



13 May 2005 RAC II-2005-072

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 MARCH 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the March 2005 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 continuously in manual mode for the entire month. A summary of the operation and maintenance activities performed during March is as follows:

- · Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Snow removal activities were performed;
- System adjustments were made to restore auto mode of operation (this was not successful); and
- The monthly influent and effluent samples were collected.



B. Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)	
January	31	47	541	24.2	
February	28	46	529	21.3	
March	March 31 45 517.5				
Volume of groundw	67.9				
Volume of groundw	2671.3				

gpm - gallons per minute mg - millions of gallons

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 March 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge		Influent Concentration (u					(ug/L)				Effluent Concentration		
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4										0.5 U
Chloroethane		0.5	0.6	0.5										0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4										0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6										0.5 U
Acetone		1.0 U	2.3	1.0 U										1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U										0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3										1.8
1,1-Dichloroethane	5	18	17	17										2.5
Cis-1,2-Dichloroethene*	5	50	46	46										7.3
Chloroform	7	0.5 U	0.5 U	0.5 U										0.5 U
1,1,1-Trichloroethane*	5	110	120	110										7.2
Trichloroethene*	5	43	40	40										4.0
Total Volatile Organics*	100	245.8	246.3	232.2										22.8

Note:

ug/L = micrograms per liter

* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

D. Next Month's Activities

The following activities are planned for April 2005:

- · Paint pump house, weather permitting;
- · Repair chlorinator pipe;
- Replace sump pump in basement;
- · Troubleshoot auto mode system; and
- · Perform monthly performance monitoring sampling.

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) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio

Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Lucady DeMais



<u>Case Narrative:</u> Vestal 1-1. #05030011

The Laboratory has met all data quality objectives, e.g., Target Reporting Limits, Accuracy and Precision, established for this project except were noted below.

Comment(s):

None

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

Method(s):

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

Approval: ______ Date: 4-23-05

U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: Vestal Well 1-1 [03/05]

Project Number: 05030011

Program: Y206E

Project Leader: L. Arabia

Remark Codes	Explanation
U	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 CONTROLPROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
К	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	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: 05030011

*Sorted By Sample ID

AG00432

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 3/4/2005

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Resu	lt <u>Codes</u>	<u>Units</u>
75434	DICHLORODIFLUOROMETHANE		0.50U	no rug/L
000074873	CHLOROMETHANE		0.50U	ug/L
33,2000075014	VINYL CHLORIDE WAS A TOWN			Tab/Lab/
000074839	BROMOMETHANE	The second secon	0.50U	ug/L
000075003	CHLOROETHANE TRICKING OF THANK	· 12/14/2014 PL 05	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE 1,1-DICHLOROETHENE		0.300	ug/L ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHAN	E 2.0		ug/L
1000075150	CARBON DISULFIDE	三、张沙、金属年	(0.50U	ug/LT H
000067641	ACETONE	And the Control of th	1.0U	ug/L
1.579720-9	METHYL ACETATE 1		0.50U	Laug/L
000075092	METHYLENE CHLORIDE TRANS-12-DICHEOROETHENE	acz walacz krale dago	0.50U 0.50U	ug/L
001634044	MINISTRACY COMMERCIAL STREET			and State of the second
The second secon	IA-DICHLOROETHANE.	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	enting at American Court	A CHAIN AND A
000156592	CIS-1,2-DICHLOROETHENE	46		ug/L
594-20-7-	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE		1.0U	ug/L
000074975	BROMOCHLOROMETHANE		0.50U	ug/L
000067663	CHLOROFORM		0.50U	ug/L
171-55-6 110-82-7	1,1,1-TRICHLOROETHANE CYCLOHEXANE		constitution of the control of the c	ug/L ug/L
110-82-7	CARBON TETRACHLORIDE		0.500	a we/L
000563586	1.1-DIOHLOROPROPENE	Carlo Barrer de Carlo Barrer de Carlo Barrer	0.50U	ug/L
000071432	BENZENE THE STATE OF THE STATE	SPHIEFER BEING 1985	0.500	THE RESERVE TO THE
000107062	1,2-DICHLOROETHANE		0.50U	ug/L
025323891	TRICHLOROETHENE	4.0	Committee of the party of the p	ug/L
108-87-2	METHYLCYCLOHEXANE	and the second of	0,50U	ug/L
000078875	1,2-DICHLOROPROPANE	20 种种产品的一	0.50U	ug/D
000074953	DIBROMOMETHANE BROMODICHLOROMETHANE		0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
000108101	4-METHYL-2-PENTANONE		CONTRACTOR	数据加加 持非
000108883	TOLUENE	74. 7	0.50U	ug/L of the
Fig. 37 1010061026	PRANKE DICHIOREPROPENE		-1849 #10.50U8- -0.50U*	社会政府包括共和
000079005	1,1,2-TRICHLOROETHANE TETRACHLOROETHENE		0.50U	ug/L ug/L
000142289	1,3-DICHLOROPROPANE		0.50U	ug/L
E1	DIBROMOCHLOROMETHANE	013 4 M 101 4 7 1 1 2 1	Here disory	* Trug/L* #11.11
000106934	1,2-DIBROMOETHANE		0,50U	ug/L
36 3 000591786	2-HEXANONE CONTRACTOR OF THE STATE OF THE ST			计算操作 對原
-000108907	CHLOROBENZENE		0.500	ug/L

lefer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM

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Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

ramijoto rypor .			Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
100-41-4	ETHYLBENZENE	140 - 140	0.50U	ug/L
001330207	M/P: XYLENEX		120000	rig/L
000095476	O-XYLENE	14	0.50U	ug/L
000100425	STYRENE CO. A. S.		0.500	100/15
000075252	BROMOFORM	用始 與	0.50U	ug/L
000098828	ISOPROPYLIBENZENE	胡椒素一個沙	0.500	"ug/L
000108861	BROMOBENZENE		0.50U	ug/L
2000096184	E23-TRICHEOROPROPANE		0,50U	理任政治
000079345	THE RESERVE AND ADDRESS OF THE PARTY OF THE		0.500	ug/L
000103651	Nankobaterancese at the second second	医医牙氏的	NEOSOU ARE	Sug/L
000095498	2-CHLOROTOLUENE		0.50U	ug/L
106-43-4	4-CHLOROTOLUENE		0.500	dg/L
000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066	TERT-BUTYLBENZENE		0.50U	sking/Language
000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	TELESTEE STATE
000541731	1,3-DICHLOROBENZENE		0,50U	ug/L
000106467	FAEDICHILOROBENZENE		0.500	Tell 1
000095501	1,2-DICHLOROBENZENE	-	+0.50U	ng/L
000099876	HA-INOPROPYLICATIONS HAR TO A STREET AND AND A STREET AND A STREET		2 0500	- 12/11/2011
000104518	N-BUTYEBENZENE		0.50U	ug/L
000096128	1.2-DIBROMO-3-CHLOROPROPANE		0.50U / 13	HE/LANDERS
000120821	1,2,4-TRICHLOROBENZENE	9.00	0.50U	ug/L
16.67 - 16.87 - 16.83 15.51	HEXAGELOROBUTADIENE		0.500	
000091203	NAPHTHALENE		0.50U	ug/L
0.000	23-TRICHIOROBENZENE *** *** *************************	连续 玩路上沒	0.500	
1330-20-7	TOTAL XYLENES		0.500	ng/L
国际等的工程	ETHANE,1,2-DICHLORO-1,1,2-TRIFLRIRT=4.56	0.55	NJ .	ug/L

AG00433

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 3/4/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM Page 3 of 5

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Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

	A GCMS LOW LEVEL DRINKING WATER	D14	Remark_ <u>Codes</u>	T.T. See
<u>CAS Number</u> -75-43-4	Analyte Name DICHLORODIFLUOROMETHANE	<u>Result</u>	0.50U	Units ug/L
000074873	CHLOROMETHANE		0.50U A	ug L ne/L
000075014	VINYL CHLORIDE		0.50U	ug/L
000074839	BROMOMETHANE		1.050U - C	LODE CONT.
2 000075003	CHLOROETHANE.	# 	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE		0.50U 	ug/L
000075354	1,1-DICHLORÖETHENE 1,1,2-TRICHLORO-1,2,2-TRIFLUORGETHANE	WILL SHEET SEE	450500 H	ug/L ug/L
000075150	CARBON DISULFIDE		0.50U	ug/L
######################################	ASID COME			BELOT HINK
79-20-9	METHYL ACETATE		0.500	ug/L # white
000075092	METHYLENE CHLORIDE	的数据与基础	2 0 50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE METHYL TERT-BUTYL ETHER	1.8	0.50U	ug/L ug/L
000075343	1,1-DICHLOROETHANE	2.5		ug/L
000156592	CIS-1,2-DICHLOROETHENE	學科學企業有30萬學	NAME OF THE PARTY.	ug/L
594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE A THE STATE OF THE S	图5550000000000000000000000000000000000	THE LOUIS	ug/L
000074975	BROMOCHLOROMETHANE CHEOROGORM		0.50U 0.50U	ug/L
71-55-6	14.1-TRICHLOROETHANE	1 1 2 72		ug/L
110-82-7	CYCLOHEXANE		0.5001	tung/LT
000056235	CARBON TETRACHLORIDE		0.50U 0.50U	ug/L ug/L
000071432	BENZENE		0.500	ng/L
.000107062	1.2-DICHLOROETHANE		0.50U	TO/L
025323891	TRICHLOROETHENE METHYLOYOLOHEXANE	· 4.0 · 5	uken emelderi	ug/L
000078875	1,2-DICHLOROPROPANE DIBROMOMETALNIE		0.50U-3	ug/L
000075274	BROMODICHLOROMETHANE (IIS. 1.1-DICHLOROPEDPEND 1)	Mark 1	0.500	. lig/L
000108101	45METHYL-2-PENTANONE ROLLIENE		1.0U 550.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		0.50U	ug/L
000127184	TETRACHLOROBULENE	Charles III Secondario	0.500	ug/L
2000)(492/480)	TENNES TO THE TOTAL STATE OF THE STATE OF TH	经制度 表示 电		

Refer to Page 1 for an explanation of Remark Codes

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Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_		
CAS Number	Analyte Name	Result	Codes	<u>Units</u>	
000124481	DIBROMOCHLOROMETHANE	温度 医电阻性 告告	0.5 0 U	ug/L	
000106934	1,2-DIBROMOETHANE	*************************************	-0.500 423	Trug/L	
000591786	2-HEXANONE		1.00	ug/L	
000108907	CHLOROBENZENE	国的国际中的关键 能使何时以来	0.500	A rue/L	
- 000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L	
1, 1,200-41-4	ETHYLBENZENE	AND THE PARTY OF THE PARTY OF THE PARTY.	0.500	人的人	
001330207	MP-XYLENE		0.500	ug/L	
000095476 000100425	O-XYLENE STYRENE	《公共》,但以此为《公共》	0.50U	ug/L ug/L	
000100423	BROMORORA SALA SALA SALA SALA SALA SALA SALA SA				
000098828	ISOPROPYLBENZENE	The second secon	0.50U	ug/L	
1000108861	BROMOBENZENE		0.500	Wild Live Control	
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L	
000079345	1,1,2,2-TETRACHLOROETHANE	TOPE TO MENT THE SECOND	0.500	ug/L	
000103651	N-PROPYLBENZENE	39.445。24W — 2	0.50U	ig/L	
000095498	240HLOROGOLUENB	^{表型,} 與其實 用。 第二, 與其一 數	0500	Jug/L	
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L	
000108678	1,3,5-TRIMETHYLBENZENE	(A) (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	0,50U	ug/L	
000098066	TERT-BUTYLBENZENE		0.50U	ug/L	
000095636	12,4 TRIMETHYLBENZENE	The Manney Later 19	0.500	14/10/1	
135-98-8	SEC-BUTYLBENZENE	4 (0.50U	ug/L	
000541731 000106467	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE	E CAN MELL BANK CONTRACT	0.50U 0.50U	ug/L ug/L	
000100467	1,4-DICHLOROBENZENE		0.500		
000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L	
000104518	N-BUTYLBENZENER		0.500	ug/L	
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L	
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	12,4 TRICHLORGEENZENE	Subsect of A Thinking Charles	A 400 500 F 48		
87-68-3	HEXACHLOROBUTADIENE	forth the second of the	0.50U	ug/L	
000091203	NAPHTHALENE	A THE STATE OF THE	- PO-50U	Ling/L	
000087616	1,2,3-TRICHLOROBENZENE	Charles of the Control of the	0.50U	ug/L	
1330-20-7	TOTAL XYLLOUS 1918 BLUE 1		10,500	Talgit 4.	

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM

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