

Development of Centralized Water Supply System in Velykoploske Village

Presentation prepared under DEFRA funded
Replicable Methods of Improvement of
Rural Water Supplies and Sanitation Project

Velykoploske Village:

Number of households – 1500.

Population – 3200.

Annual budget – UAH 144 000

Number of artesian wells – 5

Water quality in artesian wells
meets standards “Potable Water”.

Water pollution in household wells: nitrate concentration
exceeds statutory levels 35 times.

Number of children having had hepatitis – over 40.

Problems related to inadequate potable water :

- High morbidity rate among children;
- Vegetable pollution as a result of using poor quality water for sprinkling vegetable gardens.

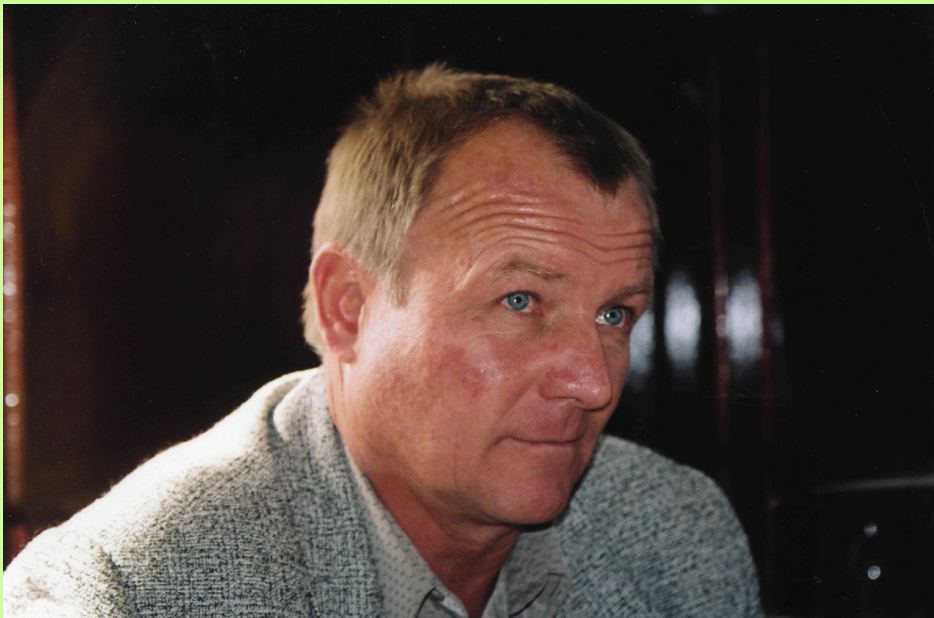
Reasons of water pollution in household wells :

- Pollution of ground water with effluent from places where manure has been stored since the village foundation;
- Pollution of ground water with effluent from sinkholes (toilets);
- Wells are located close to manure storage and/or toilets (own and neighbours').

Velykoploske Village Working Group :

1. Orlov V.K. – Village Council Head
2. Katrichko N.M. – Head of “Monolit” Ltd.
3. Shyshkin N.N. – Head of “Topaz” Ltd.
4. Kuzminskiy Y.N. – Head of “Agrosoyuz” Ltd.
5. Privalov G.M. – Head of “Rassvet” Agricultural Production Co-operative
6. Yezhdin I.A. – Head of “Agrotechnika” Ltd.
7. Kudelin K.I. – “Kristal” Ltd.
8. Podvysotskaya T.N. – Programme Manager
9. Shvets A.M. – Project Co-ordinator from Velykomikhaylovsky rayon
10. Dolgikh N.P. – Project Co-ordinator

Velykoploske Working Group Members



What was planned to do for developing centralized water supply system :

- Carry out chemical and bacteriological analysis of water in wells and boreholes;
- Prepare and carry out awareness campaign aimed at population involvement;
- Prepare a business plan for the municipal enterprise development;
- Develop software and water user database to ensure efficient operation of the enterprise;
- Develop and deliver training for the municipal enterprise staff;
- Carry out work on reconstruction of artesian wells, water-pipe laying, and water user connection;
- Develop a plan of reducing ground water pollution.

What was done to develop a centralized water supply system :

- carried out chemical and bacteriological analysis of water in artesian wells and household wells;
- carried out information campaign among community members and representatives of business and local authorities;
- relevant equipment purchased for the enterprise;
- the borehole restored;
- 7,5 км water-pipe laid through the village;
- 70 houses connected to the water-pipe;
- Software developed and staff trained for the communal enterprise;
- UAH 25 thousand raised from local enterprises.

What should be done to ensure water supply system operation :

- connect all village households to the water-pipe within one year;
- restore five artesian wells and connect them to the water supply system;
- equip the municipal enterprise with a tractor and a trailer;
- raise funds from the village dwellers for laying the water-pipe and connecting water users to it;
- start manure removal from farmsteads in order to reduce ground water pollution;
- raise awareness among village residents about health risks associated with the use of polluted drinking water.

Thank you for
attention!

