

OHIO ENVIRONMENTAL PROTECTION AGENCY  
DRINKING WATER STATE REVOLVING FUND (DWSRF)  
AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (ARRA)  
GREEN PROJECT INFORMATION

**FFY 2009 ARRA GREEN PROJECT INFORMATION FORM**

The Federal American Recovery and Reinvestment Act of 2009 (ARRA) requires a minimum amount of funding be used toward Green Infrastructure, Energy Efficiency, Water Efficiency, or other Environmentally Innovative activity. To ensure that this requirement is met, Ohio EPA is requiring ARRA recipients to provide additional information about potential green components of their project(s).

In many instances, a Business Case is required for justification to consider an item or activity "green". The US Environmental Protection Agency (EPA) has provided guidance for help in evaluating the green elements of a project. Please complete this cover sheet and appropriate page(s), as noted below for each project that will incorporate a "green" component(s). More guidance is provided on the back of each form.

PWS Name: Village of Middleport PWSID: 5300112

Project Name: New Well and Waterline Replacements PPL #: 24  
(as assigned by OEPA-- refer to project list on web)

Total Estimated Project Cost: \$3,509,127 Total Est. Green Amount: \$1,834,230

Type of "Green" Element(s) included in this project. For each box that is checked the corresponding page of this form must be completed and submitted with this cover page. Attach additional pages as necessary:

- Green Infrastructure** (porous pavement, bioretention, trees, green roofs, and other practices that mimic natural hydrology and reduce effective imperviousness)
- Energy Efficiency** (energy audit, water pump system improvements or replacements, variable frequency drives, SCADA, on-site clean power, solids treatment or handling, replacement or rehabilitation of distribution lines)
- Water Efficiency** (water meter installation or replacement, leak detection equipment, water line replacement, water audit, water efficient fixtures)
- Other Environmentally Innovative Activity**

Completed by:

Name: Sarah Wallace Title: Environmental Engineer  
(please print)

Signature: *Sarah Wallace* Date: October 13, 2009

For OEPA use only:	
Project #: <u>FS390597-0005</u>	DWSRF # <u>PPL #24</u>

OHIO ENVIRONMENTAL PROTECTION AGENCY  
 DRINKING WATER STATE REVOLVING FUND (DWSRF)  
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**Energy Efficiency** (energy audit, leak detection equipment, water pump system improvements or replacements, variable frequency drives, on-site clean power for treatment systems, replacement or rehabilitation of distribution lines)

PWS Name: Village of Middleport PWSID: 5300112

Project Name: New Well #7 PPL #: 24

Total Est. Project Cost: \$3,509,127 Total Est. Green Reserve Amount: \$64,230

**Project Summary:**

This portion of the project involves the installation of a new well to allow the existing Well #3 to be utilized only for backup purposes. Well #3 currently has Nitrate at levels greater than half the MCL (>5 mg/L) and traces of Trichloroethylene. This, in addition to the fact that it utilizes an antiquated, low efficiency submersible pump will increase the quality and quantity of water available to the residents. The Village will also see efficiencies due to not having to utilize an oversized, inefficient pump in Well #4 for extended periods, as well.

**Pump Facilities**

Age of existing pumps or pumping facilities?	#3 – 1972, #4 – unknown
Existing pump/motor efficiency rating, if known?	#3 – assume 50%, #4 – 26% from curve
New pump/motor efficiency rating.	400 gpm @ 80% efficiency
Estimated Annual Electrical Savings	42,800 kW
Estimated Annual Costs Savings	\$2,150

**Business Case Narrative: (Calculate Energy Efficiency Improvements and costs savings)**

Well #3 currently utilizes a 140 gpm submersible pump to provide water to the Village on an alternating schedule with the existing Well #4. When in use, this well must run 24 hours per day to provide the average Village usage. This well is only operated 25% of the time due to its lower volume and quality of water available as compared to Well #3<sup>1</sup>.

The new Well #7 will be operated with Well #4 on an equal basis to allow Well #3 to be maintained solely as a backup. Therefore, the amount of time that Well #4 needs to be operated will be reduced by approximately 90 days as well. Well #4 currently is reported to be operated at 300 gpm for approximately 9.5 hours per day to produce the average daily demand of 200,000 gpd<sup>2</sup>.

Based on the calculations using the estimated information for Well #3 and the known information from Well #4<sup>3</sup>, the Village will save over \$2,000 in electrical costs alone to operate these old wells versus the high efficiency pump and motor being installed in the new well. Over the cost of the project, Middleport will save \$64,230 by operating this well<sup>4</sup>.

<sup>1</sup> Chemical analyses from Well #3

<sup>2</sup> 2008 Sanitary Survey Inventory

<sup>3</sup> Pump Model # and Curve from Manufacturer

<sup>4</sup> Calculation Worksheets

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group	
5356388	EP001	RT	4039	INORG_9200435645	03/14/01	CYANIDE	<	10	UG/L	IOC	
			4039	INORG_9300017203	09/08/06	FLUORIDE	<	0.5	MG/L	IOC	
		SP	4039	INORG_9300038075	06/16/06	NITRATE	+	6.7	MG/L	IOC	
			4039	INORG_9300038075	06/16/06	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300087751	02/12/09	NITRATE	+	4.2	MG/L	IOC	
			4039	INORG_9300087751	02/12/09	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300087775	05/15/08	NITRATE	+	7	MG/L	IOC	
			4039	INORG_9300087775	05/15/08	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300087776	05/15/08	NITRATE	+	6.6	MG/L	IOC	
			4039	INORG_9300087776	05/15/08	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300087777	08/21/08	NITRATE	+	4	MG/L	IOC	
			4039	INORG_9300087777	08/21/08	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300087778	08/21/08	NITRATE	+	4.2	MG/L	IOC	
			4039	INORG_9300087778	08/21/08	NITRITE	<	0.1	MG/L	IOC	
			RT	4039	INORG_9300097935	06/08/07	NITRATE	+	2.8	MG/L	IOC
				4039	INORG_9300097935	06/08/07	NITRITE	<	0.1	MG/L	IOC
			SP	4039	INORG_9300104525	07/11/08	NITRATE	+	5.3	MG/L	IOC
				4039	INORG_9300104525	07/11/08	NITRITE	<	0.1	MG/L	IOC
				4039	INORG_9300104526	07/11/08	NITRATE	+	5.2	MG/L	IOC
				4039	INORG_9300104526	07/11/08	NITRITE	<	0.1	MG/L	IOC
		4039		INORG_9300112520	06/19/08	NITRATE	+	5.2	MG/L	IOC	
		4039		INORG_9300112520	06/19/08	NITRITE	<	0.1	MG/L	IOC	
		4039		INORG_9300112521	06/19/08	NITRATE	+	5.4	MG/L	IOC	
		4039		INORG_9300112521	06/19/08	NITRITE	<	0.1	MG/L	IOC	
		4039		INORG_9300118754	09/12/08	NITRATE	+	5.1	MG/L	IOC	
		4039		INORG_9300118754	09/12/08	NITRITE	<	0.1	MG/L	IOC	
		4039		INORG_9300118755	09/12/08	NITRATE	+	5.25	MG/L	IOC	
		4039		INORG_9300118755	09/12/08	NITRITE	<	0.1	MG/L	IOC	
		4039		INORG_9300129624	11/06/08	NITRATE	+	4.55	MG/L	IOC	
		4039		INORG_9300129624	11/06/08	NITRITE	<	0.1	MG/L	IOC	
		RT		4039	INORG_9300166214	03/05/09	NITRATE	+	4.25	MG/L	IOC
				4039	INORG_9300166214	03/05/09	NITRITE	<	0.1	MG/L	IOC
		SP		4039	INORG_9300166220	07/02/09	NITRATE		5.85	MG/L	IOC
				4039	INORG_9300166220	07/02/09	NITRITE	<	0.1	MG/L	IOC
		RT	4039	INORG_9300166222	05/08/09	NITRATE		3.9	MG/L	IOC	
			4039	INORG_9300166222	05/08/09	NITRITE	<	0.1	MG/L	IOC	
		SP	4039	INORG_9300177590	04/02/09	NITRATE		4.45	MG/L	IOC	
			4039	INORG_9300177590	04/02/09	NITRITE	<	0.1	MG/L	IOC	
		RT	4039	INORG_9300199651	06/04/09	FLUORIDE	<	0.2	MG/L	IOC	
			4039	INORG_9300199651	06/04/09	NITRATE		5.5	MG/L	IOC	
			4039	INORG_9300199651	06/04/09	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300200964	08/06/09	NITRATE		4.5	MG/L	IOC	
		SP	4039	INORG_9300200964	08/06/09	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300200965	09/04/09	NITRATE		5.5	MG/L	IOC	
		RT	4039	INORG_9300200965	09/04/09	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300200966	10/02/09	NITRATE		5.15	MG/L	IOC	
			4039	INORG_9300200966	10/02/09	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300413130	01/10/01	NITRATE	+	5.25	MG/L	IOC	
			4039	INORG_9300413130	01/10/01	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300413156	04/11/01	NITRATE	+	3.7	MG/L	IOC	
			4039	INORG_9300413156	04/11/01	NITRITE	<	0.1	MG/L	IOC	
			4039	INORG_9300418286	06/13/03	NITRATE	+	3.83	MG/L	IOC	
4039	INORG_9300418286		06/13/03	NITRITE	<	0.1	MG/L	IOC			
4039	INORG_9300418885		04/25/08	NITRATE	+	7.8	MG/L	IOC			
4039	INORG_9300418885	04/25/08	NITRITE	<	0.1	MG/L	IOC				
4039	INORG_9300419397	06/28/00	NITRATE	+	5.84	MG/L	IOC				



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**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4039	INORG_9300419397	06/28/00	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300421462	08/09/00	NITRATE	+	4.8	MG/L	IOC
			4039	INORG_9300421462	08/09/00	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300422894	11/08/00	NITRATE	+	5.5	MG/L	IOC
			4039	INORG_9300422894	11/08/00	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300424380	04/17/02	NITRATE	+	3.8	MG/L	IOC
			4039	INORG_9300424380	04/17/02	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300435645	03/14/01	FLUORIDE	<	0.5	MG/L	IOC
			4039	INORG_9300482883	06/21/04	NITRATE	+	4.5	MG/L	IOC
			4039	INORG_9300482883	06/21/04	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300482885	07/09/04	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300489109	09/12/03	FLUORIDE	<	0.5	MG/L	IOC
			4039	INORG_9300507007	06/10/05	NITRATE	+	5.4	MG/L	IOC
			4039	INORG_9300507007	06/10/05	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9500017203	09/08/06	ANTIMONY, TOTAL	<	4	UG/L	IOC
			4039	INORG_9500017203	09/08/06	ARSENIC	<	3	UG/L	IOC
			4039	INORG_9500017203	09/08/06	BARIUM	+	55.1	UG/L	IOC
			4039	INORG_9500017203	09/08/06	BERYLLIUM, TOTAL	<	1	UG/L	IOC
			4039	INORG_9500017203	09/08/06	CADMIUM	<	1	UG/L	IOC
			4039	INORG_9500017203	09/08/06	CHROMIUM	<	5	UG/L	IOC
			4039	INORG_9500017203	09/08/06	CYANIDE	<	10	UG/L	IOC
			4039	INORG_9500017203	09/08/06	MERCURY	<	0.5	UG/L	IOC
			4039	INORG_9500017203	09/08/06	NICKEL	<	10	UG/L	IOC
			4039	INORG_9500017203	09/08/06	SELENIUM	<	5	UG/L	IOC
			4039	INORG_9500017203	09/08/06	THALLIUM, TOTAL	<	1.5	UG/L	IOC
			4039	INORG_9500199651	06/04/09	ANTIMONY, TOTAL	<	4	UG/L	IOC
			4039	INORG_9500199651	06/04/09	ARSENIC	<	3	UG/L	IOC
			4039	INORG_9500199651	06/04/09	BARIUM		35.5	UG/L	IOC
			4039	INORG_9500199651	06/04/09	BERYLLIUM, TOTAL	<	1	UG/L	IOC
			4039	INORG_9500199651	06/04/09	CADMIUM	<	1	UG/L	IOC
			4039	INORG_9500199651	06/04/09	CHROMIUM	<	5	UG/L	IOC
			4039	INORG_9500199651	06/04/09	CYANIDE	<	10	UG/L	IOC
			4039	INORG_9500199651	06/04/09	MERCURY	<	0.5	UG/L	IOC
			4039	INORG_9500199651	06/04/09	NICKEL	<	10	UG/L	IOC
			4039	INORG_9500199651	06/04/09	SELENIUM	<	5	UG/L	IOC
			4039	INORG_9500199651	06/04/09	THALLIUM, TOTAL	<	1.5	UG/L	IOC
			4039	INORG_9500403241	02/09/00	NITRATE	+	6.1	MG/L	IOC
			4039	INORG_9500435645	03/14/01	ANTIMONY, TOTAL	<	4	UG/L	IOC
			4039	INORG_9500435645	03/14/01	ARSENIC	<	5	UG/L	IOC
			4039	INORG_9500435645	03/14/01	BARIUM	+	99.8	UG/L	IOC
			4039	INORG_9500435645	03/14/01	BERYLLIUM, TOTAL	<	0.8	UG/L	IOC
			4039	INORG_9500435645	03/14/01	CADMIUM	<	1	UG/L	IOC
			4039	INORG_9500435645	03/14/01	CHROMIUM	<	5	UG/L	IOC
			4039	INORG_9500435645	03/14/01	MERCURY	<	0.5	UG/L	IOC
			4039	INORG_9500435645	03/14/01	NICKEL	<	20	UG/L	IOC
			4039	INORG_9500435645	03/14/01	SELENIUM	<	2	UG/L	IOC
			4039	INORG_9500435645	03/14/01	THALLIUM, TOTAL	<	1.5	UG/L	IOC
			4039	INORG_9500489109	09/12/03	ANTIMONY, TOTAL	<	4	UG/L	IOC
			4039	INORG_9500489109	09/12/03	ARSENIC	<	3	UG/L	IOC
			4039	INORG_9500489109	09/12/03	BARIUM	+	38.7	UG/L	IOC
			4039	INORG_9500489109	09/12/03	BERYLLIUM, TOTAL	<	0.8	UG/L	IOC
			4039	INORG_9500489109	09/12/03	CADMIUM	<	1	UG/L	IOC
			4039	INORG_9500489109	09/12/03	CHROMIUM	+	44.7	UG/L	IOC
			4039	INORG_9500489109	09/12/03	CYANIDE	<	10	UG/L	IOC
			4039	INORG_9500489109	09/12/03	MERCURY	<	0.5	UG/L	IOC
			4039	INORG_9500489109	09/12/03	NICKEL	+	52.8	UG/L	IOC

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4039	INORG_9500489109	09/12/03	SELENIUM	<	2	UG/L	IOC
			4039	INORG_9500489109	09/12/03	THALLIUM, TOTAL	<	1.5	UG/L	IOC
			12345	RAD_231101	06/26/03	RADIUM-228	<	1	PCI/L	RAD
			4039	RAD_9700150910	06/04/09	GROSS ALPHA, INCL. RADON & L	<	3	PCI/L	RAD
			4039	RAD_9700150910	06/04/09	RADIUM-228	<	1	PCI/L	RAD
			4095	RAD_9700422896	11/08/00	GROSS ALPHA, EXCL. RADON &	<	3	PCI/L	RAD
			4095	RAD_9700469131	07/11/03	GROSS ALPHA, EXCL. RADON &	<	3	PCI/L	RAD
			4053	SOC_9800021539	06/23/06	BHC-GAMMA	<	0.02	UG/L	SOC
			4053	SOC_9800021539	06/23/06	DIQUAT	<	2	UG/L	SOC
			4053	SOC_9800021539	06/23/06	GLYPHOSATE	<	70	UG/L	SOC
			4053	SOC_9800021539	06/23/06	METHOXYCHLOR	<	0.03	UG/L	SOC
			4053	SOC_9800021539	06/23/06	TOTAL POLYCHLORINATED BIPI	<	0.1	UG/L	SOC
			4100	SOC_9800100492	05/09/08	BENZO(A)PYRENE	<	0.02	UG/L	SOC
			4100	SOC_9800100492	05/09/08	DI(2-ETHYLHEXYL) ADIPATE	<	40	UG/L	SOC
			4100	SOC_9800100492	05/09/08	DI(2-ETHYLHEXYL) PHTHALATE	<	2	UG/L	SOC
			4100	SOC_9800100492	05/09/08	ENDOTHALL	<	10	UG/L	SOC
			4100	SOC_9800115514	07/11/08	ATRAZINE	<	0.3	UG/L	SOC
			4100	SOC_9800115514	07/11/08	LASSO	<	0.2	UG/L	SOC
			4100	SOC_9800115514	07/11/08	SIMAZINE	<	0.4	UG/L	SOC
			4100	SOC_9800166218	04/09/09	ATRAZINE	<	0.3	UG/L	SOC
			4100	SOC_9800166218	04/09/09	LASSO	<	0.2	UG/L	SOC
			4100	SOC_9800166218	04/09/09	SIMAZINE	<	0.4	UG/L	SOC
			4039	SOC_9800199651	06/04/09	BHC-GAMMA	<	0.02	UG/L	SOC
			4039	SOC_9800199651	06/04/09	DIQUAT	<	2	UG/L	SOC
			4039	SOC_9800199651	06/04/09	GLYPHOSATE	<	70	UG/L	SOC
			4039	SOC_9800199651	06/04/09	METHOXYCHLOR	<	4	UG/L	SOC
			4039	SOC_9800199651	06/04/09	TOTAL POLYCHLORINATED BIPI	<	0.1	UG/L	SOC
			4095	SOC_9800404648	08/21/02	ATRAZINE	<	0.1	UG/L	SOC
			4095	SOC_9800404648	08/21/02	LASSO	<	0.1	UG/L	SOC
			4095	SOC_9800404648	08/21/02	SIMAZINE	<	0.05	UG/L	SOC
			4095	SOC_9800435722	04/11/01	2,4-D	<	0.1	UG/L	SOC
			4095	SOC_9800435722	04/11/01	BENZO(A)PYRENE	<	0.02	UG/L	SOC
			4095	SOC_9800435722	04/11/01	BHC-GAMMA	<	0.01	UG/L	SOC
			4095	SOC_9800435722	04/11/01	CARBOFURAN	<	0.9	UG/L	SOC
			4095	SOC_9800435722	04/11/01	DI(2-ETHYLHEXYL) ADIPATE	<	0.6	UG/L	SOC
			4095	SOC_9800435722	04/11/01	DI(2-ETHYLHEXYL) PHTHALATE	<	2	UG/L	SOC
			4095	SOC_9800435722	04/11/01	DIQUAT	<	0.4	UG/L	SOC
			4095	SOC_9800435722	04/11/01	ENDOTHALL	<	9	UG/L	SOC
			4095	SOC_9800435722	04/11/01	GLYPHOSATE	<	6	UG/L	SOC
			4095	SOC_9800435722	04/11/01	METHOXYCHLOR	<	0.01	UG/L	SOC
			4095	SOC_9800435722	04/11/01	OXAMYL	<	2	UG/L	SOC
			4095	SOC_9800435722	04/11/01	PENTACHLOROPHENOL	<	0.04	UG/L	SOC
			4095	SOC_9800435722	04/11/01	PICLORAM	<	0.1	UG/L	SOC
			4095	SOC_9800473769	04/16/04	2,4-D	<	7	UG/L	SOC
			4095	SOC_9800473769	04/16/04	BENZO(A)PYRENE	<	0.02	UG/L	SOC
			4095	SOC_9800473769	04/16/04	CARBOFURAN	<	4	UG/L	SOC
			4095	SOC_9800473769	04/16/04	DI(2-ETHYLHEXYL) ADIPATE	<	2	UG/L	SOC
			4095	SOC_9800473769	04/16/04	DI(2-ETHYLHEXYL) PHTHALATE	<	2	UG/L	SOC
			4095	SOC_9800473769	04/16/04	DIQUAT	<	2	UG/L	SOC
			4095	SOC_9800473769	04/16/04	ENDOTHALL	<	10	UG/L	SOC
			4095	SOC_9800473769	04/16/04	GLYPHOSATE	<	50	UG/L	SOC
			4095	SOC_9800473769	04/16/04	OXAMYL	<	20	UG/L	SOC
			4095	SOC_9800473769	04/16/04	PENTACHLOROPHENOL	<	0.1	UG/L	SOC
			4095	SOC_9800473769	04/16/04	PICLORAM	<	50	UG/L	SOC
			4054	SOC_9800484386	06/21/04	BHC-GAMMA	<	0.02	UG/L	SOC
			4054	SOC_9800484386	06/21/04	METHOXYCHLOR	<	4	UG/L	SOC

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4054	SOC_9800484386	06/21/04	TOTAL POLYCHLORINATED BIPI-	<	0.1	UG/L	SOC
			4095	SOC_9800508213	06/10/05	BENZO(A)PYRENE	<	0.02	UG/L	SOC
			4095	SOC_9800508213	06/10/05	DI(2-ETHYLHEXYL) ADIPATE	<	2	UG/L	SOC
			4095	SOC_9800508213	06/10/05	DI(2-ETHYLHEXYL) PHTHALATE	<	2	UG/L	SOC
			4100	SOC_9800513515	09/16/05	ATRAZINE	<	0.3	UG/L	SOC
			4100	SOC_9800513515	09/16/05	LASSO	<	0.2	UG/L	SOC
			4100	SOC_9800513515	09/16/05	SIMAZINE	<	0.4	UG/L	SOC
			4100	SOC_9800517229	08/19/05	ENDOTHALL	<	5.1	UG/L	SOC
			4100	VOC_9600009347	06/15/07	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	TRICHLOROETHYLENE	+	1.7	UG/L	VOC
			4100	VOC_9600009347	06/15/07	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600009347	06/15/07	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	CIS-1,2-DICHLOROETHYLENE	+	0.56	UG/L	VOC
			4100	VOC_9600029681	09/13/07	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	TRICHLOROETHYLENE	+	1.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600029681	09/13/07	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600041067	06/16/06	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4100	VOC_9600041067	06/16/06	BENZENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	CHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	DICHLOROMETHANE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	ETHYLBENZENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	STYRENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	TOLUENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	TRICHLOROETHYLENE	+	1.13	UG/L	VOC
				VOC_9600041067	06/16/06	VINYL CHLORIDE	<	0.5	UG/L	VOC
				VOC_9600041067	06/16/06	XYLENES, TOTAL	<	1.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	BENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	CHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	CIS-1,2-DICHLOROETHYLENE	+	0.53	UG/L	VOC
				VOC_9600048425	11/09/07	DICHLOROMETHANE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	ETHYLBENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	STYRENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	TOLUENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	TRICHLOROETHYLENE	+	1.5	UG/L	VOC
				VOC_9600048425	11/09/07	VINYL CHLORIDE	<	0.5	UG/L	VOC
				VOC_9600048425	11/09/07	XYLENES, TOTAL	<	1.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
				VOC_9600087705	05/09/08	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
VOC_9600087705	05/09/08	BENZENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	CHLOROBENZENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	DICHLOROMETHANE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	ETHYLBENZENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	O-DICHLOROBENZENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	P-DICHLOROBENZENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	STYRENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	TOLUENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	TRICHLOROETHYLENE	<	0.5	UG/L	VOC				
VOC_9600087705	05/09/08	VINYL CHLORIDE	<	0.5	UG/L	VOC				

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4100	VOC_9600087705	05/09/08	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	TRICHLOROETHYLENE	+	2.1	UG/L	VOC
			4100	VOC_9600089807	03/21/08	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600089807	03/21/08	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600091497	07/11/08	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	O-DICHLOROBENZENE	<	0.5	UG/L	VOC

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4100	VOC_9600092706	02/16/07	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	TRICHLOROETHYLENE	+	1.7	UG/L	VOC
			4100	VOC_9600092706	02/16/07	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600092706	02/16/07	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,2,4-TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600129623	11/06/08	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,2,4-TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	BENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	CHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	ETHYLBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	STYRENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	TOLUENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	TRICHLOROETHYLENE		0.52	UG/L	VOC
			4100	VOC_9600166218	04/09/09	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4100	VOC_9600166218	04/09/09	XYLENES, TOTAL	<	1.5	UG/L	VOC
			4100	VOC_9600166223	07/09/09	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4100	VOC_9600166223	07/09/09	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
4100	VOC_9600166223	07/09/09	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC			
4100	VOC_9600166223	07/09/09	1,2,4-TRICHLOROETHYLENE	<	0.5	UG/L	VOC			
4100	VOC_9600166223	07/09/09	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC			
4100	VOC_9600166223	07/09/09	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC			

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group		
5356388	EP001	SP	4100	VOC_9600166223	07/09/09	BENZENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	CHLOROBENZENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	DICHLOROMETHANE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	ETHYLBENZENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	O-DICHLOROENZENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	P-DICHLOROENZENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	STYRENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	TOLUENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	TRICHLOROETHYLENE		0.91	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	VINYL CHLORIDE	<	0.5	UG/L	VOC		
			4100	VOC_9600166223	07/09/09	XYLENES, TOTAL	<	1.5	UG/L	VOC		
			RT	4100	VOC_9600166519	01/21/09	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC	
				4100	VOC_9600166519	01/21/09	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC	
				4100	VOC_9600166519	01/21/09	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC	
				4100	VOC_9600166519	01/21/09	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC	
				4100	VOC_9600166519	01/21/09	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC	
				4100	VOC_9600166519	01/21/09	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC	
		4100		VOC_9600166519	01/21/09	BENZENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	CHLOROBENZENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	DICHLOROMETHANE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	ETHYLBENZENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	O-DICHLOROENZENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	P-DICHLOROENZENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	STYRENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	TOLUENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	TRICHLOROETHYLENE	+	0.58	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	VINYL CHLORIDE	<	0.5	UG/L	VOC		
		4100		VOC_9600166519	01/21/09	XYLENES, TOTAL	<	1.5	UG/L	VOC		
		4095			4095	VOC_9600409216	04/19/00	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
					4095	VOC_9600409216	04/19/00	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
					4095	VOC_9600409216	04/19/00	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
					4095	VOC_9600409216	04/19/00	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
					4095	VOC_9600409216	04/19/00	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
					4095	VOC_9600409216	04/19/00	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
4095	VOC_9600409216				04/19/00	BENZENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	CHLOROBENZENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	DICHLOROMETHANE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	ETHYLBENZENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	O-DICHLOROENZENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	P-DICHLOROENZENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	STYRENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	TOLUENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	TRICHLOROETHYLENE	<	0.5	UG/L	VOC		
4095	VOC_9600409216				04/19/00	VINYL CHLORIDE	<	0.5	UG/L	VOC		

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4095	VOC_9600409216	04/19/00	XYLENES, TOTAL	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	BENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	CHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	ETHYLBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	STYRENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	TOLUENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600413173	04/18/01	XYLENES, TOTAL	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	BENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	CHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	ETHYLBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	O-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	STYRENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	TOLUENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600424644	11/08/00	XYLENES, TOTAL	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,2,4-TRICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	BENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	CHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	ETHYLBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	O-DICHLOROBENZENE	<	0.5	UG/L	VOC

## Chemical SSR Summary (All Samples)

**Pws Id** OH5300112 **Pws Name** MIDDLEPORT VILLAGE PWS

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5356388	EP001	RT	4095	VOC_9600424810	08/21/02	P-DICHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	STYRENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	TOLUENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600424810	08/21/02	XYLENES, TOTAL	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,1,1-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,1,2-TRICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,1-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,2,4-TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,2-DICHLOROETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	1,2-DICHLOROPROPANE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	BENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	CARBON TETRACHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	CHLOROBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	CIS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	DICHLOROMETHANE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	ETHYLBENZENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	O-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	P-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	STYRENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	TETRACHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	TOLUENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	TRANS-1,2-DICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	TRICHLOROETHYLENE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	VINYL CHLORIDE	<	0.5	UG/L	VOC
			4095	VOC_9600447138	07/18/03	XYLENES, TOTAL	<	0.5	UG/L	VOC

FAC Id	SMP ID	Sample Type	Report Lab ID	Sample Number	Sample Date	Substance Name	Sign	Result	Units	Group
5360484	EP002	RT	4039	INORG_9200435644	03/14/01	CYANIDE	<	10	UG/L	IOC
			4039	INORG_9300017204	09/08/06	FLUORIDE	<	0.5	MG/L	IOC
			4039	INORG_9300038076	06/16/06	NITRATE	+	2.04	MG/L	IOC
			4039	INORG_9300038076	06/16/06	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300091496	07/11/08	NITRATE	+	2.4	MG/L	IOC
			4039	INORG_9300091496	07/11/08	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300097936	06/08/07	NITRATE	+	1.95	MG/L	IOC
			4039	INORG_9300097936	06/08/07	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300166221	06/04/09	FLUORIDE	<	0.2	MG/L	IOC
			4039	INORG_9300166221	06/04/09	NITRATE		2.8	MG/L	IOC
			4039	INORG_9300166221	06/04/09	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300413144	08/08/01	NITRATE	+	2.2	MG/L	IOC
			4039	INORG_9300413144	08/08/01	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300421461	08/09/00	NITRATE	+	2.2	MG/L	IOC
			4039	INORG_9300421461	08/09/00	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300422895	11/08/00	NITRATE	+	3.6	MG/L	IOC
			4039	INORG_9300422895	11/08/00	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300424010	07/17/02	NITRATE	+	2.5	MG/L	IOC
			4039	INORG_9300424010	07/17/02	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300435644	03/14/01	FLUORIDE	<	0.5	MG/L	IOC
			4039	INORG_9300453952	07/18/03	NITRATE	+	2.3	MG/L	IOC
			4039	INORG_9300453952	07/18/03	NITRITE	<	0.1	MG/L	IOC
			4039	INORG_9300482886	07/09/04	NITRATE	+	2.85	MG/L	IOC
			4039	INORG_9300482886	07/09/04	NITRITE	<	0.1	MG/L	IOC

**SECTION 8 - SOURCE**

Well/Wellhead	Well Number	Drilled (Date)	ODWA Log #	OPPA Approved	In Use	Drainage	Isolation	Casing Height	Casing Depth	Casing Bore (in)	Well Depth	Pitless Adapter	Pin	Capacity (gpm)	Raw Water Tap	Pump Type	400 gpm Head
	1				no				72	8	72						
	2				no				63	8	63						
	3				yes standby				55	10	55	yes	yes	140	yes	sub	
	4				yes			24	60	10	60	yes	yes	275	yes	sub	

**GENERAL COMMENTS**

Wells 1 and 2 not used; recommend that they are closed.  
 Well 4 runs about 9.5 hours per day @ 300gpm (per flowmeter).  
 Well 3 is currently for backup only due to elevated nitrates.  
 Well 5 and 6 have been drilled. Well 5 has been tested. Both are within the floodway of the confluence of Leading Creek and the Ohio River. There are several piezometers surrounding the wells, which make the gw more vulnerable for contamination to occur. Recommend that Well 5 is developed to prevent impact of flooding, all piezometers are plugged, and Well 6 not be developed.  
 Wells 5 and 6 are located SW of town across Leading Creek. These wells, if used would only serve about 7 connections and then allow expansion out SR 7.

**PRIMARY (OR SECONDARY) SUPPLIER**

Source	Description (Master Meter Locations, Pumps)
Village of Pomeroy (Valves only, not metered)	North 2 <sup>nd</sup> Street @ corporation line of Middleport and Pomeroy  West Main Street

**SECTION 9 - OPERATIONAL ANALYSES**

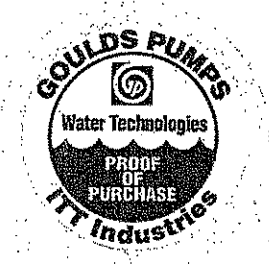
Analysis	Frequency Required	Lab	Comments
Bacteriological	3/month	TCCI	

**SECTION 10 - LEAD & COPPER SAMPLING**

Monitoring Period	Sampling Period	# Samples	Lead		Copper	
			90 %	Range	90 %	Range
2000-2002	June 1 - Sept. 30 2002	10	12.6	<5 - 22.7 ug/L	250	<50 - 664 ug/L
2002 - 2005	June 1 - Sept. 30 2005	10	<5	<5 - 6 ug/L	115	<50 - 215 ug/L

# 5" and Larger Submersible Pump

*Installation and Operation  
Instructions*



WELL #4  
Pump

**Table of Contents**

**Owner's Information**

Pump Model Number: 27SH30  
 Pump Serial Number: 128752  
 Motor Model Number: 27SH30  
 Motor Serial Number: \_\_\_\_\_  
 Dealer: \_\_\_\_\_  
 \_\_\_\_\_  
 Dealer Telephone: \_\_\_\_\_  
 Purchase Date: \_\_\_\_\_  
 Installation Date: \_\_\_\_\_

<u>SUBJECT</u>	<u>PAGE</u>
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Goulds Pumps

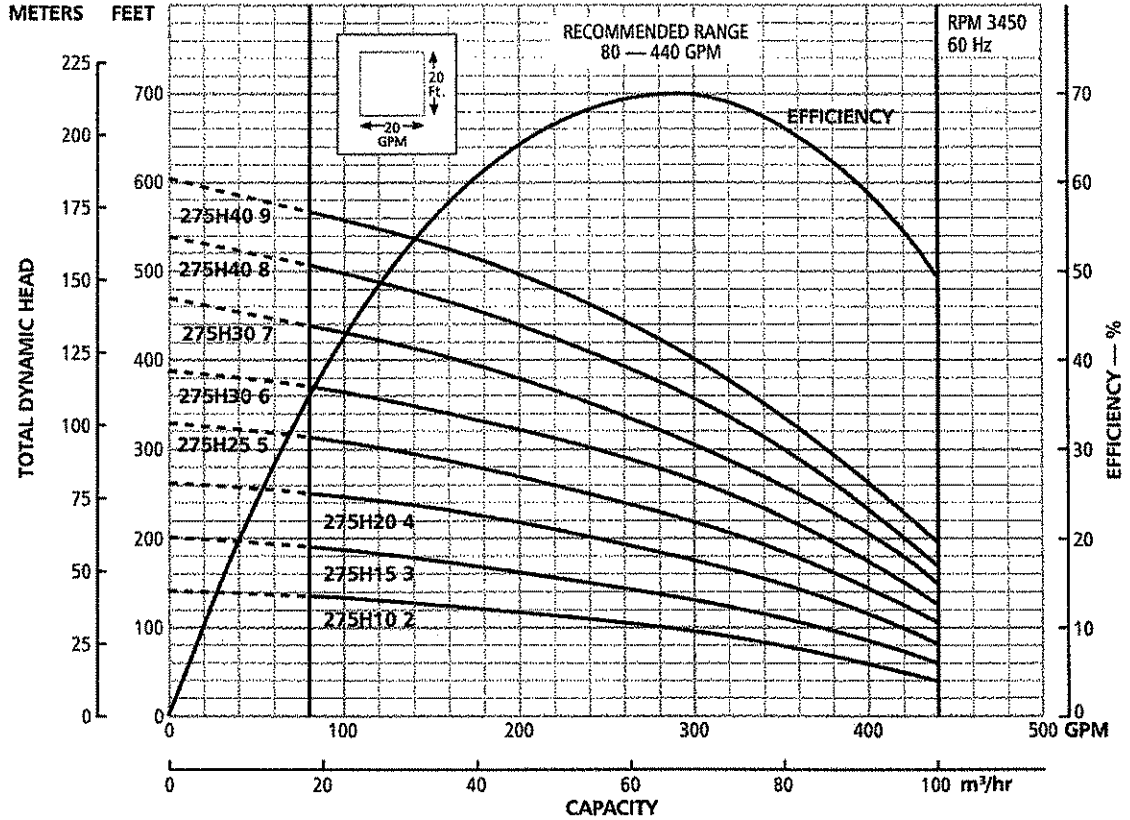




# ITT

## Residential Water Systems

### Model 275H



Three Phase Only, due to required CW Rotation.

Curve Reference SU 484



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

B100-275H February, 2009

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*Engineered for life*

10/13/09

VILLAGE OF MIDDLEPORT  
EXISTING #3

150 gpm @ 200' TDH, 50% efficient

Runs 24 hrs/day, 90 days/yr → \$0.05 kW/hr

$$(200)(150)(8.34) = 250200$$

$$\frac{250200}{33000} = 7.58 @ 50\% = 15.16 \text{ hp}$$

$$(15.16)(0.746)(0.05)(24) = \$13.60 / \text{day}$$

$$\$1221 / \text{yr}$$

NEW

400 gpm @ 225' TDH, 80% efficient

Needs to run 8.33 hr/day to meet demand

Also assume 90 days/yr for comparison

$$(225)(400)(8.34) = 750600$$

$$\frac{750600}{33000} = 22.75 @ 80\% = 28.43 \text{ hp}$$

$$(28.43)(0.746)(0.05)(8.33) = \$8.83 / \text{day}$$

$$\$795 / \text{yr}$$

OVER 30 YEARS

$$(1221)(30) - (795)(30) = \$12,780$$

## MIDDLEPORT (CONT)

EXISTING #4 → Oversized pump

Reported to only be producing 300 gpm

300 gpm @ 265 TDH → 26% efficient from curve

Runs 9.5 hrs/day

= \$27.90/day

= \$2510/yr

NEW → from before

= \$8.83/day

= 795/yr

OVER 30 YEARS

= \$51,450

TOTAL GREEN = \$64,230