

**DRINKING WATER SURVEILLANCE PROGRAM**

**DELHI  
WATER SUPPLY  
SYSTEM**

**REPORT FOR 1991 AND 1992**



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**DELHI WATER SUPPLY SYSTEM  
DRINKING WATER SURVEILLANCE PROGRAM  
REPORT FOR 1991 AND 1992**

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## EXECUTIVE SUMMARY

### DRINKING WATER SURVEILLANCE PROGRAM

#### DELHI WATER SUPPLY SYSTEM 1991 AND 1992 REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to include all municipal supplies in Ontario. In 1991, 96 supplies and in 1992, 109 supplies were being monitored.

The Delhi water supply system includes two raw water sources. A spring supply and a conventional water treatment plant which treats water from the North Creek/Lehman Dam. The plant uses a conventional treatment process consisting of coagulation, flocculation, sedimentation, filtration with pressure filters, fluoridation and disinfection. This plant has a rated capacity of  $4.54 \times 1000 \text{ m}^3/\text{day}$ . The spring source is an artesian spring which feeds a pond and flows into two open air concrete settling tanks. The water is disinfected, fluoridated and is pumped directly into the distribution system. The Delhi spring facility supplies about 25% of the total demand of the system and has a maximum pumping capacity of  $0.84 \times 1000 \text{ m}^3/\text{day}$ . Treated water from the two sources mix in the distribution. The Delhi water supply system serves a population of approximately 4,100.

Water at the plant, the spring and two locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons and volatiles) and radiological (radionuclides). Most laboratory analyses were conducted at the Ministry of the Environment and Energy facilities in Rexdale, Ontario. Radionuclides were analyzed by the Ministry of Labour.

Table A is a summary of all results by group.

No known health related guidelines were exceeded.

The Delhi water treatment plant and spring supply, for the sample years 1991 and 1992, produced acceptable quality water and this was maintained in the distribution system.

As of July 1993, use of the spring supply was discontinued (due to trichloroethylene contamination) as recommended by the Medical Officer of Health for the area.

TABLE A  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI SUPPLY SYSTEM

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE  
A ' . ' INDICATES THAT NO SAMPLE WAS TAKEN

SCAN	TREATMENT PLANT RAW		SPRING RAW		TREATMENT PLANT TREATED		SPRING TREATED					
	TESTS	POSITIVE %POSITIVE	TESTS	POSITIVE %POSITIVE	TESTS	POSITIVE %POSITIVE	TESTS	POSITIVE %POSITIVE				
BACTERIOLOGICAL	35	32	91	30	19	63	12	9	75	10	7	70
CHEMISTRY (FIELD)	34	31	91	28	28	100	96	96	100	78	76	97
CHEMISTRY (LABORATORY)	402	376	93	356	293	82	386	309	80	360	272	75
METALS	408	174	42	360	103	28	408	170	41	360	107	29
CHLORODROMATICS	168	0	0	147	0	0	168	0	0	147	0	0
CHLOROPHENOLS	12	0	0	12	0	0	6	0	0	12	0	0
PESTICIDES AND PCB	405	0	0	365	0	0	418	4	0	378	0	0
PHENOLICS	17	4	23	15	0	0	16	0	0	15	0	0
POLYAROMATIC HYDROCARBONS	116	0	0	99	0	0	116	0	0	99	0	0
SPECIFIC PESTICIDES	57	0	0	58	0	0	51	0	0	58	0	0
VOLATILES	503	0	0	472	30	6	441	47	10	472	88	18
RADIONUCLIDES	28	5	17	28	6	21	28	6	21	21	3	14
TOTAL	2,185	622	1,970	479	2,146	641	2,010	553				



TABLE A  
 DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI SUPPLY SYSTEM

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE  
 A '1' INDICATES THAT NO SAMPLE WAS TAKEN

SCAN	DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST			
	TESTS POSITIVE	% POSITIVE	TESTS POSITIVE	% POSITIVE		
BACTERIOLOGICAL	11	6	54	13	10	76
CHEMISTRY (FIELD)	138	121	87	149	131	87
CHEMISTRY (LABORATORY)	588	515	87	630	553	87
METALS	644	266	41	690	296	42
CHLORODROMATICS	126	0	0	147	0	0
PESTICIDES AND PCB	199	0	0	235	0	0
POLYAROMATIC HYDROCARBONS	99	0	0	116	0	0
SPECIFIC PESTICIDES	3	0	0	4	0	0
VOLATILES	412	60	14	441	65	14
TOTAL	2,220	968		2,425	1,055	



## DRINKING WATER SURVEILLANCE PROGRAM

### DELHI WATER SUPPLY SYSTEM 1991 AND 1992 REPORT

#### INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to include all municipal supplies in Ontario. In 1991, 96 supplies and in 1992, 109 supplies were being monitored.

Appendix A has a full description of the DWSP.

The DWSP was initiated for the Delhi water plant in February of 1990. A previous DWSP annual report was published for 1990.

#### PLANT DESCRIPTION

The Delhi water supply system includes two raw water sources. A spring supply and a conventional water treatment plant which treats water from the North Creek/Lehman Dam. The plant uses a conventional treatment process consisting of coagulation, flocculation, sedimentation, filtration with pressure filters, fluoridation and disinfection. This plant has a rated capacity of  $4.54 \times 1000 \text{ m}^3/\text{day}$ . The spring source is an artesian spring which feeds a pond and flows into two open air concrete settling tanks. The water is disinfected, fluoridated and is pumped directly into the distribution system. The Delhi spring facility supplies about 25% of the total demand of the system and has a maximum pumping capacity of  $0.84 \times 1000 \text{ m}^3/\text{day}$ . Treated water from the two sources mix in the distribution. The Delhi water supply system serves a population of approximately 4,100.

No sample day flows were reported for this sampling period.

General plant information is presented in Table 1 and a schematic of plant processes, chemical addition points and sampling locations in Figure 1.

## SAMPLING AND ANALYSES

Stringent DWSP sampling protocols were followed to ensure that all samples were collected in a uniform manner (see Appendix B).

Sample lines in the plant and at the spring were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

Attempts were made to capture the same block of water at each sampling point in the plant by taking the retention time into consideration. Retention time was calculated by dividing the volume of water between two sampling points by sample day flow. For example, if it was determined that retention time within the plant was five hours, then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

To obtain a representative raw water sample, free from any added chemicals, at plants which used chlorine for zebra mussel control, the operator was required to turn off the chlorine feed to the mouth of the intake and allow enough time for the chlorinated water to clear from the intake works.

Plant operating personnel routinely analyzed parameters for process control (Table 2).

At all distribution system locations, two types of samples were obtained, a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples were used to make an assessment of the change in the levels of inorganic compounds and metals due to leaching from, or deposition on, the plumbing system. The only analyses carried out on the standing samples, therefore, were laboratory chemistry and metals. The free flow sample represented fresh water from the distribution system main, since the sample tap was flushed for five minutes prior to sampling.

Water at the plant, the spring and two locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons and volatiles) and radiological (radionuclides). Most laboratory analyses were conducted at the Ministry of the Environment and Energy facilities in Rexdale, Ontario. Radionuclides were analyzed by the Ministry of Labour.

## RESULTS

Field measurements were recorded on the day of sampling and were entered onto the DWSP database as submitted by plant personnel.

Table 3 contains information on delay time between the raw and treated water sampling, flow rate, and treatment chemical dosages.

Table 4 is a summary of all results by parameter and by water type. If a parameter was not detected, the total number of negative sample results is given. In contrast, if a parameter was detected at any location, the detailed results for all samples are provided.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment and Energy laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on Tables 4 and 5. Parameters are listed alphabetically within each scan.

## DISCUSSION

### GENERAL

Water quality was judged by comparison with the Ontario Drinking Water Objectives publication (ODWOs). When an Ontario Drinking Water Objective (ODWO) was not available, guidelines/limits from other agencies were used. These guidelines were obtained from the Parameter Listing System database.

The guidelines are evaluated on the results from the free flowing samples. Standing samples in the distribution system can show elevated concentrations in certain metals if the water is corrosive or if the standing time is excessive. Flushing the tap until the water achieves the coolest temperature will ensure that the water used for consumption will contain minimum concentrations of metals.

**IN REPORTS FOR MIXED SUPPLIES WITH BOTH GROUND WATER AND SURFACE WATER SOURCES WHERE:**

- SURFACE WATER RECEIVES FULL TREATMENT;
- TREATMENT OF GROUND WATER CAN BE LIMITED TO DISINFECTION;
- WELLS CAN FEED INTO THE DISTRIBUTION SYSTEM INDEPENDENTLY;  
AND

- TREATED SAMPLES FOR GROUND WATER SOURCES, WHEN AVAILABLE, ARE TAKEN FROM RESERVOIRS;

**THIS SECTION WILL DISCUSS:**

- RESULTS FROM TREATED AND DISTRIBUTED WATERS;
- RESULTS FROM RAW GROUND WATER SOURCES THAT FEED DIRECTLY INTO THE DISTRIBUTION SYSTEM;
- THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES; AND
- POSITIVE ORGANIC PARAMETERS DETECTED.

In this report comments are combined for all sample locations for each parameter discussed. The water in the distribution system is a mixture from two sources.

### BACTERIOLOGICAL

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality. Routine monitoring programs usually require that multiple samples be collected in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples. Standard plate count was the only bacteriological analysis conducted on the treated and distributed water.

Standard plate count is a test used to supplement routine analysis for coliform bacteria. The limit for standard plate count (at 35°C after 48 hours) in the ODWOS is 500 counts/mL (based on a geometric mean of 5 or more samples). DWSP bacteriological analysis of treated and distributed water was limited to standard plate count.

Standard plate count (membrane filtration) exceeded the ODWO Aesthetic Objective of 500 counts/mL in 20 of 46 treated and distributed water samples with a maximum reported value of >2,400 counts/mL.

### INORGANIC & PHYSICAL

#### CHEMISTRY (FIELD)

It is desirable that the temperature of drinking water be less than 15°C. The palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of delivered water may increase in the distribution system due to the warming effect of soil in late summer and fall and/or as a result of higher temperatures in the source water.

Field temperature exceeded the ODWO Aesthetic Objective of 15°C in 6 of 58 treated and distributed water samples with a maximum reported value of 18.0°C.

## CHEMISTRY (LABORATORY)

Colour in drinking water may be due to the presence of natural or synthetic substances as well as certain metallic ions. Colour is measured in Hazen units (HZU).

Colour exceeded the ODWO Aesthetic Objective of 5 HZU in 7 of 60 treated and distributed water samples with a maximum reported value of 9.0 HZU.

Elevated conductivity is often associated with high hardness levels.

Conductivity exceeded the European Economic Community Aesthetic Guideline Level of 400 umho/cm in all 60 treated and distributed water samples with a maximum reported value of 712 umho/cm.

Where fluoridation is practiced the recommended concentration is 1.2 mg/L and deviation from this optimum should not exceed + or - 0.2 mg/L. In the summer of 1992 the ODWO Maximum Acceptable Concentration for fluoride was lowered from 2.4 mg/L to 1.5 mg/L. Naturally occurring fluoride should not exceed 2.4 mg/L. The Medical Officer of Health should be notified of any exceedances.

Prior to 1992, fluoride exceeded the ODWO Operational Guideline of 1.4 mg/L in 3 of 60 treated and distributed water samples with a maximum reported value of 1.52 mg/L.

The ODWOS indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and encrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and possess a tendency to form scale deposits and result in excessive soap consumption.

Hardness exceeded the ODWO Recommended Operational Guideline of 80-100 mg/L with values greater than 200 mg/L in all 60 treated and distributed water samples with a maximum reported value of 420 mg/L.

Turbidity in water is caused by the presence of suspended matter such as clay, silt, colloidal particles, plankton and other microscopic organisms. The most important potential health effect of turbidity is its interference with disinfection in the treatment plant and the maintenance of a chlorine residual. The ODWO Maximum Acceptable Concentration for turbidity is 1.0 Formazin Turbidity Unit (FTU) and applies to the water leaving the treatment facility.

Turbidity exceeded the ODWO Maximum Acceptable Concentration of 1.0 FTU in 5 of 16 plant treated water samples with a maximum reported value of 2.4 FTU. The results were not confirmed by the corresponding and more reliable field turbidity results.

## METALS

At present, there is no evidence that aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of aluminum in treated water is important to measure the efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 100 ug/L as aluminum in the water leaving the plant to avoid problems in the distribution system.

Aluminum exceeded the ODWO Recommended Operational Guideline of 100 ug/L in 16 of 17 plant treated water samples and 6 of 29 distributed water samples with a maximum reported value of 620 ug/L.

## ORGANIC

### CHLOROAROMATICS

The results of the chloroaromatic scan showed that none were detected.

### CHLOROPHENOLS

The results of the chlorophenol scan showed that none were detected.

### PESTICIDES AND PCB

Hexachlorocyclopentadiene was found at a positive level in 4 of 31 treated and distributed water samples analyzed. The maximum observed level was 200 ng/L. This was below the United States Environmental Protection Agency Ambient Water Quality Criteria of 206,000 ng/L.

### PHENOLICS

The results of the phenolic test showed that none were detected above trace levels.

### POLYAROMATIC HYDROCARBONS

The results of the polyaromatic hydrocarbon scan showed that none were detected.

### SPECIFIC PESTICIDES

The results of the specific pesticide scan showed that none were detected.



## VOLATILES

The detection of benzene, ethylbenzene, toluene and xylenes at low, trace levels may be a laboratory artifact derived from the analytical methodology. Trace levels of styrene are considered to be laboratory artifacts resulting from the sample shipping containers.

1,1,1-Trichloroethane was found at positive levels in 12 spring treated water samples and 13 of 29 distributed water samples analyzed. The maximum observed level was 0.8 ug/L. This was below the United States Environmental Protection Agency Maximum Contaminant Level of 200 ug/L.

Trichloroethylene was found at positive levels in all 16 spring treated water samples and 21 of 29 distributed water samples analyzed. The maximum observed level was 33.5 ug/L. This was below the ODWO Maximum Acceptable Concentration of 50 ug/L.

Tetrachloroethylene was detected at trace levels in all 16 spring treated water samples and at trace levels in many distribution samples. The ODWO Maximum Acceptable Concentration is 65 ug/L.

Trihalomethanes (THMs) are produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of chloroform, chlorodibromomethane and dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. Only total THM results are discussed. Starting in 1991, samples from the distribution system were quenched with sodium thiosulphate to stop the further production of THMs in the sample bottle. This provided a more representative estimation of the THMs consumed in tap water.

Total trihalomethanes were found at positive levels in 49 of 60 treated plant, spring and distributed water samples analyzed. The maximum observed level was 141.6 ug/L. This was below the ODWO Maximum Acceptable Concentration of 350 ug/L.

## RADIOLOGICAL

### RADIONUCLIDES

There are more than 200 radionuclides, some of which occur naturally and others which originate from the activities of society. The radionuclides currently of greater interest from a health view-point are tritium, strontium-90, iodine-131, cesium-137 and radium-226. The gross beta and gross alpha determinations are suitable for preliminary screening except for tritium which must be measured separately. Radionuclides are measured in becquerels per litre (Bq/L). No results were above the available guidelines.

## CONCLUSIONS

The sample locations in the distribution were influenced to a greater or lesser extent by both sources of supply, probably due to variations in flow patterns.

No known health related guidelines were exceeded.

The Delhi water treatment plant, for the sample years 1991 and 1992, produced acceptable quality water and this was maintained in the distribution system.

As of July 1993, use of the spring supply was discontinued (due to trichloroethylene contamination) as recommended by the Medical Officer of Health for the area.

FIGURE 1

# DELHI WATER TREATMENT PLANT

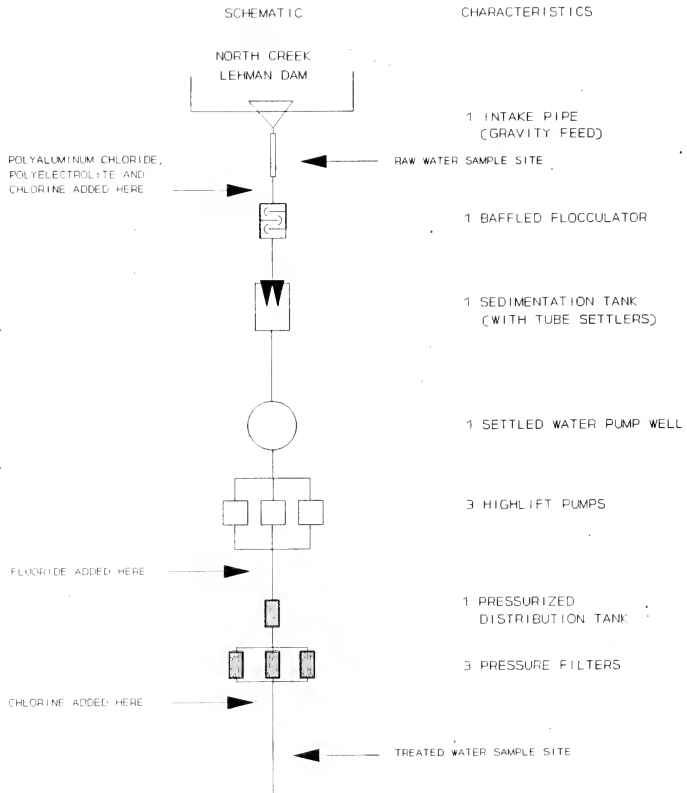


TABLE 1  
DRINKING WATER SURVEILLANCE PROGRAM  
PLANT GENERAL REPORT

PLANT NAME: DELHI WTP AND SPRING SUPPLY  
WORKS #: 220000415  
UTM #: 175398704744300

DISTRICT: SIMCOE  
REGION: WEST CENTRAL  
DISTRICT OFFICER: J. PERCY

SUPERINTENDENT: JAMES WALKER

ADDRESS: 70 TOWN CENTRE DRIVE  
TOWNSEND, ONTARIO  
NOA 1S0  
519-587-4911

MUNICIPALITY: HALDIMAND-NORFOLK REGION  
AUTHORITY: MUNICIPAL

PLANT INFORMATION

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	PLANT VOLUME:	0.278	(X 1000 M3)
	DESIGN CAPACITY:	5.430	(X 1000 M3/DAY)
	RATED CAPACITY:	4.540	(X 1000 M3/DAY)
MAXIMUM PUMPING CAPACITY OF SPRING SUPPLY:		0.840	(X 1000 M3/DAY)

MUNICIPALITY	POPULATION
-----	-----
DELHI	4,100

TABLE 2  
 DRINKING WATER SURVEILLANCE PROGRAM  
 IN-PLANT MONITORING  
 DELHI WATER TREATMENT PLANT

PARAMETER -----	LOCATION -----	FREQUENCY -----
FREE CHLORINE RESIDUAL	RAW	DAILY
	TREATED	DAILY
	CLEAR WELL	DAILY
TOTAL CHLORINE RESIDUAL	TREATED	DAILY
	CLEAR WELL	DAILY
FLUORIDE	TREATED	DAILY
TURBIDITY	TREATED	CONTINUOUS

DELHI SPRING SUPPLY

PARAMETER -----	LOCATION -----	FREQUENCY -----
FREE CHLORINE RESIDUAL	TREATED	DAILY
FLUORIDE	TREATED	DAILY

TABLE 3  
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP SAMPLE DAY CONDITIONS  
AND TREATMENT CHEMICAL DOSAGES FOR 1991 AND 1992

DATE	DELAY * TIME(HRS) (1000M3)	FLOW	PRE CHLORINATION CHLORINE	COAGULATION POLYALUMINUM CHLORIDE	FLUORIDATION HYDROFLUOSILICIC ACID	POST CHLORINATION CHLORINE
91 JAN 08	.00	.000	4.80	8.93	1.75	.97
91 FEB 05	.00	.000	5.01	9.33	2.76	.93
91 MAR 05	.00	.000	4.92	8.69	2.68	.94
91 APR 03	.00	.000	4.81	12.99	2.70	.96
91 MAY 07	.00	.000	4.73	11.24	2.75	.96
91 JUN 04	.00	.000	4.64	9.29	2.85	.95
91 JUL 03	.00	.000	4.20	11.57	2.57	.75
91 AUG 06	.00	.000	3.17	3.94	1.32	.97
91 SEP 04	.00	.000	5.95	4.76	3.00	1.31
91 OCT 08	.00	.000	5.02	4.79	2.86	.98
91 NOV 05	.00	.000		3.38	.40	
92 JAN 07	.00	.000	4.11	2.87	1.94	.57
92 MAR 03	.00	.000	3.11	6.20	1.07	.86
92 MAY 04	.00	.000	2.75	5.41	1.26	.62
92 JUL 07	.00	.000	2.77	4.81	1.49	.96
92 SEP 08	.00	.000	4.00	6.00	1.00	1.00
92 NOV 03	.00	.000	4.95	4.56	2.80	1.27

\* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

DRINKING WATER SURVEILLANCE PROGRAM DELHI DRPING SUPPLY SAMPLE DAY CONDITIONS  
AND TREATMENT CHEMICAL DOSAGES FOR 1991 AND 1992

DATE	DELAY * TIME(HRS) (1000M3)	FLOW	PRE CHLORINATION CHLORINE	FLUORIDATION HYDROFLUOSILICIC ACID
91 AUG 07	.00	.000	1.87	1.70
92 MAR 02	.00	.000	1.50	1.49
92 MAY 05	.00	.000	1.69	1.13
92 SEP 09	.00	.000	1.00	1.00

KEY TO TABLE 4 and 5

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
  - 1+. MAC for Total Trihalomethanes
  2. Interim Maximum Acceptable Concentration (IMAC)
  3. Aesthetic Objective (AO)
  - 3\*. AO for Total Xylenes
  4. Recommended Operational Guideline
  5. Health Related Guidance Value
- B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
  2. Proposed MAC
  3. Interim MAC
  4. Aesthetic Objective (AO)
- C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
  2. Tentative GV
  3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
  2. Suggested No-Adverse Effect Level (SNAEL)
  3. Lifetime Health Advisory
  4. EPA Ambient Water Quality Criteria
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
  2. Aesthetic Guideline Level
  3. Maximum Admissable Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

LABORATORY RESULTS, REMARK DESCRIPTIONS

. No Sample Taken  
BDL Below Minimum Measurement Amount  
<T Greater Than Detection Limit But Not Confident  
(SEE INTERPRETATION OF RESULTS ABOVE)  
> Results Are Greater Than The Upper Limit  
<=> Approximate Result  
!48 No Data: Sample Age Exceeded 48 Hours  
!AR No Data: No Numeric Results  
!AW No Data: Analysis Withdrawn  
!BT No Data: Sample Broken In Transit  
!CS No Data: Contamination Suspected  
!EF No Data: Laboratory Equipment Failure  
!IR No Data: Insufficient Sample  
!IS No Data: Insufficient Sample  
!LA No Data: Laboratory Accident  
!NP No Data: No Procedure  
!NR No Data: Sample Not Received  
!OP No Data: Obscured Plate  
!PE No Data: Procedure Error: Sample Discarded  
!PR No Data: Preservative Required  
!QU No Data: Quality Control Unacceptable  
!RE No Data: Received Empty  
!RO No Data: No Numeric Results  
!SM No Data: Sample Missing  
!SS No Data: Sample Improperly Preserved  
!U No Data: Sample Unsuitable For Analysis  
!UB No Data: Bottle Broken  
!UN No Data: Result Unreliable



!UR No Data: Unpreserved Sample Required  
A Approximate Value  
A3C Approximate, Total Count Exceeded 300 Colonies  
A> Approximate Value, Exceeded Normal Range  
APS Additional Peak, Less Than, Not Priority Pollutant  
ARO Additional Information In Laboratory Report  
CRO Calculated Result Only  
NAF Not All Required Tests Found  
RID Ioncal Calculated on Incomplete Data Set  
RMP P and M-Xylene Not Separated  
RRR Result Obtained by Repeat Analysis  
RRV Rerun Verification  
SFA Sample Filtered: Filtrate Analyzed  
SIL Sample Incorrectly Labelled  
SPS Several Peaks, Small, Not Priority Pollutant  
U48 Unreliable: Sample Age Exceeded 48 Hours  
UAL Unreliable: Sample Age Exceeded Limit  
UAU Unreliable: Sample Age Unknown  
UCS Unreliable: Contamination Suspected  
WSD Wrong Sample Description On Bottle

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
BACTERIOLOGICAL		DETN LIMIT = 0		GUIDELINE = 0 (A1)							
FECAL COLIFORM MF (CT/100ML)											
1991 JAN	10	3									
1991 FEB	BDL										
1991 MAR	28										
1991 APR	34	0									
1991 MAY	14	0									
1991 JUN	2	6									
1991 JUL	20	20									
1991 AUG	24										
1991 SEP	6	90									
1991 OCT	8	36									
1992 MAR	6										
1992 SEP	10	0									
1992 NOV	15	0									
STANDRO PLATE CNT MF (CT/ML)											
DETN LIMIT = 0											
GUIDELINE = 500 (A3)											
1991 JAN		12		24		2	<=>		19		
1991 FEB		11		5	<=>	0	<=>		6	<=>	
1991 MAR		42		3	<=>	4	<=>		5	<=>	
1991 APR		3	<=>	0	<=>	2400	>		23		
1991 MAY		17		1060		2400	>		30		
1991 JUN		2400	>	2400		1600			420		
1991 JUL		2400	>			225			390		
1991 AUG									2400	>	
1991 SEP		1900		2400		1700			2400	>	
1991 OCT		2400	>	360		9	<=>		1700		
1991 NOV		3	<=>			5	<=>		2400	>	
1992 MAR		2400	>			2400			590	A3C	
1992 JUL						1100	A3C		5	<=>	
1992 SEP		2400	>								
1992 NOV		3	<=>								
TOTAL COLIFORM MF (CT/100ML)											
DETN LIMIT = 0											
GUIDELINE = 5/100ML (A1)											
1991 JAN	5100	100	<=>								
1991 FEB	120	120	<=>								
1991 MAR	3400	200	A3C								
1991 APR	540	47	<=>								
1991 MAY	240	200	<=>								
1991 JUN	100	70	<=>								
1991 JUL	30	30	<=>								
1991 SEP	100	200	A3C								
1991 OCT	130	130	A3C								
1992 MAR	260	50	<=>								
1992 SEP	10P	32	A3C								
1992 NOV	120	120	A3C								

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM		DIST. SYSTEM		DIST. SYSTEM	
				MAIN ST FREE FLOW	MAIN ST STANDING	IMPERIAL ST FREE FLOW	IMPERIAL ST STANDING	IMPERIAL ST STANDING	
BACTERIOLOGICAL									
T COLIFORM BCKGRD MF (CT/100ML )									
DET'N LIMIT = 0									
GUIDELINE = N/A									
1991 JAN	7200								
1991 FEB	6400 A3C								
1991 MAR	17000								
1991 APR	3600								
1991 MAY	5800 A3C								
1991 JUN	90000 A3C								
1991 JUL	24000 >								
1991 SEP	70000 A3C								
1991 OCT	24000 >								
1991 NOV	490								
1992 JAN	9600 >								
1992 FEB	6500 A3C								
1992 MAR									
1992 APR									
1992 MAY									
1992 JUN									
1992 JUL									
1992 AUG									
1992 SEP									
1992 OCT									
1992 NOV									

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING TREATED	TREATMENT PLANT TREATED	SPRING TREATED	DETN LIMIT = 0		GUIDELINE = N/A		DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
				CHEMISTRY (FIELD) FLD CHLORINE (COMB) (MG/L)	CHEMISTRY (FIELD) FLD CHLORINE (COMB) (MG/L)	CHEMISTRY (FIELD) FLD CHLORINE (COMB) (MG/L)	CHEMISTRY (FIELD) FLD CHLORINE (COMB) (MG/L)				
1991 JAN	.000	.600	.100	.000	.000	.000	.000	.900	.000	.000	.000
1991 FEB	.000	.300	.100	.000	.000	.000	.000	.400	.000	.000	.000
1991 MAR	.000	.200	.100	.000	.000	.000	.000	.200	.000	.000	.000
1991 APR	.000	.200	.300	.000	.000	.000	.000	.200	.000	.000	.000
1991 MAY	.000	.200	.200	.000	.000	.000	.000	.000	.000	.000	.000
1991 JUN	.000	.400	.200	.000	.000	.000	.000	.000	.000	.000	.000
1991 JUL	.000	.300	.000	.000	.000	.000	.000	.000	.000	.000	.000
1991 AUG	.000	.300	.400	.000	.000	.000	.000	.200	.000	.000	.000
1991 SEP	.000	.200	.300	.000	.000	.000	.000	.000	.000	.000	.000
1991 OCT	.000	.400	.300	.000	.000	.000	.000	.000	.000	.000	.000
1991 NOV	.000	.300	.000	.000	.000	.000	.000	.000	.000	.000	.000
1992 JAN	.000	.300	.400	.000	.000	.000	.000	.000	.000	.000	.000
1992 MAR	.000	.300	.400	.000	.000	.000	.000	.000	.000	.000	.000
1992 JUL	.000	.300	.200	.000	.000	.000	.000	.000	.000	.000	.000
1992 MAY	.000	.200	.200	.000	.000	.000	.000	.000	.000	.000	.000
1992 JUL	.000	.200	.150	.000	.000	.000	.000	.300	.000	.000	.000
1992 SEP	.000	.100	.200	.000	.000	.000	.000	.100	.000	.000	.000
1992 NOV	.000	.100	.200	.000	.000	.000	.000	1.700	1.700	.000	.000
CHEMISTRY (FIELD) GUIDELINE = N/A											
FLD CHLORINE FREE (MG/L) GUIDELINE = N/A											
1991 JAN	.000	1.100	.900	.000	.000	.000	.000	.900	.000	.000	.100
1991 FEB	.000	1.600	1.100	.000	.000	.000	.000	.500	.000	.000	.100
1991 MAR	.000	.500	.900	.000	.000	.000	.000	1.100	.700	.000	.100
1991 APR	.000	1.700	1.000	.000	.000	.000	.000	.500	.500	.000	.100
1991 MAY	.000	1.500	.700	.000	.000	.000	.000	.700	.500	.000	.100
1991 JUN	.000	1.300	.900	.000	.000	.000	.000	.300	.700	.000	.100
1991 JUL	.000	1.000	1.000	.000	.000	.000	.000	.900	.000	.000	.100
1991 AUG	.000	1.500	1.100	.000	.000	.000	.000	.700	.500	.000	.100
1991 SEP	.000	1.300	1.000	.000	.000	.000	.000	.500	.700	.000	.100
1991 OCT	.000	1.200	1.000	.000	.000	.000	.000	1.100	.300	.000	.100
1991 NOV	.000	1.100	1.300	.000	.000	.000	.000	.300	.300	.000	.100
1992 JAN	.000	1.000	1.500	.000	.000	.000	.000	.300	1.300	.000	.100
1992 MAR	.000	1.600	1.300	.000	.000	.000	.000	.900	.100	.000	.100
1992 MAY	.000	1.000	.800	.000	.000	.000	.000	.100	.100	.000	.100
1992 SEP	.000	1.900	.900	.000	.000	.000	.000	.700	.700	.000	.100
1992 NOV	.000	1.700	.900	.000	.000	.000	.000	.900	.900	.000	.100

TABLE 4.  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

CHEMISTRY (FIELD)		DET'N LIMIT = 0		GUIDELINE = M/A		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
FLO CHLORINE (TOTAL) (MG/L)													
1991 JAN	.000		1.700	1.000	1.000	.700	.500						.100
1991 FEB			1.300	1.300	1.300	1.100	.500			1.100		1.100	.100
1991 MAR			.700	1.000	1.000	.700	1.300			.700		.700	.300
1991 APR			1.900	1.300	1.300	.700	.700			.700		.700	.500
1991 MAY			1.700	1.900	1.900	.300	.300			.900		.900	.100
1991 JUN			1.700	1.100	1.100	1.000	.300			.700		.700	.100
1991 JUL			1.300	1.000	1.000	1.100	.900			.700		.700	.100
1991 AUG			1.800	1.300	1.300	1.100	.500			.900		.900	.100
1991 SEP			1.700	1.300	1.300	1.300	1.100			1.00		1.00	.100
1991 OCT			1.600	1.300	1.300	1.300	1.100			.700		.700	.100
1992 JAN			1.400	1.000	1.000	1.000	.300			1.500		1.500	.300
1992 FEB			1.300	1.300	1.300	1.300	.300						.100
1992 MAR			1.300	1.700	1.700	1.100	1.100						.100
1992 APR			1.200	1.300	1.300	1.100	1.100						.100
1992 JUL			1.200	1.100	1.100	.400	.400						.100
1992 SEP			1.000	.950	.950								.100
1992 NOV			1.800	1.100	1.100								.100
FLO PH (OMNLESS)													
DET'N LIMIT = M/A													
GUIDELINE = 6.5-8.5 (44)													
1991 JAN	7.600	7.400	7.600	7.600	7.600	7.200	7.200	7.200	7.200	7.400	7.400	7.400	7.600
1991 FEB	7.600	7.600	7.000	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
1991 MAR	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1991 APR	7.800	7.500	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1991 MAY	8.000	7.400	7.600	7.400	7.400	8.000	8.400	8.400	8.400	7.400	7.400	7.400	7.800
1991 JUN	7.700	7.600	7.600	7.600	7.600	7.600	7.800	7.800	7.800	7.600	7.600	7.600	7.800
1991 JUL	7.800	7.600	7.800	7.600	7.600	7.600	7.800	7.800	7.800	7.400	7.400	7.400	7.800
1991 AUG	7.800	7.600	7.600	7.400	7.400	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1991 SEP	7.700	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1991 OCT	7.600	7.600	7.500	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1991 NOV													
1992 JAN	7.800	7.400	7.600	7.500	7.500	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1992 FEB	7.500	7.600	7.500	7.600	7.600	7.500	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1992 MAR	7.600	7.400	7.500	7.500	7.500	7.400	7.400	7.400	7.400	7.600	7.600	7.600	7.800
1992 JUL	7.700	7.700	7.700	7.200	7.200	7.600	7.400	7.400	7.400	7.600	7.600	7.600	7.800
1992 SEP	8.000	7.600	7.800	7.500	7.500	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.800
1992 NOV	8.000	7.400	7.900	7.600	7.600	7.800	7.800	7.800	7.800	7.600	7.600	7.600	7.800

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
				FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
CHEMISTRY (FIELD)											
FLD TEMPERATURE (DEG.C )											
DET'N LIMIT = N/A											
GUIDELINE = 15 (A3)											
1991 JAN	3,000	4,000	3,000	6,000	10,000	8,000	17,000	8,000	17,000	17,000	17,000
1991 FEB	8,000	5,000	9,000	4,000	12,000	6,000	17,000	6,000	17,000	17,000	
1991 MAR	4,000	4,000	3,000	6,000	8,000	8,000	17,000	8,000	17,000	17,000	
1991 APR	5,000	7,000	7,000	7,000	12,000	8,000	15,000	8,000	15,000	15,000	
1991 MAY	11,000	10,000	10,000	11,000	16,000	10,000	18,000	10,000	18,000	18,000	
1991 JUN	16,500	16,000	12,000	18,000	18,000	16,000	18,000	13,000	18,000	18,000	
1991 JUL											
1991 AUG	10,500	12,500	11,000	11,000	14,000	14,000	19,000	14,000	19,000	19,000	
1991 SEP	14,000	15,000	12,000	12,000	16,000	17,000	19,000	17,000	19,000	19,000	
1991 OCT	9,500	10,000	10,000	10,000	13,000	18,000	20,000	14,000	20,000	20,000	
1991 NOV											
1992 JAN	2,000	2,000	14,000	5,000	13,000	16,000	20,000	12,000	20,000	20,000	
1992 MAR	1,000	5,000	5,000	5,000	5,000	13,000	18,000	8,000	18,000	18,000	
1992 MAY	6,000	7,000	8,000	8,000	7,000	10,000	16,000	8,000	16,000	16,000	
1992 JUL	10,000	11,000	10,000	10,000	18,000	18,000	16,000	1,000	16,000	16,000	
1992 SEP	12,000	11,000	10,000	10,000	8,000	1,700	20,000	14,000	20,000	20,000	
1992 NOV	3,000	5,000	6,500	6,500	8,000	8,000	16,000	8,000	16,000	16,000	
FLD TURBIDITY (FTU )											
DET'N LIMIT = N/A											
GUIDELINE = 1.0 (A1)											
1991 JAN				7.40							
1991 FEB				3.90							
1991 MAR				2.50							
1991 APR				5.30							
1991 MAY				2.90							
1991 JUN				4.80							
1991 AUG				2.40							
1991 SEP				1.50							
1991 OCT				3.70							
1992 JAN				1.30							
1992 MAR				3.50							
1992 MAY				3.40							
1992 SEP				1.30							
1992 NOV	1.800			2.40							

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

CHEMISTRY (LABORATORY)				DET'N LIMIT = 0.2				GUIDELINE = 30-500 (A4)							
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
1991 JAN	206.600	222.700	198.900	228.200	225.400	224.900	224.800	198.900	222.700	198.900	228.200	225.400	224.900	226.400	224.800
1991 FEB	207.200	156.900	199.800	192.600	228.000	228.000	201.400	199.800	156.900	199.800	192.600	228.000	228.000	204.400	201.400
1991 MAR	197.600	214.100	193.700	221.800	196.000	192.700	221.800	193.700	214.100	193.700	221.800	196.000	192.700	224.100	221.800
1991 APR	204.200	215.600	192.100	222.900	221.300	221.300	223.200	192.100	204.200	192.100	222.900	221.300	221.300	222.200	223.200
1991 MAY	209.500	222.200	193.900	221.000	200.400	198.700	221.800	193.900	209.500	193.900	221.000	200.400	198.700	222.900	221.800
1991 JUN	201.000	223.800	193.700	219.900	191.700	190.500	220.200	193.700	201.000	193.700	219.900	191.700	190.500	220.600	220.200
1991 JUL	189.300	206.800	185.000	219.000	185.700	186.600	220.800	185.000	189.300	185.000	219.000	185.700	186.600	220.100	220.800
1991 AUG	198.400	223.400	194.500	224.100	224.100	188.900	225.100	194.500	198.400	194.500	223.400	224.100	223.500	225.100	225.100
1991 SEP	193.600	227.200	188.100	223.900	220.900	220.900	199.700	188.100	193.600	188.100	223.900	220.900	220.900	196.700	199.700
1991 OCT	192.400	220.100	185.800	209.000	220.900	206.800	186.400	185.800	192.400	185.800	209.000	220.900	220.900	184.700	186.400
1991 NOV	204.900	207.300	199.700	223.200	223.800	201.200	226.500	199.700	204.900	199.700	223.200	223.800	201.200	222.400	226.500
1992 JAN	197.000	223.700	189.000	223.700	206.000	203.000	224.900	189.000	197.000	189.000	223.700	206.000	203.000	222.400	224.900
1992 MAR	204.500	172.300	201.700	218.500	222.600	222.600	219.900	201.700	204.500	201.700	218.500	222.600	222.600	217.700	219.900
1992 MAY	198.700	202.600	190.900	209.300	177.200	177.200	217.900	190.900	198.700	190.900	209.300	177.200	177.200	217.900	217.900
1992 JUL	183.100	202.600	193.900	209.300	207.000	203.200	218.700	193.900	183.100	193.900	209.300	207.000	203.200	222.300	218.700
1992 SEP	196.400	221.000	207.600	220.100	207.000	203.200	219.700	207.600	196.400	207.600	220.100	207.000	203.200	222.300	219.700
1992 NOV	209.000	221.000	207.600	220.100	207.000	203.200	219.700	207.600	209.000	207.600	220.100	207.000	203.200	222.300	219.700

CHEMISTRY (LABORATORY)				DET'N LIMIT = 0.20				GUIDELINE = 100 (F2)							
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
1991 JAN	67.200	95.800	96.200	95.500	96.100	99.800	97.400	96.200	95.800	96.200	95.500	96.100	99.800	95.200	97.400
1991 FEB	64.600	71.800	96.600	85.280	94.700	96.300	86.900	96.600	71.800	96.600	85.280	94.700	96.300	76.800	86.900
1991 MAR	61.800	84.400	90.000	91.200	92.200	90.000	92.200	90.000	84.400	90.000	91.200	92.200	90.000	92.200	92.200
1991 APR	87.600	85.500	89.200	88.000	85.500	87.500	90.400	87.600	85.500	89.200	88.000	85.500	87.500	87.600	90.400
1991 MAY	90.800	89.800	91.200	91.400	92.600	92.600	92.600	91.200	89.800	91.200	91.400	92.600	92.600	92.600	92.600
1991 JUN	84.800	88.500	86.600	88.400	86.200	86.200	94.800	84.800	88.500	86.600	88.400	86.200	86.200	90.800	94.800
1991 JUL	78.800	67.400	80.200	85.600	78.400	77.600	87.200	78.800	67.400	80.200	85.600	78.400	77.600	87.200	94.600
1991 AUG	80.200	88.500	81.000	90.900	93.800	88.800	91.100	81.000	88.500	81.000	90.900	93.800	88.800	91.100	91.100
1991 SEP	79.900	91.800	79.300	94.700	89.800	81.300	83.000	79.900	91.800	79.300	94.700	89.800	81.300	83.000	83.000
1991 OCT	82.100	88.400	80.300	89.800	89.800	80.600	80.600	80.300	88.400	80.300	89.800	89.800	80.600	80.600	80.600
1991 NOV	84.500	81.200	84.900	89.500	86.800	85.300	84.800	84.500	81.200	84.900	89.500	86.800	85.300	85.300	84.800
1992 JAN	85.400	88.000	83.000	91.000	81.500	82.100	93.200	83.000	88.000	83.000	91.000	81.500	82.100	88.600	93.200
1992 JAN	85.400	88.000	83.000	91.000	81.500	82.100	93.200	83.000	88.000	83.000	91.000	81.500	82.100	88.600	93.200
1992 MAR	91.700	81.800	91.800	86.500	93.700	94.600	90.250	91.700	81.800	91.800	86.500	93.700	94.600	86.400	90.250
1992 MAY	89.800	67.850	87.400	86.500	79.800	79.700	91.200	89.800	67.850	87.400	86.500	79.800	79.700	91.200	90.550
1992 JUL	80.500	90.500	84.550	90.650	87.100	86.700	90.550	80.500	90.500	84.550	90.650	87.100	86.700	90.100	90.550
1992 SEP	83.300	83.300	90.800	87.500	87.100	86.700	92.500	83.300	83.300	90.800	87.500	87.100	86.700	90.100	92.500
1992 NOV	91.000	85.300	90.800	87.500	87.100	86.700	92.500	91.000	85.300	90.800	87.500	87.100	86.700	90.100	92.500

CHEMISTRY (LABORATORY)				DET'N LIMIT = 0.001				GUIDELINE = 0.2 (A1)							
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

CHLORIDE (MG/L)	TREATMENT PLANT SPRING		TREATMENT PLANT SPRING		DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
	RAW	TREATED	RAW	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
CHEMISTRY (LABORATORY)												
DETN LIMIT = 0.20 GUIDELINE = 250 (A3)												
1991 JAN	16,500	25,700	53,400	53,400	53,400	52,000	53,300	53,800	53,800	53,300	53,800	53,800
1991 FEB	16,700	26,000	56,500	56,500	56,500	55,400	22,800	28,100	28,100	22,800	28,100	28,100
1991 MAR	16,100	20,800	54,500	54,500	27,800	27,800	54,600	24,600	24,600	54,600	54,600	54,600
1991 APR	16,200	30,100	53,600	53,600	54,300	54,900	54,400	53,500	53,500	54,400	54,400	53,500
1991 MAY	15,800	22,400	53,700	53,700	20,600	21,200	54,400	54,100	54,100	54,400	54,100	54,100
1991 JUN	16,300	22,900	53,300	53,300	21,500	21,500	52,600	52,700	52,600	52,600	52,700	52,700
1991 JUL	17,200	21,700	54,600	54,600	21,700	21,500	53,400	54,100	54,100	53,400	54,100	54,100
1991 AUG	16,500	23,300	53,300	53,300	55,000	21,600	53,200	50,700	50,700	53,200	50,700	50,700
1991 SEP	16,800	22,700	55,100	55,100	55,600	21,400	22,100	26,100	26,100	22,100	26,100	26,100
1991 OCT	17,600	23,000	55,400	55,400	56,500	32,000	56,500	58,200	58,200	56,500	58,200	58,200
1991 NOV	18,500	23,300	56,600	56,600	60,000	55,500	59,400	60,100	60,100	59,400	60,100	60,100
1992 JAN	18,100	23,100	56,900	56,900	57,700	56,600	55,900	57,400	57,400	55,900	57,400	57,400
1992 MAR	16,200	21,800	56,900	56,900	20,900	20,900	56,400	57,000	57,000	56,400	57,000	57,000
1992 JUL	17,000	19A	56,300	56,300	22,800	23,000	55,400	54,700	54,700	55,400	54,700	54,700
1992 SEP	18,100	24,500	56,300	56,300	56,400	56,400	55,400	54,700	54,700	55,400	54,700	54,700
1992 NOV	17,400	21,900	56,300	56,300	56,400	56,400	55,400	54,700	54,700	55,400	54,700	54,700
COLOUR (NTU)												
DETN LIMIT = 0.50 GUIDELINE = 5 (A3)												
1991 JAN	15,000	1,000 <T	5,500	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T
1991 FEB	13,000	3,500	3,500	3,500	BDL	BDL	3,500	BDL	3,500	BDL	3,500	BDL
1991 MAR	16,000	BDL	2,500	2,500	BDL	BDL	3,500	BDL	3,500	BDL	3,500	BDL
1991 APR	16,500	1,000 <T	4,000	1,000 <T	500 <T	500 <T	7,500	7,500	7,500	7,500	7,500	7,500
1991 MAY	16,500	1,000 <T	5,500	5,500	500 <T	500 <T	7,500	7,500	7,500	7,500	7,500	7,500
1991 JUN	14,000	1,000 <T	4,000	4,000	9,000	9,000	4,000	4,000	4,000	4,000	4,000	4,000
1991 JUL	15,500	26,000	4,000	4,000	1,000	1,000	4,000	4,000	4,000	4,000	4,000	4,000
1991 SEP	16,500	1,500	3,500	3,500	1,000	1,000	4,000	4,000	4,000	4,000	4,000	4,000
1991 OCT	12,000	1,000 <T	2,500	2,500	1,000 <T	1,000 <T	4,000	4,000	4,000	4,000	4,000	4,000
1991 NOV	10,500	1,500	3,500	3,500	BDL	BDL	500 <T	500 <T	500 <T	500 <T	500 <T	500 <T
1992 JAN	13,000	500 <T	5,000	5,000	BDL	BDL	500 <T	500 <T	500 <T	500 <T	500 <T	500 <T
1992 MAR	13,500	4,000	4,000	4,000	BDL	BDL	500 <T	500 <T	500 <T	500 <T	500 <T	500 <T
1992 MAY	17,000	BDL	6,500	6,500	BDL	BDL	5,000	5,000	5,000	5,000	5,000	5,000
1992 JUL	10,000	1,500	3,500	3,500	BDL	BDL	4,500	4,500	4,500	4,500	4,500	4,500
1992 SEP	10,500	1,500	3,500	3,500	BDL	BDL	4,500	4,500	4,500	4,500	4,500	4,500
1992 NOV	11,500	1,500	4,000	4,000	1,500	1,500	4,500	4,500	4,500	4,500	4,500	4,500



TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
CHEMISTRY (LABORATORY)											
CONDUCTIVITY (UMHGO/CM )											
DETN LIMIT = 1.0											
GUIDELINE = 400 (F2)											
1991 JAN	559	664	582	682	677	674	679	677	679	677	677
1991 FEB	579	684	579	687	687	682	573	590	573	590	
1991 MAR	531	655	543	674	557	555	667	566	667	566	
1991 APR	543	653	579	671	667	669	669	668	669	668	
1991 MAY	513	639	534	646	534	534	647	647	647	647	
1991 JUN	503	633	517	636	512	511	636	635	636	635	
1991 JUL	657	528	513	683	528	529	691	692	691	692	
1991 AUG	532	554	534	694	664	504	692	682	692	682	
1991 SEP	495	509	509	664	664	504	510	531	510	531	
1991 OCT	530	699	542	709	708	708	537	539	537	539	
1991 NOV	547	670	564	706	700	600	575	708	575	708	
1992 MAR	573	706	585	712	699	696	711	716	711	716	
1992 APR	583	672	580	677	677	703	673	665	673	665	
1992 JUL	481	541	541	674	501	502	683	686	683	686	
1992 SEP	525	656	546	666	564	559	689	689	689	689	
1992 NOV	547	663	569	666	564	559	689	689	689	689	
DETN LIMIT = 0.10											
GUIDELINE = 5.0 (A3)											
1991 JAN	4.200	.800	3.800	.900	.800	1.200	.700	.900	.700	.900	
1991 FEB	3.300	.700	2.800	.700	.800	1.100	.800	2.600	.800	2.600	
1991 MAR	4.000	3.200	3.200	.700	2.700	3.500	1.500	2.000	3.200	2.000	
1991 APR	3.800	3.000	3.000	.900	.900	3.700	1.800	1.200	3.000	1.200	
1991 MAY	3.500	3.300	3.300	.900	.900	3.700	1.800	1.200	3.000	1.200	
1991 JUN	3.400	.900	3.200	.900	3.100	3.200	1.000	1.200	3.200	1.000	
1991 JUL	2.400	.900	2.300	1.000	2.400	2.500	.800	1.000	2.500	.800	
1991 AUG	3.100	.700	3.000	.700	.800	2.100	.700	1.700	.700	1.700	
1991 SEP	2.100	.800	2.200	.800	.800	2.100	2.100	1.800	2.100	1.800	
1991 OCT	2.300	.600	2.400	.700	.700	2.300	1.800	1.800	2.300	1.800	
1991 NOV	2.800	.900	2.900	.700	1.100	2.300	2.500	1.000	2.500	1.000	
1992 JAN	3.400	.600	2.900	.800	.800	1.100	.700	1.000	.700	.900	
1992 MAR	3.400	.800	3.100	.900	.800	.800	1.000	1.000	1.000	1.000	
1992 MAY	4.100	.800	3.700	.900	.900	.800	1.000	1.100	.800	1.100	
1992 JUL	2.600	.700	2.800	.800	2.300	2.400	1.000	1.100	2.400	1.100	
1992 SEP	2.800	.900	2.800	.900	.800	2.800	1.000	1.000	2.800	1.000	
1992 NOV	2.900	.900	3.000	.900	.800	2.800	2.800	1.600	2.800	1.600	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
CHEMISTRY (LABORATORY)											
FLUORIDE (MG/L)											
DETN LIMIT = 0.01											
GUIDELINE = 1.5 (A1)											
1991 JAN	-120	100	1,160	780	1,140	1,060	1,060	1,220	1,220	1,220	1,220
1991 FEB	-060	060	1,160	760	1,080	1,020	1,020	1,180	1,180	1,220	1,220
1991 MAR	-100	060 <T	1,060	1,220	1,080	960	960	1,140	1,140	1,080	1,080
1991 APR	080	060	1,000	1,020	1,020	1,000	1,000	1,060	1,060	1,040	1,040
1991 MAY	080	060	1,180	1,320	1,280	1,280	1,280	1,360	1,360	1,360	1,360
1991 JUN	080	080	1,160	1,320	1,280	1,280	1,280	1,360	1,360	1,360	1,360
1991 JUL	080	060 <T	1,200	1,260	1,260	1,260	1,260	1,360	1,360	1,360	1,360
1991 AUG	080	100	1,320	1,260	1,260	960	960	1,260	1,260	1,120	1,120
1991 SEP	080	060	1,460	1,520	1,520	1,420	1,420	1,500	1,500	1,420	1,420
1991 OCT	080	080	1,120	1,060	1,060	1,060	1,080	1,040	1,040	1,160	1,160
1991 NOV	080	080	1,120	920	920	920	980	1,100	1,100	1,020	1,020
1992 JAN	080	060	580	900	900	820	680	940	940	940	940
1992 MAR	080	080	1,080	1,000	1,000	1,300	1,280	1,060	1,060	1,060	1,060
1992 MAY	-100	080	1,040	1,320	1,320	1,360	1,360	1,300	1,300	1,320	1,320
1992 JUL	-100	080	1,140	980	980	1,140	1,180	1,000	1,000	1,100	1,100
1992 SEP	-100	-120	1,260	1,260	1,260	1,140	1,180	1,000	1,000	1,100	1,100
1992 NOV	-100	-140	1,260	980	980	1,140	1,180	1,000	1,000	1,100	1,100
HARDNESS (MG/L)											
DETN LIMIT = 0.5											
GUIDELINE = 80-100 (A4)											
1991 JAN	303,800	314,800	301,200	313,800	313,800	314,300	325,300	314,900	314,900	319,000	319,000
1991 FEB	297,000	263,000	302,000	289,000	289,000	313,000	310,000	266,000	266,000	281,000	281,000
1991 MAR	285,000	284,000	281,000	301,000	301,000	290,000	283,000	317,000	317,000	291,000	291,000
1991 APR	276,100	284,200	281,900	290,500	284,200	284,800	288,400	290,800	290,800	293,700	293,700
1991 MAY	285,000	288,600	288,000	302,000	296,600	289,000	289,000	288,000	288,000	311,000	311,000
1991 JUN	267,000	290,500	273,000	290,200	273,000	270,000	269,000	293,000	293,000	305,000	305,000
1991 JUL	258,000	243,000	256,000	289,000	289,000	257,000	255,000	293,000	293,000	310,000	310,000
1991 AUG	256,200	291,700	258,000	299,700	299,700	305,000	254,300	292,000	292,000	297,700	297,700
1991 SEP	257,000	300,200	257,000	308,200	308,200	295,000	262,300	263,000	263,000	269,300	269,300
1991 OCT	262,200	291,700	257,600	282,200	282,200	295,000	294,500	260,000	260,000	258,000	258,000
1991 NOV	272,400	277,300	273,700	298,500	298,500	278,100	281,500	276,600	276,600	311,100	311,100
1992 JAN	275,100	293,100	269,300	302,500	302,500	278,100	277,600	280,500	280,500	306,100	306,100
1992 MAR	289,000	289,000	289,000	288,400	288,400	308,000	310,000	288,700	288,700	297,000	297,000
1992 MAY	284,000	241,000	288,400	288,400	288,400	262,000	261,000	420,620	420,620	298,680	298,680
1992 JUL	263,000	416,910	272,840	299,480	299,480	277,000	276,000	297,000	297,000	299,000	299,000
1992 SEP	269,440	288,000	288,000	290,000	290,000	277,000	276,000	297,000	297,000	299,000	299,000
1992 NOV	288,000	288,000	288,000	290,000	290,000	277,000	276,000	297,000	297,000	299,000	299,000

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

IONICAL (OMNILESS)	CHEMISTRY (LABORATORY)									
	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING
1991 JAN	1.479	1.884 RID	1.721	1.741 RID	1.800 RID	5.082 RID	1.453 RID	3.107 RID		
1991 FEB	1.135	5.042	2.132	2.429	1.907	1.566	2.792 RID	4.984		
1991 MAR	2.281 RID	3.595 RID	1.167 RID	1.570 RID	3.756 RID	2.865 RID	2.792 RID	7.777 RID		
1991 APR	3.944	4.277 RID	2.570	4.042 RID	5.081 RID	4.376 RID	4.054 RID	3.995 RID		
1991 MAY	3.316	2.145	4.866	5.882	2.277 NAF	3.393	2.626	1.820		
1991 JUN	3.565 NAF	4.606 NAF	1.034 NAF	3.527 NAF	1.167 NAF	1.67 NAF	2.707 NAF	2.838 NAF		
1991 JUL	1.658	16.020	1.141	3.765	1.230	1.925	1.994	2.143		
1991 AUG	7.219	4.864	5.108	2.730	1.155 NAF	3.333	5.539	3.333		
1991 SEP	2.681 NAF	4.164 NAF	1.966 NAF	3.909	1.261 NAF	3.029 NAF	1.398 NAF	1.398 NAF		
1991 OCT	4.464	4.655	1.086	3.507	3.507	3.337	1.755	1.734		
1991 NOV	4.178 NAF	3.440 NAF	1.982 NAF	2.675 NAF	3.117 NAF	3.119 NAF	2.183 NAF	2.645 NAF		
1992 JAN	3.988	4.709	3.452	2.059	3.756	4.125	3.006	1.147		
1992 MAR	1.580		1.907		1.087	1.214				
1992 MAY	2.140 NAF	4.741 NAF	2.240 NAF	3.733 NAF	3.784	3.945	2.727 NAF	1.739 NAF		
1992 JUL	3.194	4.539	1.000 NAF	3.430	3.430	2.900	1.719	1.038		
1992 SEP	1.938	4.739	1.864	2.653	4.036	2.900	1.882	1.315		
1992 NOV	1.610		1.399							
GUIDELINE = 10 (F2)										
POTASSIUM (MG/L)	DETN LIMIT = 0.01									
1991 JAN	1.970	1.380	2.000	1.340	1.380	1.450	1.360	1.400		
1991 FEB	2.050	1.450	2.100	1.450	1.550	1.550	1.500	1.500		
1991 MAR	1.950	1.700	1.700	1.300	1.700	1.950	1.300	1.300		
1991 APR	1.310	1.250	1.800	1.220	1.290	1.420	1.220	1.220		
1991 MAY	1.310	1.160	1.480	1.160	1.520	1.550	1.120	1.170		
1991 JUN	1.550	1.300	1.500	1.300	1.500	1.350	1.350	1.500		
1991 JUL	1.150	1.350	1.200	1.450	1.350	1.300	1.300	1.300		
1991 AUG	1.510	1.210	1.570	1.220	1.370	1.510	1.150	1.240		
1991 SEP	1.480	1.390	1.520	1.330	1.370	1.520	1.580	1.530		
1991 OCT	1.810	1.390	1.800	1.460	1.420	1.520	1.640	1.680		
1991 NOV	1.840	1.410	1.890	1.370	1.570	2.010	1.820	1.420		
1992 JAN	1.820	1.220	1.880	1.780	1.370	1.480	1.320	1.300		
1992 MAR	1.890	1.220	1.880	1.330	1.450	1.550	1.374	1.398		
1992 MAY	1.965	1.350	1.901	1.346	1.370	1.390	1.444	1.450		
1992 JUL	1.360	1.401	2.071	1.408	1.983	2.028	1.391	1.648		
1992 SEP	1.998	1.617	1.937	1.409	1.983	2.028	1.391	1.648		
1992 NOV	1.924									

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN S. FREE FLOW		DIST. SYSTEM MAIN S. STANDING		DIST. SYSTEM IMPERIAL ST. FREE FLOW		DIST. SYSTEM IMPERIAL ST. STANDING		
CHEMISTRY (LABORATORY)												
LANGELIERS INDEX (DMN/SS)												
DETM LIMIT = N/A				GUIDELINE = N/A								
1991 JAN	1.256	1.145 RID	1.213	1.193 RID	1.171 RID	1.206 RID	1.208 RID	1.255 RID	1.256	1.145 RID	1.213	1.193 RID
1991 FEB	1.186	.900	1.107	1.000	1.059	1.167	1.028	1.113	1.186	.900	1.107	1.000
1991 MAR	1.225 RID	1.146 RID	1.191 RID	1.146 RID	1.231 RID	1.163 RID	1.294 RID	1.265 RID	1.225 RID	1.146 RID	1.191 RID	1.146 RID
1991 APR	1.168	-.992 RID	1.025	1.088 RID	1.042 RID	1.093 RID	1.035 RID	1.160 RID	1.168	-.992 RID	1.025	1.088 RID
1991 MAY	1.146	1.027	1.033	.972	1.084	1.091	1.166	1.156	1.146	1.027	1.033	.972
1991 JUN	1.020	-.994	1.022	-.936	.936	.943	.959	1.087	1.020	-.994	1.022	-.936
1991 JUL	1.082	.930	1.066	1.128	1.080	1.047	1.107	1.164	1.082	.930	1.066	1.128
1991 AUG	1.138	1.091	1.091	1.163	1.080	1.047	1.107	1.164	1.138	1.091	1.091	1.163
1991 SEP	1.089	1.195	1.112	1.252	1.218	1.102	1.082	1.150	1.089	1.195	1.112	1.252
1991 OCT	1.055	1.103	1.049	1.044	1.071	1.105	1.018	1.049	1.055	1.103	1.049	1.044
1991 NOV	1.173	-.941	1.062	1.098	1.091	1.063	1.076	1.175	1.173	-.941	1.062	1.098
1992 JAN	1.108	1.048	1.066	1.082	1.082	1.070	-.978	1.084	1.108	1.048	1.066	1.082
1992 MAR	1.316	1.289	1.289	1.343	1.299	1.299	1.093	1.093	1.316	1.289	1.289	1.343
1992 MAY	1.047	-.783	-.967	-.941	1.110	1.070	1.163	1.231	1.047	-.783	-.967	-.941
1992 JUL	1.149	-.989	1.139	1.123	1.123	1.149	1.187	1.235	1.149	-.989	1.139	1.123
1992 SEP	1.111	1.101	1.128	1.140	1.169	1.149	1.187	1.235	1.111	1.101	1.128	1.140
1992 NOV	1.194	1.101	1.128	1.140	1.169	1.149	1.187	1.235	1.194	1.101	1.128	1.140
MAGNESIUM (MG/L)												
DETM LIMIT = 0.1				GUIDELINE = 30.0 (F2)								
1991 JAN	14.850	18.400	14.800	18.350	18.050	18.500	18.750	18.400	14.850	18.400	14.800	18.350
1991 FEB	14.700	18.420	14.700	18.520	18.580	18.580	18.200	15.420	14.700	18.420	14.700	18.520
1991 MAR	13.600	17.800	13.500	17.800	14.500	14.100	17.900	14.700	13.600	17.800	13.500	17.800
1991 APR	13.900	17.100	14.350	17.200	16.900	16.900	17.500	16.550	13.900	17.100	14.350	17.200
1991 MAY	14.300	16.600	14.600	17.900	14.000	13.900	18.300	17.200	14.300	16.600	14.600	17.900
1991 JUN	13.300	16.800	13.700	16.800	13.400	13.200	16.200	16.600	13.300	16.800	13.700	16.800
1991 JUL	14.800	18.200	14.900	18.300	15.000	14.900	18.200	18.000	14.800	18.200	14.900	18.300
1991 AUG	13.600	17.150	13.550	17.650	17.200	13.900	17.050	17.050	13.600	17.150	13.550	17.650
1991 SEP	13.950	17.250	14.150	17.450	17.200	13.900	14.600	14.600	13.950	17.250	14.150	17.450
1991 OCT	13.900	17.150	13.650	16.900	17.250	15.000	14.250	14.100	13.900	17.150	13.650	16.900
1991 NOV	14.650	18.100	15.000	18.200	17.600	15.700	15.450	18.100	14.650	18.100	15.000	18.200
1992 JAN	15.000	17.750	15.000	18.200	18.050	17.550	17.950	17.800	15.000	17.750	15.000	18.200
1992 MAR	14.200	14.600	14.600	18.000	18.000	17.900	17.640	17.520	14.200	14.600	14.600	18.000
1992 MAY	14.500	17.400	14.340	17.520	15.100	15.100	17.640	17.520	14.500	17.400	14.340	17.520
1992 JUL	14.200	17.820	15.004	17.760	15.100	15.100	18.120	17.640	14.200	17.820	15.004	17.760
1992 SEP	12.940	17.700	14.800	17.300	14.500	14.500	17.500	16.600	12.940	17.700	14.800	17.300
1992 NOV	14.800	17.700	14.800	17.300	14.500	14.500	17.500	16.600	14.800	17.700	14.800	17.300

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		SPRING RAW	SPRING TREATED	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
CHEMISTRY (LABORATORY)									
SODIUM (MG/L)									
OET'N LIMIT = 0.20      GUIDELINE = 200 (44)									
1991 JAN	7.800	24.500	10.800	25.600	25.600	25.800	25.600	25.800	26.000
1991 FEB	7.200	24.400	10.200	25.400	25.400	25.000	24.600	24.600	25.200
1991 MAR	7.600	25.600	9.200	26.400	26.400	13.200	11.400	26.400	12.000
1991 APR	7.800	26.000	11.100	27.500	27.500	10.000	26.900	26.400	25.700
1991 MAY	7.800	25.200	11.200	25.000	25.000	10.000	10.000	24.800	25.600
1991 JUN	7.600	24.600	11.000	26.000	26.000	9.800	10.000	24.800	24.800
1991 JUL	8.000	24.200	10.600	25.600	25.600	10.600	10.600	25.800	25.600
1991 AUG	8.000	24.400	11.600	25.400	25.400	26.500	10.400	25.300	24.000
1991 SEP	8.400	24.000	11.700	26.200	26.200	26.500	10.200	25.300	24.500
1991 OCT	8.700	23.600	11.700	27.000	27.000	27.000	26.700	11.000	12.500
1991 NOV	8.300	28.500	12.900	29.600	29.600	27.400	13.100	12.900	29.800
1992 JAN	8.300	26.900	10.200	28.500	28.500	28.500	25.900	29.100	30.100
1992 FEB	7.100	27.200	10.800	27.900	27.900	10.100	10.100	28.260	27.600
1992 MAR	8.200	28.840	11.240	29.740	29.740	11.540	11.540	29.700	29.820
1992 APR	8.460	27.200	10.880	27.400	27.400	11.540	11.500	28.400	22.500
1992 SEP	8.250	27.200	10.880	27.400	27.400	11.540	11.500	28.400	22.500
AMMONIUM TOTAL (MG/L)									
DET'N LIMIT = 0.002      GUIDELINE = 0.05 (F2)									
1991 JAN	.006 <T	.022	.008 <T	.006 <T	.006 <T	.006 <T	.006 <T	.004 <T	.006 <T
1991 FEB	.032	.016	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.006 <T
1991 MAR	.016	.022	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.008 <T
1991 APR	.010	.026	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.008 <T
1991 MAY	.086	.024	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T
1991 JUN	.040	.026	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T	.006 <T
1991 JUL	.002 <T	.038	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T
1991 AUG	.010	.028	.010	.006 <T	.006 <T	.006 <T	.010	.018	.020
1991 OCT	.038	.014	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.004 <T	.008 <T
1991 NOV	.002 <T	.014	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T
1992 JAN	.014	.002 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T
1992 MAR	.012	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T
1992 MAY	.006 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T
1992 JUL	.084	.010	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.010
1992 SEP	.038	.010	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.012
1992 NOV	.006 <T	.004 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.008 <T	.012

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

NITRITE (MG/L)	CHEMISTRY (LABORATORY)		DET'N LIMIT = 0.001		GUIDELINE = 1.0 (A1)		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DET'N LIMIT = 0.001	GUIDELINE = 1.0 (A1)	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
1991 JAN	0.071													
1991 FEB	0.023													
1991 MAR	0.029													
1991 APR	0.016													
1991 MAY	0.015													
1991 JUN	0.038													
1991 JUL	0.018													
1991 AUG	0.142													
1991 SEP	0.079													
1991 OCT	0.025													
1991 NOV	0.017													
1992 JAN	0.029													
1992 MAR	0.018													
1992 MAY	0.059													
1992 JUL	0.020													
1992 SEP	0.029													
1992 NOV	0.011													
NITRATE (TOTAL) (MG/L)														
1991 JAN	2.700													
1991 FEB	2.440													
1991 MAR	2.550													
1991 APR	2.340													
1991 MAY	2.010													
1991 JUN	1.660													
1991 JUL	2.400													
1991 AUG	2.120													
1991 SEP	2.370													
1991 OCT	2.600													
1991 NOV	1.920													
1992 JAN	2.170													
1992 MAR	2.330													
1992 MAY	1.760													
1992 JUL	1.980													
1992 SEP	2.080													
1992 NOV	2.080													

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM		DIST. SYSTEM		DIST. SYSTEM	
				FREE FLOW	MAIN ST	FREE FLOW	MAIN ST	FREE FLOW	IMPERIAL ST
CHEMISTRY (LABORATORY)									
NITROGEN TOT KjELD (MG/L)									
DETN LIMIT = 0.02									
GUIDELINE = N/A									
1991 JAN	.440	.100	.280	.080 <T	.140	.170	.090 <T	.150	.280
1991 FEB	.420	.110	.290	.090 <T	.100	.150	.330	.280	.150
1991 MAR	.460	.130	.390	.090 <T	.290	.430	.110	.290	.290
1991 APR	.520	.150	.350	.180	.180	.280	.190	.330	.330
1991 MAY	.370	.160	.280	.130	.360	.540	.110	.230	.230
1991 JUN	.490	.160	.210	.160	.410	.470	.160	.210	.210
1991 JUL	.500	.160	.300	.140	.240	.340	.150	.290	.290
1991 AUG	.280	.140	.230	.080 <T	.100	.130	.130	.170	.170
1991 SEP	.340	.130	.250	.140	.100	.200	.220	.230	.230
1991 OCT	.270	.120	.200	.080 <T	.090 <T	.110	.190	.200	.200
1991 NOV	.370	.140	.240	.100	.190	.300	.290	.160	.160
1992 JAN	.430	.160	.310	.170	.130	.170	.100	.250	.250
1992 MAR	.420	.140	.340	.120	.140	.140	.150	.190	.190
1992 MAY	.340	.110	.240	.130	.280	.230	.130	.170	.170
1992 JUL	.310	.110	.290	.160	.280	.320	.120	.210	.210
1992 SEP	.310	.150	.270	.160	.280	.280	.120	.210	.210
1992 NOV	.300	.150	.270	.160	.280	.280	.120	.210	.210
PH (OMNILESS)									
DETN LIMIT = N/A									
GUIDELINE = 6.5-8.5 (4s)									
1991 JAN	8.420	8.290	8.400	8.330	8.310	8.330	8.350	8.390	8.390
1991 FEB	8.360	8.300	8.290	8.260	8.200	8.290	8.300	8.340	8.340
1991 MAR	8.330	8.230	8.370	8.360	8.440	8.390	8.430	8.430	8.430
1991 APR	8.380	8.200	8.260	8.270	8.240	8.280	8.220	8.310	8.310
1991 MAY	8.350	8.200	8.250	8.140	8.290	8.290	8.320	8.300	8.300
1991 JUN	8.250	8.170	8.260	8.120	8.180	8.190	8.150	8.240	8.240
1991 JUL	8.370	8.260	8.370	8.330	8.380	8.350	8.300	8.320	8.320
1991 AUG	8.400	8.270	8.360	8.330	8.380	8.350	8.380	8.360	8.360
1991 SEP	8.360	8.300	8.400	8.400	8.370	8.390	8.340	8.390	8.390
1991 OCT	8.320	8.290	8.340	8.270	8.250	8.270	8.310	8.340	8.340
1991 NOV	8.400	8.190	8.300	8.270	8.260	8.280	8.310	8.320	8.320
1992 JAN	8.350	8.230	8.340	8.250	8.320	8.320	8.160	8.240	8.240
1992 MAR	8.510	8.490	8.490	8.500	8.500	8.450	8.160	8.270	8.270
1992 MAY	8.260	8.210	8.210	8.140	8.420	8.380	8.340	8.410	8.410
1992 JUL	8.440	8.440	8.440	8.320	8.390	8.370	8.360	8.400	8.400
1992 SEP	8.360	8.300	8.390	8.330	8.380	8.360	8.360	8.400	8.400
1992 NOV	8.380	8.300	8.320	8.330	8.380	8.370	8.360	8.400	8.400

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		DIST. SYSTEM		DIST. SYSTEM		DIST. SYSTEM	
RAW	SPRING	RAW	TREATED	SPRING	TREATED	MAIN ST	FREE FLOW	MAIN ST	STANDING	FREE FLOW	STANDING
CHEMISTRY (LABORATORY)											
PHOSPHORUS FIL REACT (MG/L )											
OET*N LIMIT = 0.0005 GUIDELINE = M/A											
1991 JAN	.003	BDL	.002 <T		.001 <T						
1991 FEB	.004	.001 <T	.003		.001						
1991 MAR	.003	BDL	.006		.003						
1991 APR	.002	.000 <T	.004		.004						
1991 MAY	.001 <T	BDL	.001 <T		.001 <T						
1991 JUN	.004	BDL	.000 <T		.001 <T						
1991 JUL	.002 <T	BDL	.001 <T		.001 <T						
1991 AUG	.010	BDL	.005		.002						
1991 SEP	.004	BDL	.001 <T		.002 <T						
1991 OCT	.000 <T	BDL	.000 <T		.002 <T						
1991 NOV	.000 <T	BDL	.000 <T		.003						
1992 JAN	.001 <T	BDL	.000 <T		.001 <T						
1992 MAR	.002 <T	BDL	.003 <T		.001 <T						
1992 MAY	.008	BDL	.008		.001 <T						
1992 JUL	.008	BDL	.008		.001 <T						
1992 SEP	.001 <T	BDL	.001 <T		.001 <T						
1992 NOV	.001 <T	BDL	.002 <T		.001 <T						
PHOSPHORUS TOTAL (MG/L )											
OET*N LIMIT = 0.002 GUIDELINE = 0.40 (F2)											
1991 JAN	.012	.005 <T	.006 <T		.005 <T						
1991 FEB	.012	BDL	.004 <T		.002 <T						
1991 MAR	.021	.002 <T	.013		.006 <T						
1991 APR	.023	.002 <T	.008 <T		.004 <T						
1991 MAY	.012	BDL	.004 <T		.002 <T						
1991 JUN	.030	BDL	.006 <T		.002 <T						
1991 JUL	.017	.002 <T	.007 <T		.004 <T						
1991 AUG	.020	BDL	.009 <T		.003 <T						
1991 SEP	.017	BDL	.003 <T		.002 <T						
1991 OCT	.021	.003 <T	.003 <T		.004 <T						
1991 NOV	.011	.003 <T	.006 <T		.004 <T						
1992 JAN	.009 <T	BDL	.006 <T		.002 <T						
1992 JAN	.012	BDL	.006 <T		.004 <T						
1992 MAR	.026	.004 <T	.008 <T		.004 <T						
1992 MAY	.023	BDL	.008 <T		.007 <T						
1992 JUL	.023	BDL	.007 <T		.007 <T						
1992 SEP	.017	.009 <T	.009 <T		.008 <T						
1992 NOV	.010	.009 <T	.009 <T		.008 <T						



TABLE 4.  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

RESIDUE FILTRATE (MG/L)	CHEMISTRY (LABORATORY)				DEI'N LIMIT = N/A				GUIDELINE = 500 (A3)			
	TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
1991 JAN	363.000 CR0	432.000 CR0	378.000 CR0	443.000 CR0	440.000 CR0	438.000 CR0	441.000 CR0	440.000 CR0	438.000 CR0	441.000 CR0	440.000 CR0	
1991 FEB	360.000 CR0	445.000 CR0	447.000 CR0	447.000 CR0	447.000 CR0	443.000 CR0	441.000 CR0	443.000 CR0	443.000 CR0	441.000 CR0	443.000 CR0	
1991 MAR	345.000 CR0	426.000 CR0	353.000 CR0	438.000 CR0	382.000 CR0	361.000 CR0	376.000 CR0	384.000 CR0	372.000 CR0	384.000 CR0	368.000 CR0	
1991 APR	353.000 CR0	424.000 CR0	376.000 CR0	436.000 CR0	434.000 CR0	435.000 CR0	421.000 CR0	434.000 CR0	435.000 CR0	421.000 CR0	434.000 CR0	
1991 MAY	333.000 CR0	415.000 CR0	347.000 CR0	420.000 CR0	347.000 CR0	347.000 CR0	421.000 CR0	421.000 CR0	347.000 CR0	421.000 CR0	421.000 CR0	
1991 JUN	327.000 CR0	411.000 CR0	336.000 CR0	413.000 CR0	333.000 CR0	332.000 CR0	413.000 CR0	413.000 CR0	332.000 CR0	413.000 CR0	430.000 CR0	
1991 JUL	333.000 CR0	427.000 CR0	343.000 CR0	444.000 CR0	343.000 CR0	344.000 CR0	449.000 CR0	450.000 CR0	344.000 CR0	449.000 CR0	450.000 CR0	
1991 AUG	346.000 CR0	443.000 CR0	360.000 CR0	451.000 CR0	432.000 CR0	328.000 CR0	450.000 CR0	443.000 CR0	328.000 CR0	450.000 CR0	443.000 CR0	
1991 SEP	322.000 CR0	427.000 CR0	331.000 CR0	432.000 CR0	432.000 CR0	332.000 CR0	432.000 CR0	432.000 CR0	332.000 CR0	432.000 CR0	443.000 CR0	
1991 OCT	345.000 CR0	454.000 CR0	352.000 CR0	461.000 CR0	460.000 CR0	460.000 CR0	460.000 CR0	460.000 CR0	460.000 CR0	460.000 CR0	350.000 CR0	
1991 NOV	356.000 CR0	435.000 CR0	367.000 CR0	459.000 CR0	455.000 CR0	390.000 CR0	474.000 CR0	474.000 CR0	390.000 CR0	474.000 CR0	460.000 CR0	
1992 JAN	372.000 CR0	459.000 CR0	380.000 CR0	463.000 CR0	454.000 CR0	452.000 CR0	462.000 CR0	462.000 CR0	452.000 CR0	462.000 CR0	465.000 CR0	
1992 MAR	366.000 CR0	437.000 CR0	377.000 CR0	440.000 CR0	434.000 CR0	457.000 CR0	457.000 CR0	457.000 CR0	457.000 CR0	457.000 CR0	432.000 CR0	
1992 MAY	346.000 CR0		352.000 CR0		326.000 CR0	326.000 CR0			326.000 CR0		432.000 CR0	
1992 JUL	319.000 CR0		355.000 CR0		326.000 CR0	326.000 CR0			326.000 CR0		432.000 CR0	
1992 SEP	341.000 CR0		370.000 CR0		367.000 CR0	367.000 CR0			367.000 CR0		446.000 CR0	
1992 NOV	356.000 CR0		351.000 CR0		367.000 CR0	363.000 CR0			363.000 CR0		446.000 CR0	
SULPHATE (MG/L)												
DEI'N LIMIT = 0.20												
1991 JAN	75.840	45.820	73.870	44.540	44.120	45.790	44.850	44.260	45.790	44.850	44.260	
1991 FEB	69.140	44.490	71.830	45.170	44.790	45.450	44.790	44.790	45.450	44.790	44.790	
1991 MAR	65.130	43.580	63.990	43.450	60.690	62.370	62.370	62.370	62.370	62.370	68.250	
1991 APR	68.490	43.450	64.280	44.070	44.720	44.290	44.070	44.070	44.290	44.070	65.830	
1991 MAY	62.880	43.450	64.280	42.680	43.460	44.590	43.460	43.460	44.590	43.460	43.190	
1991 JUN	62.190	44.120	62.010	42.680	43.160	63.700	63.700	63.700	63.700	63.700	43.100	
1991 JUL	64.040	42.840	64.900	45.260	34.900	55.190	41.290	41.290	55.190	41.290	61.960	
1991 AUG	63.480	43.860	65.860	45.010	66.260	57.300	65.020	65.020	57.300	65.020	66.180	
1991 SEP	95.360	47.840	97.840	48.010	48.010	67.000	67.000	67.000	67.000	67.000	52.620	
1991 OCT	31.970	47.030	34.920	48.020	47.630	67.000	67.000	67.000	67.000	67.000	58.380	
1991 NOV	66.260	45.470	64.170	46.790	47.750	63.200	64.340	64.340	63.200	64.340	47.630	
1992 JAN	71.530	43.820	75.010	45.090	46.140	67.120	67.120	67.120	67.120	67.120	44.270	
1992 MAR	64.730		74.010		49.130	50.240			50.240		44.930	
1992 MAY	64.730		65.520		45.450				45.450		45.260	
1992 JUL	57.010		1.144		58.400	57.440			57.440		45.850	
1992 SEP	56.100		56.420		67.350	66.370			66.370		47.320	
1992 NOV	63.010		66.260		67.350	66.370			66.370		44.940	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TURBIDITY (FTU)	TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
	RAW	SPRING	RAW	SPRING	RAW	SPRING	RAW	SPRING	RAW	SPRING	RAW	SPRING
1991 JAN	3,600	.320	1,310 RRV	.260	.360	.460	.250	.380				
1991 FEB	3,300 RRV	.760	.930	.390	.180	.310	.410	.430				
1991 MAR	4,600	.270	2,400 RRV	.220	.390	.990	.240	.450				
1991 APR	2,900	.220	1,290 RRV	.200	.140	.570	.190	.360				
1991 MAY	2,800	.470	.390	.520	.410	.690	.480	.490				
1991 JUN	3,600	.520	.660	.310	1,700 RRV	.680	.540	.500				
1991 JUL	1,700	.270	.330	.360	.520	.540	.270	.430				
1991 AUG	2,400	.270	1,270 RRV	.360	.340	.180	.180	.190				
1991 SEP	2,700	.510	.150	.150	.300	.330	.330	.280				
1991 OCT	3,200	.200 <T	.230	.230	.280	.190 <T	.130 <T	.370				
1991 NOV	1,210	.250 <T	.340	.190 <T	.280	.270	.270	.310				
1992 JAN	1,620	.340	.340	.200 <T	.210 <T	.230 <T	.300	.370				
1992 MAR	3,200	.120 <T	1,500 RRV	.550	.290 <T	.410	.550	.940				
1992 MAY	4,500	.810	.760	.670	.340	.350	.340	.690				
1992 JUL	3,200	.670	.690	.400	.410	.310	.310	.560				
1992 SEP	1,750	.670	.980	.410	.160 <T	.310	.310	.690				
1992 NOV	1,920	.670	.980	.410	.160 <T	.310	.310	.560				

GUIDELINE = 1.0 (A1)

DET'N LIMIT = 0.05

CHEMISTRY (LABORATORY)

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

SILVER (UG/L)	METALS		TREATMENT PLANT		TREATMENT PLANT		DIST. SYSTEM		DIST. SYSTEM		DIST. SYSTEM	
	RAW	RAW	RAW	TREATED	RAW	TREATED	MAIN ST FREE FLOW	STANDING	MAIN ST FREE FLOW	STANDING	IMPERIAL ST FREE FLOW	IMPERIAL ST STANDING
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALUMINUM (UG/L)												
1991 JAN	26.000	2.700	280.000	1.800	13.000	13.000	26.000	26.000	5.100	17.000	5.100	17.000
1991 FEB	21.000	1.300	150.000	2.000	10.000	10.000	27.000	27.000	57.000	39.000	57.000	39.000
1991 MAR	6.000	1.800	620.000	3.400	27.000	27.000	160.000	160.000	46.000	64.000	46.000	64.000
1991 APR	26.000	2.300	420.000	2.000	14.000	14.000	29.000	29.000	11.000	35.000	11.000	35.000
1991 MAY	17.000	2.000	210.000	2.400	160.000	160.000	160.000	160.000	4.800	25.000	4.800	25.000
1991 JUN	22.000	34.000	230.000	2.600	520.000	520.000	110.000	110.000	6.900	44.000	6.900	44.000
1991 JUL	11.000	3.800	120.000	3.800	120.000	120.000	130.000	130.000	8.500	33.000	8.500	33.000
1991 AUG	23.000	1.600	270.000	1.900	270.000	270.000	7.900	7.900	7.900	32.000	7.900	32.000
1991 SEP	11.000	1.000	120.000	4.100	21.000	21.000	94.000	94.000	130.000	54.000	130.000	54.000
1991 OCT	21.000	4.100	370.000	4.900	16.000	16.000	36.000	36.000	70.000	55.000	70.000	55.000
1991 NOV	11.000	2.300	530.000	2.100	29.000	29.000	61.000	61.000	84.000	36.000	84.000	36.000
1992 JAN	19.000	2.960 <T	190.000	1.200	22.000	22.000	33.000	33.000	4.800	29.000	4.800	29.000
1992 MAR	25.000	6.600	180.000	6.800	20.000	20.000	22.000	22.000	15.000	25.000	15.000	25.000
1992 MAY	29.000	4.600	70.000	5.200	130.000	130.000	140.000	140.000	9.700	34.000	9.700	34.000
1992 JUL	14.000	4.600	110.000	4.600	130.000	130.000	96.000	96.000	5.500	52.000	5.500	52.000
1992 SEP	12.000	3.600	390.000	4.600	130.000	130.000	96.000	96.000	5.500	52.000	5.500	52.000
1992 NOV	15.000	3.600	390.000	4.600	130.000	130.000	96.000	96.000	5.500	52.000	5.500	52.000

DET'N LIMIT = 0.10      GUIDELINE = 100 (44)

DET'N LIMIT = 0.10      GUIDELINE = 100 (44)

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

ARSENIC (UG/L)	TREATMENT PLANT RAW		TREATMENT PLANT TREATED		DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
	RAW	SPRING	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
METALS												
) DET'N LIMIT = 0.10 GUIDELINE = 25 (A1)												
1991 JAN		BOL	.470 <T	BOL	.160 <T	BOL	.190 <T	BOL	.390 <T	BOL	.270 <T	BOL
1991 FEB		BOL	.370 <T	BOL	.160 <T	BOL	.390 <T	BOL	.390 <T	BOL	.270 <T	BOL
1991 MAR		BOL	.530 <T	BOL	.530 <T	BOL	.250 <T	BOL	.250 <T	BOL	.430 <T	BOL
1991 APR		BOL	.180 <T	BOL	.220 <T	BOL	.120 <T	BOL	.180 <T	BOL	.180 <T	BOL
1991 MAY		BOL	1.600	BOL	1.900	BOL	1.200	BOL	2.100	BOL	1.800	BOL
1991 JUN		BOL	.850 <T	BOL	.850 <T	BOL	1.200	BOL	.910 <T	BOL	.800	BOL
1991 JUL		BOL	1.100	BOL	1.300	BOL	1.100	BOL	1.200	BOL	.770 <T	BOL
1991 AUG		BOL	.220 <T	BOL	.420 <T	BOL	.420 <T	BOL	.600 <T	BOL	.490 <T	BOL
1991 SEP		BOL	.740 <T	BOL	.650 <T	BOL	.540 <T	BOL	.670 <T	BOL	.620 <T	BOL
1991 OCT		BOL	.680 <T	BOL	.820 <T	BOL	1.100	BOL	.780 <T	BOL	.530 <T	BOL
1991 NOV		BOL	.840 <T	BOL	1.100	BOL	1.200	BOL	.940 <T	BOL	.800 <T	BOL
1992 JAN		BOL	.570 <T	BOL	.990 <T	BOL	.870 <T	BOL	.970 <T	BOL	.920 <T	BOL
1992 MAR		BOL	.110 <T	BOL	.380 <T	BOL	.860 <T	BOL	.410 <T	BOL	.450 <T	BOL
1992 MAY		BOL	.860 <T	BOL	.630 <T	BOL	.910 <T	BOL	.860 <T	BOL	.490 <T	BOL
1992 JUL		BOL	.310 <T	BOL	.430 <T	BOL	.710 <T	BOL	.520 <T	BOL	.780 <T	BOL
1992 SEP		BOL	.580 <T	BOL	.660 <T	BOL	.660 <T	BOL	.660 <T	BOL	.490 <T	BOL
1992 NOV		BOL	.530 <T	BOL	.860 <T	BOL	.660 <T	BOL	.780 <T	BOL	.970 <T	BOL

BARITUM (UG/L) ) DET'N LIMIT = 0.05 GUIDELINE = 1000 (A2)

1991 JAN	56,000	58,000	56,000	53,000	56,000	54,000	56,000	56,000	61,000
1991 FEB	60,000	59,000	56,000	58,000	58,000	62,000	57,000	57,000	65,000
1991 MAR	57,000	53,000	52,000	56,000	52,000	58,000	58,000	58,000	64,000
1991 APR	60,000	57,000	56,000	58,000	56,000	59,000	59,000	59,000	60,000
1991 MAY	56,000	53,000	51,000	58,000	58,000	57,000	53,000	53,000	59,000
1991 JUN	53,000	52,000	51,000	58,000	53,000	54,000	53,000	53,000	61,000
1991 JUL	40,000	50,000	38,000	51,000	38,000	37,000	53,000	53,000	54,000
1991 AUG	56,000	60,000	50,000	59,000	59,000	40,000	57,000	47,000	60,000
1991 SEP	41,000	55,000	38,000	54,000	52,000	41,000	41,000	42,000	49,000
1991 OCT	47,000	56,000	45,000	54,000	55,000	55,000	52,000	52,000	49,000
1991 NOV	47,000	61,000	48,000	58,000	60,000	56,000	50,000	50,000	67,000
1992 JAN	67,000	62,000	65,000	62,000	65,000	64,000	62,000	62,000	74,000
1992 MAR	65,000	65,000	63,000	62,000	65,000	65,000	65,000	65,000	66,000
1992 MAY	61,000	55,000	59,000	58,000	45,000	46,000	59,000	59,000	66,000
1992 JUL	46,000	62,000	52,000	63,000	63,000	65,000	65,000	65,000	65,000
1992 SEP	53,000	53,000	50,000	56,000	49,000	52,000	56,000	56,000	56,000
1992 NOV	53,000	53,000	50,000	56,000	49,000	52,000	56,000	56,000	56,000

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
METALS											
BORON (UG/L)											
DET'N LIMIT = 2.00											
GUIDELINE = 5000 (A1)											
1991 JAN	24.000	23.000	22.000	27.000	28.000	28.000	28.000	29.000	29.000	29.000	29.000
1991 FEB	27.000	21.000	26.000	21.000	34.000	31.000	33.000	18.000	18.000	19.000	19.000
1991 MAR	16.000	22.000	16.000	20.000	20.000	21.000	21.000	23.000	23.000	20.000	20.000
1991 APR	19.000	21.000	27.000	34.000	34.000	25.000	25.000	35.000	35.000	23.000	23.000
1991 MAY	20.000	23.000	20.000	26.000	20.000	14.000	14.000	18.000	18.000	25.000	25.000
1991 JUN	20.000	20.000	20.000	21.000	21.000	16.000	16.000	22.000	22.000	21.000	21.000
1991 JUL	21.000	22.000	21.000	21.000	20.000	20.000	20.000	33.000	33.000	33.000	33.000
1991 AUG	22.000	25.000	22.000	23.000	20.000	20.000	20.000	26.000	26.000	23.000	23.000
1991 SEP	21.000	32.000	26.000	32.000	31.000	28.000	28.000	28.000	28.000	28.000	28.000
1991 OCT	16.000	48.000	21.000	51.000	48.000	44.000	44.000	41.000	41.000	42.000	42.000
1991 NOV	12.000	19.000	17.000	21.000	16.000	21.000	21.000	15.000	15.000	18.000	18.000
1992 JAN	19.000	23.000	19.000	24.000	21.000	26.000	26.000	26.000	26.000	26.000	26.000
1992 MAR	47.000	33.000	33.000	22.000	52.000	26.000	26.000	23.000	23.000	20.000	20.000
1992 MAY	24.000	23.000	23.000	22.000	20.000	18.000	18.000	44.000	44.000	45.000	45.000
1992 JUL	36.000	42.000	22.000	47.000	22.000	20.000	20.000	31.000	31.000	30.000	30.000
1992 SEP	58.000	35.000	35.000	30.000	22.000	22.000	22.000	44.000	44.000	45.000	45.000
1992 NOV	23.000	22.000	22.000	22.000	22.000	20.000	20.000	31.000	31.000	30.000	30.000

BERYLLIUM (UG/L) DET'N LIMIT = 0.05 GUIDELINE = 6800 (04)

1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT TREATED		SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
METALS													
CADMIUM (UG/L)													
DETN LIMIT = 0.05      GUIDELINE = 5.0 (A1)													
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	.060 <T	BDL	.060 <T	BDL	.060 <T	BDL	.060 <T	BDL	.060 <T	BDL	.060 <T	BDL	.060 <T
1991 JUL	.100 <T	BDL	.100 <T	BDL	.090 <T	BDL	.140 <T	BDL	.090 <T	BDL	.150 <T	BDL	.180 <T
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
COBALT (UG/L)													
DETN LIMIT = 0.02      GUIDELINE = N/A													
1991 JAN	.270 <T	.220 <T	.210 <T	.220 <T	.220 <T	.220 <T	.490 <T	.490 <T	.190 <T	.250 <T	.170 <T	.170 <T	.200 <T
1991 FEB	.190 <T	.180 <T	.190 <T	.180 <T	.180 <T	.180 <T	.160 <T	.160 <T	.200 <T	.180 <T	.180 <T	.180 <T	.200 <T
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	.380 <T	.350 <T	.350 <T	.400 <T	.400 <T	.400 <T	.320 <T	.320 <T	.280 <T	.370 <T	.340 <T	.340 <T	.340 <T
1991 JUN	1.100	1.100	1.100	1.200	1.200	1.200	1.000 <T	1.000 <T	1.200	1.100	1.100	1.100	1.100
1991 JUL	.320 <T	.400 <T	.340 <T	.100 <T	.100 <T	.100 <T	.350 <T	.350 <T	.390 <T	.170 <T	.050 <T	.050 <T	.050 <T
1991 AUG	.170 <T	BDL	.150 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	.060 <T	.030 <T	.090 <T	.040 <T	.040 <T	.040 <T	.070 <T	.070 <T	.050 <T	.110 <T	.090 <T	.090 <T	.090 <T
1991 OCT	.100 <T	.100 <T	.100 <T	.100 <T	.100 <T	.100 <T	.030 <T	.030 <T	.030 <T	.030 <T	.030 <T	.030 <T	.030 <T
1991 NOV	.080 <T	.060 <T	.060 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T	.080 <T
1992 JAN	.330 <T	.320 <T	.320 <T	.320 <T	.320 <T	.320 <T	.330 <T	.330 <T	.390 <T	.170 <T	.120 <T	.120 <T	.120 <T
1992 MAR	.450 <T	.470 <T	.470 <T	.470 <T	.470 <T	.470 <T	.360 <T	.360 <T	.460 <T	.500 <T	.300 <T	.300 <T	.300 <T
1992 JUL	.270 <T	.270 <T	.270 <T	.270 <T	.270 <T	.270 <T	.310 <T	.310 <T	.080 <T	.060 <T	.060 <T	.060 <T	.060 <T
1992 SEP	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.040 <T	.040 <T	.040 <T	.040 <T	.040 <T
1992 NOV	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.090 <T	.040 <T	.040 <T	.040 <T	.040 <T	.040 <T

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT		TREATMENT PLANT		DIST. SYSTEM		DIST. SYSTEM		DIST. SYSTEM		
RAW	TREATED	RAW	TREATED	MAIN ST	FREE FLOW	MAIN ST	FREE FLOW	IMPERIAL ST	FREE FLOW	
CHROMIUM (UG/L)		CHROMIUM (UG/L)		CHROMIUM (UG/L)		CHROMIUM (UG/L)		CHROMIUM (UG/L)		
METALS		METALS		METALS		METALS		METALS		
		DETM LIMIT = 0.50		GUIDELINE = 50.0 (A1)						
1991 JAN	3.200 <T	2.000 <T	2.500 <T	3.600 <T	3.900 <T	3.700 <T	3.900 <T	3.700 <T	3.700 <T	
1991 FEB	4.000 <T	1.100 <T	3.400 <T	1.720 <T	5.100	4.800 <T	3.900 <T	BDL	BDL	
1991 MAR	2.000 <T	2.600 <T	1.200 <T	1.500 <T	2.400 <T	2.000 <T	3.200 <T	2.500 <T	2.500 <T	
1991 APR	1.930 <T	4.300 <T	4.300 <T	5.600	5.500	1.700 <T	6.100	2.300 <T	2.300 <T	
1991 MAY	2.900 <T	3.800 <T	2.800 <T	4.100 <T	2.700 <T	BDL	1.300 <T	3.800 <T	3.800 <T	
1991 JUN	1.900 <T	1.830 <T	1.500 <T	1.700 <T	1.700 <T	BDL	1.400 <T	1.300 <T	1.300 <T	
1991 JUL	3.200 <T	2.000 <T	3.000 <T	1.200 <T	2.800 <T	2.900 <T	6.100	6.300	6.300	
1991 AUG	2.300 <T	2.200 <T	1.800 <T	2.800 <T	2.800 <T	1.900 <T	3.000 <T	2.000 <T	2.000 <T	
1991 SEP	1.000 <T	2.900 <T	1.700 <T	2.800 <T	7.800	6.600	5.900	6.200	6.200	
1991 OCT	BDL	7.400	1.300 <T	8.000	7.800	7.800	5.900	6.200	6.200	
1991 NOV	BDL	1.830 <T	BDL	1.770 <T	1.770 <T	1.590 <T	BDL	1.740 <T	1.740 <T	
1992 JAN	BDL	1.100 <T	1.660 <T	1.500 <T	1.940 <T	2.600 <T	1.500 <T	1.700 <T	1.700 <T	
1992 MAR	5.900	3.100 <T	3.100 <T	1.300 <T	7.600	1.700 <T	1.300 <T	1.300 <T	1.300 <T	
1992 MAY	2.600 <T	2.600 <T	2.600 <T	1.300 <T	2.000 <T	BDL	5.200	5.400	5.400	
1992 JUL	3.300 <T	1.100 <T	1.100 <T	7.800	3.500 <T	1.800 <T	8.100	7.900	7.900	
1992 SEP	4.000 <T	4.800 <T	2.600 <T	5.400	3.500 <T	1.800 <T	5.200	5.400	5.400	
1992 NOV	4.000 <T	2.800 <T	3.800 <T	7.800	3.500 <T	1.800 <T	8.100	7.900	7.900	
COPPER (UG/L)										
DETM LIMIT = 0.50										
GUIDELINE = 1000 (A3)										
1991 JAN	1.900 <T	1.200 <T	1.900 <T	1.100 <T	5.500 <T	11.000	31.000	180.000	180.000	
1991 FEB	1.300 <T	1.000 <T	1.000 <T	1.100 <T	4.100 <T	14.000	30.000	230.000	230.000	
1991 MAR	2.000 <T	1.830 <T	8.700 <T	1.200 <T	3.900 <T	8.800	27.000	230.000	230.000	
1991 APR	2.000 <T	1.960 <T	1.600 <T	1.910 <T	5.100	46.000	29.000	190.000	190.000	
1991 MAY	1.600 <T	2.600 <T	2.600 <T	1.600 <T	4.800 <T	24.000	45.000	150.000	150.000	
1991 JUN	2.300 <T	1.300 <T	1.000 <T	1.600 <T	3.300 <T	9.300	23.000	150.000	150.000	
1991 JUL	1.700 <T	1.760 <T	1.600 <T	1.100 <T	2.800 <T	7.200	38.000	290.000	290.000	
1991 AUG	1.900 <T	1.800 <T	7.400	1.500 <T	1.500 <T	7.200	34.000	270.000	270.000	
1991 SEP	1.300 <T	1.960 <T	1.890 <T	1.100 <T	3.400 <T	13.000	31.000	200.000	200.000	
1991 OCT	1.300 <T	1.200 <T	19.000	1.200 <T	3.900 <T	9.800	31.000	270.000	270.000	
1991 NOV	2.100 <T	15.000	11.000	1.800 <T	8.000	21.000	45.000	490.000	490.000	
1992 JAN	2.100 <T	1.100 <T	1.100 <T	1.100 <T	4.000 <T	9.800	48.000	570.000	570.000	
1992 MAR	6.200 <T	6.200 <T	6.200 <T	1.100 <T	4.200 <T	4.200 <T	39.000	39.000	39.000	
1992 MAY	1.100 <T	2.500 <T	1.990 <T	1.990 <T	3.500 <T	7.400	33.000	590.000	590.000	
1992 JUL	2.200 <T	2.000 <T	2.850 <T	1.500 <T	2.600 <T	8.500	29.000	340.000	340.000	
1992 SEP	2.200 <T	1.700 <T	1.700 <T	2.100 <T	2.600 <T	8.500	29.000	340.000	340.000	
1992 NOV	1.900 <T	1.800 <T	2.600 <T	2.100 <T	2.600 <T	8.500	29.000	340.000	340.000	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

IRON (UG/L)	TREATMENT PLANT RAW		TREATMENT PLANT SPRING		DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
	RAW	TREATED	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
1991 JAN	280,000	7,500 <T	74,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11,000 <T	11,000 <T
1991 FEB	260,000	BDL	43,000 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11,000 <T	39,000 <T
1991 MAR	430,000	BDL	180,000	BDL	13,000 <T	BDL	BDL	BDL	BDL	BDL	30,000 <T	31,000 <T
1991 APR	290,000	BDL	55,000 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7,800 <T	14,000 <T
1991 MAY	230,000	BDL	23,000 <T	BDL	BDL	13,000 <T	BDL	BDL	BDL	BDL	37,000 <T	30,000 <T
1991 JUN	240,000	BDL	23,000 <T	BDL	BDL	83,000	BDL	BDL	BDL	BDL	15,000 <T	13,000 <T
1991 JUL	160,000	BDL	19,000 <T	BDL	BDL	26,000 <T	BDL	BDL	BDL	BDL	16,000 <T	16,000 <T
1991 AUG	260,000	7,600 <T	69,000	BDL	9,000 <T	BDL	BDL	BDL	BDL	BDL	7,700 <T	20,000 <T
1991 SEP	160,000	BDL	7,800 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	32,000 <T	22,000 <T
1991 OCT	200,000	BDL	77,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17,000 <T
1991 NOV	130,000	BDL	95,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	37,000 <T
1992 JAN	210,000	6,500 <T	57,000 <T	BDL	7,500 <T	9,800 <T	BDL	BDL	BDL	BDL	7,500 <T	37,000 <T
1992 MAR	280,000	7,100 <T	120,000	BDL	9,200 <T	BDL	BDL	BDL	BDL	BDL	9,400 <T	51,000 <T
1992 MAY	250,000	BDL	32,000 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	240,000	10,000 <T	7,300 <T	BDL	BDL	35,000 <T	BDL	BDL	BDL	BDL	13,000 <T	50,000 <T
1992 SEP	180,000	BDL	6,400 <T	BDL	BDL	11,000 <T	BDL	BDL	BDL	BDL	28,000 <T	25,000 <T
1992 NOV	140,000	BDL	74,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18,000 <T

DETN LIMIT = 6.00 GUIDELINE = 300 (A3)

DETN LIMIT = 0.02 GUIDELINE = 1.0 (A1)

MERCURY (UG/L)	TREATMENT PLANT RAW		TREATMENT PLANT SPRING		DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
	RAW	TREATED	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MANGANESE (UG/L)	DETN LIMIT = 0.05 GUIDELINE = 50.0 (A3)											
1991 JAN	51,000	6,600	7,300	3,600	810	1,100	810	1,100	1,200	1,200	1,900	1,900
1991 FEB	60,000	1,800	5,000	2,000	860	960	860	960	2,000	2,000	2,500	2,500
1991 MAR	130,000	2,700	31,000	9,400	1,700	4,200	1,700	4,200	1,500	1,500	1,900	1,900
1991 APR	70,000	2,500	7,200	3,200	820	820	820	820	1,500	1,500	2,000	2,000
1991 MAY	66,000	2,800	4,400	2,600	2,100	2,100	2,100	2,100	1,300	1,300	2,900	2,900
1991 JUN	260,000	3,800	12,000	2,600	38,000	3,600	38,000	3,600	1,500	1,500	3,400	3,400
1991 JUL	100,000	BDL	4,900	2,200	6,300	7,700	6,300	7,700	1,300	1,300	2,600	2,600
1991 AUG	160,000	5,200	19,000	6,500	1,100	910	1,100	910	3,000	3,000	2,900	2,900
1991 SEP	80,000	2,800	3,800	2,000	1,900	530	1,900	530	1,200	1,200	5,000	5,000
1991 OCT	65,000	1,900	26,000	1,500	1,200	730	1,200	730	1,600	1,600	2,400	2,400
1991 NOV	28,000	1,500	24,000	1,200	860	810	860	810	1,000	1,000	2,200	2,200
1992 JAN	82,000	1,800	6,200	1,900	1,300	1,400	1,300	1,400	1,000	1,000	2,700	2,700
1992 MAR	59,000	3,000	15,000	1,600	4,800	4,800	4,800	4,800	1,500	1,500	2,200	2,200
1992 MAY	74,000	2,500	2,000	2,300	4,800	4,800	4,800	4,800	4,200	4,200	2,900	2,900
1992 JUL	160,000	3,000	9,400	2,700	1,700	1,200	1,700	1,200	1,700	1,700	2,400	2,400
1992 SEP	62,000	2,500	1,200	2,700	1,700	1,200	1,700	1,200	1,700	1,700	2,400	2,400
1992 NOV	35,000	3,000	9,400	2,700	1,700	1,200	1,700	1,200	1,700	1,700	2,400	2,400

DETN LIMIT = 0.05 GUIDELINE = 50.0 (A3)

DETN LIMIT = 1.0 (A1)



TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

METALS		MOLYBDENUM (UG/L)													
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM FREE FLOW			DIST. SYSTEM MAIN ST STANDING			DIST. SYSTEM IMPERIAL ST FREE FLOW			DIST. SYSTEM IMPERIAL ST STANDING		
				DET'N LIMIT = 0.05	GUIDELINE = M/A										
1991 JAN	.930	.140 <	.890	.150 <	.110 <	.160 <	.100 <	.180 <							
1991 FEB	.930	.330 <	1.000	.210 <	.070 <	.210 <	1.000	.950							
1991 MAR	.850	.080 <	.850	.120 <	.220 <	.780	.120 <	.820							
1991 APR	1.000	.930 <	1.000	.130 <	.140 <	.140 <	.150 <	.260 <							
1991 MAY	BOL	BOL	1.000	.110 <	.980	.930	.070 <	BOL							
1991 JUN	.780	.850	.780	.830	BOL	.830	BOL	BOL							
1991 JUL	.680	.140 <	.710	.100 <	.740	.720	.110 <	.160 <							
1991 AUG	.850	.150 <	.840	.130 <			.130 <	.220 <							
1991 SEP	.590	.130 <	.620	.120 <	.130 <	.580	.530	.440 <							
1991 OCT	.570	.140 <	.540	.110 <	.100 <	.110 <	.550	.520							
1991 NOV	.860	.160 <	.810	.150 <	.160 <	.270 <	.730	.250 <							
1992 JAN	1.000	.140 <	.970	.140 <	.130 <	.280 <	.120 <	.200 <							
1992 MAR	1.000	.980		.230 <	.230 <	.240 <									
1992 MAY	.850	.100 <	1.000	.130 <	.700	.680	.170 <	.200 <							
1992 JUL	.600	.230 <	.780	.120 <	.790	.780	.110 <	.100 <							
1992 SEP	.740	.110 <	.790	.100 <			.090 <	.460 <							
1992 NOV	.750														
DET'N LIMIT = 0.20      GUIDELINE = 350 (03)															
MICKEL (UG/L)		MOLYBDENUM (UG/L)													
TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM FREE FLOW			DIST. SYSTEM MAIN ST STANDING			DIST. SYSTEM IMPERIAL ST FREE FLOW			DIST. SYSTEM IMPERIAL ST STANDING		
				DET'N LIMIT = 0.20	GUIDELINE = 350 (03)										
1991 JAN	BOL	BOL	.910 <	.910 <	BOL	BOL	BOL	BOL							
1991 FEB	.850 <	.620 <	1.100 <	1.100 <	BOL	BOL	1.300 <	1.300 <							
1991 MAR	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL							
1991 APR	2.700 <	1.300 <	.970 <	1.600 <	1.800 <	1.800 <	1.100 <	2.600							
1991 MAY	2.000 <	1.200 <	1.680	1.680 <	1.500 <	1.100 <	2.000 <	1.700 <							
1991 JUN	2.000 <	1.200 <	1.400 <	BOL	BOL	2.200	BOL	BOL							
1991 JUL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL							
1991 AUG	.730 <	.460 <	.770 <	.310 <			.450 <	1.000 <							
1991 SEP	BOL	BOL	BOL	.310 <			BOL	BOL							
1991 OCT	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL							
1991 NOV	BOL	BOL	BOL	.730 <	1.100 <	.850 <	.490 <	.500 <							
1992 JAN	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL							
1992 MAR	2.500	BOL	2.100 <	BOL	2.300	1.700 <	BOL	BOL							
1992 MAY	1.300 <	BOL	1.400 <	BOL	3.000	.870 <	.870 <	BOL							
1992 JUL	3.700	1.100 <	3.500 <	1.200 <			7.900	1.600 <							
1992 SEP	.970 <	BOL	.490 <	BOL	BOL	BOL	BOL	BOL							
1992 NOV	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL							

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

LEAD (UG/L)	METALS		DET'N LIMIT = 0.05		GUIDELINE = 10 (A1)		DET'N LIMIT = 0.05		GUIDELINE = 146 (04)		
	TREATMENT PLANT RAW	TREATMENT PLANT SPRING TREATED	TREATMENT PLANT MAIN ST TREATED	TREATMENT PLANT SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	
1991 JAN	.150 <T	BDL	.150 <T	.060 <T	.160 <T	.880	.160 <T	.880	.440 <T	1.900	
1991 FEB	.200 <T	.370 <T	.080 <T	BDL	.150 <T	.790	.150 <T	.790	.200 <T	2.400	
1991 MAR	.210 <T	BDL	4.100	BDL	BDL	1.300	BDL	1.300	.280 <T	2.300	
1991 APR	.200 <T	BDL	.320 <T	BDL	.240 <T	.910	.240 <T	.910	.290 <T	1.500	
1991 MAY	.130 <T	BDL	.440 <T	.130 <T	.430 <T	1.500	.410 <T	1.500	.410 <T	3.600	
1991 JUN	.180 <T	BDL	.200 <T	.080 <T	.240 <T	.410 <T	.240 <T	.410 <T	.360 <T	1.700	
1991 JUL	.130 <T	BDL	.070 <T	BDL	.160 <T	.630	.160 <T	.630	.550	2.500	
1991 AUG	.180 <T	BDL	2.100	.060 <T	.230 <T	.510	.230 <T	.510	.530	2.800	
1991 SEP	.110 <T	BDL	.340 <T	BDL	.170 <T	.470 <T	.170 <T	.470 <T	.490 <T	2.500	
1991 OCT	.140 <T	.070 <T	3.900	.070 <T	.320 <T	.320 <T	.320 <T	.320 <T	.280 <T	2.900	
1991 NOV	.240 <T	.090 <T	3.100	.190 <T	.190 <T	.280 <T	.190 <T	.280 <T	.360 <T	2.900	
1992 JAN	.170 <T	BDL	.960	.080 <T	.200 <T	.280 <T	.200 <T	.280 <T	.360 <T	3.300	
1992 MAR	.150 <T	.090 <T	1.500	.080 <T	.180 <T	.510	.180 <T	.510	.460 <T	2.300	
1992 MAY	.190 <T	.180 <T	.090 <T	.100 <T	.100 <T	.270 <T	.100 <T	.270 <T	.310 <T	2.900	
1992 JUL	.300 <T	BDL	.180 <T	.080 <T	.120 <T	.270 <T	.120 <T	.270 <T	.240 <T	1.800	
1992 SEP	.170 <T	BDL	.510	.080 <T	.120 <T	.270 <T	.120 <T	.270 <T	.240 <T	1.800	
1992 NOV	.190 <T	BDL	.510	.080 <T	.120 <T	.270 <T	.120 <T	.270 <T	.240 <T	1.800	
ANTHONY (UG/L)											
1991 JAN	.340 <T	.270 <T	.280 <T	.250 <T	.990	.310 <T	.250 <T	.990	.260 <T	.390 <T	
1991 FEB	.310 <T	.800	.500 <T	.120 <T	.260 <T	.350 <T	.120 <T	.350 <T	.400 <T	.790	
1991 MAR	.400 <T	.340 <T	.500 <T	.120 <T	.270 <T	.420 <T	.120 <T	.420 <T	.320 <T	.600 <T	
1991 APR	.450 <T	.320	.320 <T	.260 <T	.310 <T	.390 <T	.260 <T	.390 <T	.320 <T	.270 <T	
1991 MAY	.420 <T	.310 <T	.290 <T	.250 <T	.260 <T	.510	.250 <T	.510	.240 <T	.630	
1991 JUN	.680 <T	.450 <T	.350 <T	.300 <T	.660	.350 <T	.300 <T	.660	.350 <T	.610	
1991 JUL	.720 <T	.720 <T	.500 <T	.610	.380 <T	.580	.610	.380 <T	.410 <T	.830	
1991 AUG	.650 <T	.370 <T	.600 <T	.380 <T	.330 <T	.350 <T	.330 <T	.350 <T	.470 <T	.470 <T	
1991 SEP	.330 <T	.340 <T	.340 <T	.310 <T	.330 <T	.350 <T	.310 <T	.350 <T	.440 <T	.480 <T	
1991 OCT	.430 <T	.440 <T	.260 <T	.320 <T	.270 <T	.300 <T	.270 <T	.300 <T	.370 <T	.430 <T	
1991 NOV	.370 <T	.420 <T	.360 <T	.320 <T	.280 <T	.330 <T	.280 <T	.330 <T	.530	.530	
1992 JAN	.640 <T	.740	.640 <T	.450 <T	.680	.540	.680	.540	.400 <T	.740	
1992 MAR	.570	.330 <T	.330 <T	.370 <T	.330 <T	.330 <T	.370 <T	.330 <T	.500 <T	.520	
1992 MAY	.340 <T	.420 <T	.160 <T	.140 <T	.690 <T	.760	.160 <T	.760	.470 <T	.670	
1992 JUL	.480 <T	.400 <T	.400 <T	.380 <T	.450 <T	.390 <T	.400 <T	.390 <T	.320 <T	.670	
1992 SEP	.670 <T	.290 <T	.370 <T	.380 <T	.650 <T	.390 <T	.370 <T	.390 <T	.320 <T	.500 <T	
1992 NOV	.520	.360 <T	.370 <T	.440 <T	.450 <T	.390 <T	.440 <T	.390 <T	.320 <T	.500 <T	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING		DIST. SYSTEM FREE FLOW		DIST. SYSTEM MAIN ST		DIST. SYSTEM FREE FLOW		DIST. SYSTEM MAIN ST		DIST. SYSTEM FREE FLOW		DIST. SYSTEM MAIN ST	
RAW		TREATED		TREATED		TREATED		STANDING		STANDING		STANDING		STANDING	
METALS		METALS		METALS		METALS		METALS		METALS		METALS		METALS	
SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)		SELENIUM (UG/L)	
		DET'N LIMIT = 1.00		GUIDELINE = 10 (A1)											
1991 JAN	BDL	BDL	BDL	BDL	BDL	1,100 <T	2,200 <T	BDL	BDL	1,300 <T	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	1,900 <T	2,000 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	1,300 <T	BDL	1,300 <T	BDL	1,800 <T	1,400 <T	BDL	BDL	2,100 <T	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	1,200 <T	BDL	2,400 <T	BDL	BDL	BDL	BDL	BDL	1,700 <T	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,000 <T	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	1,600 <T	BDL	1,600 <T	BDL	BDL	BDL	BDL	BDL	1,600 <T	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	1,900 <T	BDL	1,300 <T	BDL	1,500 <T	1,800 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	2,000 <T	BDL	1,800 <T	BDL	1,300 <T	1,200 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	1,700 <T	BDL	1,300 <T	BDL	BDL	1,400 <T	1,500 <T	BDL	BDL	1,400 <T	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	1,100 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

STRONTIUM (UG/L) ) DET'N LIMIT = 0.10 GUIDELINE = M/A

1991 JAN	210,000	160,000	220,000	140,000	140,000	150,000	160,000	160,000	160,000	150,000	150,000	150,000	150,000	150,000	150,000
1991 FEB	230,000	150,000	230,000	150,000	150,000	160,000	160,000	180,000	180,000	210,000	210,000	210,000	210,000	200,000	200,000
1991 MAR	230,000	140,000	210,000	160,000	160,000	170,000	170,000	200,000	200,000	140,000	140,000	140,000	140,000	190,000	190,000
1991 APR	220,000	150,000	210,000	150,000	150,000	150,000	160,000	160,000	160,000	130,000	130,000	130,000	130,000	160,000	160,000
1991 MAY	180,000	180,000	180,000	140,000	140,000	140,000	140,000	200,000	200,000	140,000	140,000	140,000	140,000	140,000	140,000
1991 JUN	180,000	130,000	170,000	130,000	130,000	130,000	130,000	180,000	170,000	140,000	140,000	140,000	140,000	130,000	130,000
1991 JUL	170,000	130,000	170,000	130,000	130,000	160,000	160,000	170,000	170,000	140,000	140,000	140,000	140,000	140,000	140,000
1991 AUG	190,000	150,000	190,000	150,000	150,000	150,000	150,000	160,000	160,000	130,000	130,000	130,000	130,000	160,000	160,000
1991 SEP	160,000	140,000	150,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000
1991 OCT	170,000	160,000	160,000	150,000	150,000	150,000	150,000	160,000	160,000	150,000	150,000	150,000	150,000	150,000	150,000
1991 NOV	190,000	150,000	200,000	160,000	160,000	160,000	160,000	170,000	170,000	160,000	160,000	160,000	160,000	160,000	160,000
1992 JAN	230,000	160,000	220,000	160,000	160,000	160,000	160,000	190,000	190,000	180,000	180,000	180,000	180,000	170,000	170,000
1992 MAR	240,000	160,000	250,000	160,000	160,000	190,000	190,000	180,000	180,000	150,000	150,000	150,000	150,000	150,000	150,000
1992 MAY	210,000	150,000	210,000	150,000	150,000	180,000	180,000	180,000	180,000	160,000	160,000	160,000	160,000	170,000	170,000
1992 JUL	190,000	150,000	210,000	160,000	160,000	200,000	200,000	200,000	200,000	150,000	150,000	150,000	150,000	160,000	160,000
1992 SEP	200,000	160,000	210,000	150,000	150,000	200,000	200,000	200,000	200,000	150,000	150,000	150,000	150,000	160,000	160,000
1992 NOV	220,000	140,000	210,000	150,000	150,000	200,000	200,000	200,000	200,000	150,000	150,000	150,000	150,000	160,000	160,000

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
METALS											
TITANIUM (UG/L)											
DETN LIMIT = 0.50      GUIDELINE = N/A											
1991 JAN	9,300	11,000	10,000	11,000	10,000	10,000	10,000	11,000	10,000	11,000	11,000
1991 FEB	12,000	10,000	10,000	10,000	10,000	15,000	15,000	10,000	10,000	10,000	10,000
1991 MAR	13,000	14,000	12,000	16,000	14,000	11,000	11,000	14,000	14,000	11,000	11,000
1991 APR	12,000	16,000	13,000	18,000	17,000	17,000	17,000	19,000	19,000	17,000	17,000
1991 MAY	9,900	16,000	9,900	17,000	8,600	10,000	10,000	17,000	17,000	17,000	17,000
1991 JUN	13,000	15,000	13,000	44,000	13,000	13,000	12,000	47,000	47,000	47,000	47,000
1991 JUL	16,000	22,000	17,000	17,000	17,000	18,000	18,000	22,000	22,000	22,000	22,000
1991 AUG	2,300 <T	1,700 <T	2,200 <T	1,800 <T	1,800 <T	2,600 <T	2,600 <T	2,100 <T	2,100 <T	1,600 <T	1,600 <T
1991 SEP	2,900 <T	3,400 <T	2,900 <T	3,500 <T	3,500 <T	6,400	6,600	3,500 <T	3,500 <T	3,400 <T	3,400 <T
1991 OCT	5,800	6,500	4,900 <T	6,800	6,800	7,700	7,700	5,000 <T	5,000 <T	5,200	5,200
1991 NOV	5,900	7,900	7,400	9,200	9,200	6,800	6,900	6,800	6,800	8,100	8,100
1992 JAN	6,100	5,800	6,900	6,900	6,900	7,000	7,000	7,400	7,400	7,500	7,500
1992 MAR	8,300	7,600	7,600	8,900	8,900	9,000	9,000	21,000	21,000	19,000	19,000
1992 MAY	17,000	16,000	16,000	21,000	21,000	13,000	13,000	9,700	9,700	9,400	9,400
1992 JUL	14,000	16,000	16,000	9,500	9,500	6,100	6,500	7,400	7,400	6,600	6,600
1992 SEP	7,800	7,400	7,400	7,600	7,600	6,100	6,500	7,400	7,400	6,600	6,600
1992 NOV	6,400	7,200	6,700	7,600	7,600	6,100	6,500	7,400	7,400	6,600	6,600
THALLIUM (UG/L)											
DETN LIMIT = 0.05      GUIDELINE = 13 (04)											
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT		SPRING	TREATMENT PLANT	SPRING	DIST. SYSTEM	DIST. SYSTEM	DIST. SYSTEM	DIST. SYSTEM	DIST. SYSTEM
RAW		RAW	TREATED	TREATED	MAIN ST	MAIN ST	MAIN ST	IMPERIAL ST	IMPERIAL ST
		RAW	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	STANDING
URANIUM (UG/L)									
METALS									
) )									
DET'N LIMIT = 0.05									
GUIDELINE = 100 (A1)									
1991 JAN	1,500	<.490	1,300	510	500	560	560	560	560
1991 FEB	1,300	<.430	1,300	430	1,000	480	1,200	1,200	920
1991 MAR	1,400	<.350	1,200	360	480	480	450	450	1,110
1991 APR	1,400	<.400	1,200	410	440	490	420	420	1,570
1991 MAY	1,000	<.360	1,000	390	1,000	1,000	400	400	<.490
1991 JUN	1,000	<.340	1,000	470	1,100	940	460	460	<.470
1991 JUL	1,000	<.430	1,000	370	740	760	410	410	<.430
1991 AUG	1,000	<.440	1,000	450	450	450	420	420	<.580
1991 SEP	670	<.660	660	430	440	650	620	580	580
1991 OCT	680	<.400	610	430	470	510	590	530	530
1991 NOV	1,000	<.510	1,200	510	620	860	880	560	560
1992 JAN	1,700	<.520	1,500	550	570	750	530	660	660
1992 MAR	1,700	<.520	1,700	550	570	750	530	660	660
1992 MAY	1,300	<.350	1,300	480	480	770	490	490	<.690
1992 JUL	850	<.450	1,100	450	450	460	460	460	530
1992 SEP	960	<.410	1,100	420	420	420	420	420	770
1992 NOV	1,200	<.420	1,300	420	1,200	1,200	420	420	420
) )									
DET'N LIMIT = 0.05									
GUIDELINE = N/A									
1991 JAN	380	<.080	170	110	140	090	120	120	<.130
1991 FEB	110	<.300	300	300	300	300	250	320	<.320
1991 MAR	570	BOL	310	BOL	BOL	BOL	070	070	<.170
1991 APR	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 MAY	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 JUN	430	<.110	200	300	300	220	110	120	<.120
1991 JUL	230	<.800	200	BOL	BOL	080	BOL	BOL	BOL
1991 AUG	550	<.270	430	260	130	190	260	300	<.300
1991 SEP	360	<.140	200	150	140	200	200	180	<.180
1991 OCT	310	<.140	230	130	140	120	120	160	<.160
1991 NOV	110	<.070	200	130	140	120	120	160	<.160
1992 JAN	280	<.140	190	130	090	110	110	180	<.180
1992 MAR	280	<.190	190	130	130	170	170	200	<.200
1992 MAY	350	<.130	240	230	130	130	160	160	<.160
1992 JUL	300	<.260	260	230	130	130	150	150	<.150
1992 SEP	410	<.180	190	130	130	130	160	160	<.160
1992 NOV	240	<.060	190	130	130	130	150	150	<.150

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

ZINC (UG/L)	METALS		GUIDELINE = 5000 (A3)							
	TREATMENT PLANT RAW	SPRING TREATED	TREATMENT PLANT RAW	TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING		
1991 JAN	4,800	3,600	3,500	3,300	4,500	13,000	13,000	7,700	35,000	
1991 FEB	4,800	3,000	3,400	2,100	4,700	19,000	19,000	4,300	61,000	
1991 MAR	6,100	2,500	4,200	2,700	4,500	13,000	13,000	6,100	45,000	
1991 APR	3,700	3,300	3,000	2,400	5,100	12,000	12,000	7,200	26,000	
1991 MAY	5,000	4,300	4,200	3,500	3,200	23,000	23,000	10,000	80,000	
1991 JUN	6,100	3,700	3,900	4,300	3,600	13,000	13,000	8,200	44,000	
1991 JUL	3,200	2,700	2,200	2,800	4,100	8,100	8,100	8,300	48,000	
1991 AUG	3,000	1,400 <T	2,600	1,300 <T	4,800	<T	<T	5,900	46,000	
1991 SEP	1,000 <T	1,400 <T	3,968 <T	1,870 <T	1,800	4,200	4,200	4,900	53,000	
1991 OCT	2,000 <T	1,200 <T	3,100	2,500	5,500	5,000	5,000	7,800	35,000	
1991 NOV	5,000	3,700	4,300	2,500	3,400	5,800	5,800	7,400	70,000	
1992 JAN	4,800	3,700	3,800	2,000 <T	3,600	5,800	5,800	8,900	99,000	
1992 MAR	4,500	3,800	3,800	3,800	3,800	4,500	4,500	13,000	34,000	
1992 MAY	6,000	3,500	4,500	2,900	3,700	8,700	8,700	7,000	50,000	
1992 JUL	5,500	4,000	3,800	2,800	1,700 <T	4,500	4,500	5,000	38,000	
1992 SEP	5,300	1,200 <T	1,600 <T	840 <T	1,700 <T	4,500	4,500	5,000	38,000	
1992 NOV	3,200	1,200 <T	1,600 <T	840 <T	1,700 <T	4,500	4,500	5,000	38,000	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING TREATED	DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP	SPRING TREATED	DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP	SPRING TREATED	DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP	SPRING TREATED	DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP	SPRING TREATED	DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP
RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW
CHLOROPARACETAMOL										
HEXACHLOROCYCLOTRIN (NG/L)										
DET'N LIMIT = 1,000      GUIDELINE = 450 (O4)										
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
123-TRICHLOROBENZENE (NG/L)										
DET'N LIMIT = 5,000      GUIDELINE = N/A										
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1234-TETCLOBENZENE (NG/L)										
DET'N LIMIT = 1,000      GUIDELINE = N/A										
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1235-TETCLOBENZENE (NG/L)										
DET'N LIMIT = 1,000      GUIDELINE = N/A										
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
124-TRICHLOROBENZENE (NG/L)										
DET'N LIMIT = 5,000      GUIDELINE = 10000 (I)										
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1245-TETCLOBENZENE (NG/L)										
DET'N LIMIT = 1,000      GUIDELINE = 38000 (O4)										
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
135-TRICHLOROBENZENE (NG/L)										
DET'N LIMIT = 5,000      GUIDELINE = N/A										
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACHLOROBENZENE (NG/L)										
DET'N LIMIT = 1,000      GUIDELINE = 10 (CT)										
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		SPRING TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
CHLORODROMATICS							
HEMACHLOROETHANE (NG/L )							
DETM LIMIT = 1,000      GUIDELINE = 1900 (D4)							
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	10,000 <T	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 AUG	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 SEP	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 OCT	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	2,000 <T	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	2,000 <T	BDL	BDL	BDL	BDL	BDL
DETM LIMIT = 1,000      GUIDELINE = N/A							
OCTACHLOROSTYRENE (NG/L )							
DETM LIMIT = 1,000							
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PENTACHLOROBENZENE (NG/L )							
DETM LIMIT = 1,000      GUIDELINE = 70000 (D4)							
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
236-TRICHLOROTOLUENE (NG/L )							
DETM LIMIT = 5,000      GUIDELINE = N/A							
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
245-TRICHLOROTOLUENE (NG/L )							
DETM LIMIT = 5,000      GUIDELINE = N/A							
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26A-TRICHLOROTOLUENE (NG/L )							
DETM LIMIT = 5,000      GUIDELINE = N/A							
66 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL



TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
CHLOROPHENOLS							
234-TRICHLOROPHENOL (NG/L )				GUIDELINE = N/A			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2345-TETCHLOROPHENOL (NG/L )				GUIDELINE = N/A			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2356-TETCHLOROPHENOL (NG/L )				GUIDELINE = N/A			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
245-TRICHLOROPHENOL (NG/L )				GUIDELINE = 2600000 (D4)			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
246-TRICHLOROPHENOL (NG/L )				GUIDELINE = 5000 (A1)			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PENTACHLOROPHENOL (NG/L )				GUIDELINE = 60000 (A1)			
7 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

PESTICIDES AND PCB		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
ALDRIN (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
63 SAMPLES											
DET*N LIMIT = 1.000 GUIDELINE = 700 (A1)											
ALPHA BHC (NG/L)											
DET*N LIMIT = 1.000 GUIDELINE = 700 (G)											
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 AUG	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 SEP	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 OCT	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW	FAW
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BETA BHC (NG/L)											
DET*N LIMIT = 1.00 GUIDELINE = 300 (G)											
66 SAMPLES											
LINDANE (GAMMA BHC) (NG/L)											
DET*N LIMIT = 1.000 GUIDELINE = 4000 (A1)											
63 SAMPLES											
ALPHA CHLORDANE (NG/L)											
DET*N LIMIT = 2.000 GUIDELINE = 7000 (A1)											
66 SAMPLES											
GAMMA CHLORDANE (NG/L)											
DET*N LIMIT = 2.00 GUIDELINE = 7000 (A1)											
66 SAMPLES											
DIELDRIN (NG/L)											
DET*N LIMIT = 2.00 GUIDELINE = 700 (A1)											
66 SAMPLES											
METHOXYCHLOR (NG/L)											
DET*N LIMIT = 5.0 GUIDELINE = 900000 (A1)											
66 SAMPLES											

TABLE 4  
 DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	TREATMENT PLANT SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
PESTICIDES AND PCB					
ENDOSULFAN 1 (NG/L )	DET'N LIMIT = 2.00	GUIDELINE = 74000 (D4)			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN 11 (NG/L )	DET'N LIMIT = 5.000	GUIDELINE = 74000 (D4)			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
ENDRIN (NG/L )	DET'N LIMIT = 5.000	GUIDELINE = 1600 (D3)			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN SULPHATE (NG/L )	DET'N LIMIT = 5.00	GUIDELINE = M/A			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL
HEPTACHLOR EPOXIDE (NG/L )	DET'N LIMIT = 1.000	GUIDELINE = 3000 (A1)			
46 SAMPLES	BDL	BDL	BDL	BDL	BDL
HEPTACHLOR (NG/L )	DET'N LIMIT = 1.000	GUIDELINE = 3000 (A1)			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
MIREX (NG/L )	DET'N LIMIT = 5.000	GUIDELINE = M/A			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
OXYCHLORDANE (NG/L )	DET'N LIMIT = 2.000	GUIDELINE = M/A			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
O,P-DDT (NG/L )	DET'N LIMIT = 5.000	GUIDELINE = 30000 (A1)			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
PCB (NG/L )	DET'N LIMIT = 20.00	GUIDELINE = 3000 (A2)			
66 SAMPLES	BDL	BDL	BDL	BDL	BDL
P,p-DDD (NG/L )	DET'N LIMIT = 5.000	GUIDELINE = 30000 (A1)			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL
P,p-DDE (NG/L )	DET'N LIMIT = 1.000	GUIDELINE = 30000 (A1)			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
PESTICIDES AND PCB								
P,P'-DDT (NG/L)					DET'N LIMIT = 5,000		GUIDELINE = 30000 (A1)	
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOXAPHENE (NG/L)					DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)	
43 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AMETHRINE (NG/L)					DET'N LIMIT = 50.0		GUIDELINE = 300000 (D3)	
44 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ATRAZINE (NG/L)					DET'N LIMIT = 50.0		GUIDELINE = 60000 (A2)	
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	PPE	BDL	PPE	BDL	BDL	BDL	BDL
1991 MAR	BDL	PPE	BDL	PPE	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	120,000 <T	BDL	130,000 <T	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	IAW	BDL	IAW	IAW	IAW	IAW	IAW
1991 SEP	BDL	IAW	BDL	IAW	IAW	IAW	IAW	IAW
1991 OCT	BDL	IAW	BDL	IAW	IAW	IAW	IAW	IAW
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	140,000 <T	BDL	50,000 <T	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ATRATONE (NG/L)					DET'N LIMIT = 50.0		GUIDELINE = N/A	
42 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CYANAZINE (BLADEX) (NG/L)					DET'N LIMIT = 100.0		GUIDELINE = 10000 (A2)	
44 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DESETHYL ATRAZINE (NG/L)					DET'N LIMIT = 200.0		GUIDELINE = 60000 (A2)	
44 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DESETHYL SIMAZINE (NG/L)					DET'N LIMIT = 200.0		GUIDELINE = 10000 (A2)	
42 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
PESTICIDES AND PCB							
PROMETONE (NG/L)		DIET'N LIMIT = 50,000		GUIDELINE = 52500 (03)			
44 SAMPLES	BDL	BDL	BDL	BDL			
PROPAGAZINE (NG/L)		DIET'N LIMIT = 50,000		GUIDELINE = 700000 (03)			
44 SAMPLES	BDL	BDL	BDL	BDL			
PROMETRYNE (NG/L)		DIET'N LIMIT = 50,000		GUIDELINE = 1000 (A2)			
44 SAMPLES	BDL	BDL	BDL	BDL			
METRIBUZIN (SENCOR) (NG/L)		DIET'N LIMIT = 100.0		GUIDELINE = 80000 (A1)			
44 SAMPLES	BDL	BDL	BDL	BDL			
SIMAZINE (NG/L)		DIET'N LIMIT = 50.00		GUIDELINE = 10000 (A2)			
44 SAMPLES	BDL	BDL	BDL	BDL			
ALACHLOR (LASSO) (NG/L)		DIET'N LIMIT = 500.0		GUIDELINE = 5000 (A2)			
44 SAMPLES	BDL	BDL	BDL	BDL			
METOLACHLOR (NG/L)		DIET'N LIMIT = 500.0		GUIDELINE = 50000 (A2)			
44 SAMPLES	BDL	BDL	BDL	BDL			
HEXACHLOROCYCLOPENTADIEN (NG/L)							
		DIET'N LIMIT = 5.00		GUIDELINE = 206000 (04)			
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	42,000 <T	
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	
1991 MAY	BDL	200,000	BDL	BDL	BDL	15,000 <T	
1991 JUN	IQU	IQU	IQU	8,000 <T	IQU	8,000 <T	
1991 JUL	IAM	IAM	IAM	IAM	IAM	IAM	
1991 AUG	IAM	IAM	IAM	IAM	IAM	IAM	
1991 SEP	IAM	IAM	IAM	IAM	IAM	IAM	
1991 OCT	IAM	IAM	IAM	IAM	IAM	IAM	
1991 NOV	BDL	196,000	BDL	BDL	BDL	22,000 <T	
1992 JAN	BDL	76,000	BDL	BDL	BDL	BDL	
1992 MAR	BDL	150,000	IQU	IQU	IQU	IQU	
1992 MAY	IQU	IQU	IQU	IQU	IQU	IQU	
1992 SEP	IQU	IQU	IQU	IQU	IQU	IQU	
1992 NOV	IQU	IQU	IQU	IQU	IQU	IQU	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST		DIST. SYSTEM MAIN ST		DIST. SYSTEM IMPERIAL ST		DIST. SYSTEM IMPERIAL ST	
				FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
PHENOLICS											
) PHENOLICS (UG/L											
DET'N LIMIT = 0.2 GUIDELINE = N/A											
1991 JAN	.800 <T	.600 <T	.600 <T	.600 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T
1991 FEB	1.000 <T	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 MAR	.400 <T	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 APR	.800 <T	.800 <T	.800 <T	.800 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 MAY	.400 <T	.400 <T	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 JUN	1.400	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 JUL	.400 <T	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 AUG	2.000	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 SEP	2.600	BOL	.600 <T	.600 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T
1991 OCT	1.200	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1991 NOV	.400 <T	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1992 JAN	BOL	BOL	.800 <T	.800 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1992 MAR	BOL	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1992 MAY	BOL	BOL	.400 <T	.400 <T	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1992 JUL	.600 <T	BOL	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T
1992 SEP	BOL	BOL	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T	.800 <T
1992 NOV	1.000 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T	.600 <T

TABLE 4  
 DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
POLYAROMATIC HYDROCARBONS							
PHENANTHRENE (NG/L)		DET'M LIMIT = 10.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ANTHRACENE (NG/L)		DET'M LIMIT = 1.0		GUIDELINE = N/A			
33 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
FLUORANTHENE (NG/L)		DET'M LIMIT = 20.0		GUIDELINE = 42000 (04)			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PYRENE (NG/L)		DET'M LIMIT = 20.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BENZO(A)ANTHRACENE (NG/L)		DET'M LIMIT = 20.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CHRYSENE (NG/L)		DET'M LIMIT = 50.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMETH. BENZ(A)ANTHR (NG/L)		DET'M LIMIT = 5.0		GUIDELINE = N/A			
33 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BENZO(E) PYRENE (NG/L)		DET'M LIMIT = 50.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BENZO(G) FLUORANTHEN (NG/L)		DET'M LIMIT = 10.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PERTYLENE (NG/L)		DET'M LIMIT = 10.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BENZO(K) FLUORANTHEN (NG/L)		DET'M LIMIT = 1.0		GUIDELINE = N/A			
39 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BENZO(A) PYRENE (NG/L)		DET'M LIMIT = 5.0		GUIDELINE = 10 (A1)			
33 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
POLYAROMATIC HYDROCARBONS							
DET'N LIMIT = 20.0 GUIDELINE = N/A							
BENZO(G, H, I) PERYLEN (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
39 SAMPLES							
DET'N LIMIT = 10.0 GUIDELINE = N/A							
DIBENZO(A, H) ANTHRAC (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
39 SAMPLES							
DET'N LIMIT = 20.0 GUIDELINE = N/A							
INDENO(1,2,3-C,D) PY (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
39 SAMPLES							
DET'N LIMIT = 2.0 GUIDELINE = N/A							
BENZO(G) CHRYSENE (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
39 SAMPLES							
DET'N LIMIT = 10.0 GUIDELINE = N/A							
CORONENE (NG/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
39 SAMPLES							



TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
23 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-T (NG/L)		DET'N LIMIT = 50.0	GUIDELINE = 280000 (A1)			
7 SAMPLES	BDL	BDL	BDL			
2,4-D (NG/L)		DET'N LIMIT = 100.0	GUIDELINE = 100000 (A1)			
7 SAMPLES	BDL	BDL	BDL			
2,4-DB (NG/L)		DET'N LIMIT = 200.0	GUIDELINE = N/A			
7 SAMPLES	BDL	BDL	BDL			
2,4 D PROPIONIC ACID (NG/L)		DET'N LIMIT = 100.0	GUIDELINE = N/A			
7 SAMPLES	BDL	BDL	BDL			
DICAMBA (NG/L)		DET'N LIMIT = 50.0	GUIDELINE = 120000 (A1)			
7 SAMPLES	BDL	BDL	BDL			
PICHLORAM (NG/L)		DET'N LIMIT = 100.00	GUIDELINE = 190000 (A2)			
4 SAMPLES	BDL	BDL	BDL			
2,4,5-TP (STLVEK) (NG/L)		DET'N LIMIT = 20.00	GUIDELINE = 10000 (A1)			
7 SAMPLES	BDL	BDL	BDL			
DIAZINON (NG/L)		DET'N LIMIT = 20.0	GUIDELINE = 20000 (A1)			
8 SAMPLES	BDL	BDL	BDL			
DICHLOROVOS (NG/L)		DET'N LIMIT = 20.0	GUIDELINE = N/A			
8 SAMPLES	BDL	BDL	BDL			
CHLORPYRIFOS (NG/L)		DET'N LIMIT = 20.0	GUIDELINE = N/A			
8 SAMPLES	BDL	BDL	BDL			
ETHION (NG/L)		DET'N LIMIT = 20.0	GUIDELINE = 35000 (G)			
8 SAMPLES	BDL	BDL	BDL			

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM MAIN ST. FREE FLOW	DIST. SYSTEM MAIN ST. STANDING	DIST. SYSTEM IMPERIAL ST. FREE FLOW	DIST. SYSTEM IMPERIAL ST. STANDING
SPECIFIC PESTICIDES							
AZINPHOS-METHYL (NG/L )							
2 SAMPLES	BDL	INP	BDL	BDL			
				GUIDELINE = N/A			
MALATHION (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = 190000 (A1)			
MEVINPHOS (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = N/A			
METHYL PARATHION (NG/L )							
8 SAMPLES	BDL	BDL	50.0	BDL			
				GUIDELINE = 9000 (O3)			
METHYLTRITHION (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = N/A			
PARATHION (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = 50000 (A1)			
PHORATE (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = 2000 (A2)			
RELDAN (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = N/A			
RONNEL (NG/L )							
8 SAMPLES	BDL	BDL	20.0	BDL			
				GUIDELINE = N/A			
CARBOFUAN (NG/L )							
8 SAMPLES	BDL	BDL	2000.0	BDL			
				GUIDELINE = 90000 (A1)			
CHLOROPHOSAM (CIPC) (NG/L )							
8 SAMPLES	BDL	BDL	2000.0	BDL			
				GUIDELINE = 350000 (G)			
DIALLATE (NG/L )							
8 SAMPLES	BDL	BDL	2000.0	BDL			
				GUIDELINE = N/A			

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM		DIST. SYSTEM	
				MAIN ST FREE FLOW	STANDING	MAIN ST FREE FLOW	IMPERIAL ST STANDING
SPECIFIC PESTICIDES							
EPTAK (NG/L )		DET'N LIMIT = 2000.0		BDL		GUIDELINE = N/A	
8 SAMPLES	BDL	BDL	BDL	BDL			
IPC (NG/L )		DET'N LIMIT = 2000.0		BDL		GUIDELINE = N/A	
8 SAMPLES	BDL	BDL	BDL	BDL			
PROPOXUR (NG/L )		DET'N LIMIT = 2000.0		BDL		GUIDELINE = 140000 (D3)	
8 SAMPLES	BDL	BDL	BDL	BDL			
CARBARYL (NG/L )		DET'N LIMIT = 200.0		BDL		GUIDELINE = 90000 (A1)	
8 SAMPLES	BDL	BDL	BDL	BDL			
BUTYLATE (NG/L )		DET'N LIMIT = 2000.0		BDL		GUIDELINE = 245000 (D3)	
8 SAMPLES	BDL	BDL	BDL	BDL			

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW		VOLATILES		TREATMENT PLANT SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
BENZENE (UG/L)	93 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DETN'L LIMIT = 0.05      GUIDELINE = 5 (A1)													
TOUENE (UG/L)													
DETN'L LIMIT = 0.05      GUIDELINE = 24 (A3)													
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DETN'L LIMIT = 0.05      GUIDELINE = 2.4 (A3)													
ETHYLBENZENE (UG/L)													
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DETN'L LIMIT = 0.10      GUIDELINE = 300 (A3*)													
P-XYLENE (UG/L)													
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

M-XYLENE (UG/L)	TREATMENT PLANT RAW		TREATMENT PLANT TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST STANDING	
	RAW	SPRING	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
VOLATILES										
DET'N LIMIT = 0.10      GUIDELINE = 300 (A3*)										
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DET'N LIMIT = 0.05      GUIDELINE = 300 (A3*)										
1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	TREATMENT PLANT SPRING RAW	TREATMENT PLANT SPRING TREATED	DIST. SYSTEM MAIN ST		DIST. SYSTEM FREE FLOW		DIST. SYSTEM IMPERIAL ST	DIST. SYSTEM IMPERIAL ST STANDING
			MAIN ST	STANDING	FREE FLOW	STANDING		

VOLATILES

STYRENE (UG/L ) DET'M LIMIT = 0.05 GUIDELINE = 100 (01)

1991 JAN	BDL	.150 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	.100 <T	BDL	.100 <T	BDL	.050 <T	BDL	.050 <T	BDL
1991 MAR	BDL	.150 <T	BDL	.300 <T	BDL	.050 <T	BDL	.150 <T	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	.100 <T	BDL	BDL	BDL	.050 <T	BDL	.050 <T	BDL
1991 JUN	BDL	.050 <T	BDL	.150 <T	BDL	.150 <T	BDL	.250 <T	BDL
1991 JUL	BDL	.150 <T	BDL	.350 <T	BDL	.100 <T	BDL	.200 <T	BDL
1991 AUG	BDL	.200 <T	BDL	.250 <T	BDL	.050 <T	BDL	.100 <T	BDL
1991 SEP	BDL	.250 <T	BDL	.100 <T	BDL	.100 <T	BDL	.100 <T	BDL
1991 OCT	BDL	.050 <T	BDL	.050 <T	BDL	.100 <T	BDL	.100 <T	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	.250 <T	BDL	.200 <T	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	.050 <T	BDL	.050 <T	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	.150 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	.100 <T	BDL	.150 <T	BDL	.300 <T	BDL	.350 <T	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

1,1-DICHLOROETHYLENE (UG/L ) DET'M LIMIT = 0.100 GUIDELINE = 7 (01)

93 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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METHYLENE CHLORIDE (UG/L ) DET'M LIMIT = 0.50 GUIDELINE = 50 (A1)

93 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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1,1-DICHLOROETHYLENE (UG/L ) DET'M LIMIT = 0.10 GUIDELINE = 70 (01)

1991 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI MTP

VOLATILES		1,1-DICHLOROETHANE (UG/L)		93 SAMPLES		CHLOROFORM (UG/L)		DET'N LIMIT = 0.100		GUIDELINE = N/A		DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)	
TREATMENT PLANT RAW	SPRING RAW	TREATED	TREATED	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
		SPRING TREATED		TREATMENT PLANT TREATED		SPRING TREATED		DIST. SYSTEM MAIN ST FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM IMPERIAL ST FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
1991 JAN	BDL	<.200	<.200	78.900	5.500	1.700	5.500	BDL	1.700	BDL	5.500	BDL	1.700	BDL	5.500
1991 FEB	BDL	<.200	<.200	82.900	4.600	1.500	4.600	BDL	1.500	BDL	4.600	BDL	1.500	BDL	4.600
1991 MAR	BDL	<.200	<.200	42.900	4.600	4.300	4.600	BDL	4.300	BDL	4.300	BDL	4.300	BDL	4.300
1991 APR	BDL	<.200	<.200	130.500	8.000	2.000	8.000	BDL	2.000	BDL	8.000	BDL	2.000	BDL	8.000
1991 MAY	BDL	<.300	<.300	128.850	7.100	24.700	7.100	BDL	24.700	BDL	7.100	BDL	24.700	BDL	7.100
1991 JUN	BDL	<.400	<.400	77.600	9.700	55.800	9.700	BDL	55.800	BDL	9.700	BDL	55.800	BDL	9.700
1991 JUL	BDL	<.400	<.400	73.100	10.300	59.700	10.300	BDL	59.700	BDL	10.300	BDL	59.700	BDL	10.300
1991 AUG	BDL	<.400	<.400	111.900	13.400	2.100	13.400	BDL	2.100	BDL	13.400	BDL	2.100	BDL	13.400
1991 SEP	BDL	<.400	<.400	110.600	13.300	3.000	13.300	BDL	3.000	BDL	13.300	BDL	3.000	BDL	13.300
1991 OCT	BDL	<.200	<.200	103.600	BDL	2.400	BDL	BDL	2.400	BDL	BDL	BDL	2.400	BDL	BDL
1991 NOV	BDL	<.200	<.200	82.400	8.300	10.900	8.300	BDL	10.900	BDL	8.300	BDL	10.900	BDL	8.300
1992 JAN	BDL	<.200	<.200	61.000	7.400	2.500	7.400	BDL	2.500	BDL	7.400	BDL	2.500	BDL	7.400
1992 MAR	BDL	<.200	<.200	96.200	9.200	4.200	9.200	BDL	4.200	BDL	9.200	BDL	4.200	BDL	9.200
1992 MAY	BDL	<.300	<.300	IAV	8.200	BDL	8.200	BDL	BDL	BDL	8.200	BDL	BDL	BDL	8.200
1992 JUL	BDL	1.100	100.400	100.400	9.900	48.300	9.900	BDL	48.300	BDL	9.900	BDL	48.300	BDL	9.900
1992 SEP	BDL	2.200	90.500	90.500	2.400	53.000	2.400	BDL	53.000	BDL	2.400	BDL	53.000	BDL	2.400
1992 NOV	BDL	2.200	90.500	90.500	2.400	53.000	2.400	BDL	53.000	BDL	2.400	BDL	53.000	BDL	2.400
GUIDELINE = 200 (D1)															
11,1,TRICHLOROETHANE (UG/L)		DET'N LIMIT = 0.02		93 SAMPLES <td colspan="2">CHLOROFORM (UG/L) <td colspan="2">DET'N LIMIT = 0.100</td> <td colspan="2">GUIDELINE = N/A</td> <td colspan="2">DET'N LIMIT = 0.10</td> <td colspan="2">GUIDELINE = 350 (A1+)</td> </td>		CHLOROFORM (UG/L) <td colspan="2">DET'N LIMIT = 0.100</td> <td colspan="2">GUIDELINE = N/A</td> <td colspan="2">DET'N LIMIT = 0.10</td> <td colspan="2">GUIDELINE = 350 (A1+)</td>		DET'N LIMIT = 0.100		GUIDELINE = N/A		DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)	
1991 JAN	BDL	<.160	<.160	BDL	1.600	1.600	BDL	1.600	BDL	1.600	BDL	1.600	BDL	1.600	BDL
1991 FEB	BDL	<.180	<.180	BDL	1.800	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL
1991 MAR	BDL	<.180	<.180	BDL	1.800	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL
1991 APR	BDL	<.180	<.180	BDL	1.800	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL	1.800	BDL
1991 MAY	BDL	<.220	<.220	BDL	2.200	2.200	BDL	2.200	BDL	2.200	BDL	2.200	BDL	2.200	BDL
1991 JUN	BDL	<.280	<.280	BDL	2.800	2.800	BDL	2.800	BDL	2.800	BDL	2.800	BDL	2.800	BDL
1991 JUL	BDL	<.340	<.340	BDL	3.400	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL
1991 AUG	BDL	<.340	<.340	BDL	3.400	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL
1991 SEP	BDL	<.360	<.360	BDL	3.600	3.600	BDL	3.600	BDL	3.600	BDL	3.600	BDL	3.600	BDL
1991 OCT	BDL	<.340	<.340	BDL	3.400	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL
1991 NOV	BDL	<.340	<.340	BDL	3.400	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL	3.400	BDL
1992 JAN	BDL	<.400	<.400	BDL	4.000	4.000	BDL	4.000	BDL	4.000	BDL	4.000	BDL	4.000	BDL
1992 MAR	BDL	<.360	<.360	BDL	3.600	3.600	BDL	3.600	BDL	3.600	BDL	3.600	BDL	3.600	BDL
1992 MAY	BDL	<.600	<.600	BDL	6.000	6.000	BDL	6.000	BDL	6.000	BDL	6.000	BDL	6.000	BDL
1992 JUL	BDL	1.720	170.720	170.720	7.400	7.400	7.400	BDL	7.400	BDL	7.400	BDL	7.400	BDL	7.400
1992 SEP	BDL	1.720	170.720	170.720	7.400	7.400	7.400	BDL	7.400	BDL	7.400	BDL	7.400	BDL	7.400
1992 NOV	BDL	1.720	170.720	170.720	7.400	7.400	7.400	BDL	7.400	BDL	7.400	BDL	7.400	BDL	7.400
GUIDELINE = 200 (D1)															





TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI, WTP

VOLATILES		DET'N LIMIT = 0.05		GUIDELINE = 350 (A1+)		DIST. SYSTEM		DIST. SYSTEM	
TREATMENT PLANT	SPRING	TREATMENT PLANT	TREATED	SPRING	TREATED	MAIN ST	STANDING	MAIN ST	STANDING
RAW	RAW	TREATED	TREATED	TREATED	TREATED	FREE FLOW	STANDING	FREE FLOW	STANDING
1991 JAN	BDL	BDL	9.350	7.300	1.350			.750	
1991 FEB	BDL	.100 <T	9.600	6.000	1.400			4.750	
1991 MAR	BDL	6.200	6.200	6.250	1.400			1.000	
1991 APR	BDL	.050 <T	10.650	8.500	1.900			1.300	
1991 MAY	BDL	.100 <T	10.900	8.800	6.500			1.200	
1991 JUN	BDL	BDL	9.700	9.400	6.600			1.900	
1991 JUL	BDL	10.500	9.750	9.750	7.500			1.550	
1991 AUG	BDL	.150 <T	12.300	11.350				1.650	
1991 SEP	BDL	BDL	14.300	10.900	1.900			7.700	
1991 OCT	BDL	BDL	11.900	9.100	2.000			7.500	
1991 NOV	BDL	BDL	10.050	8.950	9.600			7.700	
1992 JAN	BDL	BDL	9.200	9.100	.700			1.500	
1992 MAR	BDL	BDL	11.500	10.400	1.500				
1992 MAY	BDL	BDL	8.700	8.700				.900 UNF	
1992 JUL	BDL	1AW		7.700				2.500	
1992 SEP	BDL	.200 <T	14.300	9.600				1.950	
1992 NOV	BDL	.500 <T	10.650	.550 <T	6.450				
112-TRICHLOROETHANE (UG/L) )									
		DET'N LIMIT = 0.05		GUIDELINE = 0.6 (04)					
1991 JAN	BDL	BDL	BDL	BDL	BDL			BDL	
1991 FEB	BDL	.050 <T	BDL	.050 <T	.050 <T			BDL	
1991 MAR	BDL	BDL	BDL	BDL	BDL			BDL	
1991 APR	BDL	BDL	BDL	BDL	BDL			BDL	
1991 MAY	BDL	BDL	BDL	BDL	BDL			BDL	
1991 JUN	BDL	.100 <T	BDL	.100 <T	.100 <T			.100 <T	
1991 JUL	BDL	BDL	BDL	BDL	BDL			BDL	
1991 AUG	BDL	.100 <T	BDL	.100 <T	.100 <T			.100 <T	
1991 SEP	BDL	BDL	BDL	BDL	BDL			BDL	
1991 OCT	BDL	BDL	BDL	BDL	BDL			BDL	
1991 NOV	BDL	BDL	BDL	BDL	BDL			BDL	
1992 JAN	BDL	BDL	BDL	BDL	BDL			BDL	
1992 MAR	BDL	BDL	BDL	BDL	BDL			BDL	
1992 MAY	BDL	BDL	BDL	BDL	BDL			BDL	
1992 JUL	BDL	BDL	1AW	BDL	BDL			BDL	
1992 SEP	BDL	BDL	BDL	BDL	BDL			.100 <T	
1992 NOV	BDL	BDL	BDL	.050 <T	BDL			.100 <T	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

VOLATILES		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT		TREATMENT PLANT			
CHLORODIBROMOMETHANE (UG/L)		RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED		
		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10		DET*N LIMIT = 0.10			
		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)		GUIDELINE = 350 (A1+*)			
YEAR	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	
1991	JAN	BOL	.600 <T	6.500	1.600	.900 <T	6.500	1.600	.900 <T	.900 <T	6.500	1.600	.900 <T	.900 <T	6.500	1.600	.900 <T	.900 <T	6.500	1.600	
1991	FEB	BOL	.700 <T	5.500	1.400	.800 <T	5.500	1.400	.800 <T	.800 <T	5.500	1.400	.800 <T	.800 <T	5.500	1.400	.800 <T	.800 <T	5.500	1.400	
1991	MAR	BOL	.500 <T	5.600	.800 <T	5.600	.800 <T	5.600	.800 <T	.500 <T	5.600	.800 <T	.500 <T	5.600	.800 <T	5.600	.800 <T	.500 <T	5.600	.800 <T	
1991	APR	BOL	.500 <T	6.700	1.500	.300 <T	6.700	1.500	.300 <T	.500 <T	6.700	1.500	.300 <T	.500 <T	6.700	1.500	.300 <T	.500 <T	6.700	1.500	
1991	MAY	BOL	.600 <T	6.600	.600 <T	6.600	.600 <T	6.600	.600 <T	.600 <T	6.600	.600 <T	.600 <T	6.600	.600 <T	6.600	.600 <T	.600 <T	6.600	.600 <T	
1991	JUN	BOL	.700 <T	6.800	.400 <T	6.800	.400 <T	6.800	.400 <T	.700 <T	6.800	.400 <T	.700 <T	6.800	.400 <T	6.800	.400 <T	.700 <T	6.800	.400 <T	
1991	JUL	BOL	.900 <T	7.500	.600 <T	7.500	.600 <T	7.500	.600 <T	.900 <T	7.500	.600 <T	.900 <T	7.500	.600 <T	7.500	.600 <T	.900 <T	7.500	.600 <T	
1991	AUG	BOL	.800 <T	7.400	.800 <T	7.400	.800 <T	7.400	.800 <T	.800 <T	7.400	.800 <T	.800 <T	7.400	.800 <T	7.400	.800 <T	.800 <T	7.400	.800 <T	
1991	SEP	BOL	1.500	7.900	1.900	7.900	1.900	7.900	1.900	1.500	7.900	1.900	1.500	7.900	1.900	7.900	1.900	1.500	7.900	1.900	
1991	OCT	BOL	.900 <T	5.800	1.900	5.800	1.900	5.800	1.900	.900 <T	5.800	1.900	.900 <T	5.800	1.900	5.800	1.900	.900 <T	5.800	1.900	
1991	NOV	BOL	.600 <T	6.900	6.800	6.900	6.800	6.900	6.800	.600 <T	6.900	6.800	.600 <T	6.900	6.800	6.900	6.800	.600 <T	6.900	6.800	
1992	JAN	BOL	.800 <T	8.400	.500 <T	8.400	.500 <T	8.400	.500 <T	.800 <T	8.400	.500 <T	.800 <T	8.400	.500 <T	8.400	.500 <T	.800 <T	8.400	.500 <T	
1992	MAR	BOL	.700 <T	8.400	1.700	8.400	1.700	8.400	1.700	.700 <T	8.400	1.700	.700 <T	8.400	1.700	8.400	1.700	.700 <T	8.400	1.700	
1992	MAY	BOL	1AW	6.700	.600 <T	6.700	.600 <T	6.700	.600 <T	1AW	6.700	.600 <T	1AW	6.700	.600 <T	6.700	.600 <T	1AW	6.700	.600 <T	
1992	JUL	BOL	1.000	7.800	.500 <T	7.800	.500 <T	7.800	.500 <T	1.000	7.800	.500 <T	1.000	7.800	.500 <T	7.800	.500 <T	1.000	7.800	.500 <T	
1992	SEP	BOL	.800 <T	BOL	BOL	BOL	BOL	BOL	BOL	.800 <T	BOL	BOL	.800 <T	BOL	BOL	BOL	BOL	.800 <T	BOL	BOL	
1992	NOV	BOL	.800 <T	BOL	.500 <T	BOL	.500 <T	BOL	.500 <T	.800 <T	BOL	.500 <T	.800 <T	BOL	.500 <T	BOL	.500 <T	.800 <T	BOL	.500 <T	
GUIDELINE = 65 (A5)																					
TETRACHLOROETHYLENE (UG/L)																					
DET*N LIMIT = 0.05																					
1991	JAN	BOL	.100 <T	BOL	.150 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	
1991	FEB	BOL	.100 <T	BOL	.150 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	
1991	MAR	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	
1991	APR	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	
1991	MAY	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	
1991	JUN	BOL	.150 <T	BOL	.200 <T	.150 <T	BOL	.200 <T	.150 <T	.150 <T	BOL	.200 <T	.150 <T	.150 <T	BOL	.200 <T	.150 <T	.150 <T	BOL	.200 <T	
1991	JUL	BOL	.150 <T	BOL	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	
1991	AUG	BOL	.150 <T	BOL	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	
1991	SEP	BOL	.150 <T	BOL	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	.150 <T	.150 <T	BOL	.150 <T	
1991	OCT	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	
1991	NOV	BOL	.200 <T	BOL	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	
1992	JAN	BOL	.100 <T	BOL	.150 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	.100 <T	.100 <T	BOL	.150 <T	
1992	MAR	BOL	.050 <T	BOL	.100 <T	.050 <T	BOL	.100 <T	.050 <T	.050 <T	BOL	.100 <T	.050 <T	.050 <T	BOL	.100 <T	.050 <T	.050 <T	BOL	.100 <T	
1992	MAY	BOL	.200 <T	BOL	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	.200 <T	.200 <T	BOL	.200 <T	
1992	JUL	BOL	1AW	BOL	BOL	BOL	BOL	BOL	BOL	1AW	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
1992	SEP	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	
1992	NOV	BOL	.100 <T	BOL	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	.100 <T	.100 <T	BOL	.100 <T	

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	TREATMENT PLANT SPRING TREATED	TREATMENT PLANT MAIN ST	TREATMENT PLANT SPRING TREATED	DIST. SYSTEM FREE FLOW	DIST. SYSTEM MAIN ST	DIST. SYSTEM STANDING	DIST. SYSTEM IMPERIAL ST	DIST. SYSTEM IMPERIAL ST	DIST. SYSTEM STANDING	
										RAW
VOLATILES										
BROMOFORM (UG/L )										
DET*N LIMIT = 0.20      GUIDELINE = 350 (A1+)										
1991 JAN	BDL	BDL	.800 <T	.200 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 FEB	BDL	BDL	1.400 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	1.200 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	1.400 <T	.600 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	1.200 <T	.600 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	1.000 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	BDL	BDL	1.200 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 AUG	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 SEP	BDL	BDL	1.000 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 OCT	BDL	BDL	.800 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	BDL	1.200 <T	1.200 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 JAN	BDL	BDL	1.400 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAR	BDL	BDL	1.000 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	BDL	1.200 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 JUL	BDL	1AW	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	BDL	1.200 <T	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1122-TETRACHLOROETHANE (UG/L )      DET*N LIMIT = 0.05      GUIDELINE = 0.17 (D4)										
93 SAMPLES      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL										
VINYL CHLORIDE (UG/L )      DET*N LIMIT = 0.100      GUIDELINE = 2 (D1)										
22 SAMPLES      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL										
C12-DICHLOROETHYLENE (UG/L )      DET*N LIMIT = 0.100      GUIDELINE = 70 (D1)										
1992 MAR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 MAY	BDL	.100 <T	.100 <T	.100 <T	BDL	BDL	BDL	BDL	BDL	.100 <T
1992 JUL	BDL	1AW	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 SEP	BDL	.100 <T	.100 <T	.100 <T	BDL	BDL	BDL	BDL	BDL	.100 <T
1992 NOV	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CHLOROBENZENE (UG/L )      DET*N LIMIT = 0.10      GUIDELINE = 1510 (D3)										
93 SAMPLES      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL										
1,4-DICHLOROBENZENE (UG/L )      DET*N LIMIT = 0.10      GUIDELINE = 5 (A1)										
93 SAMPLES      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL										
1,3-DICHLOROBENZENE (UG/L )      DET*N LIMIT = 0.10      GUIDELINE = 3750 (D3)										
93 SAMPLES      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL      BDL										

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI WTP

TREATMENT PLANT RAW	SPRING RAW	TREATMENT PLANT TREATED	SPRING TREATED	DIST. SYSTEM FREE FLOW		DIST. SYSTEM MAIN ST STANDING		DIST. SYSTEM FREE FLOW		DIST. SYSTEM IMPERIAL ST STANDING	
				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VOLATILES											
1,2-DICHLOROBENZENE (UG/L )											
93 SAMPLES				DET'N LIMIT = 0.05				GUIDELINE = 200 (A1)			
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYLENE DIBROMIDE (UG/L )											
93 SAMPLES				DET'N LIMIT = 0.05				GUIDELINE = 50 (D1)			
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOTAL TRIHALOMETHANES (UG/L )											
93 SAMPLES				DET'N LIMIT = 0.50				GUIDELINE = 350 (A1)			
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1991 JAN	BDL	86,850	20,100	4,800 <T	4,800 <T	2,500 <T	2,500 <T	4,800 <T	4,800 <T	4,400	4,400
1991 FEB	BDL	93,200	17,500	6,850	6,850	4,400	4,400	6,850	6,850	3,250 <T	3,250 <T
1991 MAR	BDL	49,600	17,750	6,050	6,050	4,400 <T	4,400 <T	6,050	6,050	4,400 <T	4,400 <T
1991 APR	BDL	141,600	24,600	31,500	31,500	5,700	5,700	31,500	31,500	4,150 <T	4,150 <T
1991 MAY	BDL	140,350	23,700	62,800	62,800	4,850 <T	4,850 <T	62,800	62,800	5,700	5,700
1991 JUN	BDL	88,000	26,900	67,800	67,800	4,950 <T	4,950 <T	67,800	67,800	5,600	5,600
1991 JUL	BDL	84,500	28,750	6,800	6,800	56,600	56,600	6,800	6,800	3,200 <T	3,200 <T
1991 AUG	BDL	125,000	32,150	6,300	6,300	59,800	59,800	125,000	125,000	4,950 <T	4,950 <T
1991 SEP	BDL	126,400	33,000	28,000	28,000	64,600	64,600	126,400	126,400	5,600	5,600
1991 OCT	BDL	116,400	26,000	28,500	28,500	59,800	59,800	116,400	116,400	3,200 <T	3,200 <T
1991 NOV	BDL	71,950	23,350	3,700 <T	3,700 <T	64,600	64,600	71,950	71,950	5,600	5,600
1992 JAN	BDL	71,000	26,300	7,400	7,400	59,800	59,800	71,000	71,000	5,600	5,600
1992 MAR	BDL	108,400	27,700	24,800	24,800	59,800	59,800	108,400	108,400	3,200 <T	3,200 <T
1992 MAY	BDL	141,000	24,800	56,600	56,600	59,800	59,800	141,000	141,000	5,600	5,600
1992 JUL	BDL	115,900	28,500	2,950 <T	2,950 <T	64,600	64,600	115,900	115,900	5,600	5,600
1992 SEP	BDL	101,950	2,950 <T	59,950	59,950	64,600	64,600	101,950	101,950	5,600	5,600
1992 NOV	BDL	2,200 <T	2,950 <T	59,950	59,950	64,600	64,600	2,200 <T	2,200 <T	5,600	5,600

TABLE 4  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 DELHI MTP

TREATMENT PLANT RAW	SPRING RAW	SPRING TREATED	DIST. SYSTEM FREE FLOW	DIST. SYSTEM MAIN ST STANDING	DIST. SYSTEM IMPERIAL ST FREE FLOW	DIST. SYSTEM IMPERIAL ST STANDING
RADIONUCLIDES						
COBALT 60 (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = N/A						
CESIUM 134 (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = N/A						
CESIUM 137 (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = 50 (A1)						
GROSS ALPHA COUNT (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = 0.55 (O1)						
GROSS BETA COUNT (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = N/A						
TRITIUM (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = 40000 (A1)						
IODINE 131 (BG/L )						
15 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL
GUIDELINE = 10 (A1)						

TABLE 5  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE FILT.	CT/ML	0	500/ML (A3)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100ML (A1)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	0	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	0	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	0	N/A
FIELD PH	DMNSLESS	N/A	6.5-8.5 (A4)
FIELD TEMPERATURE	DEG.C	N/A	15.0 (A3)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	0.20	30-500 (A4)
AMMONIUM TOTAL	MG/L	0.002	0.05 (F2)
CALCIUM	MG/L	0.20	100.0 (F2)
CHLORIDE	MG/L	0.20	250.0 (A3)
COLOUR	TCU	0.50	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.00	400.0 (F2)
CYANIDE	MG/L	0.001	0.2 (A1)
DISSOLVED ORGANIC CARBON	MG/L	0.10	5.0 (A3)
FLUORIDE	MG/L	0.01	1.5* (A1)
HARDNESS	MG/L	0.50	80-100 (A4)
IONCAL	DMNSLESS	N/A	N/A
LANGELIERS INDEX	DMNSLESS	N/A	N/A
MAGNESIUM	MG/L	0.10	30.0 (F2)
NITRATES (TOTAL)	MG/L	0.005	10.0 (A1)
NITRITE	MG/L	0.001	1.0 (A1)
NITROGEN TOTAL KJELDAHL	MG/L	0.02	N/A
PH	DMNSLESS	N/A	6.5-8.5 (A4)
PHOSPHORUS FIL REACT	MG/L	0.0005	N/A
PHOSPHORUS TOTAL	MG/L	0.002	0.4 (F2)
POTASSIUM	MG/L	0.010	10.0 (F2)
RESIDUE FILTRATE (CALCULATED TDS)	MG/L	N/A	500.0 (A3)
SODIUM	MG/L	0.20	200.0 (A4)
SULPHATE	MG/L	0.20	500.0 (A4)
TURBIDITY	FTU	0.05	1.0 (A1)
* The Maximum Acceptable Concentration (MAC) for naturally occurring fluoride in drinking water is 2.4 mg/L.			
CHLOROAROMATICS			
1,2,3-TRICHLOROBENZENE	NG/L	5.0	N/A
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.0	N/A
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.0	N/A
1,2,4-TRICHLOROBENZENE	NG/L	5.0	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.0	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.0	N/A
2,3,6-TRICHLOROTOLUENE	NG/L	5.0	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.0	N/A
2,6A-TRICHLOROTOLUENE	NG/L	5.0	N/A
HEXACHLOROBENZENE (HCB)	NG/L	1.0	10 (C1)
HEXACHLOROBUTADIENE	NG/L	1.0	450 (D4)
HEXACHLOROETHANE	NG/L	1.0	1900 (D4)
OCTACHLOROSTYRENE	NG/L	1.0	N/A
PENTACHLOROBENZENE	NG/L	1.0	74000 (D4)
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	100.0	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	20.0	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	10.0	N/A

TABLE 5  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
2,4,5-TRICHLOROPHENOL	NG/L	100.0	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	20.0	5000 (A1)
PENTACHLOROPHENOL	NG/L	10.0	60000 (A1)
METALS			
ALUMINUM	UG/L	0.10	100 (A4)
ANTIMONY	UG/L	0.05	146 (D4)
ARSENIC	UG/L	0.10	25 (A1)
BARIUM	UG/L	0.05	1000 (A2)
BERYLLIUM	UG/L	0.05	6800 (D4)
BORON	UG/L	2.00	5000 (A1)
CADMIUM	UG/L	0.05	5 (A1)
CHROMIUM	UG/L	0.50	50 (A1)
COBALT	UG/L	0.02	N/A
COPPER	UG/L	0.50	1000 (A3)
IRON	UG/L	6.00	300 (A3)
LEAD	UG/L	0.05	10 (A1)
MANGANESE	UG/L	0.05	50 (A3)
MERCURY	UG/L	0.02	1 (A1)
MOLYBDENUM	UG/L	0.05	N/A
NICKEL	UG/L	0.20	350 (D3)
SELENIUM	UG/L	1.00	10 (A1)
SILVER	UG/L	0.05	N/A
STRONTIUM	UG/L	0.10	N/A
THALLIUM	UG/L	0.05	13 (D4)
TITANIUM	UG/L	0.50	N/A
URANIUM	UG/L	0.05	100 (A1)
VANADIUM	UG/L	0.05	N/A
ZINC	UG/L	0.20	5000 (A3)
POLYNUCLEAR AROMATIC HYDROCARBONS			
ANTHRACENE	NG/L	1.0	N/A
BENZO(A) ANTHRACENE	NG/L	20.0	N/A
BENZO(A) PYRENE	NG/L	5.0	10 (A1)
BENZO(B) CHRYSENE	NG/L	2.0	N/A
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A
BENZO(E) PYRENE	NG/L	50.0	N/A
BENZO(G,H,I) PERYLENE	NG/L	20.0	N/A
BENZO(K) FLUORANTHENE	NG/L	1.0	N/A
CHRYSENE	NG/L	50.0	N/A
CORONENE	NG/L	10.0	N/A
DIBENZO(A,H) ANTHRACENE	NG/L	10.0	N/A
DIMETHYL BENZO(A) ANTHRACENE	NG/L	5.0	N/A
FLUORANTHENE	NG/L	20.0	42000 (D4)
INDENO(1,2,3-C,D) PYRENE	NG/L	20.0	N/A
PERYLENE	NG/L	10.0	N/A
PHENANTHRENE	NG/L	10.0	N/A
PYRENE	NG/L	20.0	N/A
PESTICIDES & PCB			
ALACHLOR (LASSO)	NG/L	500.0	5000 (A2)
ALDRIN	NG/L	1.0	700 (A1)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700 (G)
ALPHA CHLORDANE	NG/L	2.0	7000 (A1)
AMETRINE	NG/L	50.0	300000 (D3)
ATRATONE	NG/L	50.0	N/A
ATRAZINE	NG/L	50.0	60000 (A2)
DESETHYL ATRAZINE	NG/L	200.0	60000 (A2)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300 (G)
CYANAZINE (BLADEX)	NG/L	100.0	10000 (A2)
DIELDRIN	NG/L	2.0	700 (A1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000 (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	5.0	74000 (D4)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	5.0	N/A

TABLE 5  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

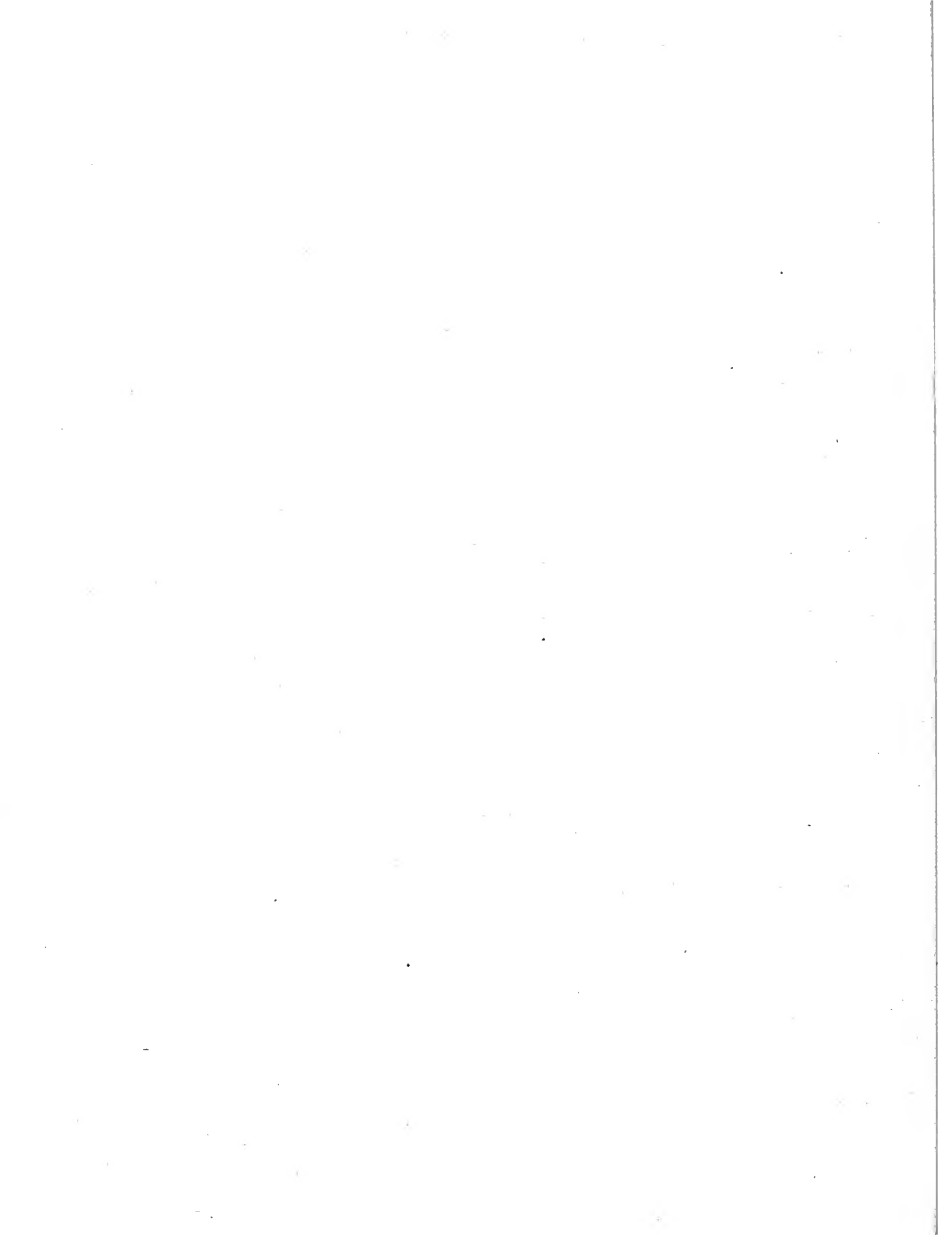
SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
ENDRIN	NG/L	5.0	1600 (D3)
GAMMA CHLORDANE	NG/L	2.0	7000 (A1)
HEPTACHLOR	NG/L	1.0	3000 (A1)
HEPTACHLOR EPOXIDE	NG/L	1.0	3000 (A1)
HEXACHLOROCYCLOPENTADIENE	NG/L	5.0	206000 (D4)
LINDANE (GAMMA BHC)	NG/L	1.0	4000 (A1)
METHOXYCHLOR	NG/L	5.0	900000 (A1)
METOLACHLOR	NG/L	500.0	50000 (A2)
METRIBUZIN (SENCOR)	NG/L	100.0	80000 (A1)
MIREX	NG/L	5.0	N/A
P, P- DDD	NG/L	5.0	30000 (A1)
P, P- DDT	NG/L	5.0	30000 (A1)
P, P- DDT	NG/L	5.0	30000 (A1)
P, P- DDE	NG/L	1.0	30000 (A1)
OXYCHLORDANE	NG/L	2.0	N/A
PCB	NG/L	20.0	3000 (A2)
PROMETONE	NG/L	50.0	52500 (D3)
PROMETRYNE	NG/L	50.0	1000 (A2)
PROPAZINE	NG/L	50.0	700000 (D3)
SIMAZINE	NG/L	50.0	10000 (A2)
DESETHYL SIMAZINE	NG/L	200.0	10000 (A2)
TOXAPHENE	NG/L	500.0	5000 (A1)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	0.2	N/A
SPECIFIC PESTICIDES			
2,4 D PROPIONIC ACID	NG/L	100.0	N/A
2,4,5-TRICHLOROPHENOXY ACETIC ACID	NG/L	50.0	280000 (A1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.0	100000 (A1)
2,4-DICHLOROPHENOXYBUTYRIC ACID (2,4-DB)	NG/L	200.0	N/A
2,4,5-TP (SILVEX)	NG/L	20.0	10000 (A1)
BUTYLATE (SUTAN)	NG/L	2000.0	245000 (D3)
CARBARYL (SEVIN)	NG/L	200.0	90000 (A1)
CARBOFURAN	NG/L	2000.0	90000 (A1)
CHLORPROPHAM (CIPC)	NG/L	2000.0	350000 (G)
CHLORPYRIFOS (DURSBAN)	NG/L	20.0	N/A
DIALLATE	NG/L	2000.0	N/A
DIAZINON	NG/L	20.0	20000 (A1)
DICAMBA	NG/L	50.0	120000 (A1)
DICHLOROVOS	NG/L	20.0	N/A
EPTAM	NG/L	2000.0	N/A
ETHION	NG/L	20.0	35000 (G)
IPC	NG/L	2000.0	N/A
MALATHION	NG/L	20.0	190000 (A1)
METHYL PARATHION	NG/L	50.0	9000 (D3)
METHYLTRITHION	NG/L	20.0	N/A
MEVINPHOS	NG/L	20.0	N/A
PARATHION	NG/L	20.0	50000 (A1)
PHORATE (THIMET)	NG/L	20.0	2000 (A2)
PICHLORAM	NG/L	100.0	190000 (A2)
PROPOKUR (BAYGON)	NG/L	2000.0	140000 (D3)
RELDAN	NG/L	20.0	N/A
RONNEL	NG/L	20.0	N/A
VOLATILES			
1,1-DICHLOROETHANE	UG/L	0.10	N/A
1,1-DICHLOROETHYLENE	UG/L	0.10	7 (D1)
1,2-DICHLOROBENZENE	UG/L	0.05	200 (A1)
1,2-DICHLOROETHANE	UG/L	0.05	5 (A1)
1,2-DICHLOROPROPANE	UG/L	0.05	5 (D1)
1,3-DICHLOROBENZENE	UG/L	0.10	3750 (D3)
1,4-DICHLOROBENZENE	UG/L	0.10	5 (A1)
1,1,1-TRICHLOROETHANE	UG/L	0.02	200 (D1)
1,1,2-TRICHLOROETHANE	UG/L	0.05	0.6 (D4)
1,1,2,2-TETRACHLOROETHANE	UG/L	0.05	0.17 (D4)



TABLE 5  
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BENZENE	UG/L	0.05	5 (A1)
BROMOFORM	UG/L	0.20	350 (A1+)
CARBON TETRACHLORIDE	UG/L	0.20	5 (A1)
CHLOROBENZENE	UG/L	0.10	1510 (D3)
CHLORODIBROMOMETHANE	UG/L	0.10	350 (A1+)
CHLOROFORM	UG/L	0.10	350 (A1+)
CIS 1,2-DICHLOROETHYLENE	UG/L	0.10	70 (D1)
DICHLOROBROMOMETHANE	UG/L	0.05	350 (A1+)
ETHYLENE DIBROMIDE	UG/L	0.05	50 (D1)
ETHYLBENZENE	UG/L	0.05	2.4 (A3)
M-XYLENE	UG/L	0.10	300 (A3*)
METHYLENE CHLORIDE	UG/L	0.50	50 (A1)
O-XYLENE	UG/L	0.05	300 (A3*)
P-XYLENE	UG/L	0.10	300 (A3*)
STYRENE	UG/L	0.05	100 (D1)
TETRACHLOROETHYLENE	UG/L	0.05	65 (A5)
TRANS 1,2-DICHLOROETHYLENE	UG/L	0.10	70 (D1)
TOLUENE	UG/L	0.05	24 (A3)
TOTAL TRIHALOMETHANES	UG/L	0.50	350 (A1)
TRICHLOROETHYLENE	UG/L	0.10	50 (A1)
VINYL CHLORIDE	UG/L	0.10	2 (D1)
RADIOISOTOPES			
TRITIUM	BQ/L	7.0	40000 (A1)
GROSS ALPHA COUNT	BQ/L	0.04	0.55# (D1)
GROSS BETA COUNT	BQ/L	0.04	N/A
COBALT 60	BQ/L	0.70	N/A
CESIUM 134	BQ/L	0.70	N/A
CESIUM 137	BQ/L	0.70	50 (A1)
IODINE 131	BQ/L	0.70	10 (A1)

# Equal to 15.0 Picocuries/litre



DRINKING WATER SURVEILLANCE PROGRAM  
PROGRAM DESCRIPTION

The Drinking Water Surveillance Program (DWSP) for Ontario monitors drinking water quality at municipal water supply systems. The DWSP Database Management System provides a computerized drinking water quality information system for the supplies monitored. The objectives of the program are to provide:

- immediate, reliable, current information on drinking water quality;
- a flagging mechanism for guideline exceedance;
- a definition of contaminant levels and trends;
- a comprehensive background for remedial action;
- a framework for assessment of new contaminants; and
- an indication of treatment efficiency of plant processes.

PROGRAM

The DWSP officially began in April 1986 and is designed to eventually include all municipal water supplies in Ontario. In 1992, 109 systems were being monitored. Water supply locations have been prioritized for surveillance based primarily on criteria such as population density, probability of contamination and geographical location.

An ongoing assessment of future monitoring requirements at each location will be made. Monitoring will continue at the initial locations at an appropriate level and further locations will be phased into the program as resources permit.

A major goal of the program is to collect valid water quality data in context with plant operational characteristics at the time of sampling. As soon as sufficient data have been accumulated and analyzed, both the frequency of sampling and the range of parameters may be adjusted accordingly.

Assessments are carried out at all locations prior to initial sampling, in order to acquire complete plant process and distribution system details and to designate (and retrofit if necessary) all sampling systems and locations. This ensures that the sampled water is a reflection of the water itself.

Samples are taken of raw (ambient water) and treated water at the treatment plant and of consumer's tap water in the distribution system. In order to determine possible effects of distribution on water quality, both standing and free flow water in old and new sections of the distribution system are sampled. Sampling is carried out by operational personnel who have been trained in applicable procedures.

Comprehensive standardized procedures and field test kits are supplied to sampling personnel. This ensures that samples are taken and handled according to standard protocols and that field testing will supply reliable data. All field and laboratory analyses are carried out using "approved documented procedures". Most laboratory analyses are carried out by the Ministry of Environment and Energy (MOEE), Laboratory Services Branch. Radionuclides are analyzed by the Ministry of Labour.

## DATA REPORTING MECHANISM

When the analytical results are transferred from the MOEE laboratory into the DWSP system, printouts of the completed analyses are sent to the MOEE District Officer, the appropriate operational staff and are also retained by the DWSP unit.

## PROGRAM INPUTS AND OUTPUTS

There are four major inputs and four major outputs in the program.

### Program Input - Plant and Distribution System Description

The system description includes plant specific non-analytical information acquired through a questionnaire and an initial plant visit. During the initial assessment of the plant and distribution system, questionnaire content is verified and missing information added. It is intended that all data be kept current with scheduled annual updates.

The Plant and Distribution System Description consists of the following seven components:

#### 1. PROCESS COMPONENT INVENTORY

All physical and chemical processes to which the water is subjected, from the intake pipe to the consumers' tap (where possible), are documented. These include: process type, general description of physical structures, material types, sizes, and retention time for each process within the plant. The processes may be as simple as transmission or as complex as carbon adsorption.

#### 2. TREATMENT CHEMICALS

Chemicals used in the treatment processes, their function, application point, supplier and brand-name are recorded. Chemical dosages applied on the day of sampling are recorded in DWSP.

#### 3. PROCESS CONTROL MEASUREMENTS

Documentation of in-plant monitoring of process parameters (eg. turbidity, chlorine residuals, pH, aluminum residuals) including methods used, monitoring locations and frequency is contained in this section. Except for the recorded Field Data, in-plant monitoring results are not retained in DWSP but are retained by the water treatment plant personnel.

#### 4. DESIGN FLOW AND RETENTION TIME

Hydraulic capacity, designed and actual, is noted here. Retention time (the time that a block of water is retained in the plant) is also noted. Maximum, minimum and average flow, as well as a record of the flow rate on the day of sampling, are recorded in DWSP.

#### 5. DISTRIBUTION SYSTEM DESCRIPTION

This area includes the storage and transmission characteristics of the distribution system after the water leaves the plant.

## 6. SAMPLING SYSTEM

Each plant is assessed for its adequacy in terms of the sampling of bacteriological, organic and inorganic parameters. Prime considerations in the assessment and design of the sampling system are:

- i/ the sample is an accurate representation of the actual water condition, eg. raw water has had no chemical treatment;
- ii/ the water being sampled is not being modified by the sampling system;
- iii/ the sample tap must be in a clean area of the plant, preferably a lab area; and
- iv/ the sample lines must be organically inert (no plastic, ideally stainless steel).

It is imperative that the sampled water be a reflection not of the sampling system but of the water itself.

The sampling system documentation includes: origin of the water; date sampling was initiated; size, length and material type (intake, discharge and tap); pump characteristics (model, type, capacity); and flow rate.

## 7. PERSONNEL

This section contains the names, addresses and phone numbers of current plant management and operational staff, distribution system management and operational staff, Medical Officer of Health and appropriate MOEE personnel associated with the plant.

### Program Input - Field Data

The second major input to DWSP is field data. Field data is collected at the plant and from the distribution system sites on the day of sampling. Field data consists of general operating conditions and the results of testing for field parameters. General operating conditions include chemicals used, dosages, flow and retention time on the day of sampling, as well as, monthly maximum, minimum and average flows. Field parameters include turbidity, chlorine residuals (free, combined and total), temperature and pH. These parameters are analyzed according to standardized DWSP protocols to allow for interplant comparison.

### Program Input - Laboratory Analytical Data

The third major input to DWSP is Laboratory Analytical Data. Samples gathered from the raw, treated and distribution sampling sites are analyzed for the presence of approximately 180 parameters at a frequency of two to twelve times per year. Sixty-five percent of the parameters are organic. Parameters measured may have health or aesthetic implications when present in drinking water. Many of the parameters may be used in the treatment process or may be treatment by-products. Due to the nature of certain analytical instruments, parameters may be measured in a "scan" producing some results for parameters that are not on the DWSP priority list, but which may be of interest. The majority of parameters are measured on a routine basis. Those that are technically more difficult and/or costly to analyze, however, are done less frequently. These include Specific Pesticides and Chlorophenols.

Although the parameter list is extensive, additional parameters with the potential to cause health or aesthetic related problems may be added provided reliable analytical and sampling methods exist.

All laboratory generated data is derived from standardized, documented analytical protocols. The analytical method is an integral part of the data and as methods change, notation will be made and comparison data documented.

#### Program Input - Parameter Reference Information

The fourth major input to DWSP is Parameter Reference Information. This is a catalogue of information for each substance analyzed on DWSP. It includes parameter name and aliases, physical and chemical properties, basic toxicology, world-wide health limits, treatment methods and uses. The Parameter Reference Information is computerized and can be accessed through the Query function of the DWSP database. An example is shown in figure 1.

#### Program output - Query

All DWSP information is easily accessed through the Query function, therefore, anything from addresses of plant personnel to complete water quality information for a plant's water supply is instantly available. The DWSP computer system makes relatively complex inquiries manageable. A personal password allowing access into the DWSP query mode in all MOEE offices is being developed by the DWSP group.

#### Program Output - Action Alerts

Drinking Water quality in Ontario is evaluated against provincial objectives as outlined in the Ontario Drinking Water Objectives publication. Should the reported level of a substance in treated water exceed the Ontario Drinking Water Objective, an "Action Alert" requiring resampling and confirmation is issued. This assures that operational staff, health authorities and the public are notified as soon as possible of the confirmation of an exceedance and remedial action taken. This report supplies a history of the occurrence of past exceedances at the plant plus a historical summary on the parameter of concern.

In the absence of Ontario Drinking Water Objectives, guidelines/limits from other agencies are used. The Parameter Listing System, published by MOEE (ISBN 0-7729-4461-X), catalogues and keeps current guidelines for 650 parameters from agencies throughout the world. If these guidelines are exceeded, the results are flagged and evaluated by DWSP personnel. An "Action Alert" will be issued if warranted.

#### Program Output - Report Generation

Custom reports can be generated from DWSP to meet MOEE Regional needs and to respond to public requests.

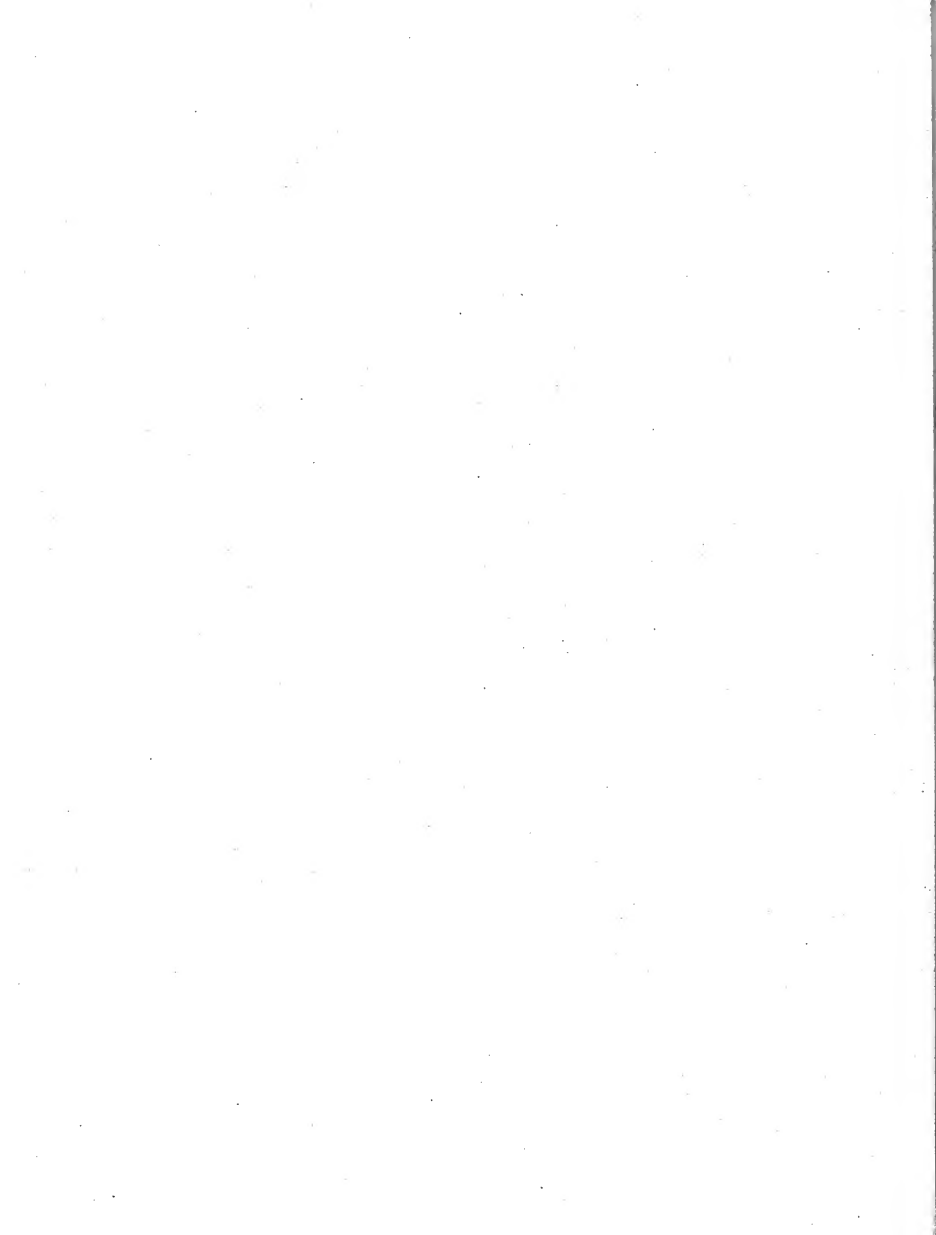
#### Program Output - Annual Reports

It is the practice of DWSP to produce an annual report containing analytical data along with companion plant information.

FIG. 1

## PARAMETER REFERENCE INFORMATION

**NAME:** BENZENE  
**CAS#:** 71-43-2  
**MOLECULAR FORMULAE:** C<sub>6</sub>H<sub>6</sub>  
**DETECTION LIMIT:** (FOR METHOD POCODO) 0.05 µg/L  
**SYNONYMS:** BENZOL; BENZOLE; COAL NAPHTHA; CARBON OIL (27)  
 CYCLOHEXATRIENE (41)  
**CHARACTERISTICS:** COLOURLESS TO LIGHT-YELLOW, MOBILE, NONPOLAR LIQUID, OF  
 HIGHLY REFRACTIVE NATURE, AROMATIC ODOUR; VAPOURS BURN  
 WITH SMOKING FLAME (30)  
**PROPERTIES:** SOLUBILITY IN WATER: 1780-1800 mg/L AT 25C (41)  
 THRESHOLD ODOUR: 0.5 - 10 PPM IN WATER  
 THRESHOLD TASTE: 0.5 mg/L IN WATER (39)  
 ENVIRONMENTAL FATE: MAY BIOACCUMULATE IN LIVING ORGANISMS  
 AND APPEARS TO ACCUMULATE IN ANIMAL TISSUES THAT EXHIBIT  
 A HIGH LIPID CONTENT OR REPRESENT MAJOR METABOLIC SITES,  
 SUCH AS LIVER OR BRAIN; SMALL QUANTITIES EVAPORATE FROM  
 SOILS OR ARE DEGRADED RATHER QUICKLY (80)  
**SOURCES:** COMMERCIAL: PETROLEUM REFINING; SOLVENT RECOVERY; COAL TAR  
 DISTILLATION (39); FOOD PROCESSING AND TANNING INDUSTRIES;  
 COMBUSTION OF CAR EXHAUST.  
 ENVIRONMENTAL: POSSIBLE SOURCE IS RUNOFF.  
**USES:** DETERGENTS; NYLON; INTERMEDIATE IN PRODUCTION OF OTHER  
 COMPOUNDS, SUCH AS PESTICIDES; SOLVENT FOR EXTRACTION AND  
 RECTIFICATION IN RUBBER INDUSTRY; DEGREASING AND CLEANSING  
 AGENT; GASOLINE.  
**REMOVAL:** THE FOLLOWING PROCESSES HAVE BEEN SUCCESSFUL IN REMOVING  
 BENZENE FROM WASTEWATER: GAC ADSORPTION, PRECIPITATION  
 WITH ALUM AND SUBSEQUENT REMOVAL VIA SEDIMENTATION,  
 COAGULATION AND FLOCCULATION, SOLVENT EXTRACTION,  
 OXIDATION  
**ADDITIONAL PROPERTIES:** MOLECULAR WEIGHT: 78.12  
 MELTING POINT: 5.5°C (27)  
 BOILING POINT: 80.1°C (27)  
 SPECIFIC GRAVITY: 0.8790 AT 20°C (27)  
 VAPOUR PRESSURE: 100 MM AT 26.1°C (27)  
 HENRY'S LAW CONSTANT: 0.00555 ATM-M<sup>3</sup>/MOLE (41)  
 LOG OCT./WATER PARTITION COEFFICIENT: 1.95 TO 2.13 (39)  
 CARBON ADSORPTION: K=1.0; 1/N=1.6; R=0.97; PH=5.3 (41)  
 SEDIMENT/WATER PARTITION COEFFICIENT: NO DATA





DWSP SAMPLING GUIDELINE

## i) Raw and Treated at Plant

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Bacteriological	-220 mL plastic bottle with white seal on cap -do <u>not</u> rinse bottle, preservative has been added -avoid touching bottle neck or inside of cap -fill to top of red label as marked
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid ( $\text{HNO}_3$ ) (Caution: $\text{HNO}_3$ is corrosive)
Volatiles (duplicates) (OPOPUP)	-45 mL glass vial with septum (teflon side must be in contact with sample) -do <u>not</u> rinse bottle -fill bottle completely without bubbles
Organics (OWOC), (OWTRI)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top
Specific Pesticides (OWCP), (PEOP), (PECAR)	-as per Organics -three extra bottles must be filled
Polyaromatic hydrocarbons (OAPAHX)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top -add 25 drops of sodium thiosulphate
Cyanide (Treated only)	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops sodium hydroxide (NaOH) (Caution: NaOH is corrosive)
Mercury	-250 mL glass bottle -rinse bottle and cap three times -fill to top of label -add 20 drops each nitric acid ( $\text{HNO}_3$ ) and potassium dichromate ( $\text{K}_2\text{Cr}_2\text{O}_7$ ) (Caution: $\text{HNO}_3$ & $\text{K}_2\text{Cr}_2\text{O}_7$ are corrosive)

Phenols	-250 mL glass bottle -do <u>not</u> rinse bottle, preservative has been added -fill to top of label
Radionuclides (as scheduled)	-4 L plastic jug -do <u>not</u> rinse, carrier added -fill to 5 cm from top
Organic Characterization (GC/MS - once per year) (PBVOL), (PBEXT)	-1 L amber glass bottle; instructions as per organic -250 mL glass bottle -do <u>not</u> rinse bottle -fill completely without bubbles

Steps:

1. Let sampling water tap run for an adequate time to clear the sample line.
2. Record time of day on submission sheet.
3. Record temperature on submission sheet.
4. Fill up all bottles as per instructions.
5. Record chlorine residuals (free, combined and total for treated water only), turbidity and pH on submission sheet.
6. No smoking in area of sample location.

ii) Distribution Samples (standing water)

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid (HNO <sub>3</sub> ) (Caution: HNO <sub>3</sub> is corrosive)

Steps:

1. Record time of day on submission sheet.
2. Place bucket under tap and open cold water.
3. Fill to predetermined volume.
4. After mixing the water, record the temperature on the submission sheet.

5. Fill general chemistry and metals bottles.

6. Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

iii) Distribution Samples (free flow)

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Bacteriological	-250 mL plastic bottle with white seal on cap -do <u>not</u> rinse bottle, preservative has been added -avoid touching bottle neck or inside of cap -fill to top of red label as marked
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid $\text{HNO}_3$ (Caution: $\text{HNO}_3$ is corrosive)
Volatiles (duplicate) (OPOPOP)	-45 mL glass vial with septum (teflon side must be in contact with sample) -do <u>not</u> rinse bottle, preservative has been added -fill bottle completely without bubbles
Organics (OWOC)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top
Polyaromatic Hydrocarbons (OAPAHX)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top -add 25 drops of sodium thiosulphate

Steps:

1. Record time of day on submission sheet.
2. Let cold water flow for five minutes.
3. Record temperature on submission sheet.
4. Fill all bottles as per instructions.
5. Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

