

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: Burr Oak Regional Water District PWSID: 0501311

Project Name: New WTP PPL #: 4  
(as assigned by OEPA-- refer to project list on web)

Total Estimated Project Cost: \$13,771,256 Total Est. Green Amount: \$2,462,000

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 16, 2009

For OEPA use only:

Project #: FS390211-01 DWSRF #: PPL # 4



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**OTHER ENVIRONMENTALLY INNOVATIVE ACTIVITY**

PWS Name: Burr Oak Regional Water District

PWSID: 0501311

Project Name: New WTP

PPL #: 4  
as assigned by OEPA – refer to ARRA  
project list on web)

Total Est. Project Cost: \$13,771,256      Total Est. Green Reserve Amount: \$1,852,000

**Project Summary:**

This project entails the construction of a new 4 MGD groundwater treatment plant to replace the existing 2 MGD surface water plant currently utilized by BORWD. The construction of 5 wells, 5 miles of raw waterline and 2 miles of finished waterline are also included with this project but are not considered green. The new WTP will include iron & manganese filtration, ion exchange softening, intermediate and high service pumps, two clearwells and chemical feed equipment.

**Business Case Narrative:**

The existing surface water treatment plant was constructed in 1960. Various upgrades or additions to the equipment have occurred throughout the years but very little has been done to the building. Among other things, this project will include the construction of a new energy efficient building to house the new groundwater treatment equipment. Some of the energy efficient measures being incorporated into the new structure include:

- Additional thickness cavity wall construction to allow extra insulation in the walls.
- Roof insulation
- Thermally insulated window and door frames
- Low-E insulating glass with glazing
- Zone construction to maximize the overall efficiency of the computer controlled HVAC system

The entire construction of this building is considered green eligible. From the bids, this includes the cost for the process building, electrical work and HVAC work for a total of **\$1,852,000**.