

13 May 2005 RAC II-2005-069

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
JANUARY 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the January 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 for the entire month. A summary of the operation and maintenance activities performed during January is as follows:

- Routine cleaning and inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were replaced;
- · Snow removal activities were performed;
- The electric motors in two ceiling-mounted heating units were repaired; 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
Volume of groundw	24.2			
Volume of groundw	ater treated for th	e OU-1		2627.6

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 January 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							
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jup	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5												0.5 U
Chloroethane		0.5												0.5 U
1,1-Dichloroethene*	5	13												0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1												0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U												0.5 U
Methyl Tert-Butyl Ether		4.7												2.7
1,1-Dichloroethane	5	18												2.1
Cis-1,2-Dichloroethene*	5	50												7.0
Chloroform	7	0.5 U												0.5 U
1,1,1-Trichloroethane*	5	110					4							5.1
Trichloroethene*	5	43												3.3
Total Volatile Organics*	100	245.8												20.2

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 February 2005:

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

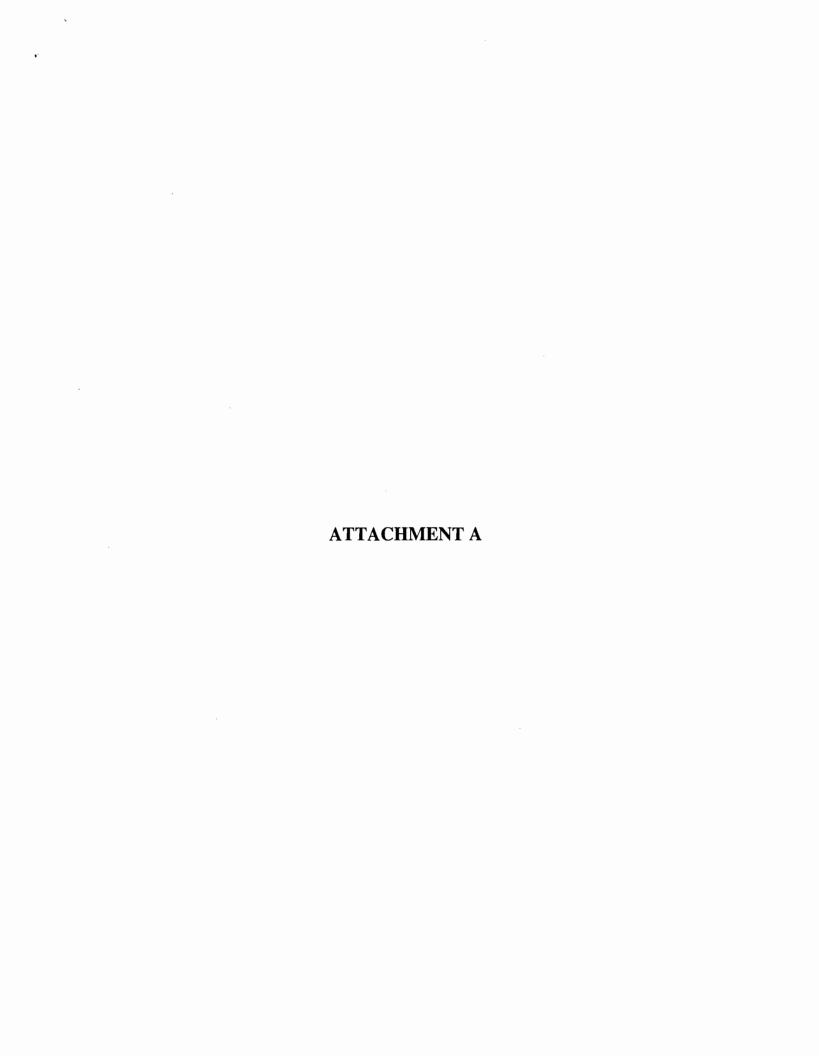
Wendy DeMaio

Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Wendy DeMais



Case Narrative:

Vestal 1-1. #05010027

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: 3-11-05

Data Report: VESTAL WELL
Project Number: 05010027

Program: Y206E

Project Leader: L. Arabia

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
l	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: 05010027

*Sorted By Sample ID

AG00181

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 1/28/2005

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

	Analysis Type: Vo	OA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
	₩ ₩ 5-43-4 .	DICHLORODIFLUOROMETHANE		0.50U	ug/L
	000074873	CHLOROMETHANE		0.50U	ug/L
j	± 000075014	VINYL CHLORIDE ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	3.5	40.10	ug/L
	000074839	BROMOMETHANE		0.50U	ug/L
	000075003	CHLOROETHANE	0.50	424	ug/L
	. 000075694	TRICHLOROFLUOROMETHANE		-0.50U	ug/L
	600075354	1,1-DICHLOROETHENE	18, 2		ug/L
	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3.1	e e altanti de	ug/L
	000075150	CARBON DISULFIDE		0.500	ug/L
	000067641	ACETONE METHYL ACETATE		1.0U • 0.50U	ug/L
	79 -20-9 000075092	METHYLENE CHLORIDE	1 A 7	0.50U	ug/L ug/L
	000075092 2000156605	TRANS-12-DICHLOROETHENE		0.50U	ug/L
and the	001634044	METHYL TERT-BUTYL ETHER	14:7	STATE OF	ug/L
, the g	000075843		* C # 118 * 1940	and the second	ug/L
	000156592	CIS-1,2-DICHLOROETHENE	50	***	ug/L
	× 594-20-7	2,2-DICHLÖRÖPRÖPÄNE	71	0.50U	ug/L
	000078933	2-BUTANONE		1. 0 U	ug/L
	000074975	BROMOCHLOROMETHANE	SER-MARK	0.50U	ug/L
	000067663	CHLOROFORM		0.50U	ug/L
	71-55-6.	1.1.1-TRICHLOROETHANE	110		ug/L
	110-82-7	CYCLOHEXANE		0.50U	ug/L
	000056235	CARBON TETRACHLORIDE	A Part Anna	0.50U	ii ug/L
	000563586	1,1-DICHLOROPROPENE	 Mensonalise (Company)	0,50U	ug/L
	000071432	BENZENE		0.50U 0.50U	riig/L
	000107062 025323891	1,2-DICHLOROETHANE TRICHLOROETHENE	 43 :	0.300	ug/L ug/L
	108-87-2	METHYLCYCLOHEXANE	A 7	0.50U	ug/L
	000078875	1.2-DICHLOROPROPANE	Harris Zzeren	0.500	ug/L
	000074953	DIBROMOMETHANE		0.50U	ug/L
	000075274	BROMODICHLOROMETHANE	ese e st in t	0.50U	ug/L
	010061015	CIS-1,3-DICHLOROPROPENE	422	0.50U	ug/L
7	000108101	4-METHYL-2-BENTANONE	4-60	1.0U N	ug/L
	000108883	TOLUENE	4.55	0.50U	ug/L
	* 010061026	TRANS CO-DICHEOROPROPEND		0.50U s	ug/L
	000079005	1,1,2-TRICHLOROETHANE	422 (154)	0.50U	ug/L
,	2000127184	TETRACHLOROETHENE	Control of	0.500	ug/L
	000142289	1,3-DICHLOROPROPANE	***	0.50U	ug/L
W .	- 000124481	DIBROMOCHLOROMETHANE	S. DESTENDING	0,50U 0,50U	== ug/L
	000106934 4000591786	1,2-DIBROMOETHANE 2-HEXANONE	<u>. </u>	0.500	ug/L
44	000108907	CHLOROBENZENE	F. C. State of the Control of the Co	0.50U	ug/L ug/L
	-0001007U1	CHECKEDERVERVE		0.200	ri R. T.

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 2 of 5

Project Number: 05010027

*Sorted By Sample ID

AG00181

Field/Station ID: INFLUENT

Date Received: 1/28/2005

Matrix: Aqueous

Sample Description:

Analysis Tyne: V	OA GCMS LOW LEVEL DRINKING WATE	CR			
	on demo how have blanking will			Remark_	
<u>CAS Number</u>	Analyte Name		Result	<u>Codes</u>	<u>Units</u>
000630206	1,1,1,2-TETRACHLOROETHANE			0.50U	ug/L
100-41-4	ETHYLBENZENE		0.7	0.50U	ug/L
001330207	M/P-XYLENE	Market Ball Control		0.50U	· ug/L
000095476	O-XYLENE		A. + 11	0.50U	ug/L
000100425	STYRENE		# 14	0.50U	ug/L
- 000075252	BROMOFORM			0.50U	ug/L
000098828	ISOPROPYLBENZENE	State that building	第二 海髓	0.500	ug/L
000108861	BROMOBENZENE			0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	A SHALLAND	a ar sist d	0.5011	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	Market Market and Market	4. E. 1966	0.500	ug/L
000103651	N-PROPYLBENZENE			O KOU	ug/L
000095498	2-CHLOROTOLUENE			0.50U	ug/L
106-43-4	4-CHLOROTOLUENE		4 76	0.50U	ug/L
.000108678	1,3,5-TRIMETHYLBENZENE		5.4	0.50U	ug/L
000098066	TERT BUTYLBENZENE	OLL ASSET	A	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE			0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	一种。) - 16	0.500	ng/L
000541731	1,3-DICHLOROBENZENE		A	0.50U	ug/L
000106467	1,4 DICHLOROBENZENE	Assertation of the authority	Martin A	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE			0.50U	ug/L
000099876	4-TSOPROPYLTOLUENE	是基本公司工作,在 在基本的	第二 次进制	0.500	ng/L
000104518	N-BUTYLBENZENE	第42 - 342指挥		0.50U	ng/L
000096128	* 1,2-DIBROMO-3-CHLOROPROPANE		1 1	0.50U	ug/L
.000120821	1,2,4-TRICHLOROBENZENE		01 46.50	0.50U	ug/L
87-68-33	HEXACHLOROBUTADIENE	海绵 岭上拉州	() <u>4.2</u> ()	+ 0.50U	og/Lill + f
000091203	NAPHTHALENE		-	0:50U	ug/L
000087616	12,3-TRICHLOROBENZENE	生之中 人类生物 打造	# A	0.500	100/L+147.16
1330-20-7	TOTAL XYLENES	新疆的		0.500	ng/L
STATE THE STATE OF	TOTAL IN DIMER NO 1 14 TOTAL IN	D DT-ANO E DE TON	0.54	NT	14.75

AG00182

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 1/28/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 3 of 5

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Field/Station ID: EFFLUENT

Date Received: 1/28/2005

Matrix: Aqueous

Sample Description:

	CAS Number	Analyte Name		Result	Remark_ <u>Codes</u>	Units
	75-43-4	DICHLORODIFLUOROMETHANE			0.50U	ug/L
	000074873	CHLOROMETHANE		10 to	0.50U	Jug/L
	000075014	VINYL CHLORIDE	Statement were		0.50U	ug/L
	000074839	BROMOMETHANE	11 (11)	Maria San	0.50U	ug/L
	000075003	CHLOROETHANE	A SERVICE OF COLUMN	12.45	0.50U	ug/L
	000075694	TRICHLOROFLUOROMETHANE		5662- 1	0.5000	ug/L
	000075354	1,1-DICHLOROETHENE		T	0.50U	ug/L
	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE			0.50U	ug/L
445	000075150	CARBON DISULFIDE	in the co	-	0.50U	ug/L
447	42,000067641	ACETONE HOW HE SHELD RESIDENCE TO THE COMMENT OF TH	an interest	Maria de	230000	Aug/District
	79-20-9	METHYL ACETATE		100 100 PM	0.50U	ug/L
	000075092	METHYLENE CHLORIDE	1.499		0.50U	ug/L
i v	000156605	TRANS-1,2-DICHLOROETHENE		100-	0.50U	ug/L
	.001634044	METHYL TERT BUTYL ETHER		2.7		ug/L
	000075343	1,1-DICHLOROETHANE	entire a magical	2.1		ug/L
	000156592	CIS-1,2-DICHLOROETHENE	14	7.0	《种种种》	T-lug/L
major i manahali	594-20-7	2,2-DICHLOROPROPANE		11 13	0.50U	ug/L
4	000078933	2-BUTANONE	1.5		1.0U	coug/L
	000074975	BROMOCHLOROMETHANE	40.00		0.50U	ug/L
	- 000067663	CHLOROFORM	-14		0:50U	ug/L
	71-55-6	1,1,1-TRICHLOROETHANE		5.1		ug/L
	110-82-7	GYCLOHEXANE			0.50U	ug/L
	000056235	CARBON TETRACHLORIDE	is consense.		0.50U	ug/L
	000563586	1,1-DICHLOROPROPENE		TI A	0.500	lug/L
	000071432	BENZENE		-	0.50U	ug/L
	000107062	1,2-DICHLOROETHANE		50270 19	0.50U	ug/L
	025323891	TRICHLOROETHENE	commission is not	3.3	Planta Situation	ug/L
	108-87-2	METHYLOYOLOHEXANE S. W. F. S.			0.300	e og/L
	000078875	1,2-DICHLOROPROPANE	a Managara		0.50U	ug/L
	000074953	DIBROMOMETHANE		# CMT	0.500	ug/L
	000075274	BROMODICHLOROMETHANE			0.50U	ug/L
145	010061015	CIS-1,3-DICHLOROPKOPENE		THE RES	0.600	a ng/L
	000108101	4-METHYL-2-PENTANONE	ne navious		1.0U	ug/L
1 -	000108883	TOLUENE			0.500	A ng/L
101901-7724	010061026	TRANS-1,3-DICHLOROPROPENE			0.50U	ug/L
	000079005	1,12-TRICHLOROBTHANE			0.500	i ug/L
	000127184	TETRACHLOROETHENE	14 HANDE 9	t design to the second	0.50U	ug/L
	000142289	1.3-DICHLOROPROPANE	1988	THE PERSON NAMED IN	0.500	Toug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 4 of 5

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Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type. V	DA GENIS LOW LEVEL DRINKING WATER			Remark_	
CAS Number	Analyte Name		Result	<u>Codes</u>	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE			0.50U	ug/L
000106934	1,2-DIBROMOETHANE			0.50U	ug/L
000591786	2-HEXANONE	建		1.0U	ug/L
000108907	ECHLOROBENZENE	4		0.500	t ug/L
000630206	1,1,1,2-TETRACHLOROETHANE		47	0.50U	ug/L
100-41-4	ETHYLBENZENE	十一个在一个	1	0.50U	-ug/L
001330207	M/P-XYLENE	建造影响	K	0.50U	ug/L
000095476	Q-XYLENE	以 (1984年)		0.50U	ug/L
000100425	STYRENE		A 6	0.50U	ug/L
**** *** 000075252	BROMOFORM TO THE PARTY OF THE P	4.4	10年2月1日	0.500/2	
000098828	ISOPROPYLBENZENE			0,50U	ug/L
000108861	BROMOBENZENE	一种的数	***	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	一种种种种类似		0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	第一个是数据的		0.50U	ug/L
000103651	N-PROPYLBENZENE		Q	0.50U	ug/L
- 000095498	2-CHLOROTOLUENE	"一个人就是 你是	Marie Sile	0.501	sug/L
106-43-4	4-CHLOROTOLUENE	建筑型数 值		0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	一种	\$ 1	0.500	ng/L
000098066	TERT-BUTYLBENZENE		11 111	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	2. 推翻		0.500	ug/L
135-98-8	SEC-BUTYLBENZENE	1 建新		0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	· · · · · · · · · · · · · · · · · · ·	() ((d))	0.500	ug/L
000106467	1,4-DICHLOROBENZENE	100	- M	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	94 304	ALTERNATION CONTRACTOR	0.50U-	aug/L-sow me
000099876	4-ISOPROPYLTOLUENE			0.50U	⇒ ug/L
000104518	N-BUTYLBENZENE		14	0.50U	Jug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE			0.50U	ug/L
000120821	1,2,4 TRICHLOROBENZENE		14-17-17	0.800	Tigh
87-68-3	HEXACHLOROBUTADIENE		Card	0.50U	ug/L
000091203	NAPHTHALENE		ALT RE	0.500	→ ug/L
. 000087616	1,2,3-TRICHLOROBENZENE	建筑基本		0.50U	ug/L
1330-20-7	TOTAL XYLENES			0.500	ug/L

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM

R. Be Date: 3-11-05

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