

13 May 2005 RAC II-2005-071

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 FEBRUARY 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the February 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 until 19 February when the system shut down due to a clearwater pump malfunction. The system could not be restarted in auto mode, so the system operated in manual mode for the remainder of the month. A summary of the operation and maintenance activities performed during February is as follows:

- Routine cleaning and 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	21.3	
Volume of groundw	45.5			
Volume of groundw	2648.9			

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 of February 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 (ug/L)							Effluent Concentration				
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											0.5 U
Chloroethane		0.5	0.6											0.5 U
1,1-Dichloroethene*	5	13	9.3											0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9											0.5 U
Acetone		1.0 U	2.3											1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U											0.5 U
Methyl Tert-Butyl Ether		4.7	4.3											2.7
1,1-Dichloroethane	5	18	17											2.5
Cis-1,2-Dichloroethene*	5	50	46											7.3
Chloroform	7	0.5 U	0.5 U											0.5 U
1,1,1-Trichloroethane*	5	110	120											6.9
Trichloroethene*	5	43	40											3.8
Total Volatile Organics*	100	245.8	246.3											23.2

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 March 2005:

- Paint pump house, weather permitting;
- · Repair chlorinator pipe;
- 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,

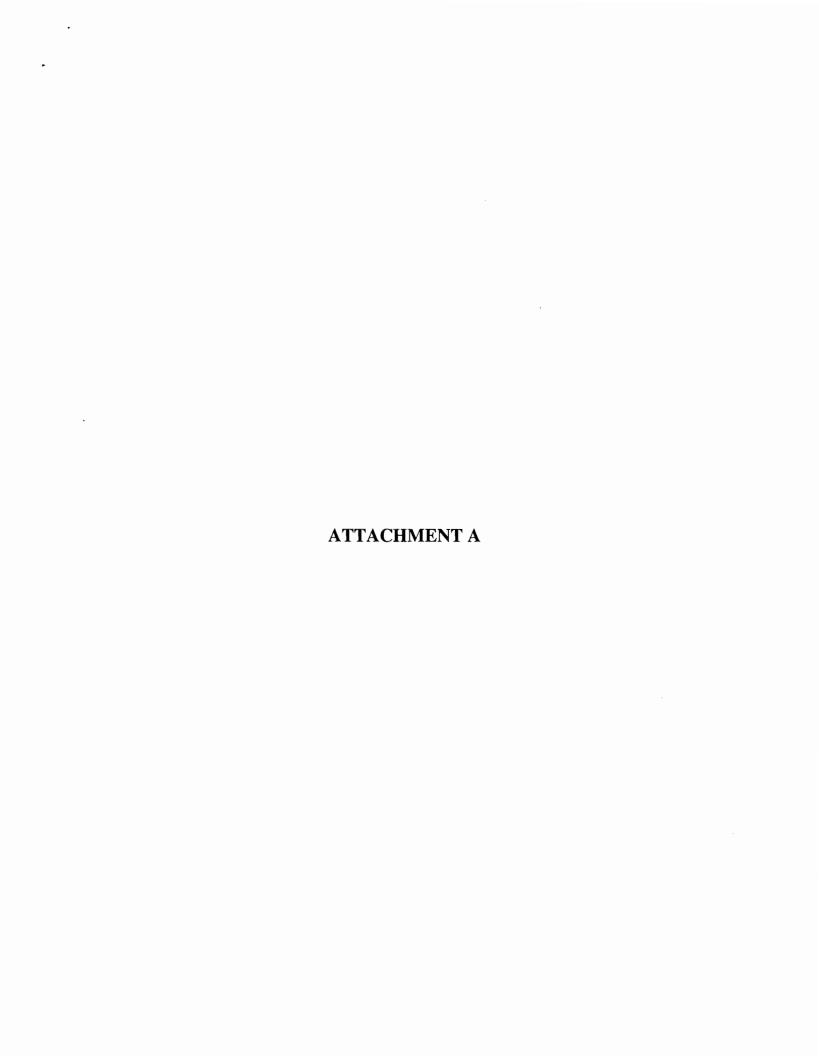
Wendy DeMaio

Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Lebendy DeMais



<u>Case Narrative:</u> Vestal 1-1. #05020030

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: 4-6-05

U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: VESTAL WELL
Project Number: 05020030

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 CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
K	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: 05020030

*Sorted By Sample ID

AG00319

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Analysis Type:	VOA GCMS LOW LEVEL DRINKING WATER			Remark_	
CAS Number		And I continue a series	Result	<u>Codes</u>	<u>Units</u>
75-43-4 000074873 000075014	DICHLORODIFLUOROMETHANE CHLOROMETHANE VINYISCHLORIDE		10 1 4- 10 10 20	0.50U - 0.50U	ug/L ug/L
000074839	BROMOMETHANE TCHLOROETHANE		0.60	0.50U	ug/L ap/L
000075694 000075354	TRICHLOROFLUOROMETHANE		0.3	0,500	ug/L
76-13-1 000075150	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE CARBON DISULPIDE		2.9	0.500	ug/L ue/L
000067641 79.20.9	ACETONE METHYL ACETATE		2.3	74/030U	ug/L ug/L
000075092	METHYLENE CHLORIDE			0.50U	tig/L
001634044	EMETERVO TERATOROLO ESPEDIA TE LIDIGIENO ROTESTISANTE		17 4 3 17 1 1 1		10g/L
000156592 59420-7	CIS-1,2-DICHLOROETHENE 2,2-DICHLOROPROPANE		46	0.50U	ug/L ng/L
000078933 000074975	2-BUTANONE BROMOCHLOROMETHANE			1,0U 0,50U	ug/L ug/L
000067663	CHLOROFORM LATERICHLOROETHANE			0.50U	ug/L
110-82-7	CYCLOHEXANE CARBON TETRACHLORIDE			0.50U 0.50U/Z	ug/L
000563586	L HOICHEOROPROPENE	1448年		. 0.500 	ug/L ()
000107062	L2-DICHLOROETHANE TRIGHT ORDETHENS		10	0.50U	ug/L
108-87-2	METHYLCYCLOHEXANE 123DICELOROPROPANE			0.50U	ng/L
000074953	DIBROMOMETHANE BE VIOLE HORDER TANK			0.500	ug/L
010061015	GIS-1,3-DICHLOROPROPENE	1975年		0.500	ug/L
000/08883	TOPUENE AND THE REAL PROPERTY OF THE PARTY O			0.500	ug/L >
000079005	1.1.2-TRICHLOROETHANE TEERACHTOROETHANE			0.500	ug/L
000142289	TAGEDICHLOROPROPANE DERCOMO CHIOROMETERNE	2.794		0,500	ug/L
000106934 000591365	1,2-DBROMOFTHANE			0300	ng/E-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A
000108907	CHLOROBENZENE (1994)			0.500-2	eug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM

Project Number: 05020030

*Sorted By Sample ID

AG00319

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000630206	PALITECTURE RESIDENCE DE LA COMPANIO DEL COM		0,500	tig/L
100-41-4	ETHYLBENZENE	4 4 5	- 0.50U	ug/L
001330207	MIP-XYLENE		0500 \$	DELETE STATE
000095476	O-XYLENE .		0,50U	ug/L
000100425	SEVRENG	Libert in her	0.500	
000075252	BROMOFORM	****	0.50U	ug/L
000098828	PSOPROPMEDENZENE		0.50005	
000108861 0000961842	BROMOBENZENE STERNINGEROPANE		0.50U 0.50U	ug/L
7 000079345	SERVICE SERVICES (SERVICE)	<u> —</u>	0.508	Y wyl
000103651	SIGNATURE SALES CONTRACTOR OF THE SALES CONTRACTOR OF	erene e e e e e	.4300	
000095498	2-CHLOROTOLUENE	4 1	0.50U	ug/L
\$2,106,43,4	S 2HCHICOROMODUBNE	A-200	0.500	right t
000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066	TERT-BUTYCBENZENE		10.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
135498-8	SPE BUT VLBBNZBNE		0.500	THE LETTER STATE OF THE STATE O
000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
000106467	A MEDIC HEOROBENSONE		05000	A DEL
000095501	12-DICHLOROBENZENE	4	0.50U	ug/L
3 3000009876	ersengelari i compunit.		0.500	BANK THE SECOND
000104518	N-BUTYLBENZENE	entre et proteste	0.500	ug/L Lug/L
000096128	L2-DIBROMOS) CHILOROPROPANI L2-4-TRICHLOROBENZENE		0.50U	ug/L
000120821	HEXACHLOROBUTADIENE	and the last of the last	0500	
000091203	NAPHTHALENE		0.50U	ug/L
	ESPERANTRICHI DORORENZENE ESPERANTE ESPERANTE		SULPANIES I	MANUFACTURE AND ADDRESS OF THE PARTY OF THE
1330:20-7	POWAL WYFENES	494-58	0.50U	and the state of
型 的图象 数据的 型	PETHANG 112-DICHEORO-MIZ-TRUERU-AGO (* 1150)	F 0.58 37		SCOOL AND A

AG00320

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM

Page 3 of 5

Project Number: 05020030

*Sorted By Sample ID

AG00320

Field/Station ID: EFFLUENT

Date Received: 2/22/2005

Matrix: Aqueous

Sample Description:

75-43-4 DICHLORODIFLUOROMETHANE	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER			Remark_	
100074874 CHLOROME TEARE				Result	<u>Codes</u>	
000075014 VINYL CHLORIDE	12-4 CO 12-12 12-220 12-22 12-22 12-22 12-22 12-22 12-22 12-22 12-22 12-22 12-22 12-					Service may graden
Dig074839 BROMOMETHANE						SERVICE CONTRACTOR CON
0,00075003 CHLOROETHANE	A THE RESERVE OF THE PROPERTY			unicaria de la como		The state of the s
Digit Digi			1.0000000000000000000000000000000000000			
15-18-7 11-2-TRICHLOROFIE D'URIREUORDETHANE 0.50 UE/L	22 TF \$23(FIRE)				0.445	and the state of t
000075150 CARBON DISULFIDE	000075354		140 160 400			ug/L
TOUR 1641 ACE FORE TOUR				45		
79-20-9 METHYL-ACETATES					0.50U	ug/L
000076092 METHYLERECHIORIDE						
000156605 TRANS-1,2-DICHLOROETHENE					About the state of	The second second second second
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1,1-DICHLOROETHANE 2.5 ug/L	The second of th			2/2/12/2006		and the second second second
594-20-7 2,2-DICHLOROPROPANE - 0.50U ug/L			A CONTRACTOR OF THE PARTY OF TH	2.5	1000	CONTRACTOR OF STREET, SALES OF STREET, S
000074975 BROMOCHLOROMETHANE	The state of the s	CIS-12-DIGHLOROFTHEND SOME	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	473 44		
000074975 BROMOCHLOROMETHANE					100 Sec. 100	ug/L
1000067663 CHEOROFORM 1	The state of the s			从云线域的		TANKS OF THE RESIDENCE OF THE PARTY OF THE P
71.555-6						
10-82- CYGLOHIKANIE						
000056235 CARBON TETRACHLORIDE	Land Control of the C				nikari ka sasa	
000071432 BENZENE			AR BENEFIT ALL THE TOTAL			TO A TO STOCK STREET, AND DESCRIPTION OF THE PARTY OF THE
000071432 BENZENE			ACCUSED THE	APPENDING TO SERVICE		and the second second
D25323891 TRICHLORGETHENE 3-8 Ug/L	-000071432	\$788\$\$\$\$\$\$ - \$144\$		h	0.50U	ug/L
ORE THE LEVIC CACLE CARE O.50U OPL				Mark Control		
000078875 1,2-DICHLOROPROPANE	440.000.000.000.000		A THILLIAM	8.2	William Control	ug/L
000074958 DIBROMOMETTANE DISCONDING					P. C. 1927 & P.A. 1833 ## 1845 #	
0,500 BROMOBICHLOROMETRANE	1000	The state of the s			Was Property Code (A STATE OF THE STA
000108101: 4-METHYE-2-PENFANONE — 1,013 mg/c	\$100000 \$600000 \$20000 \$20000 \$2000 \$2000 \$2000 \$1000			enta Children sele		STATE OF THE STATE
000108101 4-METHYL-2-PENTANONE — 1.004 ug/L 000108883 TGLUENE 010061026 TRANS 34DICHLOROPROPENE						
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	010061026		1000	5	0.500	ug/L
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000127184 TETRACHLOROETHENE - 0.50U ug/L	000127184	TETRACHLOROETHENE	The state of the s		Principle of the Control of the Cont	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM Page 4 of 5

Project Number: 05020030

*Sorted By Sample ID

AG00320

Field/Station ID: EFFLUENT

Date Received: 2/22/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

inalysis Type.	OH GENIS BOW BEVER PRINTING WHILK		Remark_	
CAS Number	Analyte Name	<u>Result</u>	<u>Codes</u>	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE'S		0.50U	ug/L
37 000106934	POSTORINO MODERCEANE	企义员最高的股份		
000591786	2-HEXANONE		1.00	ug/L
24.42.2000108907	CHEOROBENZENE AND ASSAULTED	CONTRACTOR SERVICE CONTRACTOR	是一种的现在分词	AUPL AND
000630206	, I, I, 2-TETRACHLOROETHANE	- -	0.50U	ug/L
达进程 00414 公	ENHYLEBENZENE			ALC: COMP
001330207	M/P-XYLENE	· 1888年 市	0.50U	ug/L
000095476	COXMENS THE RELAX OF THE REST			Wife Light No.
000100425	STYRENE		0/0/50U	ug/L:
1111/6/202	ં ાકે (સંકાર્તાક) દેવા છે. જ્યારા ભાગમાં આવેલા માટે કે માર્ચ કરાવા છે.		0.500	
000098828	ISOPROPYLBENZENE BROMOBENZENE	- All the second	10.00D	ug/L
000096184	1,2,3-TRICHLOROPROPANE	A CONTRACTOR OF THE STATE OF TH	0.50U	ug/L
000079345	17.2:2-TETRACHLOROETHANE	Andread Control of Con	Control of the contro	ug/L
000103651	N-PROPYLBENZENE		0,50U	ug/L
000095498	2.2 CHICROTOLUENEOR CALLS	Principal Company of the Company of	samentakou en eur	
106-43-4	4-CHLOROTOLUENE	43 Sept. A 1991 1992 1992	0.50U	ug/L
000108678	#2135-TRIMETHYLBENZENE TAKE FOR	CANADA CANADA CANADA	20.500 24 × 0	ug/L
000098066	TERT-BUTYLBENZENE		0.50U	ug/L
000095636	SIZERIMENENEENVENE			Melea Hall
135-98-8	SEC-BUTYLBENZENE	《一种》《新兴》	0.50U	ug/L
2 po 000541781	FALSADIGHLOROBENZENE (% 1.5% of 1.5%)	5.基础的EV期间的 55.5%	5 23000 Page 1	MIQL 对数
000106467	1,4-DICHLOROBENZENE	- 10 m	0,50U	ug/L
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000099876	4-ISOPROPYLTOLUENE		.0.50U	ug/L
\$ 5000104518	NEUTYLBENZENE A A A A		22050172	1004 G
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ve/L
87-68-3	A POZGE ER LEPTA ENCOTT A VASOTA A PIEXZACHIE OR OBJETE A DIBNIE		0.500	ue/L
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000087616	A PREMICHIOROGENAUME	Marie Const.		197/L
1330-20-7	TOTALIXYLENES TO THE CONTROL OF THE			Sanula Sanul
ALL DESIGNATION OF THE PARTY OF		COMPANIES CONTRACTOR OF STREET		

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM

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Date: 4-6-05