



Ms. Sharon Trocher Work Assignment Manager U.S. Environmental Protection Agency 290 Broadway, 20th Floor New York, NY 10007-1866

SUBJECT:

USEPA RAC II CONTRACT NUMBER 68-W-98-214 WORK ASSIGNMENT NUMBER 109-RALR-0238 VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1 JUNE 2006 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the June 2006 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

A. Monthly Operations

The treatment system at the Vestal Water Supply Well operated for the entire month of June, with the exception of four days. On 26 June the system was shut down due to area flooding. The basement was pumped out and the system was restarted on 30 June. A summary of the operation and maintenance activities performed during June is as follows:

- The blower belts were replaced, and the motor was aligned;
- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- · Raked and mowed the grass at the facility; and
- The monthly influent and effluent samples were collected.

B. Operational Data

The following table presents operational data for the year 2006, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	45	517.5	23.1
February	28	45	517.5	20.9
March	31	45	517.5	23.1
April	30	45	517.5	22.4
May	31	38	437	19.5
June	26	32	368	13.8
Volume of groundwa	ater treated for 2006			122.8
Volume of groundwa	ater treated for the C)U-1		2,897.7

gpm - gallons per minute mg - millions of gallon



C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of June 2006 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Influent Concentration (ug/L)							Effluent Concentration						
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) June
Vinyl Chloride	2	0.5U	3.8	3.8	4.2	4.0	3.3							0.5 U
Chloroethane		0.5U	0.61	0.56	0.58	0.57	0.53							0.5 U
1,1-Dichloroethene*	5	3.2	11	10.0	11	10	9.1							0.5U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		1.2	4.3	3,9	3.9	3.8	3.4				_			0.5 U
Acetone		1.0U	1.0U	5.0U	1.0U	1.0U	1.0U							1.0 U
Methylene Chloride		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U							0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U							0.5 U
Methyl Tert-Butyl Ether		1.0	3.7	3.7	3.9	4.2	4.0							2.0
1,1-Dichloroethane	5	6.1	30	18	18	19	18							2.0
Cis-1,2-Dichloroethene*	5	14	45	45	46	48	43							5.8
Chloroform	7	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U							0.5 U
1,1,1-Trichloroethane*	5	42	150	130	140	150	120_							5.2
Trichloroethene*	5	15L	42	40	42	43	38							2.8
Total Volatile Organics*	100	82.5	280.41	254.96	269.58	282.57	239.33							17.8

Note:

ug/L = micrograms per liter

U = Below Reporting Limit

* = Site Contaminant of Concern

D. Next Month's Activities

The following activities are planned for July 2006:

- Replace the air stripper packing material and perform related repairs to the air stripper tower; and
- Perform monthly performance monitoring sampling.

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E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

Heidemarie Roldan Project Manager

Attachment

cc: P. Long (NYSDEC)

ATTACHMENT 1

		-

Case Narrative: Vestal 1-1. #06060005

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

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None

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs), where applicable, for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for Methyl Acetate in water is 0.5 ug/L (OLC03.2). The CRQL was raised to 5 ug/L due to problems associated with the initial calibration curve.

Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method)



U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

Data Report: Vestal Well 1-1 [06/06]

Project Number: 06060005

Program: Y206E

Project Leader: L. Arabia

Remark Codes	Explanation
ſſ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
j	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
R .	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
К	THE IDENTIFICATION OF THE ANALYTE'S ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
I	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC.	RESULT NOT ENTERED

Project Number: 06060005

*Sorted By Sample ID

AH02528

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 6/2/2006

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER Remark							
	Codes Units						
	0.50U ug/L	(8 t) 3					
。	0.50U ug/L	ju. a A					
000075014 VINYL CHLORIDE 3.3	ug/L						
,一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	0.50U ug/L	Sra"					
000075003 CHLOROETHANE 0.53	ug/L						
). 5 0U ug/L						
000075354 1,1-DICHLOROETHENE 9.1 1 2 9.1 1	ug/L.	of the local					
76-13-1 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE 3,4	ug/L						
).50U ug/L						
000067641 ACETONE	1.0U ug/L	halled rough					
79-20-9 METHYL ACETATE	5.0U ug/L						
000075092 METHYLENE CHLORIDE ().50U u g/L	on my 1 to v.					
000156605 TRANS-1,2-DICHLOROETHENE ().50U ug/L						
001634044 METHYL TERT-BUTYL ETHER 4.0	ug/L	74					
000075343 1,1-DICHLOROETHANE 18. 18.	i ug/L						
000156592 CIS-1,2-DICHLOROETHENE 43	ug/L						
・ 「「「「「「」」」、「「」」、「「」」、「「」」、「「」」、「」、「」、「」、「	.50U ug/L						
	1.0U ug/L	and a sent one					
	.50U 🔭 ng/L	glater on					
	.50U ug/L						
	tyg/L						
	.50U ug/L	4.1 N					
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	.50U ug/L	acts has the					
	.50U : pg/L	N. I					
	.50U ug/L	: \$\$\$6+7.1-767					
025323891 TRICHLOROETHENE	ug/L						
	.50U ug/L .50U * * ug/L						
2. 19 12 12 12 12 12 12 12 12 12 12 12 12 12	. 50U						
The state of the s	.50 U 🐧 🐧 ug/L 🎠						
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000108101 4-METHYL-2-PENTANONE 1							
000108883 TOLUENE 0.	.50U ug/L	€					
010061026 TRANS-1,3-DICHLOROPROPENE	5011 2 ng/L						
	50U ug/L	ONE DE TEN					
	50U 😲 ug/L 🔻						
000142289 1,3-DICHLOROPROPANE 0.	50U ug/L	Mar Mills - Si					
	50 U ug/L						
	50U ug/L	~					
	.0U ug/L	•					
	50U ug/L						

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/12/2006 7:04AM Page 2 of 5

Project Number: 06060005

*Sorted By Sample ID

AH02528

Field/Station ID: INFLUENT

Date Received: 6/2/2006

Matrix: Aqueous

Sample Description:

. '	Analysis Type: VO	DA GCMS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	Result	<u>Codes</u>	<u>Units</u>
	000630206	1,1,1,2-TETRACHLORGETHANE	1 X	0.50U	ug/L
	100-41-4	ETHYLBENZENE		0.50U	ug/L
ij	001330207	M/P-XYLENE:		0.50U	ug/L
	000095476	O-XYLENE		0.50 U	ug/L
	000100425	STYRENE * * * * * * * * * * * * * * * * * *	at the last of the same	0.500	ng/L
	000075252	BROMOFORM		0.50U	ug/L
	000098828	ISOPROPYLBENZENE		0.50U	üg/L ** ,
	000108861	BROMOBENZENE	***	0 .50U	ug/L
4	000096184	1,2,3-TRICHLOROPRO¥ANE	i - d igaki y	0.50U ,	ug/L
,	000079345	1,1,2,2-TETRACHLORCETHANE		0.50U	ug/L
∳ e	000103651	N-PROPYLBENZENE		0.50U 😘 🙏	ug/L
•	000095498	2-CHLOROTOLUENE		0.50U	ug/L
	106-43-4	4-CHLOROTOLUENE	4-00	0.50U 🦠 🖟	ug/L
	000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
	000098066	TERT-BUTYLBENZEN		0.50U 3	ug/L.,
	000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
	135-98-8	SEC-BUTYLBENZENE	944 A.	0.50U	ug/L
	000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
	000106467	1,4-DICHLOROBENZENE	· 2: 2 3 1 4		ug/L
	000095501	1,2-DICHLOROBENZENE	er status er erebes i sakkassa errebes erese	0.50U	ug/L
	000099876	4-ISOPROPYLTOLUENE			ug/L
	000104518	N-BUTYLBENZENE		0.50 U	ug/L
	000096128	1,2-DIBROMO-3-CHLOROPROPANE			ug/L
	000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
	87-68-3	HEXACHLOROBUTADIENE	13 d 12 m	0.50U	ug/L
	000091203	NAPHTHALENE		0.50 U	ug/L
	000087616	1,2,3-TRICHLOROBENZENE		0.50U** · *	ug/L
	1330-20-7	TOTAL XYLENES		and the second of the second o	ug/L
		ETHANE, 1,2-DICHLORO-1,1,2-TRIFL;RT=4,83	0.90	NI	ug/L

AH02529

Field/Station ID: EFFLUENT

Date Received: 6/2/2006

Matrix: Aqueous

Sample Description:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/12/2006 7:04AM Page 3 of 5

Project Number: 06060005

*Sorted By Sample ID

AH02529

Field/Station ID: EFFLUENT

Date Received: 6/2/2006

Matrix: Aqueous

Sample Description:

Analysis Type: Vo	OA GCMS LOW LEVEL DRINKING WATE	R	Remark	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	-	0.50U	ug/L
000074873			0.50U ·	ug/L
000075014	VINYL CHLORIDE		0.50U	ug/L
000074839	BROMOMETHANE	4.4 5.3 4.4 1.2 2.4 2.4		ng/L
000075003	CHLOROETHANE		0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE		0.50U * * *	belt. W
000075354	1,1-DICHLOROETHENE		0.50U	ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROE	NOANE CONTRACTOR CONTRACTOR	0.500	ug/L
000075150	CARBON DISULFIDE	1.	0.50U	ug/L
000067641	ACETONE :	数据数据 14 18 44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.0U 🐩 🦥	ug/L
79-20-9	METHYL ACETATE		5.0U	ug/L
000075092	METHYLENE CHLORIDE		0.50U §	ug/L
000156605	TRANS-1,2-DICHLOROETHENE		0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	1. · · · · · · · · · · · · · · · · · · ·		ug/L
000075343	1,1-DICHLOROETHANE	2.0		ug/L
000156592	CIS-1,2-DICHLOROETHENE	1 4 4 5 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		ug/L.
594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE			ug/L = [
000074975	BROMOCHLOROMETHANE		0.50U	ug/L
000067663	CHLOROFORM 2		0.50U	yg/L 📜 👔
71-55-6	1,1,1-TRICHLOROETHANE	5.2	and the state of t	ug/L
110-82-7	CYCLOHEXANE TO THE STATE OF THE			ug/L
000056235	CARBON TETRACHLORIDE			ug/L
- A-1 - A	1.1-DICHLOROPROPENE		PALL AND DESCRIPTION OF THE PARTY OF THE PAR	pe/L
000071432	BENZENE			ug/L
000107062	1,2-DICHLOROBTHANE	A STATE OF THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PR	0.500	(MRSH: matter) - NARBON CA CARRON (CA AN) - 1 C. A
025323891 108-87-2	TRICHLOROETHENE	2.8		ug/L
000078875	METHYLCYCLOHEXANE	THE REPORT OF THE PROPERTY OF	area and the control of the control	ug/L
000074953	DIBROMOMETHANE			ug/L ug/L
000074933	BROMODICHLOROMETHANE			ug/L
010061015	CIS-1,3-DICHLOROPROPENE			ug/L ug/L
000108101	4-METHYL-2-PENTANONE			ug/L
000108101	TOLUENE TOLUENE			ug/L ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	人。人。大学工作、工作、公司公司的等等。人、公司公司公司的等等。人、公司公司公司的等等。人、公司公司公司公司会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会	CONTROL OF THE PROPERTY AND THE PERSON	ug/L
000079005	1,1,2-TRICHLOROETHANE			ug/L ug/L
000127184	TETRACHLOROETHENE	。 1. 1. 1987 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		ug/L
000127184	1,3-DICHLOROPROPANE			ug/L ug/L
000112207			Y*XMX 036 ()	~ <i>~</i> ~

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/12/2006 7:04AM

Project Number: 06060005

*Sorted By Sample ID

AH02529

Field/Station ID: EFFLUENT

Date Received: 6/2/2006

Matrix: Aqueous

Sample Description:

Analysis	Type: VO	A GCMS LOW LEVEL DRINKI	NG WATER			Remark_	
CAS	Number	Analyte Name			Result	Codes	<u>Units</u>
	24481	DIBROMOCHLOROMETHA	NE			0.50U	ug/L
	06934	1,2-DIBROMOETHANE	*			0.50U	ug/L
	91786	2-HEXANONE	erek a series ere	and the second s	rio ing A lika Salah Jawa Salah Sal	1.0 U	ug/L
	08907	CHLOROBENZENE				0.50U 👙 🖁 🖟	ug/L
	30206	1,1,1,2-TETRACHLOROETH	ANE	The State of	* 14. **********************************	0.50U	ug/L
	11-4	ETHYLBENZENE .				0.50U 🗼 🖟	ug/L 🚜 💎
	30207	M/P-XYLENE				0.50U	ug/L
	95476	O-XYLENB	THE YEAR P			0.500 Page	ug/L
00010	00425	STYRENE				0.50U	ug/L
0000	75252	BROMOFORM			A CONTRACTOR	0.50U	ug/L
00009	98828	ISOPROPYLBENZENE	TO THE PERSON ASSESSMENT OF THE PERSON NAMED IN			0.50U	ug/L
00010	08861,	BROMOBENZENE	N. Frince			0.50U	ug/L
00009	96184	1,2,3-TRICHLOROPROFANE		AND AND LINE AND		0.50U	ug/L
00007	79345	1,1,2,2-TETRACHLORGETH	ANE	7 7 7 7 1 1 1		0.50U 🛴 🐉 🗦	ug/L
00010	03651	N-PROPYLBENZENE	A DESCRIPTION OF COMPANY AND ADDRESS ASSAULT			0.50U	ug/L
00009	95498	2-CHLOROTOLUENE				0.50U ·	ug/L
106-4	3-4	4-CHLOROTOLUENE				0.50U	ug/L
)8678	1,3,5-TRIMETHYLBENZENE			1-17 W	0.500	ug/L/U
00009		TERT-BUTYLBENZENE				0.50U	ug/L
	5636	1,2,4-TRIMETHYLBENZENE				0.50U*** * *	ug/L
135-9		SEC-BUTYLBENZENE			portugues in the suppression of the suppression of the	0.50U	ug/L
00054		1,3-DICHLOROBENZENE	**************************************			0.50U 🖟 🐔	ug/L
00010		1,4-DICHLOROBENZENE	The company of the company of the company of the company of	\$2000 PECO O - EAS 500 US - 21 - 500			ug/L
	05501	1,2-DICHLOROBENZENE	1200		14-73 & S.A.	0.500	ug/L
00009		4-ISOPROPYLTOLUENE				0.50U	ug/L
	14518	N-BUTYLBENZENB.			The state of the s		ug/L.
00009		1,2-DIBROMO-3-CHLOROPR					ug/L
00012	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,2,4-TRICHLOROBENZENE					ug/L
87-68		HEXACHLOROBUTAD ENE					ug/L
00009		NAPHTHALENB ***			(本) (10 mm) (通信: **** 文 中 译 图 # 图 # 图 # 图 # 图 # 2 # 2 # 2 # 2 # 2 #	ug/L
00008		1,2,3-TRICHLOROBENZENE	Hitali (no bankana wa 1974)	的性性感 (1985年2011年 - 1979年 1986			ug/L
1330-	20-7	TOTAL XYLENES			1-7 X	0.50U: 🐉 📜	ug/L

Project Approval: Date: 7-17-06

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/12/2006 7:04AM Page 5 of 5