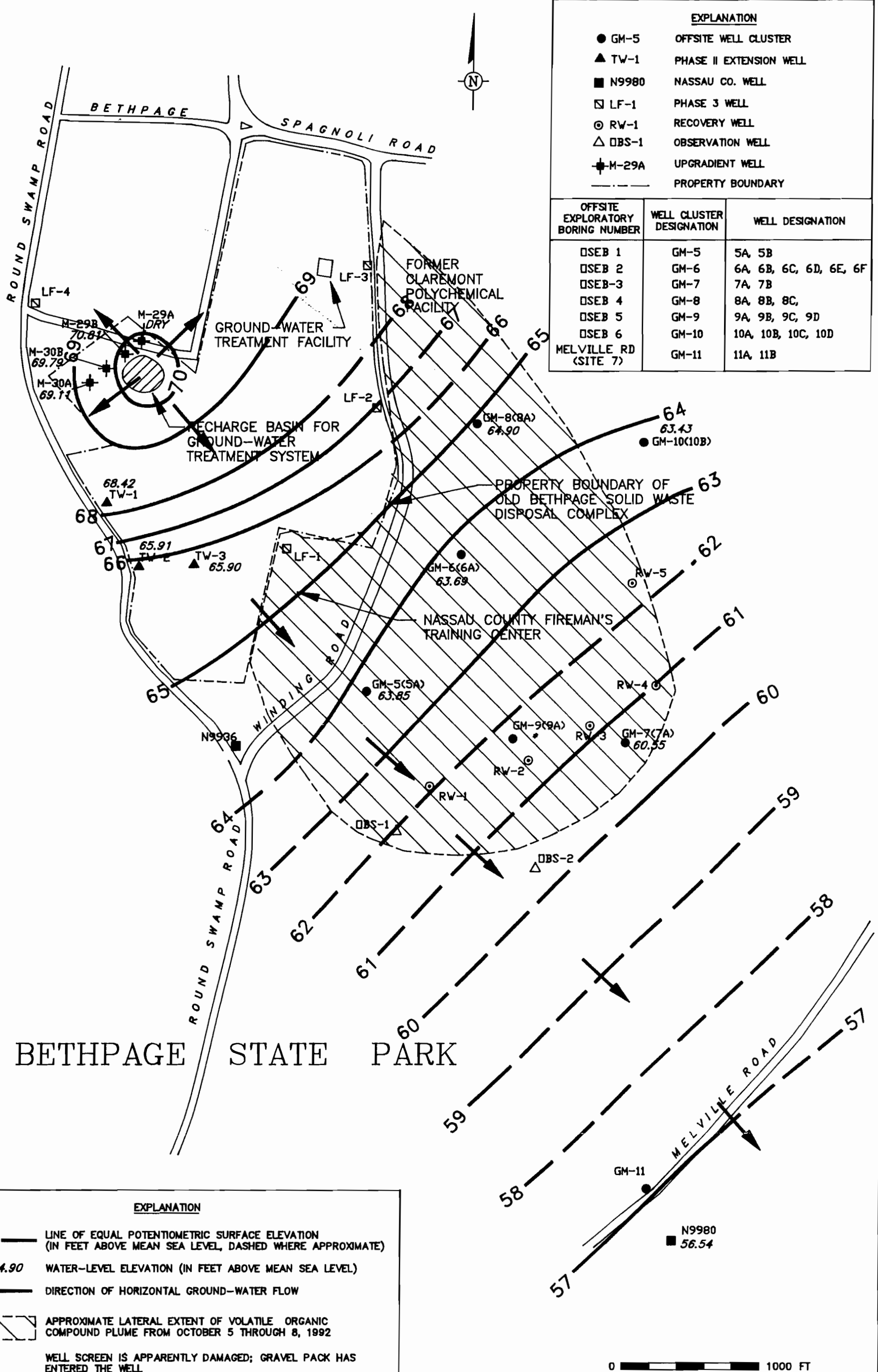
Table 5. Fourth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Ground-Water Samples Collected from January 6 Through January 26, 1993, Old Bethpage Landfill, Old Bethpage, New York.

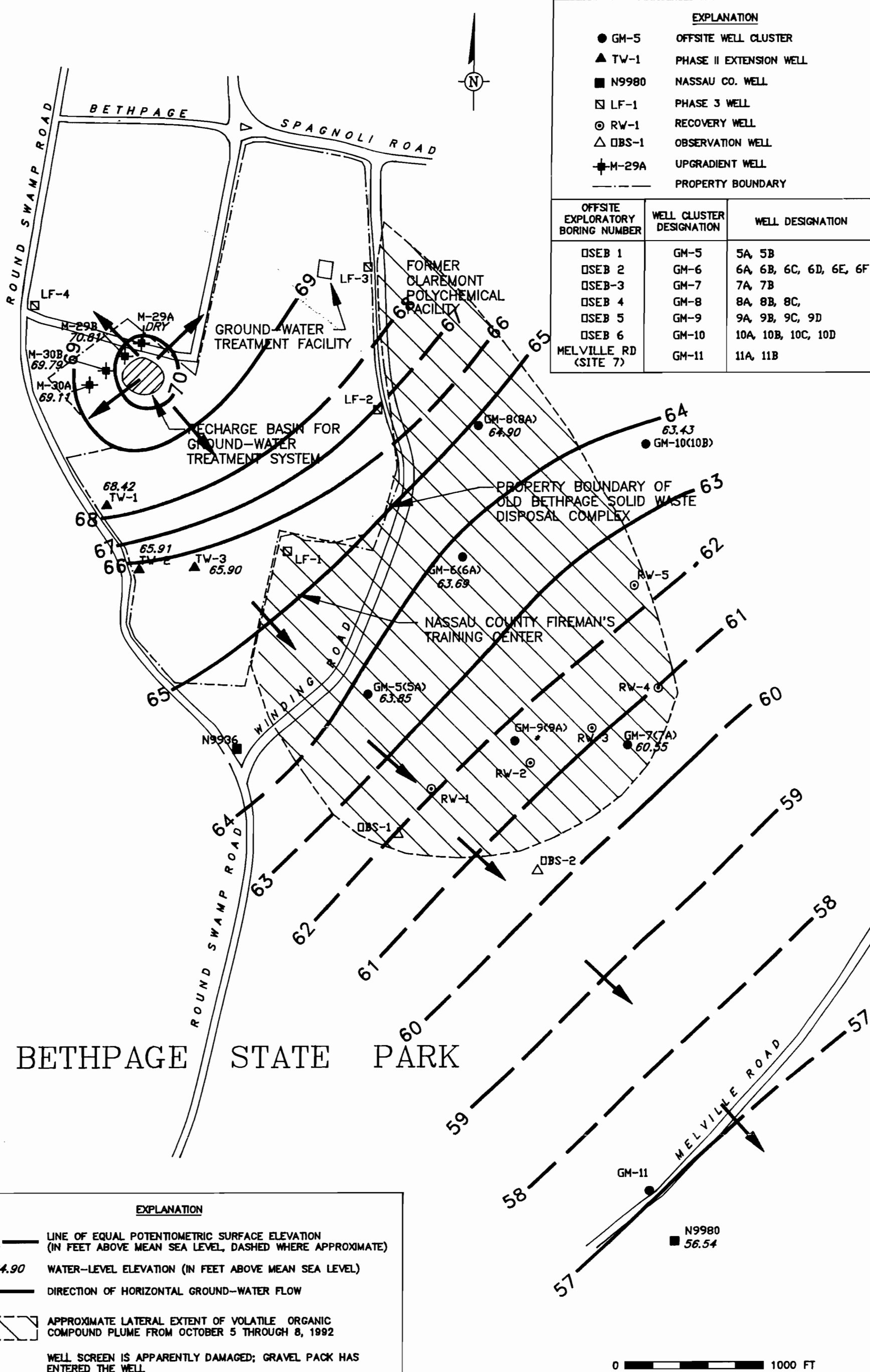
Sample Designation:	5B	6A	6B	6C	6C-Rep	6E
Sample Date:	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93	1/7/93
Parameter (concentrations in ug/L)						
Chloromethane	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	2	<1	<1	<1	<1	3
1,2-Dichloroethene	<1	2	<1	<1	<1	4
Chloroform	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
Trichloroethylene	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2	<2
Tetrachloroethene	<1	1	<1	<1	<1	2
Chlorobenzene	3	3	5	2	2	3
1,3-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	2	<2	2	<2	<2	7
1,4-Dichlorobenzene	6	<2	11	2	2	9
Benzene	2	<1	8	3	3	<1
Toluene	<2	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4	<4
Total VOCs	15	6	26	7	7	28

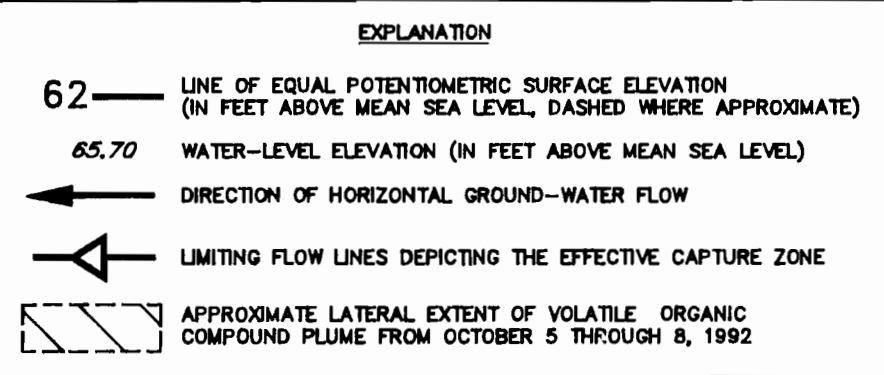
ug/L Micrograms per liter.

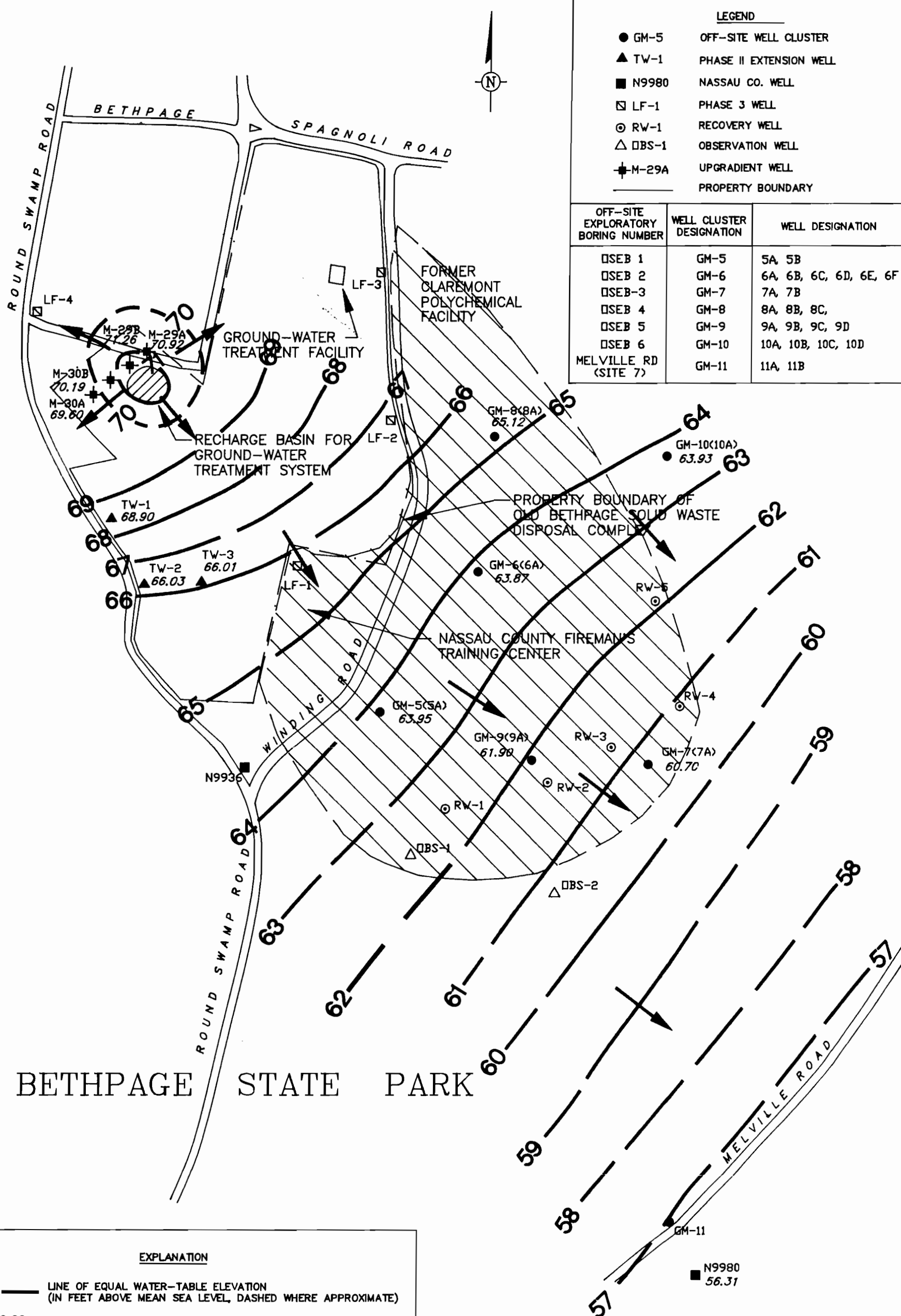
VOCs Volatile organic compounds.

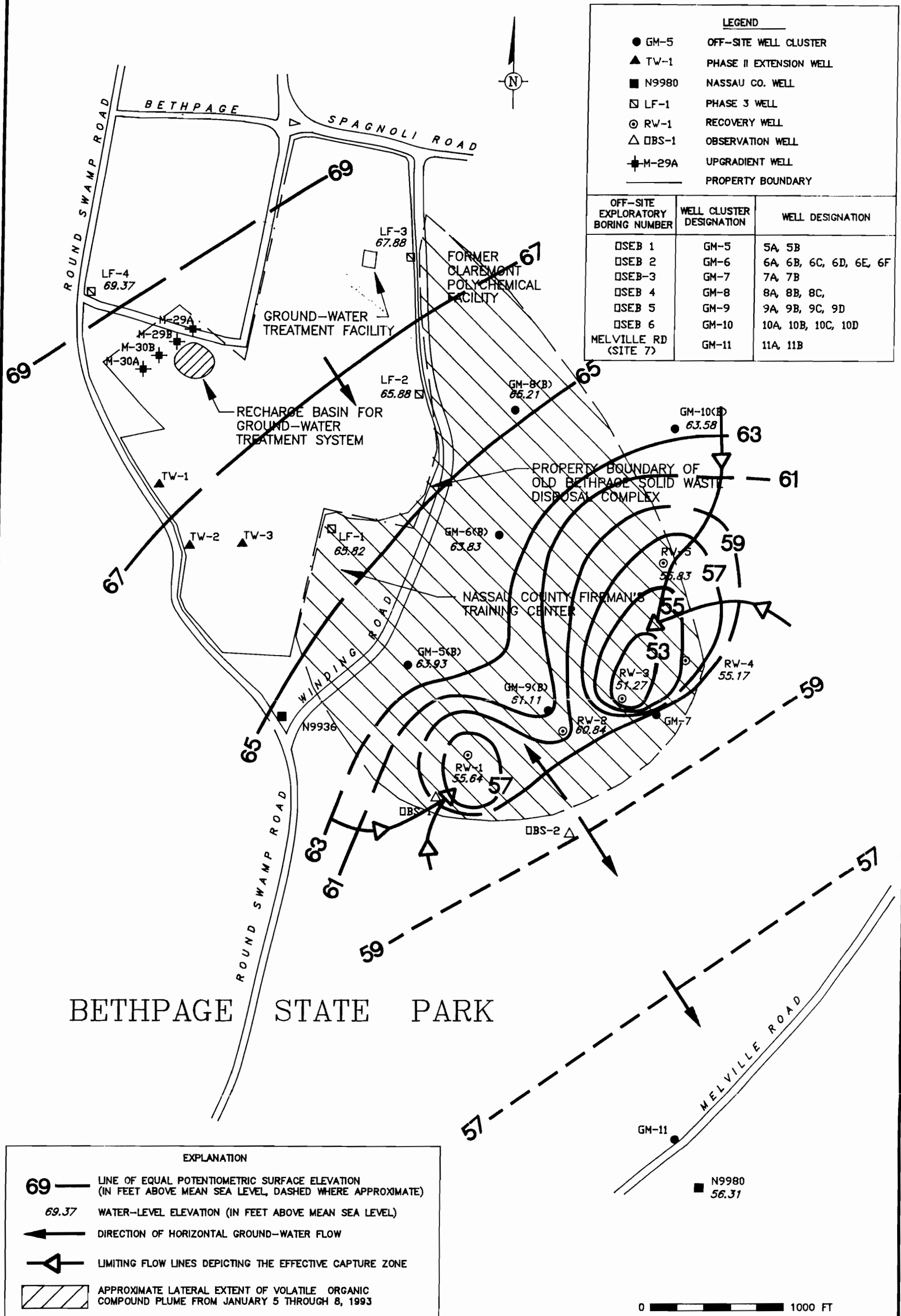
All analyses performed by EcoTest Laboratories, North Babylon, New York.

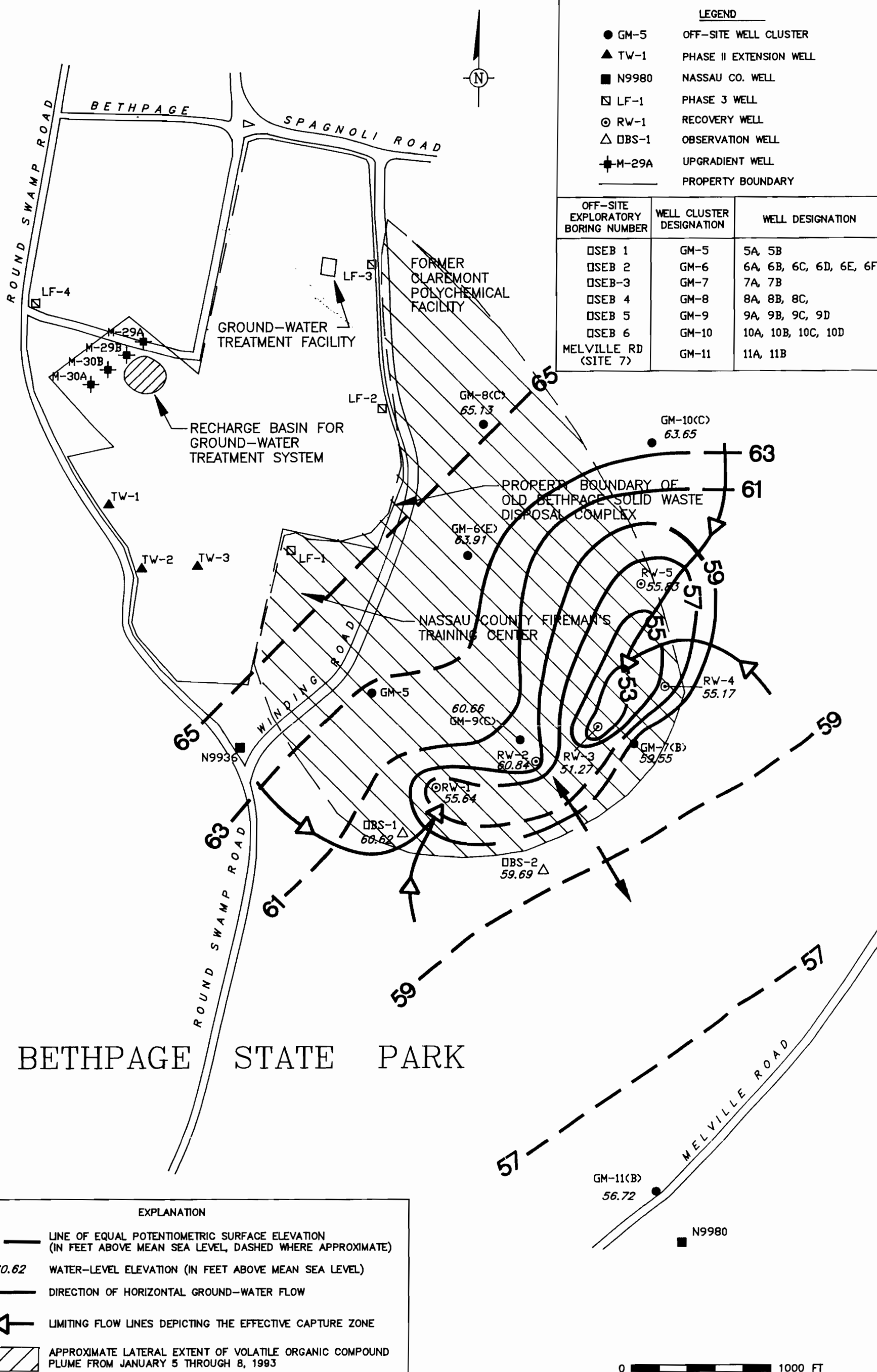


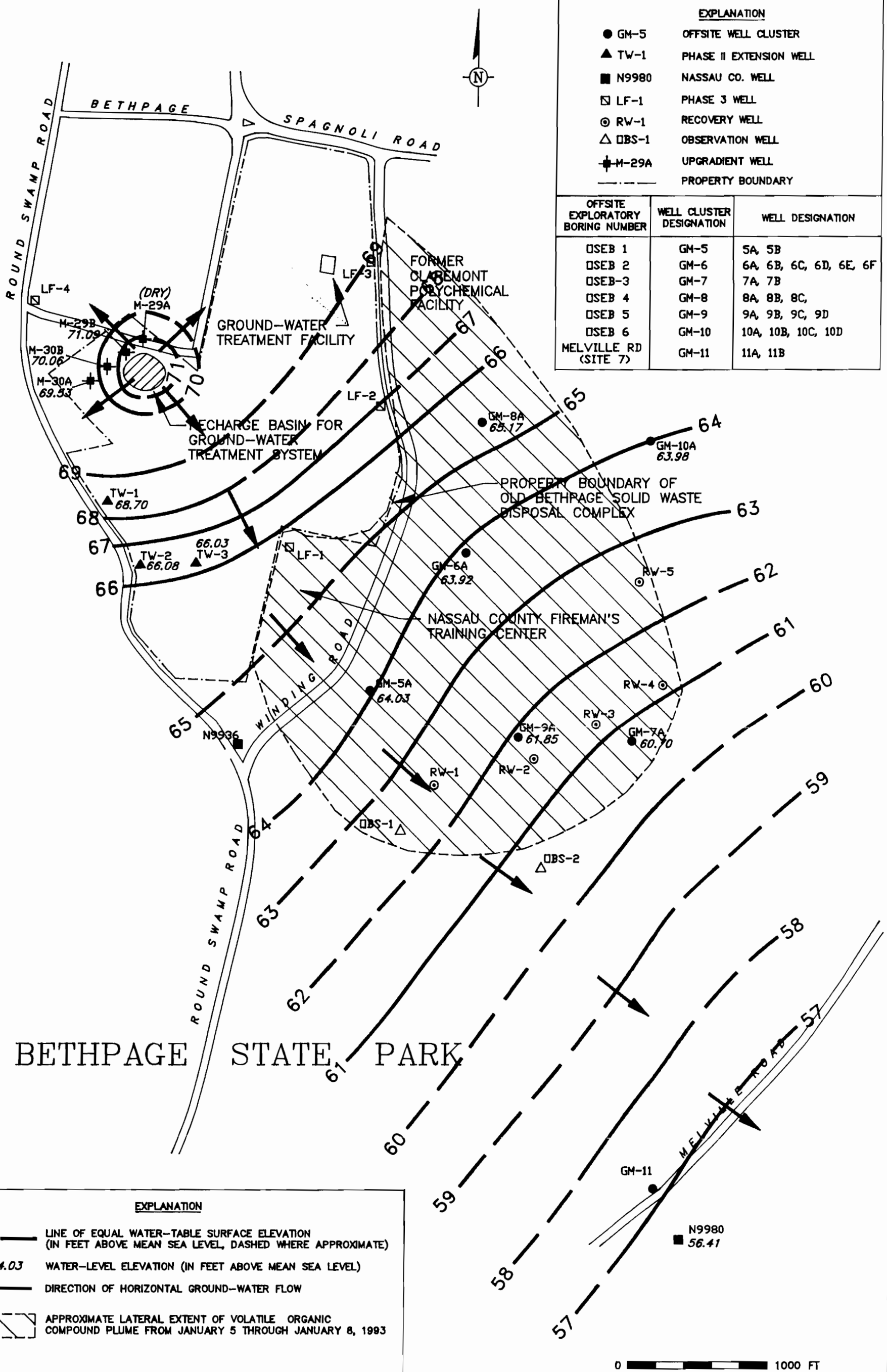


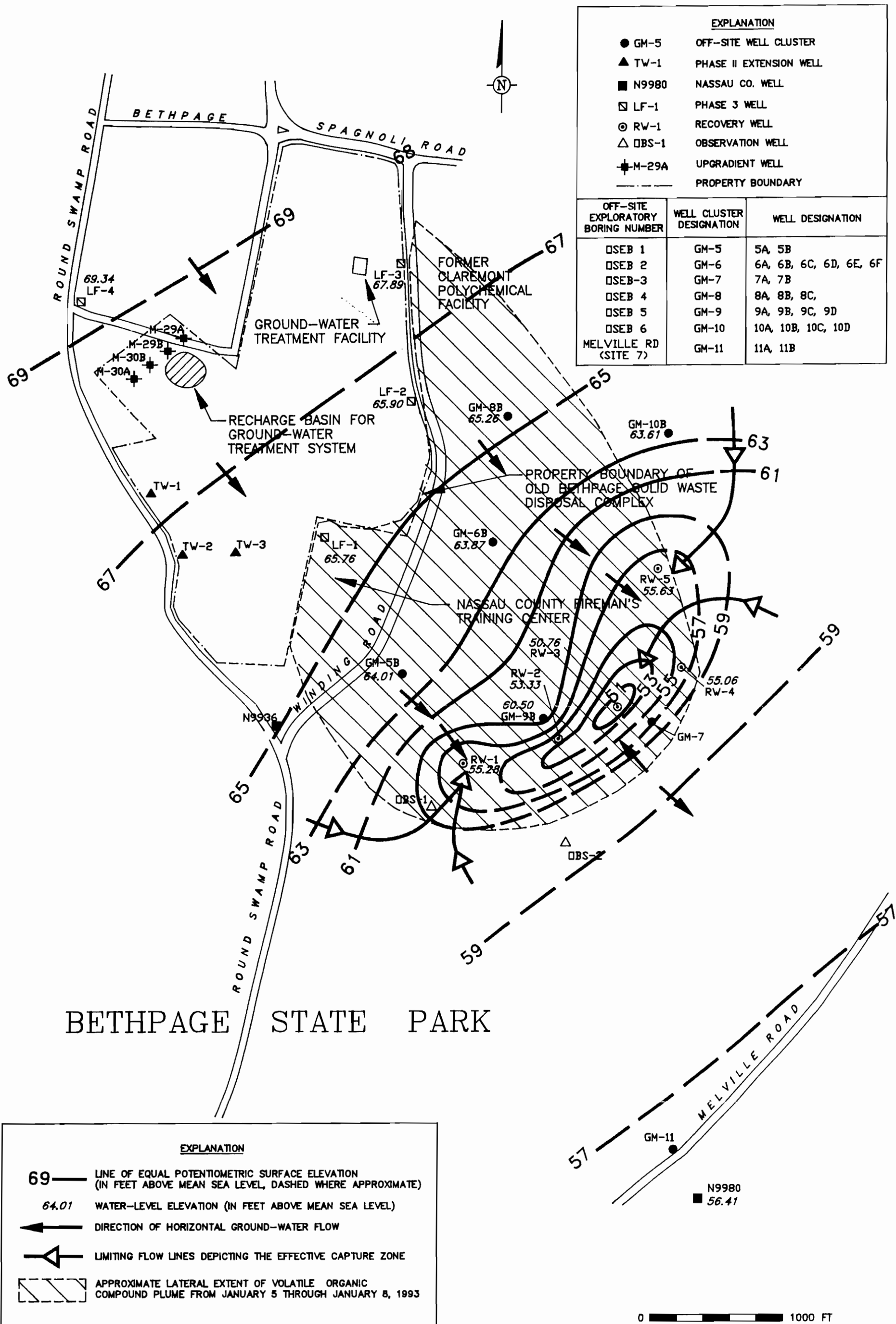


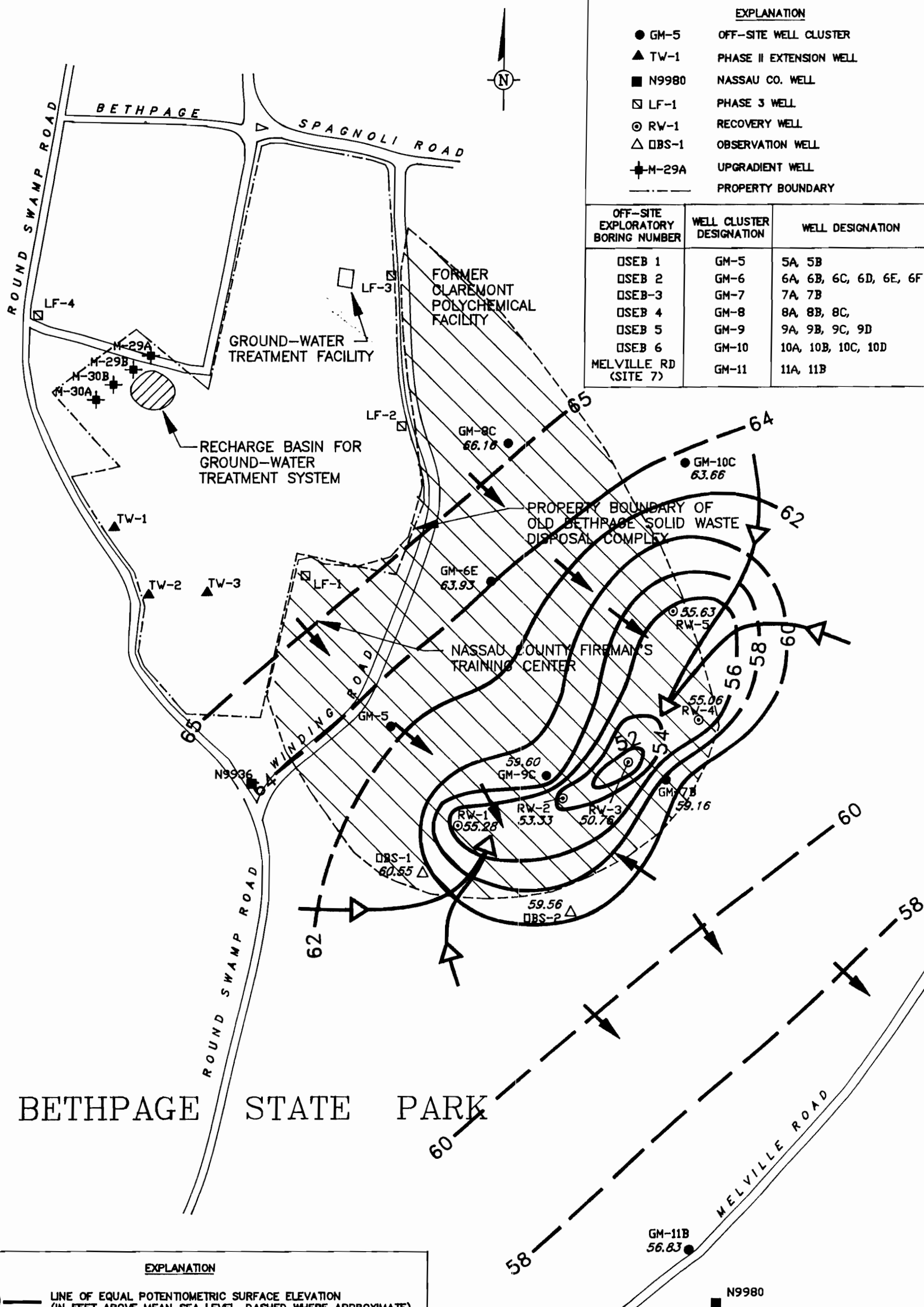


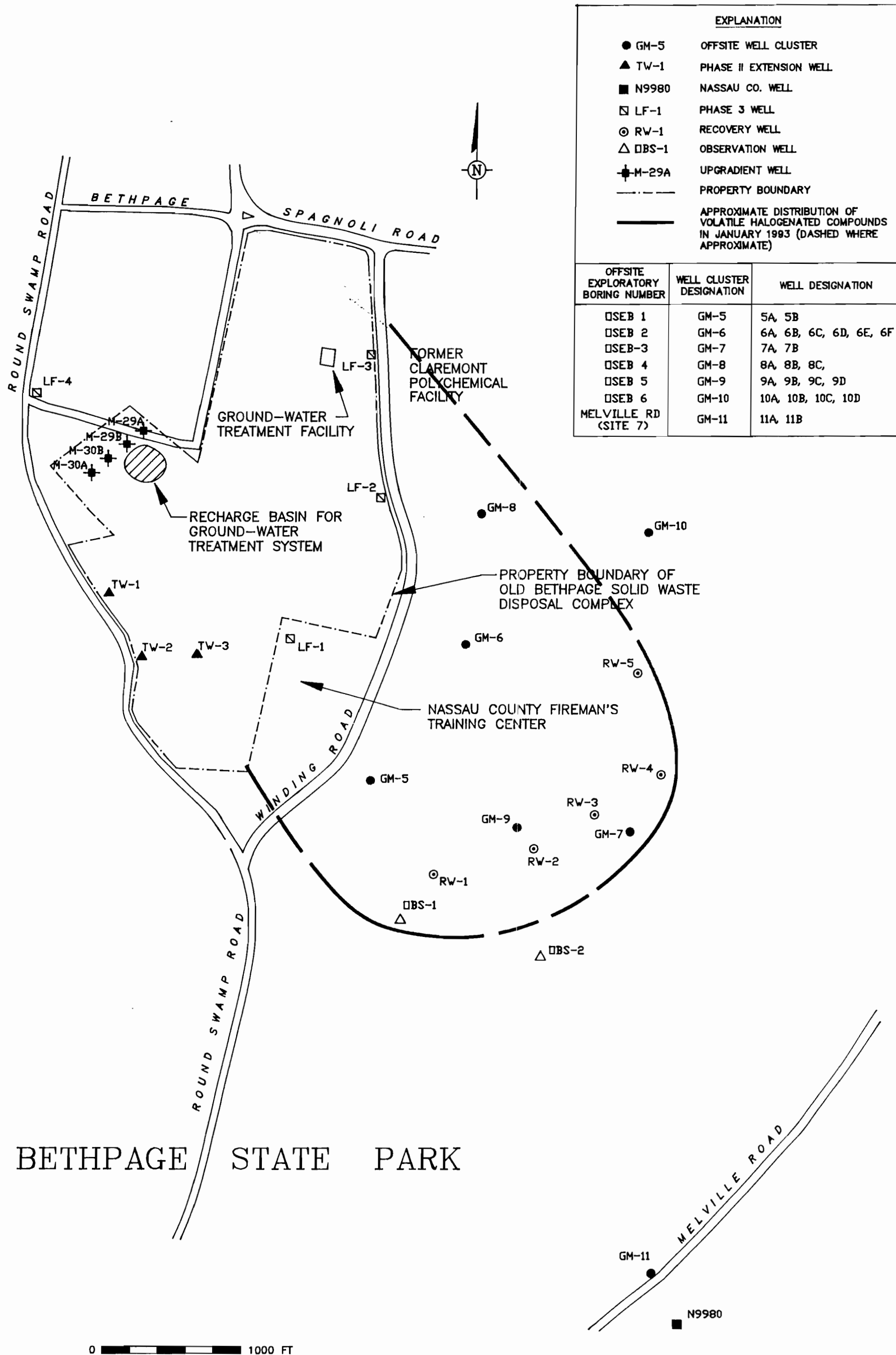


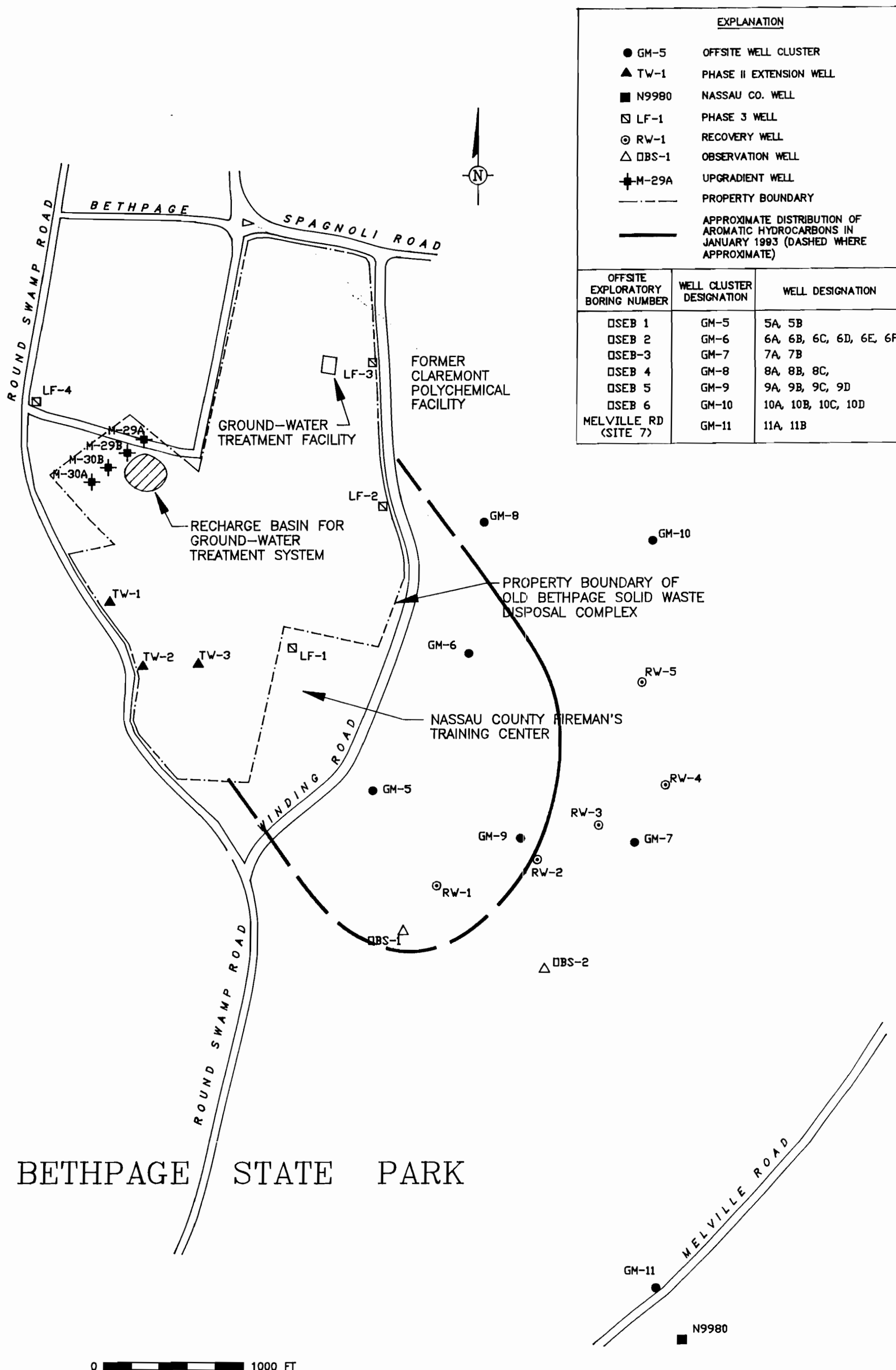


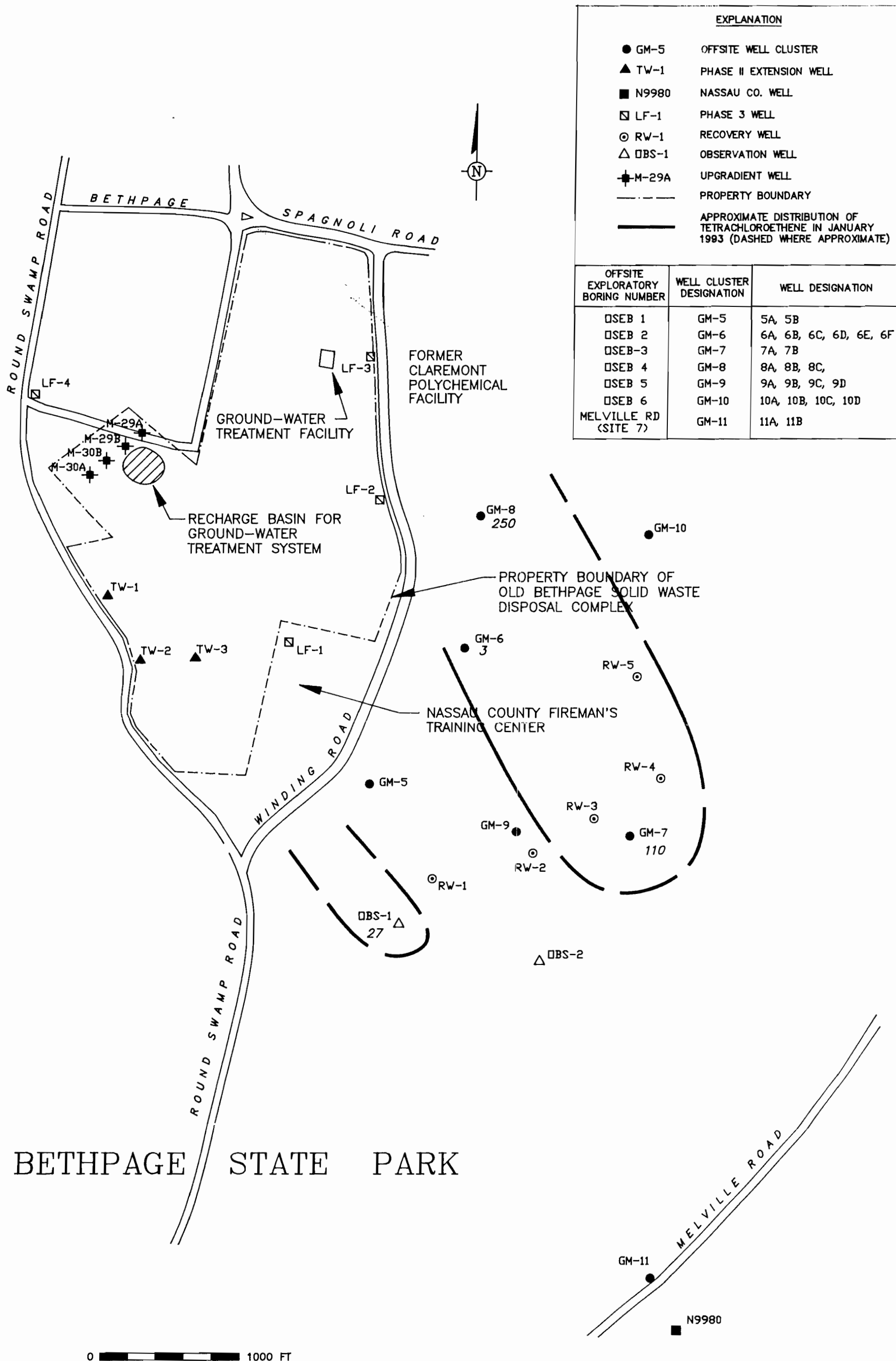


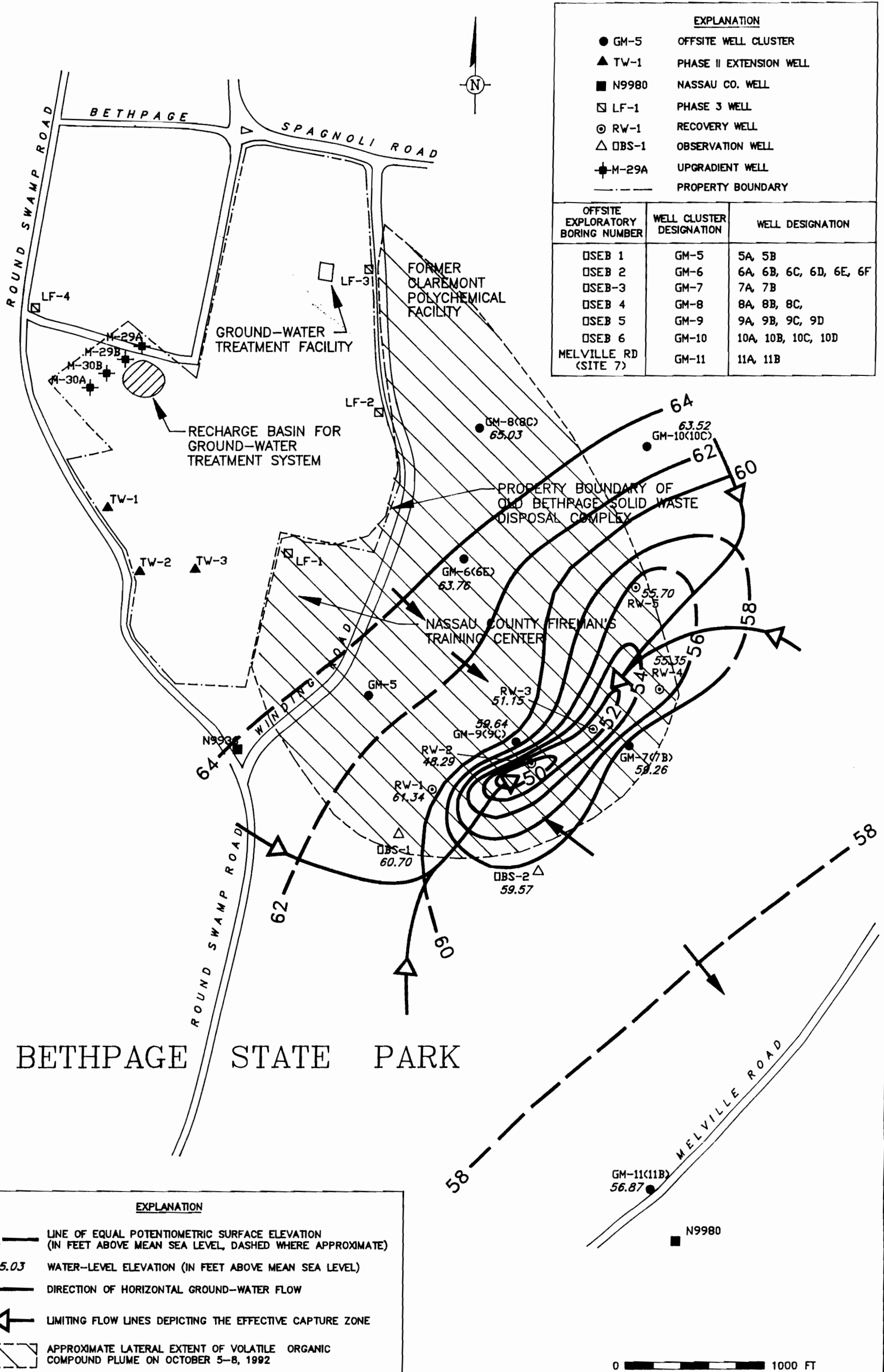












APPENDIX A

Laboratory Data Reports



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/12

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 58

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	2
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
Chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	3
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	2
1,4 Dichlorobenzene	ug/L	5
Benzene	ug/L	2
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93008173

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SA

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	2
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<1
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
1-chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	1

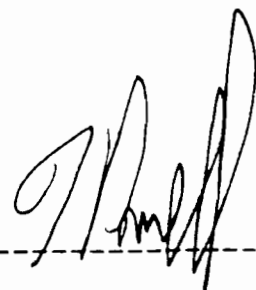
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	3
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93208174

01/16/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainville, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 68

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
Chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

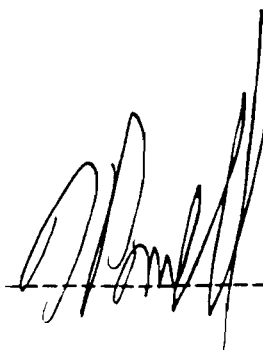
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	5
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	1
1,4 Dichlorobenzene	ug/L	11
Benzene	ug/L	8
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
p Xylene	ug/L	<4

SS:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93008176

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SC

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
Chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

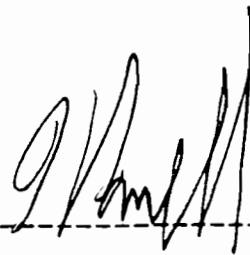
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	2
Benzene	ug/L	3
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

SC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/14

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, Rep 1 (6C)

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
1,1,1 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropane	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
1,1,2 Trichloroethane	ug/L	<2
1,3 Dichloropropane	ug/L	<2
Chloroethvinylether	ug/L	<1
Bromoform	ug/L	<1
1,1,2,2-Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

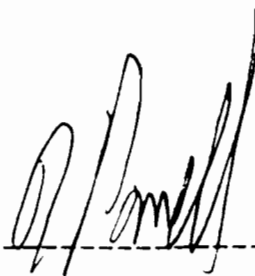
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<1
1,4 Dichlorobenzene	ug/L	2
Benzene	ug/L	3
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C33008178

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 6E

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	3
1,2 Dichloroethene	ug/L	4
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
Dichloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	2

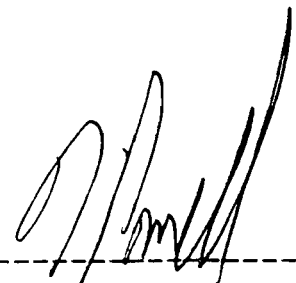
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	3
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	7
1,4 Dichlorobenzene	ug/L	3
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/10

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SF

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
1,1,2,2-Tetrachloroethane	ug/L	<2
Bromoform	ug/L	<2
1,1,2,2-Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

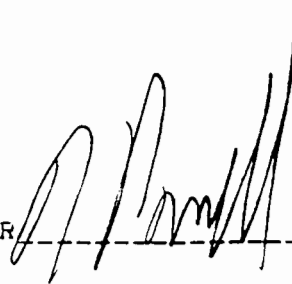
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
p Xylene	ug/L	<4

DO:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/8

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 7B

ANALYTICAL PARAMETERS

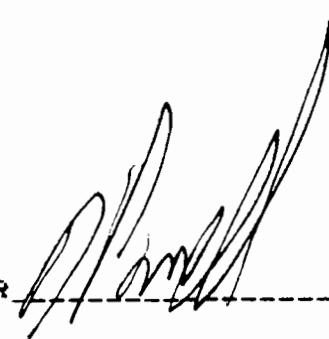
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	1
1,2 Dichloroethene	ug/L	54
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	2
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	9
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	110

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/4

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

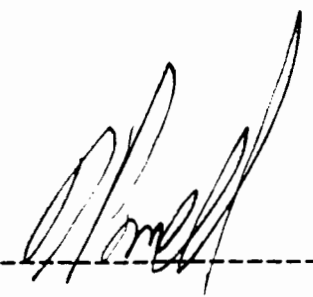
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	2
1,2 Dichloroethene	ug/L	54
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	3
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	19
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	250

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/6

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	2
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	3
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930348/1

02/10/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL

COLLECTED BY: Client DATE COL'D: 01/26/93 RECEIVED: 01/26/93

SAMPLE: Water sample, 9B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

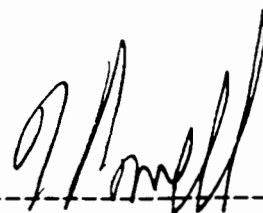
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0930098/6

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11903

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, GC

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
Chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	6
Benzene	ug/L	4
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

GC:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/8

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 11A

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
1-chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

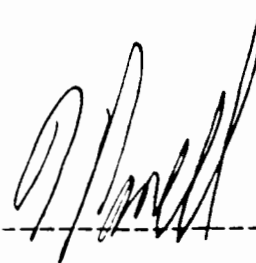
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. J330098/10

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 113

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
Chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

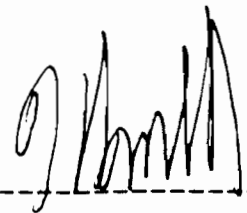
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/10

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, OBS-1

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	4
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	2
1,2 Dichloroethene	ug/L	79
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	4
111 Trichloroethane	ug/L	1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	6
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	27

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	110
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/2

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, M-30-B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/3

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF. #NY02907

COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, FB18B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	10
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0930098/2

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807

COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, FB18FC

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
2-chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1,1,2,2-Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930348/2

02/10/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807

COLLECTED BY: Client DATE COL'D: 01/26/93 RECEIVED: 01/26/93

SAMPLE: Water sample, FB 26

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

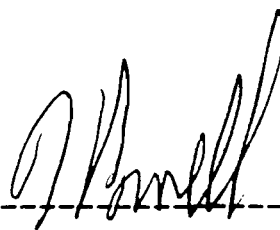
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/1

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, TB 16

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/1

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LP, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, TB17

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropane	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropane	ug/L	<2
1,2 Dichloroethoxyethane	ug/L	<2
Bromoform	ug/L	<2
1,1,1,2-Tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/1

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807

COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, TB 18

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluoromethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluoromethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
1,3 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
1,3 Dichloropropene	ug/L	<2
2-chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1,1,2,2-tetrachloroethane	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930348/3

02/10/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807

COLLECTED BY: Client DATE COL'D: 01/26/93 RECEIVED: 01/26/93

SAMPLE: Water sample, Trip Blank

ANALYTICAL PARAMETERS

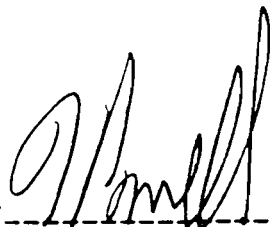
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. CG30081/12

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL

COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 5B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	380
Ammonia as N	mg/L	74
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	170
Alkalinity tot CaCO ₃	mg/L	660
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.62
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	320
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	79
Magnesium as Mg	mg/L	27
Calcium as Ca	mg/L	25
Tot Dissolved Solids	mg/L	1100
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	50
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	79

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	79
Bicarb. Alk CaCO ₃	mg/L	660
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 093008172

01/28/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 5A

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	5
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	0.38
Hardness as CaCO ₃	mg/L	20
Alkalinity tot CaCO ₃	mg/L	20
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	0.08
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	5.3
Zinc as Zn	mg/L	0.05
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.0
Magnesium as Mg	mg/L	2.5
Calcium as Ca	mg/L	3.5
Tot Dissolved Solids	mg/L	52
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.4

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	1.4
Bicarb. Alk CaCO ₃	mg/L	20
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0930081/4

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 68

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	160
Ammonia as N	mg/L	62
Iron as Fe	mg/L	16
Hardness as CaCO ₃	mg/L	79
Alkalinity tot CaCO ₃	mg/L	480
Phenols as Phenol	mg/L	0.009
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.40
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	180
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	65
Magnesium as Mg	mg/L	14
Calcium as Ca	mg/L	9.1
Tot Dissolved Solids	mg/L	720
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	15
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	67

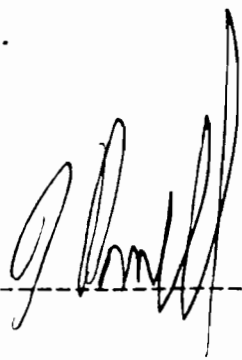
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	67
Bicarb. Alk CaCO ₃	mg/L	480
Cyanide as CN	mg/L	<0.02

SC:

REMARKS: -Analysis performed in the field.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93008176

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SC

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	220
Ammonia as N	mg/L	36
Iron as Fe	mg/L	25
Hardness as CaCO ₃	mg/L	120
Alkalinity tot CaCO ₃	mg/L	240
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.25
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	92
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	54
Magnesium as Mg	mg/L	13
Calcium as Ca	mg/L	27
Tot Dissolved Solids	mg/L	460
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	22
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	38

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	38
Bicarb. Alk CaCO ₃	mg/L	240
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C330081/14

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, Rep 1 (6C)

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	190
Ammonia as N	mg/L	33
Iron as Fe	mg/L	26
Hardness as CaCO ₃	mg/L	120
Alkalinity tot CaCO ₃	mg/L	230
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.25
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	94
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	50
Magnesium as Mg	mg/L	13
Calcium as Ca	mg/L	25
Tot Dissolved Solids	mg/L	470
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	18
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	35

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	35
Bicarb. Alk CaCO ₃	mg/L	230
Cyanide as CN	mg/L	<0.02

CS:

REMARKS: Analysis performed in the field.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93008178

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SE

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	160
Ammonia as N	mg/L	2.7
Iron as Fe	mg/L	0.70
Hardness as CaCO ₃	mg/L	150
Alkalinity tot CaCO ₃	mg/L	9
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.25
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.004
Manganese as Mn	mg/L	0.60
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	29
Zinc as Zn	mg/L	0.05
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	11
Magnesium as Mg	mg/L	15
Calcium as Ca	mg/L	34
Tot Dissolved Solids	mg/L	320
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	13
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	3.6

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	3.6
Bicarb. Alk CaCO ₃	mg/L	8
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/10

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 6F

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	120
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	82
Alkalinity tot CaCO ₃	mg/L	4
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.10
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.04
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	41
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.1
Magnesium as Mg	mg/L	7.6
Calcium as Ca	mg/L	20
Tot Dissolved Solids	mg/L	150
Nitrate as N	mg/L	0.3
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.4

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	2.2
Bicarb. Alk CaCO ₃	mg/L	4
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: Analysis performed in the field.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/8

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 7B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	58
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	1.2
Hardness as CaCO ₃	mg/L	40
Alkalinity tot CaCO ₃	mg/L	14
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	0.41
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	0.16
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	19
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.1
Magnesium as Mg	mg/L	5.0
Calcium as Ca	mg/L	8.0
Tot Dissolved Solids	mg/L	140
Nitrate as N	mg/L	2.3
Sulfate as SO ₄	mg/L	8
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.2

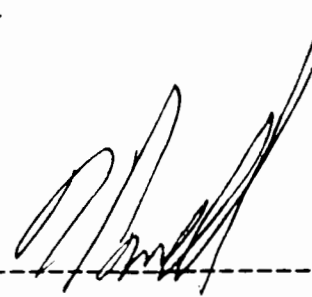
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	3.5
Bicarb. Alk CaCO ₃	mg/L	14
Cyanide as CN	mg/L	<0.02

CC:

REMARKS: •Analysis performed in the field.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/4

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

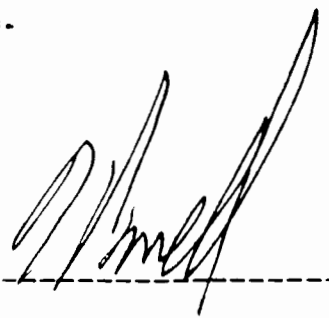
Chloride as Cl	mg/L	18
Ammonia as N	mg/L	1.3
Iron as Fe	mg/L	0.07
Hardness as CaCO ₃	mg/L	54
Alkalinity tot CaCO ₃	mg/L	26
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	0.17
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	9.2
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	3.3
Magnesium as Mg	mg/L	4.8
Calcium as Ca	mg/L	14
Tot Dissolved Solids	mg/L	120
Nitrate as N	mg/L	0.6
Sulfate as SO ₄	mg/L	29
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	3.6

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	4.2
Bicarb. Alk CaCO ₃	mg/L	26
Cyanide as CN	mg/L	<0.02

CC:

REMARKS: *Analysis performed in the field.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/6

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8B

ANALYTICAL PARAMETERS

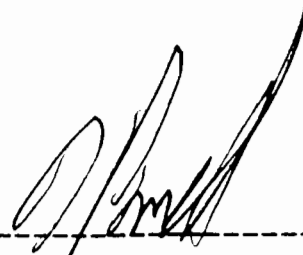
Chloride as Cl	mg/L	140
Ammonia as N	mg/L	1.7
Iron as Fe	mg/L	0.85
Hardness as CaCO ₃	mg/L	130
Alkalinity tot CaCO ₃	mg/L	10
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.31
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	1.0
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	30
Zinc as Zn	mg/L	0.06
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	16
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	34
Tot Dissolved Solids	mg/L	320
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	25
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	2.6

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	2.6
Bicarb. Alk CaCO ₃	mg/L	10
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930348/1

02/10/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/26/93 RECEIVED: 01/26/93

SAMPLE: Water sample, 9B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	34
Ammonia as N	mg/L	1.7
Iron as Fe	mg/L	7.1
Hardness as CaCO ₃	mg/L	60
Alkalinity tot CaCO ₃	mg/L	14
Phenols as Phenol	mg/L	0.004
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.041
Manganese as Mn	mg/L	0.34
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	15
Zinc as Zn	mg/L	0.04
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	0.011
Mercury as Hg	mg/L	0.0032
Potassium as K	mg/L	6.6
Magnesium as Mg	mg/L	7.9
Calcium as Ca	mg/L	11
Tot Dissolved Solids	mg/L	150
Nitrate as N	mg/L	3.0
Sulfate as SO ₄	mg/L	37
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	3.4

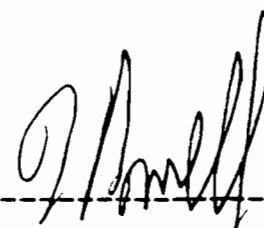
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	6.4
Bicarb. Alk CaCO ₃	mg/L	14
Cyanide as CN	mg/L	<0.02

CC:

REMARKS: *Analysis performed in the field.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/6

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 9C

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	390
Ammonia as N	mg/L	105
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	110
Alkalinity tot CaCO ₃	mg/L	640
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.08
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.004
Manganese as Mn	mg/L	0.18
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	250
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	110
Magnesium as Mg	mg/L	22
Calcium as Ca	mg/L	3.6
Tot Dissolved Solids	mg/L	1000
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	14
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	110

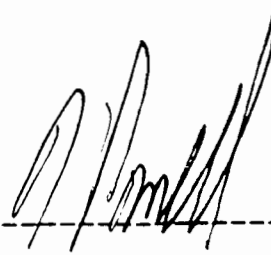
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	110
Bicarb. Alk CaCO ₃	mg/L	640
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: •Analysis performed in the field.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/8

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 11A

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	8
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	8.7
Alkalinity tot CaCO ₃	mg/L	6
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.6
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.56
Magnesium as Mg	mg/L	0.98
Calcium as Ca	mg/L	1.9
Tot Dissolved Solids	mg/L	10
Nitrate as N	mg/L	2.2
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.2

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	3.2
Bicarb. Alk CaCO ₃	mg/L	6
Cyanide as CN	mg/L	<0.01

DO:

REMARKS: -Analysis performed in the field.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/10

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 11B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	8
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	8.9
Alkalinity tot CaCO ₃	mg/L	4
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.2
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.52
Magnesium as Mg	mg/L	0.70
Calcium as Ca	mg/L	2.4
Tot Dissolved Solids	mg/L	10
Nitrate as N	mg/L	1.4
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	0.4

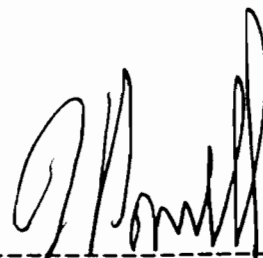
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	1.3
Bicarb. Alk CaCO ₃	mg/L	4
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/10

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, OBS-1

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	19
Ammonia as N	mg/L	0.20
Iron as Fe	mg/L	0.16
Hardness as CaCO ₃	mg/L	54
Alkalinity tot CaCO ₃	mg/L	25
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.006
Manganese as Mn	mg/L	0.30
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	9.7
Zinc as Zn	mg/L	0.29
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.6
Magnesium as Mg	mg/L	8.0
Calcium as Ca	mg/L	8.4
Tot Dissolved Solids	mg/L	120
Nitrate as N	mg/L	0.9
Sulfate as SO ₄	mg/L	28
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.0

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	1.9
Bicarb. Alk CaCO ₃	mg/L	25
Cyanide as CN	mg/L	<0.02

CC:

REMARKS: *Analysis performed in the field.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/2

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, M-30-B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	60
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	52
Hardness as CaCO ₃	mg/L	67
Alkalinity tot CaCO ₃	mg/L	10
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.98
Aluminum as Al	mg/L	25
Copper as Cu	mg/L	0.02
Lead as Pb	mg/L	0.027
Manganese as Mn	mg/L	0.97
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	21
Zinc as Zn	mg/L	0.03
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	0.023
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	3.4
Magnesium as Mg	mg/L	8.9
Calcium as Ca	mg/L	12
Tot Dissolved Solids	mg/L	180
Nitrate as N	mg/L	4.6
Sulfate as SO ₄	mg/L	35
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	2.2

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	6.8
Bicarb. Alk CaCO ₃	mg/L	10
Cyanide as CN	mg/L	<0.02

CC:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/4

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, TOTAL
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Leachate sample, LF-1

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	110
Ammonia as N	mg/L	15
Iron as Fe	mg/L	2.4
Hardness as CaCO ₃	mg/L	85
Alkalinity tot CaCO ₃	mg/L	160
Manganese as Mn	mg/L	3.6
Sodium as Na	mg/L	50
Potassium as K	mg/L	26
Calcium as Ca	mg/L	11
Tot Dissolved Solids	mg/L	370
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	60
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	17
Bicarb. Alk CaCO ₃	mg/L	160

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930081/13

01/28/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11903

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water Sample, 58

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.55
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	100
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	58
Magnesium as Mg	mg/L	14
Calcium as Ca	mg/L	12
Barium as Ba	mg/L	0.08

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0630081/E

01/19/93

Geraghty & Miller, Incorporated
115 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED

COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SA

ANALYTICAL PARAMETERS

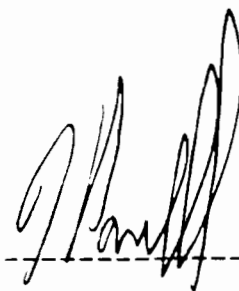
Iron as Fe	mg/L	0.90
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	0.08
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	3.1
Zinc as Zn	mg/L	0.04
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.0
Magnesium as Mg	mg/L	2.6
Calcium as Ca	mg/L	3.6
Barium as Ba	mg/L	<0.05

ANALYTICAL PARAMETERS

RE:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 093008175

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 58

ANALYTICAL PARAMETERS

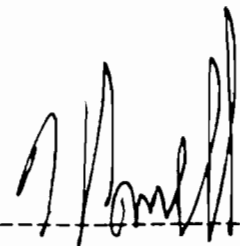
Iron as Fe	mg/L	20
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.40
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	190
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	31
Magnesium as Mg	mg/L	14
Calcium as Ca	mg/L	3.3
Barium as Ba	mg/L	0.06

ANALYTICAL PARAMETERS

NO:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C93208177

01/26/93

Geraghty & Miller, Incorporated
115 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, 50

ANALYTICAL PARAMETERS

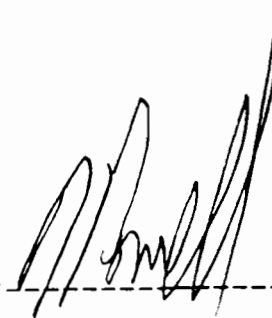
Iron as Fe	mg/L	15
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.14
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	93
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	50
Magnesium as Mg	mg/L	15
Calcium as Ca	mg/L	27
Barium as Ba	mg/L	0.07

ANALYTICAL PARAMETERS

DO:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0930081715

01/28/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, Rep 1 (6C)

ANALYTICAL PARAMETERS

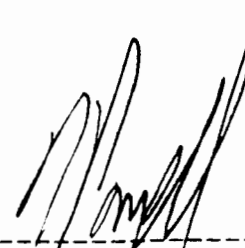
Iron as Fe	mg/L	25
Aluminum as Al	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.24
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	95
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	46
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	27
Barium as Ba	mg/L	0.07

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 090008179

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SE

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	0.55
Aluminum as Al	mg/L	<0.10
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.58
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	19
Zinc as Zn	mg/L	0.05
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	11
Magnesium as Mg	mg/L	15
Calcium as Ca	mg/L	33
Barium as Ba	mg/L	0.15

ANALYTICAL PARAMETERS

DO:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 0330081/11

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02307, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/07/93 RECEIVED: 01/07/93

SAMPLE: Water sample, SF

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.04
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	41
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.2
Magnesium as Mg	mg/L	7.5
Calcium as Ca	mg/L	20
Barium as Ba	mg/L	0.10

ANALYTICAL PARAMETERS

CO:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/9

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 7B

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.15
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	23
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.0
Magnesium as Mg	mg/L	5.5
Calcium as Ca	mg/L	10
Barium as Ba	mg/L	0.09

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/S

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.17
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	9.6
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	3.3
Magnesium as Mg	mg/L	4.5
Calcium as Ca	mg/L	15
Barium as Ba	mg/L	0.08

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/7

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, 8B

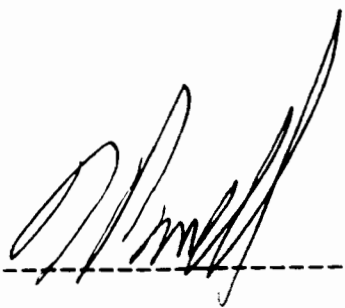
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	0.84
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	1.0
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	30
Zinc as Zn	mg/L	0.06
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	16
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	34
Barium as Ba	mg/L	0.30

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930348/4

02/10/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/26/93 RECEIVED: 01/26/93

SAMPLE: Water sample, 9B

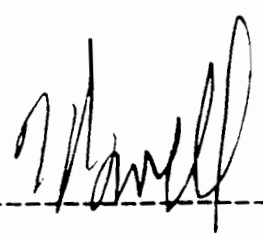
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	0.16
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.004
Manganese as Mn	mg/L	0.33
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	15
Zinc as Zn	mg/L	0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	6.9
Magnesium as Mg	mg/L	7.6
Calcium as Ca	mg/L	12
Barium as Ba	mg/L	0.06

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/7

01/26/93

Seragnty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02907, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 30

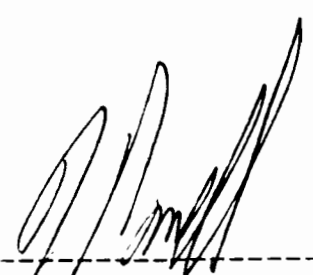
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	0.18
Nickel as Ni	mg/L	<0.12
Sodium as Na	mg/L	150
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	110
Magnesium as Mg	mg/L	19
Calcium as Ca	mg/L	3.1
Barium as Ba	mg/L	0.08

ANALYTICAL PARAMETERS

DO:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. 093009878

01/28/93

Geraghty & Miller, Incorporated
105 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02207, DISSOLVED

COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water Sample, 11A

ANALYTICAL PARAMETERS

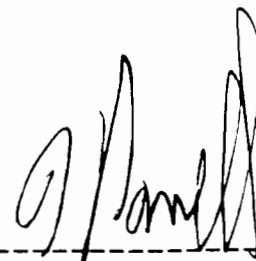
Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	5.1
Zinc as Zn	mg/L	<0.22
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.68
Magnesium as Mg	mg/L	0.94
Calcium as Ca	mg/L	2.1
Barium as Ba	mg/L	<0.05

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. J930098/11

01/26/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED

COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Water sample, 11B

ANALYTICAL PARAMETERS

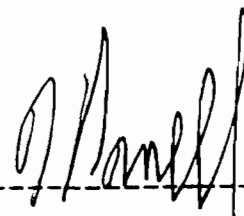
Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.1
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.65
Magnesium as Mg	mg/L	0.65
Calcium as Ca	mg/L	1.7
Barium as Ba	mg/L	<0.05

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/11

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, OBS-1

ANALYTICAL PARAMETERS

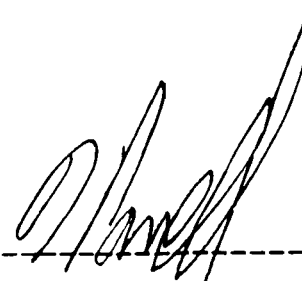
Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.004
Manganese as Mn	mg/L	0.30
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	11
Zinc as Zn	mg/L	0.40
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.3
Magnesium as Mg	mg/L	8.6
Calcium as Ca	mg/L	9.6
Barium as Ba	mg/L	0.06

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930060/3

01/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/06/93 RECEIVED: 01/06/93

SAMPLE: Water sample, M-30-B

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.16
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	24
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.3
Magnesium as Mg	mg/L	11
Calcium as Ca	mg/L	14
Barium as Ba	mg/L	0.15

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C930098/5

01/25/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02807, DISSOLVED
COLLECTED BY: Client DATE COL'D: 01/08/93 RECEIVED: 01/08/93

SAMPLE: Leachate sample, LF-1

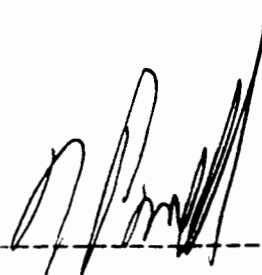
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	1.9
Manganese as Mn	mg/L	3.6
Sodium as Na	mg/L	51
Potassium as K	mg/L	26
Calcium as Ca	mg/L	12

ANALYTICAL PARAMETERS

DO:

REMARKS:

DIRECTOR 

APPENDIX B

Fourth (Operational) Quarter Water Sampling Logs



WATER SAMPLING LOG

Project/No. Old Bethpage Landfill NY02807 Page 1 of 1
 Site Location Bethpage, NY
 Site/Well No. 5B Coded/ Replicate No. _____ Date 1-7-93
 Weather Sunny, 40° Time Sampling Began 3:26p Time Sampling Completed 3:57p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 117.00 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 74.63 Diameter of Casing 4"
 Wet _____ Water Column in Well 42.37 Gallons Pumped/Bailed Prior to Sampling 83 gal.
 on 3:36 Gallons per Foot 0.65
 off 3:47 Gallons in Well 27.54 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method perm. sub pump. Q = 8 gpm T = 11 min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 10° °F/°C Ⓢ
 Other (specific ion: OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 1800 at 6.50

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES			
GAL FT	1-1/4" = 0.08	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 6A

Coded/
Replicate No. _____

Date 1-7-93

Weather Sunny, 40°

Time Sampling
Began 9:00a

Time Sampling
Completed 9:30a

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 105.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 96.55 Diameter of Casing 4"

Wet _____ Water Column in Well 3.45 Gallons Pumped/Bailed
Prior to Sampling 17 gal

Gallons per Foot 0.65

Gallons in Well 5.49 Sampling Pump Intake Setting
(feet below land surface) _____

Evacuation Method perm sub pump, purged water measured with bucket

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 13° °F (°C)

Other (specific ion: OVA; HNU; etc.) _____

Specific Conductance
umhos/cm 60 pH 4.60

Sampling Method and Material pump discharge

Container Description	From Lab <u>X</u> or G&M _____	Preservative
Constituents Sampled		

See C.O.C.

Remarks Recharge Surges

Sampling Personnel BM, GW

WELL CASING VOLUMES

GAL FT	1-1/4" = 0.08	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 613 Code/Replicate No. _____

Date 1-7-93

Weather Sunny, 40° Time Sampling Began 9:40a

Time Sampling Completed 10:10a

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 140.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 96.77 Diameter of Casing 4"

Wet _____ Water Column in Well 43.23 Gallons Pumped/Bailed Prior to Sampling 85 gal.

on 9:45 Gallons per Foot 0.65

off 10:00 Gallons in Well 28.10 Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method perm. sub pump Q = 60gpm T = 15min

SAMPLING DATA/FIELD PARAMETERS

Color Clear Odor slight leachate odor Appearance clear Temperature 13° °F 5°C

Other (specific ion: CVA: HNU: etc.) _____

Specific Conductance _____ umhos/cm 1400 pH 6.40

Sampling Method and Material pump discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, CW

<u>WELL CASING VOLUMES</u>			
GAL. FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02801

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 6C Copy/
Replicate No. Repl.

Date 1-7-93

Weather Sunny, 40° Time Sampling
Began 1:00p

Time Sampling
Completed 1:45p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 160.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 96.24 Diameter of Casing 4"

Wet _____ Water Column in Well 63.76 Gallons Pumped/Bailed
Prior to Sampling 125 gal.

Gallons per Foot 0.65

on 1:14

Gallons in Well 41.44 Sampling Pump Intake Setting
(feet below land surface) _____

off 1:30

Evacuation Method perm. sub. pump Q = 8gpm T = 16min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 13° @ 10C

Other (specification: OVA: HNU: etc.) _____

Specific Conductance
umhos/cm 900 pH 6.30

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab <u>x</u> or G&M _____	Preservative
<u>see C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, Caw

WELL CASING VOLUMES					
GAL/FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47	

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 6E

Coded/
Replicate No. _____

Date 1-7-93

Weather Sunny, 40°

Time Sampling
Began 10:15a

Time Sampling
Completed 1:10p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 250.00 Water-Level Elevation _____

Hold _____ Depth to Water Below MP 97.12 Diameter of Casing 4"

Wet _____ Water Column in Well 152.88 Gallons Pumped/Bailed
Prior to Sampling 299gal

Gallons per Foot 0.65

Sampling Pump Intake Setting
(feet below land surface) _____

on 10:27

off 12:57

Gallons in Well 99.37

Evacuation Method perm. sub pump Q = 2gpm T = 150 min
(2 hrs, 30 min)

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 12° 97°F

Other (specific ion: CVA: HNU: etc.) _____

Specific Conductance
umhos/cm 390 pH 4.50

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>see C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES					
GAL/FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47	

WATER SAMPLING LOG

Project No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. GF

Code/Replicate No. _____

Date 1-7-93

Weather Sunny, 35°

Time Sampling Began 1:50p

Time Sampling Completed 3:15p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 350.00 Water-Level Elevation _____

Head _____ Depth to Water Below MP 96.34 Diameter of Casing 4"

Wet _____ Water Column in Well 253.66 Gallons Pumped/Bailed Prior to Sampling 495 gal.

on 2:00 Gallons per Foot 0.65

off 3:02 Gallons in Well 164.58 Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method perm. sub pump. Q = 8 T = 62

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAR Temperature 10 °F/°C

Other (specify on: OVA, HNU, etc.) _____

Specific Conductance _____
µmhos/cm 205 pH 4.4

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Tap ☒ or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks On 1-7-92 no VOA trace, returned on 1-8-92 for additional VOA 1-8-92
on: 9:10
off: 10:12

Sampling Personnel BM, GHW

34L FT	1 1/4" = 0.06	1 1/2" = 0.16	3" = 0.37	4" = 0.65
	1 3/4" = 0.09	2" = 0.26	3 1/2" = 0.50	6" = 1.7

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 7B

Code/Replicate No. _____

Date 1-6-93

Weather Sunny, 40°

Time Sampling Began 12:30p

Time Sampling Completed 1:40p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 235.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 88.68 Diameter of Casing 4"

Wet _____ Water Column in Well 146.32 Gallons Pumped/Bailed Prior to Sampling 286 gal.

on 12:39p 12:39p Gallons per Foot 0.65

off 1:15p 1:27p Gallons in Well 95.11 Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method perm. sub. pump $Q = \frac{6 \text{ gpm}}{8 \text{ gpm}}$ $T = \frac{48 \text{ min}}{36 \text{ min}}$

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 10° OF 50

Other (specification: CVA: HNU: etc.) _____

Specific Conductance, umhos/cm 180 pH 4.50

Sampling Method and Material flow cell discharge

Constituents Sampled	Container Description From <u>LC</u> <u>X</u> or G&M _____	Preservative
<u>see C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

ELL CASING VOLUMES			
GAL FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			5" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. EA

Coded/
Replicate No. _____

Date 1-6-93

Weather Sunny, 40°

Time Sampling
Began 10:45a

Time Sampling
Completed 11:10a

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 90.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 70.04 Diameter of Casing 4"

Wet _____ Water Column in Well 19.96 Gallons Pumped/Bailed
Prior to Sampling 39 gal.

on 10:51 Gallons per Foot 0.65

on 10:58 Gallons in Well 12.97 Sampling Pump Intake Setting
(feet below land surface) _____

Evacuation Method perm. sub. pump Q = 6 gpm T = 7 min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature _____ °F/°C

Other (specification: CVA; HNU; etc.) _____

Specific Conductance
umhos/cm 150 pH 4.50

Sampling Method and Material flow cell discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel GW, BM

WELL CASING VOLUMES					
GAL FT	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47	

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. EB

Coded/
Replicate No. _____

Date 1-6-93

Weather Sunny, 40°

Time Sampling
Began 11:15a

Time Sampling
Completed 12:30p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 160.00 Water-Level Elevation _____

Heid _____ Depth to Water Below MP 69.19 Diameter of Casing 4"

Wet _____ Water Column in Well 90.81 Gallons Pumped/Bailed
Prior to Sampling 178 gal.

on, 11:23a off, 11:27a Gallons per Foot 0.65

on, 11:27a off, 12:16 Gallons in Well 59.03

Sampling Pump Intake Setting
(feet below land surface) _____

$Q_1 = 8 \text{ gpm}$ $T_1 = 4 \text{ min}$
 $Q_2 = 3 \text{ gpm}$ $T_2 = 49 \text{ min}$

Evacuation Method perm. sub pump.

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 13° of 100

Other (specification: OVA; HNU; etc.) _____

Specific Conductance
umhos/cm 240 pH 4.20

Sampling Method and Material flow cell discharge

Constituents Sampled

Container Description
From Lab X or G&M _____

Preservative

See C.O.C.

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES					
3/4" = 0.08	2" = 0.16	3" = 0.37	4" = 0.65		
1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47		

WATER SAMPLING LOG

Project/No. Old Bethpage landfill, NY 02207 Page 1 of 1
 Site Location Bethpage, NY
 Site/Well No. 9B Code/Replicate No. _____ Date 1-26-93
 Weather Sunny, 30° Time Sampling Began 11:55a Time Sampling Completed 1:00p

EVACUATION DATA

Description of Measuring Point (MP) _____
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 168.00 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 92.89 Diameter of Casing _____
 Wet _____ Water Column in Well 75.11 Gallons Pumped/Bailed Prior to Sampling 147 gal.
 on 12:07 Gallons per Foot 0.65
 off 12:44 Gallons in Well 48.82 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method 2" ~~perm.~~ sub. pump. Q = 4gpm T = 37

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 13° °F 50
 Other (specific ion: CVA, HNU, etc.) _____

Specific Conductance, umhos/cm 180 pH 5.00

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab ☒ or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks Field Blank (FB36) taken after this well. perm. pump removed for maint.

Sampling Personnel BM, GW

WELL CASING VOLUMES					
3/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65		
1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47		

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02007

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 9C

Coded/
Replicate No. _____

Date 1-8-93

Weather rain, 40°

Time Sampling
Began 12:15p

Time Sampling
Completed 1:15p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 225.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 93.89 Diameter of Casing 4"

Wet _____ Water Column in Well 131.11 Gallons Pumped/Bailed
Prior to Sampling 256 gal

on 12:28 Gallons per Foot 0.65

off 1:00 Gallons in Well 85.22

Sampling Pump Intake Setting
(feet below land surface) _____

Evacuation Method perm. sub. pump Q = 8gpm T = 32min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 12° °F 50

Other (specific ion: CVA; HNU; etc.) _____

Specific Conductance, umhos/cm 1900 pH 6.20

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>see C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES			
3-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	5" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage landfill, NY 02807 Page 1 of 1
 Site Location Bethpage, NY
 Site/Well No. 11A Coded/ Replicate No. _____ Date 1-8-93
 Weather Overcast, 40's Time Sampling Began 1:45 p Time Sampling Completed 2:35 p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 140.00 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 23.18 Diameter of Casing 4"
 Wet _____ Water Column in Well 116.82 Gallons Pumped/Bailed Prior to Sampling 228 gal.
 on 1:58 Gallons per Foot 0.65 Sampling Pump Intake Setting (feet below land surface) _____
 off 2:27 Gallons in Well 75.93
 Evacuation Method perm. sub. pump Q = 8 gpm T = 29 min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 13° °F/°C Ⓢ
 Other (specific ion; CVA; HNU; etc.) _____

Specific Conductance, umhos/cm 40 pH 5.00

Sampling Method and Material flow-cell discharge

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, CW

WELL CASING VOLUMES			
3" =	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. 11B

Code/Replicate No. _____

Date 1-8-93

Weather overcast, 40°

Time Sampling Began 2:35p

Time Sampling Completed 3:40p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 235.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 23.04 Diameter of Casing 4"

Wet _____ Water Column in Well 211.96 Gallons Pumped/Bailed Prior to Sampling 414 gal.

Gallons per Foot 0.65

on 2:40

off 3:32

Gallons in Well 137.77

Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method perm. sub pump Q = 8gpm T = 52min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 12° °F (°C)

Other (specific ion: C/A; HNU; etc.) _____

Specific Conductance 40 umhos/cm pH 5.00

Sampling Method and Material _____

Constituents Sampled	Container Description From Lab ☒ or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES

1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. LF-1

Code/Replicate No. _____

Date 1-8-93

Weather overcast, 40°

Time Sampling Began 10:30a

Time Sampling Completed 11:40a

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 107.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 45.74 Diameter of Casing 6"

Wet _____ Water Column in Well 61.26 Gallons Pumped/Bailed Prior to Sampling 271 gal.

on 10:42 Gallons per Foot 1.47

off 11:21 Gallons in Well 90.05 Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method perm. sub pump. Q = 8 gpm T = 39 min

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor SLIGHT LEAKYATE Appearance CLEAR Temperature 18.5 °C

Other (specific ion: OVA: HNU: etc.) _____

Specific Conductance umhos/cm 675 pH 5.7

Sampling Method and Material SAMPLED OF PUMPING ~~THE~~ WHITE POLY TUBING

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel B.M. G.W.

WELL CASING VOLUMES			
GAL FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. OBS-1

Code/Replicate No. _____

Date 1-6-93

Weather Sunny, 40°

Time Sampling Began 1:45 p

Time Sampling Completed 3:00 p

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 195.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 49.50 Diameter of Casing 4"

Wet _____ Water Column in Well 145.50 Gallons Pumped/Bailed Prior to Sampling 284 gal.

on 1:58 p Gallons per Foot 0.65

off 2:46 p Gallons in Well 94.58 Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method Sub. pump Q = 6gpm T = 48min

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 11° °F (°C)

Other (specific ion: CVA: HNU: etc.) _____

Specific Conductance, umhos/cm 140 pH 5.00

Sampling Method and Material teflon bailer

Constituents Sampled	Container Description From <u>Lab</u> <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES			
GALL/FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

WATER SAMPLING LOG

Project/No. Old Bethpage Landfill, NY 02807

Page 1 of 1

Site Location Bethpage, NY

Site/Well No. M-308

Coded/
Replicate No. _____

Date 1-6-93

Weather overcast, 40°

Time Sampling
Began 9:10a

Time Sampling
Completed 9:30a

EVACUATION DATA

Description of Measuring Point (MP) T.O.C.

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 96.49 Water-Level Elevation _____

Held _____ Depth to Water Below MP 85.86 Diameter of Casing 2"

Wet _____ Water Column in Well 10.63 Gallons Pumped/Bailed
Prior to Sampling 6 gal

on 9:20 Gallons per Foot 0.16

off 9:23 Gallons in Well 1.70 Sampling Pump Intake Setting
(feet below land surface) _____

Evacuation Method 2" sub. pump Q = 2 gpm T = 3 min

SAMPLING DATA/FIELD PARAMETERS

Color brown Odor none Appearance highly turbid Temperature 13° °F/°C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance
umhos/cm 240 pH _____

Sampling Method and Material teflon bailer

Constituents Sampled	Container Description From Lab <u>X</u> or G&M _____	Preservative
<u>See C.O.C.</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel BM, GW

WELL CASING VOLUMES			
GAL/FT	1-1/4" = 0.06	2" = 0.16	3" = 0.37
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			4" = 0.65
			6" = 1.47

APPENDIX C

Ground-Water Sampling Protocols



July 10, 1991

Mr. Joe Schechter
Lockwood, Kessler & Bartlett, Inc.
One Aerial Way
Syosset, New York 11791

Re: First Round Ground-Water Monitoring at Old Bethpage Solid Waste Disposal
Complex; Project No. NY02807

Dear Mr. Schechter:

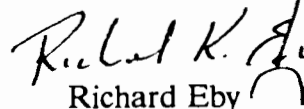
We are writing to apprise LKB that Geraghty & Miller will be collecting first round ground-water samples at Old Bethpage Landfill on the week of July 29, 1991. Sampling will be conducted in accordance with the requirements described in the Remedial Action Plan (RAP). As stipulated in the RAP, the first round of samples are to be collected prior to the commencement of pumping of the recovery system. Because the exact start-up date for testing the treatment facility has not been set, we have scheduled the sampling as soon as possible in order that this work can be completed prior to activation of the recovery system.

Attached is a copy of the "Protocols for Sampling Ground-Water at Old Bethpage Solid Waste Disposal Complex." These protocols will be followed for the collection of the first round samples and also for subsequent quarterly sampling rounds. In compliance with the Town of Oyster Bay's request that all project correspondences be handled by LKB, we respectfully request that LKB forward the attached sampling protocols and provide notification of our intent to sample (at least 1 week prior) to the appropriate regulatory agency.

If you have any questions or require additional information, please call.

Sincerely,

GERAGHTY & MILLER, INC.



Richard Eby
Project Scientist
(516) 391-5241



Carlo SanGiovanni
Senior Hydrogeologist/Project Manager
(516) 391-5259



RE/CS:mb
Attachment

cc: John Lekstutis
Ralph Cuomo

reschec.let

**PROTOCOLS FOR SAMPLING GROUND WATER UNDER THE
OLD BETHPAGE SOLID WASTE DISPOSAL COMPLEX
REMEDIAL ACTION PLAN**

Equipment:

Generator	Distilled Water
Extension Cord	Polyethylene Tubing
Water Level Meter (M-Scope) or Steel Tape and Chalk	Rags
Sample/Discharge Fitting	MICRO™ Laboratory Cleaner
Beakers	Sample Containers (including duplicate, field and trip blanks)
Graduated Bucket	Plastic Sheeting
Gloves (Latex, Nitrile, or equivalent)	Flow-through Cell
Nylon or Polypropylene Cord	pH Meter & Buffers (4 & 7)
Cooler with Ice	Conductivity Meter
Teflon Tape	Thermometer
	Scrub Brush
	PVC Bailer
	Grundfos™ Stainless Steel Submersible pump

Procedure: Wells equipped with permanent submersible pumps.

1. Unlock the well and measure the depth to water to the hundredth of a foot with a water-level meter (m-scope) or steel tape and chalk. Record this measurement on the Water Sampling Log, and calculate the amount of water standing in the well.
2. Lay plastic sheeting down around well. Clean the sample/discharge fitting and the flow-through cell in 2% MICRO™ solution, and rinse with distilled water.
3. Connect the sample/discharge fitting to the flow-through cell. Connect this assemblage to the riser pipe. Use Teflon tape where needed. Start generator and plug extension cord in; connect extension cord to the pump power cable. Record the time pumping began on the Water Sampling Log.
4. Close the valve on the fitting to the flow-through cell. Using the other valve, adjust the pumping rate so that it does not continuously draw down to the pump intake (consult sampling logs from previous sampling rounds for pumping rates). Periodically measure the flow rate using a graduated bucket. Record pumping rate on the Water Sampling Log.

5. Pump three times the amount of standing water from the well. If necessary, evacuate Well No. 8B by pumping dry three times, allowing time for recovery between each pumping. Water pumped from Well No. 6B is to be discharged away from the well to prevent possible contamination of the less contaminated water table zone tapped by Well No. 6A. A minimum of 100 feet of polyethelene tubing will be used to direct discharge away from the well cluster. Note: the flow-through cell is not used to sample Well No. 6B. Label and tape the sample containers.
6. When the well is nearly ready for sampling, put on protective gloves and open the valve to the flow-through cell. Insert thermometer, pH 4 and 7 buffers, and the conductivity electrode into the flow-through cell and allow a few minutes for thermal equilibration. Read and record temperature; set pH temperature knob to the measured temperature and calibrate both pH and conductivity meters with buffers. Remove vials containing buffers and insert pH electrode into the flow-through cell. Record pH, temperature, and conductivity on Water Sampling Log.
7. Adjust valve so that flow from the sample discharge (polyethylene tubing) is a trickle. Fill VOC vials, making sure that there are no trapped air bubbles, and place in a cooler with ice.
8. Fill remaining containers and place in a cooler with ice. Note: do not rinse bottles with sample water before filling, as some bottles contain preservative.
9. Complete Water Sampling Log and Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler.
10. Remove sample/discharge fitting and flow-through cell, replace all plugs, and lock the well. Discard plastic sheeting and gloves. Deliver samples to laboratory as soon as possible. Obtain signature from receiver at laboratory on Chain-of-Custody Form.

Procedure: Wells not equipped with a permanent submersible pump.

1. Wells which are not equipped with permanent submersible pumps will be evacuated with a submersible pump or PVC bailer, and sampled with a PVC bailer.
2. Open the Well and clean off any surficial dirt from protective casing. Remove well cap.
3. Measure the depth to water to the hundredth of a foot with a water level recorder (m-scope) or steel tape and chalk. Record this measurement on the Water Sampling Log, and calculate the amount of water standing in the well.
4. Lay plastic sheeting down around well. Label and tape the sample containers.

5. Disassemble the bailer, if appropriate, and immerse the bailer and/or submersible pump in a 2% solution of MICRO™, or pour the solution in and over the bailer/pump. Scrub the bailer/pump with a brush to remove surficial contaminants. Rinse the bailer/pump with copious amounts of distilled water. Wear clean gloves when handling a clean bailer/pump.
6. Reassemble the bailer and place on the plastic sheeting. Attached an appropriate length of nylon or polypropylene cord to the bailer using a secure knot. Tie loose end of cord to well casing. Attach the appropriate lengths of nylon or polypropylene cord and polyethylene tubing to the submersible pump. New cord and tubing will be used at each well.
7. If a bailer is being used to evacuate the well, lower the bailer into the well and into the water column gradually, to minimize turbulence. Allow the bailer to sink and become fully submerged. Recover the bailer from the well and empty into the graduated bucket. If the submersible pump is being used to evacuate the well, lower the pump below the water table, secure the safety line, and plug into generator.
8. Bail/pump three times the amount of standing water from the well, or bail/pump well dry and allow to recover. Bailer cord can be held in hand or laid on plastic sheeting while bailing. Following evacuation, pull pump out of well slowly while pump is still operating. This will ensure that any water remaining above the pump has been evacuated from the well.
9. All samples for wells without dedicated pumps will be collected with a PVC bailer. Slowly lower clean bailer into well to minimize turbulence. Fill the 40-ml vials for VOCs analysis insuring that there are no air bubbles. Place vials in cooler with ice.
10. Fill remaining sample containers and place in cooler with ice. Note: do not rinse containers with sample, as some containers contain preservatives.
11. Lock well. Discard cord, tubing, gloves, and sheeting.
12. Fill out remaining data on Water Sampling Log and complete Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler. Deliver samples to the lab as soon as possible and obtain receiver's signature on Chain-of-Custody Form.

Procedure: (Field Blank and Trip Blank)

1. Label and tape one of the 40-ml vials filled with lab water as "Trip Blank", and store unopened in a cooler on ice. One trip blank will accompany each day's samples.

2. Label and tape one of the empty 40-ml vials as "Field Blank" and store it and the remaining two 40-ml vials filled with lab water, unopened with the other empty sample containers.
3. On the last day of sampling, two Field Blanks will be collected by running the two vials of lab water through (1) the sample/discharge fitting and (2) the bailer used in the sampling round (the fitting and bailer will be decontaminated prior to sample collection following the identical procedure used between sampling different wells). Make sure that there are no trapped air bubbles in the sample vial. Place blank in cooler with ice.
4. Complete Water Sampling Log and Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler.
5. Deliver samples to laboratory as soon as possible. Obtain signature from receiver at laboratory on Chain-of-Custody Form.

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