

2009 Adopted WTD CIP New Project IBIS Project numbers

| IBIS Project Number | Project Title | Project Scope | 2009 Cashflow |
|---------------------|---|---|---------------|
| 423621 | Influent Screening Improvements at the WPTP | This project will fund design and construction necessary to modify the West Point Plant's influent screenings facilities to a maximum 3/8" aperture to meet the requirements of new state biosolids management regulations (WAC 173-308). | \$1,009,679 |
| 423622 | West Section Control System Replacement | Replace and upgrade the West Section control systems in alignment with WTD Control System Standards. This upgrade will bring West Point Treatment Plant and Offsite up to the same level of modern wastewater control automation and Regional-Supervisory Process control as is under design and construction at East Section and in support of Brightwater Treatment Plant. | \$500,000 |
| 423623 | WPTP Replace CM trailers & Control System Area | This project will replace the existing construction management trailers which reached the end of its useful life at West Point with an equivalent amount of new space. | \$1,510,940 |
| 423624 | WP Treatment Plant Disinfection | Design and construct a disinfection system that utilizes a more stable disinfection chemical to replace the existing chlorine system at the West Point Treatment Plant. | \$717,900 |
| 423625 | Forcemain & Siphon Inspection & Access Improvements | Aging forcemains, inverted siphons, and pressure sewers have not been inspected because the technology to inspect pipes that are always full of sewage only recently became available. This project will develop a prioritized list for forcemains, inverted siphons, and pressure sewers that require inspections and prepare a predesign report analyzing the potential for installation of access ports needed for inspection. | \$102,900 |

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| 423626 | Bellevue Influent Trunk Improvements | The Bellevue Influent Trunk has an estimated 5 to 10-yr peak flow level of service. This level of service is below the 20-year peak flow design standard stated in RWSP Conveyance Policies. The project would consist of a 21 in parallel pipeline along ~1,600 feet of existing King County gravity pipeline along 102nd Ave. SE between SE 3rd St and SE 6th St in Bellevue; and 100 ft of 21 in diameter micro-tunnel stream crossing of Meydenbauer Creek. | \$430,190 |
| 423627 | Sunset/Heathfield Pump Station & Forcemain Upgrade | The Sunset/Heathfield Pump Stations Replacement and Force Main Upgrade is intended to increase the peak pumping capacity of the two pump station system to utilize the maximum available capacity in the regional gravity sewer systems directly upstream and downstream of the pump stations and force main discharge point. | \$940,868 |
| 423628 | Ravenna Creek Separation | This project will design and implement the necessary improvements at the Ravenna Creek drop structure and associated conveyance system to prevent overflow discharge events from occurring. | \$1,500,000 |
| 423629 | Norfolk Regulator Electric & Generator Upgrade | Remove and replace existing electrical power systems with new motor control centers, new motor starters and gate operators. Replace existing obsolete PLC and control systems with new, modern controls. Replace aged lighting and power distribution systems as recommended. Remove and replace existing heating, air conditioning, and ventilating systems to meet current code and new facility requirements. Remove existing generator and replace with new, low-maintenance air-cooled generator sized for the current facility. | \$152,387 |

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| 423630 | Barton Pump Station Upgrade | The project will construct a new underground standby generator and odor control structure to house the new equipment adjacent to the existing pump station. The project will include mass excavation, building construction, and all electrical and mechanical support necessary to complete. It will also include modifications to the existing pump station to include new electrical upgrades, replacement of motor control centers, and main control panels, variable speed drives, and pumps. New force main piping modifications will be made in new discharge structure. Restoration and landscaping will be done with community participation and input. | \$1,141,653 |
| 423631 | Murray Pump Station Upgrade | The project will include mass excavation, building construction, electrical and mechanical support services and those pump station modifications necessary to make the system complete. Site restoration and landscaping must be coordinated with the Morgan Junction Community Association of the Logan Park community. Electrical improvements including new variable frequency drive and motor control center have been installed as part of a successor project. | \$1,359,222 |
| 423632 | Enterprise Content Mgmnt System | This project will fund the design and implementaiton of an electronic document management that is believed to be a best practice for capital project documentation. The project will coordinate with King County's information technology Project Review Board and comply with its requirements. | \$460,856 |

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| 423633 | Water Quality Data Store | This project will fund development of a mirror database of Environmental Labs data (LIMS) for WTD and WLRD, as well as environment indicator database creation, networking, and data publishing using standards developed in this project as well as the WTD Control System Standards project, and WTD Laboratory Information Management System. | \$185,400 |
| 423634 | Asset Management System | This project will fund the implementation of computer systems required to successfully implement the Asset Management Program (AMP) in conjunction with efforts to improve maintenance best practices. The AMP will focus on four key areas: 1) Equipment Replacement Forecasting/Scheduling, 2) Maintenance Scheduling/Work Order Management, 3) Condition Assessment, and 4) Total Cost of Ownership. | \$232,400 |
| 423635 | Process Network Security | This project will fund the design and installation of cyber security measures for WTD treatment plant and offsite facility control systems and related critical networks. Risk analysis measures both cyber threats as well as physical security. A design cost/benefit analysis will be utilized to address the most probable and highest-risk security threats. Typical installations will focus on hardware and software to build and maintain network firewalls to protect new and revised control systems. | \$269,860 |

\$10,514,255