M. Dunliam



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13 September 2005 RAC II-2005-153

Ms. Sharon Trocher Work Assignment Manager U.S. Environmental Protection Agency 290 Broadway, 20<sup>th</sup> 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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

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

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Grass was mowed;
- The pump house vent cap was replaced;
- The pump house was painted; and
- The monthly influent and effluent samples were collected.



RAC II-2005-153 Page 2

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## **B.** Operational Data

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	31	45	517.5	22.4
April	17	48	552	13.5
May	31	*	*	*
June	30	*	*	*
Volume of ground	81.4*			
Volume of ground	2684.8*			

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

\*The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

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 June 2005 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	Discharge 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	4.4	4.1	3.7							0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54							0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5							0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9							0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U							1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U							0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9							2.2
1,1-Dichloroethane	5	18	17	17	24	17	17							1.9
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45							5.9
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U							0.5 U
1.1.1-Trichloroethane*	5	110	120	110	140	110	120							4.7
Trichloroethene*	5	43	40	40	47	39	38							2.6
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54							17.3

Note:

ug/L = micrograms per liter

\* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

RAC II-2005-153 Page 3

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## **D.** Next Month's Activities

The following activities are planned for July 2005:

- Repair flow meter valve;
- Restore phone service; 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

Wendy DeMaio Project Manager

Attachment

cc: M. Dunham (NYSDEC)

ATTACHMENT A

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# <u>Case Narrative:</u> <u>Vestal 1-1. #05060020</u>

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 except for the following analyte(s):

Volatile Organic Compounds: The Laboratory's Reporting Limit for Methylene Chloride was raised to 1 ug/L due to problems associated with the initial calibration curve

## Method(s):

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

Approval: Q. R. Jee Date: 8-3-05



U.S. Environmental Protection Agency Region 2 Laboratory

# Data Report: Vestal Well 1-1 [06/05]

# Project Number: 05060020

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.
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

£

Page 1 of 5

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# Survey Name: Vestal Well 1-1 [06/05]

Project Number: 05060020

\*Sorted By Sample ID

Field/Station ID: INFLUENT AG01732 Matrix: Aqueous

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Date Received: 6/10/2005

Sample Description:

#### Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number Analyte Name	lesult	Codes	Units
75-43-4 DICHLORODIFEUOROMETHANE	 	COSCIL PERSON	
000074873 CHLOROMETHANE		0.50U	ug/L
000075014 VINYL CHLORIDE	37		ug/L
000074839 BROMOMETHANE		0.50U	ug/L
000075003 CHLOROBTHANE	0.54 - 🔬	-states and	uga
000075694 TRICHLOROFLUOROMETHANE		0.50U	ug/L
000075354 I.1 DICHLOROHAHBNE · · · ·	9.5 • 1	* <b>唐</b> 琴	ug/L
76-13-1 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.9	an a	ug/L
000075150 CARBON DISULFIDE	(华东山)的公	0.500	ugt
000067641 ACETONE	and a second	1.0U	ug/L
79-20-9 METHYLACEDATE	<del></del>	0.500 Sty 2	jug/las
000075092 METHYLENE CHLORIDE		1.0U	ug/L
000156605 TRANS-1,2-DICHLOROETHENE	64g2 - 7 Ø	0.500	ug/L
001634044 METHYL TERT-BUTYL ETHER	3.9		ug/L
000075343 1,1-DICHLOROETHANE	17		inger (
000156592 CIS-1,2-DICHLOROETHENE	45		ug/L
594-20-7 2.2-DICHLOROPROPANE		0.500	ug/L
000078933 2-BUTANONE		1.0U	ug/L
000074975 BROMOCHEOROMBIHANE		DSUG SAS	w/L
000067663 CHLOROFORM		0.50U	ug/L
71-55-6 LI.I.T.TRICHLOROETHANE	120	1. 10 X S - K	ur .
110-82-7 CYCLOHEXANE		0.50U	ug/L
000056235 CARBON TETRACHLORIDE		Sector and the sector of the sector of the	uga:
000563586 1,1-DICHLOROPROPENE		0.50U	ug/L
000071432 BENZENE		a la servicio de restativa da la servicio de servicio.	µg/L
000107062 1,2-DICHLOROETHANE		0.50U	ug/L
025323891 TRICHLOROBTHENE	38	and the second second second second	ug/L
108-87-2 METHYLCYCLOHEXANE		0.50U	ug/L
000078875 I.2-DICHLOROPROPANE		2.5個語語語目的などではないがないがあってもの。	WAL .
000074953 DIBROMOMETHANE	 Méliseense	0.50U	ug/L
000075274 BROMODICHLOROMETHANE 010061015 CIS-1,3-DICHLOROPROPENE		related in state of writes, an interaction of \$50 model to a	ug/L
000108101 4-METHYL-2-PENTANONE	 1985 - <b>Kro</b> n	and a second	ug/L ug/L
000108883 TOLUENE			a an the second s
010061026 TRANS-1,3-DICHLOROPROPENE		the second s	ug/L ug/L
000079005 1,1,2-TRICHLOROETHANE	Chemical and the constraint of the second	children war of a state of the	କାମ 🐙 କାର୍ଯ୍ୟ । ସାମ୍ୟର୍ମ୍ୟ କାର୍ଯ୍ୟ
000127184 TETRACHLOROETHENE		and compared to a second se	ug/L ug/L
000142289 1.3-DICHLOROPROPANE	an an suit sa suit sui se disseas an	2、1999年1月1日,1999年1月1日,1999年1月1日。	ug/L
000124481 DIBROMOCHLOROMETHANE		and the second	ug/L
000106934 1,2-DIBROMOETHANE		A SALAR AND A SHEAR AND A SALAR AND A	ug/L
000591786 2-HEXANONE		and the second of the second s	ŭg/L
000108907 CHLOROBENZENE	ちょうし だかん かかがん ひっちょうちん	Contraction and the second states	ug/L
Refer to Page 1 for an explanation of Remark Codes			

Refer to Page 1 for an explanation of Remark Codes

Report Date: 8/1/2005 2:14PM



## Survey Name: Vestal Well 1-1 [06/05]

Project Number: 05060020

\*Sorted By Sample ID

#### Field/Station ID: INFLUENT AG01732 Matrix: Aqueous

Date Received: 6/10/2005

Sample Description:

#### Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

A	nalysis Type: VO	DA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
	000630206	I.I.I.2-TETRACHLOROETHANE	12 <b>4</b> 9 10 16	0.508 × 3	ug/L
and the second	100-41-4	ETHYLBENZENE	ana ang ang ang ang ang ang ang ang ang	0.50U	ug/L
	001330207	M/P-XYLENE	1	OSOL AFT	10 <u>0</u> 1
a nan bran hann t	000095476	O-XYLENE	and the second s	0.50U	ug/L
	000100425	STYRENE STORE AND A ST	19	10:500 Sec.	mg/L
	000075252	BROMOFORM		0.50U	ug/L
<b>无</b> 适于	000098828	ISOPROPYLBENZENE	N. <del></del>	0.500	. 11 <b>9/L</b>
* .	000108861	BROMOBENZENE		0.50U	ug/L
A Carling Strategy	000096184	1,2,3-TRICHLOROPROPANE	1. Hora (1. 1	0.500	ewp.
1998年1月1日 19月1日日	000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
<b>新兴</b> 合变。	000103651	N-PROPVLBENZENB	2.4. <del>1、</del> +33.4年3	15.4. 中国的中国的中国的中国的中国的中国的中国的中国的中国中国的中国的中国的中国的中国	Sog/L
an an ann an thairtean an tha an t	000095498	2-CHLOROTOLUENE		0.50U	ug/L
- the sequence of a	106-43-4	4-CHLOROTOEUENB	a pre a figure	<b>0.5011</b>	vigit.
and the content of the content	000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
	000098066	TERT-BULYEBENZENE	faits an en	Q.SOUR	
Macality Constants	000095636	1,2,4-TRIMETHYLBENZENE	and and a second se	0.50U	ug/L
·第三章 24603	133-98-8 000541731	SEC-BUTYLBENZENE 1,3-DICHLOROBENZENE	C. 💏 Herry	0500 8	φ <b>eft</b> .
	000341731	1,3-DICHLOROBENZENE	 11. 4962 27 - 444	0.50U	ug/L
1963 2788	000095501	1,2-DICHLOROBENZENE	A TAK . Di	0.50U	ug/L ug/L
	000099876	4-ISOPROPYLTOLUENE		0.500	ng/L
and the state of the second	000104518	N-BUTYLBENZENE	SARAS SEA	0.50U	ug/L
Sector H	000096128	1.2-DIBROMO 3-CHLOROPROPANE	5.2 <u>61.</u> 245.7 <sub>101</sub> 4	D'SOUSSEE	Self A
and the second of the second	000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
entertario de la companya de la comp	87-68-3	HEXACHLOROBUTADIENE	~~v	0.500	ug/L
	000091203	NAPHTHALENE		0.50U	ug/L
	000087616	1,2,3-TRICHLOROBENZENE	******	0.500	ug/L
nyanat ti ji ki dina Dirid	1330-20-7	TOTAL XYLENES		0.50U	ug/L
		ETHANE, 1, 2-DICHLORO-I, 1, 2-TRIFLU, RT=4.56	0.67 👫 🛬	NR CE	ug/b

Field/Station ID: EFFLUENT AG01733 Matrix: Aqueous

Date Received: 6/10/2005

Sample Description:



## Survey Name: Vestal Well 1-1 [06/05]

Project Number: 05060020

\*Sorted By Sample ID

AG01733 Field/Station ID: EFFLUENT Matrix: Aqueous

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Date Received: 6/10/2005

Sample Description:

### Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

بر	manysis Type: vu	JA GUNIS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
	75-43-4	DICHLORODIFLUOROMETHANE		0.5 <b>0U</b>	ug/L
	000074873	CHLOROMETHANE	t de la company	- <b>0.50U</b>	ug/L
and the second sec	000075014	VINYL CHLORIDE		0.50U	ug/L
	000074839	BROMOMETHANE		0.500	118/1.
	000075003	CHLOROETHANE		0.50U	ug/L
	000075694	TRICHLOROFELIOROMETHANE	<b>n Ti</b> ris an	0.500	ug/L
	000075354	1,1-DICHLOROETHENE		0.50U	ug/L
	76-13-1	1,1,2-TRICHLORO-L2,2-TRIFLUOROETHANE	(;* <del>;*</del> ***-}>	O.SOU	, ug∕L
	000075150	CARBON DISULFIDE		0.50U	ug/L
	000067641	ACETONE		tau c.	wet.
	79-20-9	METHYL ACETATE		0.50U	ug/L
	000075092	METHYLENE CHLORIDE AND STREET AND A STREET	htteren in a	r 1.00 🗡	cuerte -
Network and the second state of the	000156605	TRANS-1,2-DICHLOROETHENE		0.50U	ug/L
	001634044	METHYL TERT-BOPYE BIHER	22 .	2 M 4 M 1	uge cara
- and the second se	000075343	1,1-DICHLOROETHANE	1.9	Contractorer and a state of the state of the state	ug/L
	000156592	CIS-12 DICHLOROBTHEME AND A STATE	<b>59</b>		·聪山
u later brut er statur	594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
	000078933	2-BUTANONE	2 . <del>***</del> * - 441	tige and	ug/L
and the second state of the	000074975	BROMOCHLOROMETHANE	<b></b>	0.50U	ug/L
Alsent	000067663	CHLOROFORM		0.5004	WE!
- Sector Sector Courses Sector	71-55 <b>-6</b>	1,1,1-TRICHLOROETHANE	4.7	and the set of the set	ug/L
	n na Astronomia (1997) - 1943, Constant	CYCLOHEXANE .	, voor het in the second s	0.500	w/L
and the second second	000056235	CARBON TETRACHLORIDE	anna an Saide dhalanna ann a' Anna an Saide	0.50U	ug/L
an a	000563586	I, I-DICHLOROPROPENE		0.5017	up/L
ويريد الروار الروا	000071432	BENZENE		0.50U	ug/L
	000107062	그는 이렇게 잘 이 못한 이 것 못 이렇는 것 같아? 것 같아? 이 가지만 것 같은 것 같은 것 같이 가지 않는 것 같이 있었다. 그는 것 같이 가지 않는 것 같이 많이 많이 많이 않는 것 같아. 이 가지 않는 것 같이 많이	a a c	0.500	ug/L
an and a street	025323891 108-87-2	TRICHLOROETHENE METHYLCYCLOHRXANE	2.6	A 2614	ug/L
	000078875	1,2-DICHLOROPROPANE		0.50U 0.50U	<b>ug/L</b>
Service Services	000078873	DIBROMOMETHANE	 Sadistrian (* 1892)	0.500	ug/L ug/L
	000075274	BROMODICHLOROMETHANE		0.50U	analy and the second
internation provides	010061015	CIS-1.3-DICHLOROPROPENE		0.500	ug/L ug/L
	000108101	4-METHYL-2-PENTANONE		1.0U	and the second
	000108101	TOLUENE	 1999:5:5:10:290	0.SOU	ug/L ug/L
and the second second	010061026	TRANS-1,3-DICHLOROPROPENE	8 <b>2 1</b> 6 7 6	0.50U	and an
	010001020	1,1,2-TRICHLÖROETHANE		0.50U	ug/L üg/L
	0000/9003	TETRACHLOROETHENE	2. <b></b>	0.50U	·····································
and the	000127184	13-DICHEOROPROPANE		0.50U	ug/L ug/L
	UVU 174402	INTRACING BY OF		AND SE S	



# Survey Name: Vestal Well 1-1 [06/05]

Project Number: 05060020

\*Sorted By Sample ID

AG01733 Field/Station ID: EFFLUENT

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Date Received: 6/10/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
000106934	12-DIBROMOETHANE > 5		en <b>disoba</b> lit	A DIVE?
000591786	2-HEXANONE	,	1.0U	ug/L
000108907	CHLOROBENZENE		· O.SOLEAN	WAL *
000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
100-41-4	ETHYLBENZENE	\$~}~ <del>~</del> ~~~%	O SOUPLES	" will
001330207	M/P-XYLENE		0.50U	ug/L
000025476	OXYLENE TRANSPORTATION OF THE PARTY OF THE P	<b>NACES OF SEC.</b>	- 0,500,	with a start of the
000100425	STYRENE		0.50U	ug/L
000075252	BROMOFORM		080088	
000098828	ISOPROPYLBENZENE		0.50U	ug/L
198801000	BROMOBENZENE		o source a	C. Supplier .
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
000079345	122-TETRACHLOROETHANE	<b>Sist <del>an</del> thinks of</b>		suger :
000103651	N-PROPYLBENZENE		0.50U	ug/L
000095498	2-CHLOROTOLUENB	Marine Correct		
106-43-4 000108678	4-CHLOROTOLUENE	 	0.50U	ug/I.
000098066	TERT-BUTYLBENZENE		0.50U	wall
000095636	124 TRIMETITY CHENZENE			ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
000541731	13-DICHLOROBENZENE		NO SOLDANT	
000106467	1,4-DICHLOROBENZENE		0.50U	ug/L
000095501	1.2-DICHLOROBENZENE		2 0.500 ·····	
000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L
000104518	N-BUTYLBENZENE		05015	Aug/La
000096128	1,2-DIBROMO-3-CHLOROPROPANE	and an and a second sec	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	nan series series and s Series and series and se	0.500	ug/L
87-68-3	HEXACHLOROBUTADIENE		0.50U	ug/L
000091203	NAPHTHALENE	68 <del></del>	0.50U	<b>buge</b> as a
000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L
1330-20-7	TOTAL XYLENES		0.500	Det .

**Project Approval:** 

1. The ()-

\_\_\_\_ Date: <u>8-3-85</u>

Refer to Page 1 for an explanation of Remark Codes Report Date: 8/1/2005 2:14PM

Page 5 of 5