ENVIRON

August 16, 2001

Federal Express

Carl Hoffman
New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
50 Wolf Road; Room 252
Albany, New York 12233-7010

Re: June 2001 Ground Water Monitoring Results
Former Bulova Corporation Facility
Valley Stream, New York
NYSDEC Site No. 1-30-084

Dear Mr. Hoffman:

ENVIRON International Corporation (ENVIRON) has prepared this letter, on behalf of Bulova Corporation (Bulova), to present results of the ground water monitoring activities completed during June 2001 at the former Bulova facility in Valley Stream, New York (the "Site"). The ground water monitoring activities completed during June 2001 represent the fifth quarterly sampling event to be performed during a two-year monitoring period. The following sections briefly summarize the results of these activities. As detailed in the *Operation and Maintenance Plan*, ENVIRON will prepare a report regarding the on-going monitoring activities following the two-year monitoring period.

The quarterly monitoring activities completed during June 2001 included the measurement of ground water levels at seven monitoring wells (MW-HD1 through MW-HD7) and the collection of ground water samples from four monitoring wells (MW-HD2, MW-HD4, MW-HD6, and MW-HD7). Activities completed during the June 2001 monitoring event were performed in accordance with the procedures detailed in the *Operation and Maintenance Plan* (ENVIRON, March 2000/May 24, 2000).

Ground water elevation data is summarized in Table 1 and presented on Figures 1 and 2. Consistent with the results of prior investigations, ground water level measurements collected during March 2001 indicate that local ground water flow at the Site is directed toward the southeast at a very small hydraulic gradient of less than 0.002 ft/ft. The ground water elevation at off-site monitoring well MW-HD7 indicates that regional ground water flow may be directed toward the south/southwest.

214 Carnegie Center • Princeton, New Jersey 08540-6284 • USA • Tel: (609) 452-9000 • Fax: (609) 452-0284 • www.environcorp.com

Consistent with the previously-identified seasonal fluctuations in VOC concentrations in ground water at the Site, the June 2001 sampling event detected increased VOC concentrations at monitoring wells MW-HD2 and MW-HD4. The June 2001 sampling results are summarized in Table 2. Historical site-related VOC concentrations at MW-HD4 are depicted on Figures 3 and 4. Reported VOC concentrations at monitoring wells MW-HD6 and MW-HD7 during June 2001 were generally consistent with prior sampling results. Reported VOC concentrations at downgradient well MW-HD6 continue to display an overall decreasing trend with a significant reduction in the reported Freon 113 concentration identified during June 2001.

A Data Usability Summary Report associated with the June 2001 sampling event is provided in Attachment A. Based on ENVIRON's review, all samples were successfully analyzed for the requested compounds.

Please contact us at your earliest convenience to discuss any questions or comments regarding the quarterly monitoring activities. The next quarterly monitoring event is scheduled for September 2001.

Sincerely,

Thomas V. Fusillo
Principal

Michael J. Potts
Manager

TVF\MJP:srh
02-1961A\PRIN_WP\13764v5.DOC

Attachments

cc: C. Montroy (NYSDEC)
B. Weber (Bulova)

TABLES

TABLE 1
Ground Water Elevation Data
Former Bulova Corporation Facility – Valley Stream, New York

Monitoring Well	Top of Casing Elevation (ft AMSL)	June 21, 2001	
		Depth to Water (ft TOC)	Elevation (ft AMSL)
MW-HD1	9.93	5.54	4.39
MW-HD2	9.45	4.84	4.61
MW-HD3	9.93	5.56	4.37
MW-HD4	10.09	6.00	4.09
MW-HD5	9.45	5.28	4.17
MW-HD6	9.97	5.97	4.00
MW-HD7	9.33	5.04	4.29

Notes:

1. Abbreviations:
   TOC: Top of casing
   AMSL: Above mean sea level

TABLE 2
Summary of June 2001 Ground Water Sampling Results
Former Bulova Corporation Facility - Valley Stream, New York

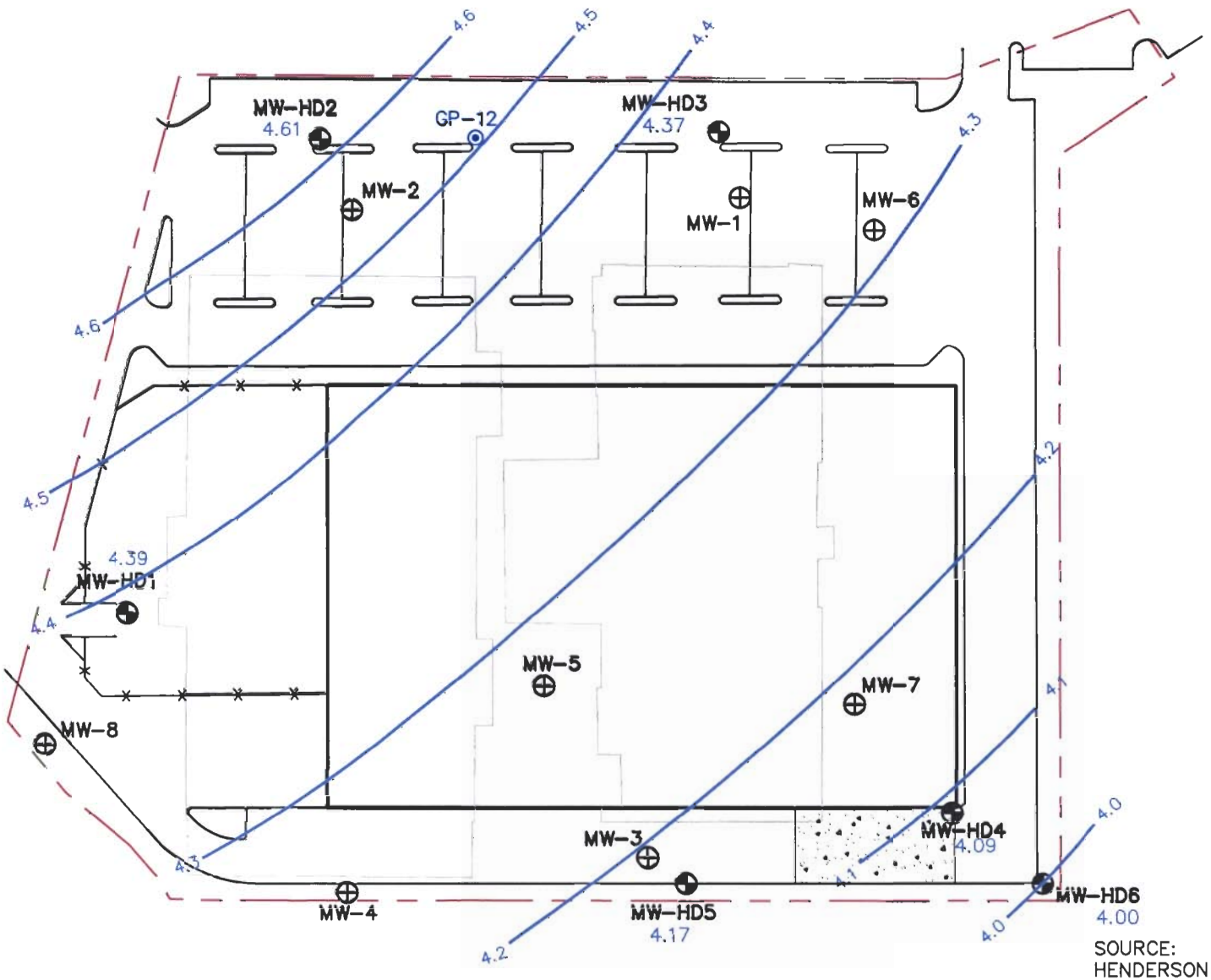
Location Sample Collection Date Sample Method Comments	MW-HD2 6/21/01 Bailer	MW-HD4 6/21/01 Bailer	MW-HD6 6/21/01 Bailer	MW-HD7 6/21/01 Bailer	MW-HD7 6/21/01 Bailer Duplicate	New York Ambient Water Quality Criteria
Volatile Organic Compounds						
Chlorobenzene	**15.1**	ND	ND	ND	ND	5
1,2-Dichlorobenzene	**5.2**	ND	**6.7**	ND	ND	3
1,4-Dichlorobenzene	**13.8**	ND	**18.2**	ND	ND	3
1,1-Dichloroethane	ND	**64.3**	4.4 (j)	ND	ND	5
1,1-Dichloroethene	ND	**515**	3.5	ND	ND	5
cis-1,2-Dichloroethene	ND	**47.1 (j)**	ND	ND	ND	5
Freon 113	ND	**155**	**339**	ND	ND	5
Tetrachloroethene	ND	ND	**5.4**	ND	ND	5
1,1,1-Trichloroethane	ND	**1490**	**5.7**	ND	ND	5
Trichloroethene	ND	**113**	3.3	1.7	1.9	5

Notes:

1. All concentrations are reported in micrograms per liter (µg/L) (parts per billion [ppb]).
2. Only targeted compounds detected in one or more samples are listed in this table.
3. Bold values meet or exceed the New York Ambient Water Quality Criteria.
4. Abbreviations:
   - ND = Not Detected
   - (j) = Estimated Concentration

02-1961A\PRIN_WP\13764v5.DOC

FIGURES



LEGEND

- PROPERTY BOUNDARY
- BUILDING OUTLINE
- FORMER BUILDING
- PAVED AREA
- CONCRETE AREA
- ⊕ ABANDONED MONITORING WELL
- ◓ MONITORING WELL
- 4.0 APPROXIMATE GROUNDWATER CONTOUR AND ELEVATION; JUNE 21, 2001 (FT AMSL)

SOURCE:
HENDERSON AND BODWELL CONSULTING ENGINEERS
GRADING & UTILITIES PLAN, SEPT. 1992

ENVIRON

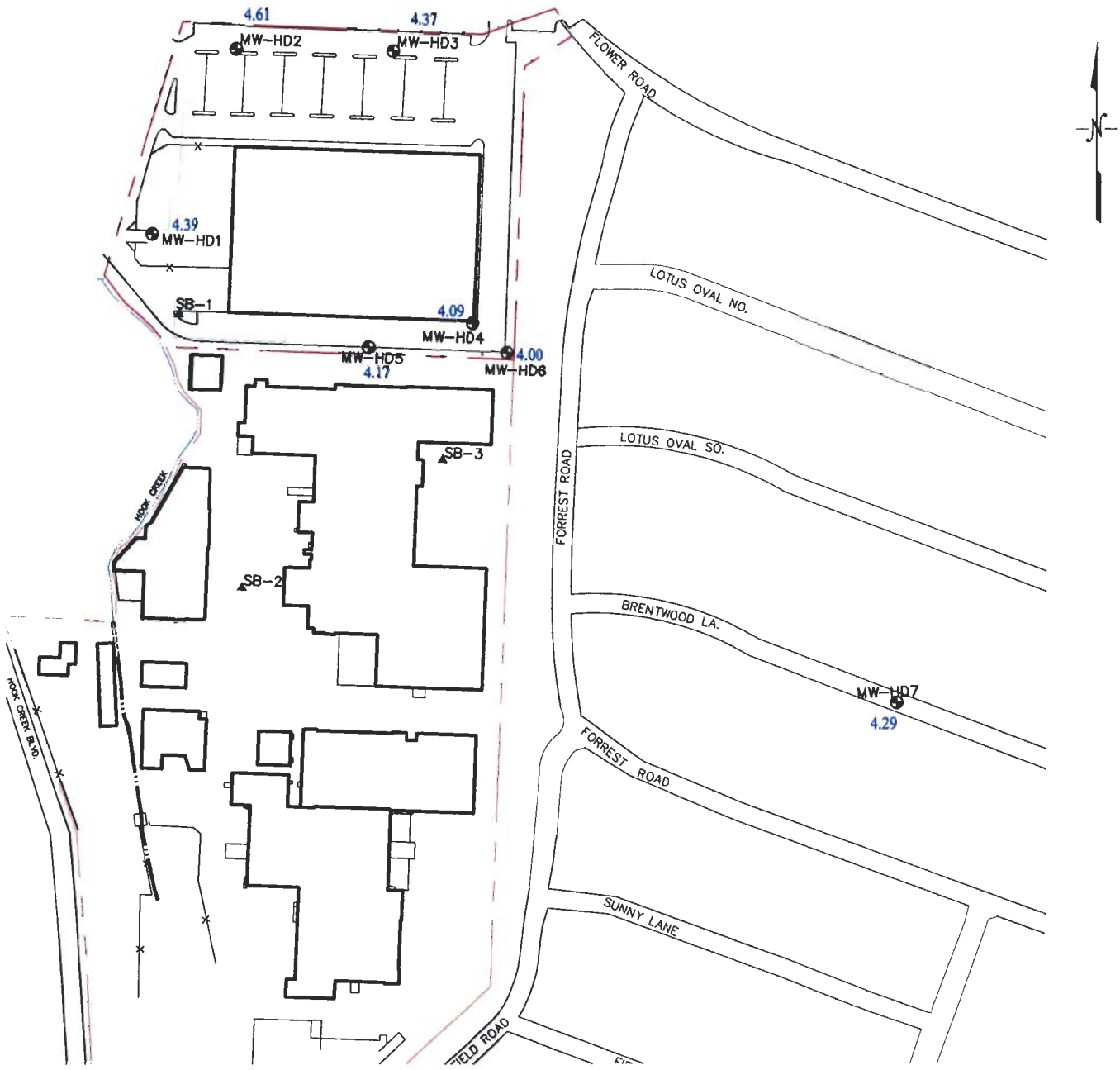
DRAFTED BY: TSP/kpm | DATE: 8/10/01

GROUND WATER POTENTIOMETRIC SURFACE – JUNE 2001

FORMER BULOVA CORPORATION FACILITY
VALLEY STREAM, NEW YORK

FIGURE
1

1961AW13



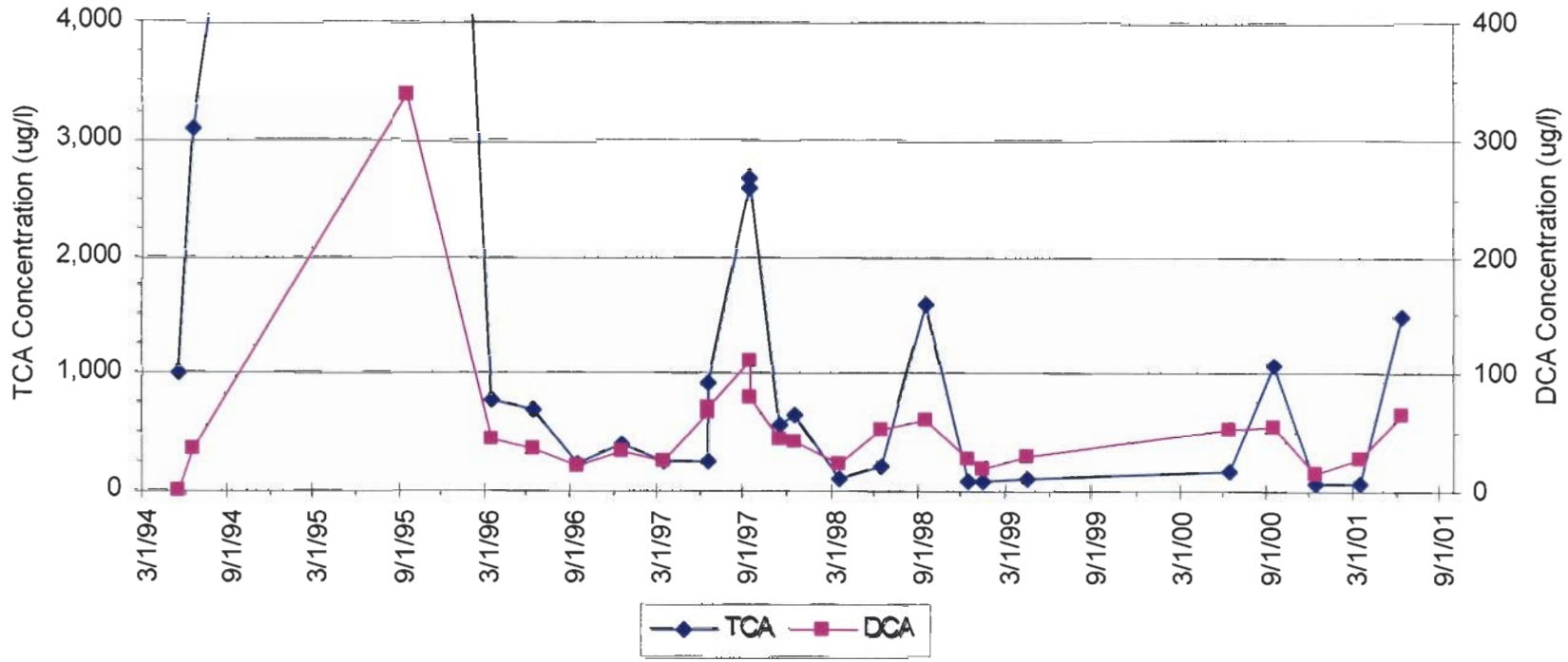
ENVIRON

DRAFTED BY: TSP | DATE: 7/30/01

GROUND WATER ELEVATIONS–JUNE 2001
FORMER BULOVA CORPORATION FACILITY
VALLEY STREAM, NEW YORK

FIGURE
2

1961AG4A



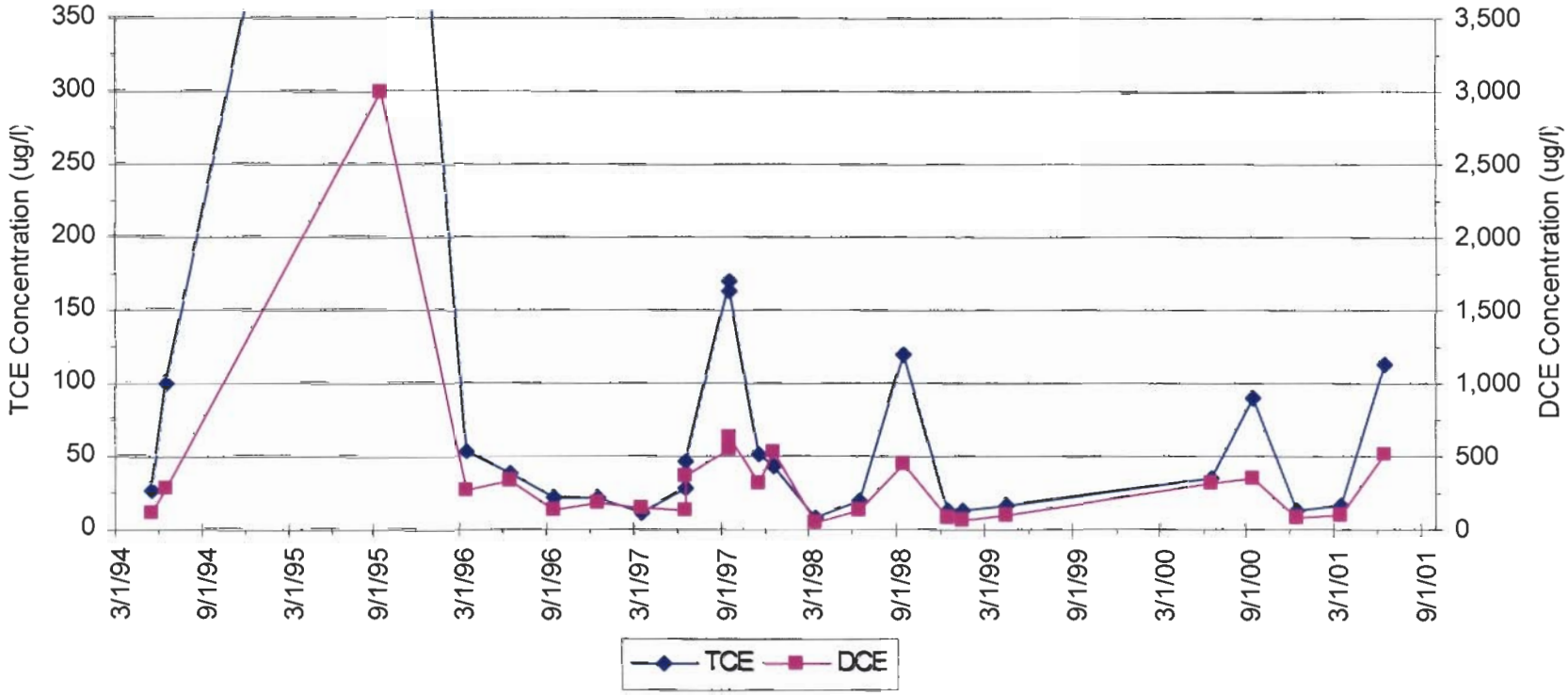
NOTE: REPORTED TCA CONCENTRATION DURING SEPTEMBER 1995 IS BEYOND SCALE OF FIGURE.

ENVIRON

DRAFTED BY: HFZ/KPM | DATE: 2/3/01

TCA/DCA Concentrations - MW-HD4
Former Bulova Corporation Facility
Valley Stream, New York

FIGURE
3
021961AD02.PPT



NOTE: REPORTED TCE CONCENTRATION DURING SEPTEMBER 1995 IS BEYOND SCALE OF FIGURE.

ENVIRON

DRAFTED BY: HFZ | DATE: 4/09/01

TCE/DCE Concentrations - MW-HD4
Former Bulova Corporation Facility
Valley Stream, New York

FIGURE
4
021961AD02.PPT

ATTACHMENT A

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT (DUSR)
BULOVA: VALLEY STREAM
SAMPLING EVENT – JUNE 2001

I. INTRODUCTION

During this sampling event, a total of seven aqueous samples, including wash and trip blanks were collected by ENVIRON and submitted to Accutest Laboratories in Dayton, New Jersey for analysis. The aqueous samples were analyzed for priority pollutant volatile organics (VOC) plus Freon 113 using SW846 Method 8260. Accutest prepared one data package (Job Number E93554) using the Category B Deliverables for New York Analytical Services Protocol (ASP).

ENVIRON reviewed the analytical and quality assurance/quality control (QA/QC) results contained in the data packages as well as the raw data. The data validation procedure and criteria were based on the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (February 1994), and the appropriate methods where applicable. The USEPA data qualifiers used in this report are listed in Table 1.

Overall, the data is acceptable. The data package provided by Accutest met the requirements for a DUSR. No data transfer deviations were identified.

The description of the data review is in Section II and summarizes the problems detected that required the qualification of data. All samples were successfully analyzed for the requested analyses.

TABLE 1 Data Qualifier Definitions	
The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process.	
U	The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of any analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

II. DATA REVIEW

VOLATILE ORGANIC ANALYSIS (SW846 Method 8260)

A. Technical Holding Time

The holding time requirement was met for all samples.

B. Instrument Performance Check

Method 8260 requires analysis within 12 hours of the instrument performance check. All field samples were analyzed within the 12 hour period following the injection of the BFB.

C. Calibration

Initial Calibration

No problems were identified during this review.

Continuing Calibration

No problems requiring data qualification were identified during this review.

D. Blanks

No problems were identified during this review.

E. Surrogate Standards

No problems requiring the qualification of data were identified during this review.

F. Matrix Spike/Matrix Spike Duplicate/Blank Spike (MS/MSD/BS)

The MS/MSD/BS analyses are used to determine long-term precision and accuracy of the analytical method for various matrices and/or sites. MS/MSD analyses are not used by themselves to qualify data points but are used in conjunction with other QC data to determine data usability issues.

No problems requiring the qualification of data were identified during this review.

G. Internal Standards

No problems were identified during this review.

H. Compound Identification, Quantitation and Detection Limits

No problems were identified during this review.

I. Overall Data Assessment

Data quality is acceptable.