



January 11, 2007

TO: Doug Baker, City Administrator

FOR: City Council

FROM: Public Works Department

RE: **PUBLIC WORKS DEPARTMENT REPORT -- 4th QUARTER, 2006
OCTOBER, NOVEMBER & DECEMBER**

I. MAJOR PROJECTS

Transportation

- A. Tumwater Boulevard Improvements – Capitol Boulevard to I-5 (0X378) / Status: Active
- Work is progressing as weather allows. Work that will continue during inclement weather consists of installing irrigation pipe, traffic signal equipment and perhaps some curbing.
 - Landscaping and the illumination are dependent on the sidewalk construction, which is highly dependent on favorable weather.
- B. Littlerock Road – Trospen to South City Limits (0X377) / Status: Active
- Right-of-way acquisition has been completed on all but 12 of the properties. "Public use and necessity" for the remaining parcels was granted in Thurston Co. Superior Court. Since that action, we have now reached agreement or will be getting a possession and use agreement on 8 of the 12. The condemnation process continues on those properties for which we haven't reach agreement.
 - Construction plans are about 90% complete.
 - Pursuant to a recent Governor's Executive Order, a cultural resources assessment must be completed and reviewed by the Department of Archeological & Historical Preservation on some state-funded projects, including this one. Staff is preparing the assessment.
- C. Trospen Road Widening @ Skipper Lane (0X387) / Status: Active
- One of the two pieces of required right-of-way has been acquired.
 - The Trospen Road work will be added to the Littlerock Road project.

- D. North Street Reconstruction (0X398) / Status: Active
 - NEPA approval has been received. Staff will pursue FHWA right-of-way certification for widening separate from right-of-way needed for Schedule 74 overhead utility conversion.
 - Staff and PSE have reviewed preliminary plans and property (easement) needs. Staff is coordinating with other utilities in an attempt to optimize available space prior to pursuing additional easements.
 - Plans and specifications are nearly construction-ready pending accommodations for the utility work.

- E. Tumwater Town Center Connector (0X396) / Status: Active
 - Preferred design alternatives are being prepared for Public Works committee consideration in February.

- F. Tumwater Boulevard/I-5 Interchange (0X393) / Status: Active
 - The project charter between WSDOT, FHWA and the City has been prepared.
 - Survey work has been completed.
 - Working with TRPC to project 2030 trip volumes.

- G. Deschutes Way Bike/Pedestrian Improvements (0X399) / Status: Active
 - The preliminary phase of this project will require additional coordination with Parks & Rec projects, and other affected properties.
 - This project will require a significant amount of environmental documentation and review.

- H. Henderson Boulevard Railroad Crossing (0X394) / Status: Active
 - Union Pacific Railroad has provided no specific schedules for this work at this point.

- I. 2006 Sidewalk Improvements (0X201); Sidewalk Infill (0X202) / Status: Complete

- J. Transportation Plan Review (0X351) / Status: Active
 - Staff has reviewed the plan and provided comments. Draft plan is being revised accordingly.

- K. Tumwater Trails Plan (0X391) / Status: Active
 - Public Works staff stands ready to assist Parks & Recreation in further development of the plan.

General Government

- L. Pioneer Park Phase III (0X304) / Status: Active
 - Project is ready to go to construction once permits are secured, with consideration to the time frame restrictions included in the Corps of Engineers' permit.

Water

- M. Telemetry System Upgrade (07393) / Status: Active
- Staff will seek authority to solicit proposals in 2007.
 - Staff has been, and continues to pursue installation of conduit for fiber optic cable to each of our telemetry sites for improved communications.
- N. Southwest Well Development (07392) / Status: Active
- Staff is pursuing water rights. Met with Ecology to discuss provisions for water right transfers and is developing a new model to further investigate impacts.
- O. Custer Way Water Improvements (07396) / Status: On Hold
- It has been decided to postpone the water main replacement portion of the Custer Way project until a better plan can be established for the portion of Custer Way that still has a concrete slab under the existing pavement.
- P. Palermo Wellfield Improvements (07402) / Status: Active
- A draft report has been received from Pacific Groundwater Group detailing recommendations for additional study, including on-site data collection, to effectively rehab the Palermo Well Field.
- Q. Wellhead Protection Program (02104) / Status: Active
- Staff is evaluating options for developing a network of monitoring locations in the southwest well field wellhead protection area, to date, one well has been secured.
 - Staff will coordinate with Thurston County Environmental Health staff to initiate the next round of wellhead protection area inspections.
- R. Water Conservation Program (02108) / Status: Active
- Free indoor water saving kits, automatic shut-off spray nozzles, rain gauges, outdoor watering guides, and \$10 rebates for purchase of a rain barrel are available to all water customers.
 - The commercial irrigation program continues with the goal of reaching five of the largest irrigators. Final reports have been completed for 2006. The 2007 campaign is underway with revisions to add residential irrigation systems and a workshop.
 - Staff is reviewing innovative options for conservation measures for the institutional, commercial and industrial sectors.
 - Educational materials for broadcast on TCTV next spring have been received.

Sewer

- S. Southern Connection – Local Piping (08328) / Status: Active
- The Custer Way area sewer redirection project is nearly ready for construction. Design is being fine tuned in terms of the lift station equipment and telemetry.
 - Construction will require an encroachment into the UPRR right-of-way. Staff is hopeful the work can be performed under a contractor permit, rather than a supplemental operating agreement. Despite changes made in the vicinity of the Metalcraft lift station, no supplement has been executed since about 1956.
- T. Sanitary Sewer Comprehensive Plan Update (08331) / Status: Inactive
- Statements of qualifications have been received. Selection of a consultant will be made in 2007.
- U. 2006 Annual Sewer Rehabilitation Program (08336) / Status: Active
- Staff awaits return of completed paperwork from the contractor to close out the project.
- V. Littlerock Road Interceptor (08334) / Status: Active
- Most of the main installed to date is tested and active.
 - Work is progressing slowly due to groundwater soil conditions, conflicts with other utilities, and traffic management.
 - A mid-Spring completion is still likely.
- W. LOTT-Funded Water Conservation Projects (30097) / Status: Active
- The “Wash Wise” washing machine replacement program continues in 2006 complemented by rebates from Puget Sound Energy. In 2006 96 \$100 rebates have been given out to Tumwater residents.
 - The Water Smart Technology program continues. Staff completed revisions to the program to encourage more participation from local businesses, and are now offering rebates of 75% for retrofitting existing facilities to be more resource efficient.
 - Staff is reviewing an additional collaborative opportunity with PSE for resource-efficient technologies within restaurants, including boiler steamers are estimated to reduce water use by approximately 75%.
 - Staff is working with the Partnership to develop a regional program to market options for water conservation, including bus advertisements and brochures.

Storm

- X. Salmon Creek Basin (09322) / Status: Active
- Staff is finalizing amendments to the high groundwater ordinance to facilitate third party review and/or analysis.
 - Pacific Groundwater Group is the city’s consultant for third party review of

high groundwater related projects.

- Staff is pursuing development of an “integrated guidance” document for developers interested in working within high groundwater areas.

Y. Barnes Lake Management District (LMD) (43000) / Status: Active

- The Barnes LMD steering committee continues to meet monthly focusing on development of an integrated aquatic vegetation management plan.
- The 2007 budget and work plan is being developed and will be available for Council review in February 2007.
- Water quality surveys by Thurston County are underway.
- The NPDES permit required by Ecology for chemical treatment of lake vegetation has been secured. Proposals for treatment activities are being solicited from DOE-certified applicators.
- The Aquatic Vegetation Management Plan is being finalized and should be available for Council review in February 2007.

Z. Drainage Manual Revisions (04315) / Status: Active

- SEPA has been approved.
- Copies of the manual have been distributed to implementation staff for review and comment. Staff is coordinating with Lacey and Thurston County to adopt the manual with consistent revisions and in the same time frame (Target – February 2007).
- The regional stormwater TAC is developing a training program for internal staff.

I I. SIGNIFICANT ACTIVITIES

A. Consumer Confidence Report, 2005

- The report is complete and has been distributed.

B. Cross Connection Control

- A cross connection control site has been added to the city’s web site allowing the public access to educational information and on-line submittal of the required survey.

C. Water Rights

- Staff continues to negotiate pending (changed and new) applications with Ecology.
- Staff is pursuing leads on additional water rights for transfer to the Southwest Well Field.

D. Well Drilling Ordinance

- Staff is considering language to limit the drilling of new wells for potable use to further protect groundwater sources, and to require transfer of water rights from large developments seeking annexation and water service.

E. FOG (Fats / Oil / Grease)

- Staff continues to work with businesses to reduce FOG-related materials in the waste stream.

F. Stream Team

- Partnered with Lacey, Olympia, and Thurston County to provide regional programs including:
 - Winter edition of the quarterly newsletter written, edited and distributed.
 - Recruited volunteers and supervised “Water World” portion of Stream Team’s Haunted Hike held October 14th. Over 700 people attended.
- Salmon Stewards:
 - Coordinated and scheduled volunteers for Tumwater Falls from mid-September to mid-October. Sixteen volunteers participated for a total of 110 volunteer hours.
- Tumwater Falls Harvest Fest::
 - Planned activities and recruited volunteers, including Salmon Stewards, for water and salmon education at festival on October 1st. Over 4,000 people attended.
 - Met with partners to begin 2007 planning.
- Storm Drain Marker program:
 - Markers provided for new construction projects.
 - Drain marking events scheduled with Old Town Center youth program.
- Deschutes River Habitat:
 - Site 130 stabilization and habitat enhancement project completed November 4th. Additional willows and shrubs planned. 39 volunteers participated for a total of 78 volunteer hours.
 - Spring project planned for March 10th.
- Percival Creek Habitat:
 - Stream Team volunteers weeded plantings throughout the fall.
- South Sound GREEN (Technical Advisory Committee Chair):
 - New monitoring site established along Percival Creek at Troesper (Alderbrook). Chemical monitoring at Alderbrook and Sapp Road sites completed on October 19 & 20.
 - New monitoring site established on the Deschutes at Rich Road (Pettit)
- Friends of the Deschutes Watershed Center (President):
 - Led bi-monthly meetings.
 - Friends staffed an information booth and prepared barbequed salmon dinners for Harvest Fest.
- Natural Resources Youth Camp Board (Vice-Chair):
 - Attended 2007 camp planning meetings.
- Staff continues serving on interjurisdictional committees including EETAC (Environmental Education Technical Advisory Committee), providing technical support to WRIA 13 evaluating and ranking local salmon recovery projects for SRFB funding requests, and serving on TMe3 (Thurston-Mason Education, Environment & Economy) Committee.

- G. Watershed Planning
- A report on Ecology's Deschutes TMDL (Total Maximum Daily Loading) process is being reviewed by staff.
 - Thurston PUD provided a report to the city evaluating water resource needs in the area. Staff is reviewing the report and will provide comments as necessary.
- H. Water Quality
- Staff has reviewed an initial study to assess the effects of perchlorate on shallow groundwater. Further modeling is necessary to fully understand the effect of perchlorate on groundwater quality.
 - Staff solicited SOQs from area engineering firms to evaluate and model disinfection methods for permanent facilities.
- I. Fish Rearing Facility
- Washington Fish & Wildlife (WDFW) continues with planning and design. The Governor's proposed budget includes over \$2 million for the watershed center and awaits House & Senate action.
- J. Stormwater Management
- The regional stormwater management team revised the interlocal cooperation agreement, extending the regional program to 2010.
 - Ecology released the final NPDES Phase II permit in December. Staff is reviewing the permit to incorporate program needs. The permit will be issued to the city in January 2007.
 - The regional West Nile Virus (WNV) outreach committee continues to monitor the area. To date there have been two human cases of WNV reported in Washington State. The active mosquito season for 2006 is over. The WNV group will continue monitoring WNV activity in 2007 with additional funds from the state and CDC.
 - Staff continues to develop and implement an on-going inspection program for private stormwater facilities.
- K. Utility Shut-Off Notices
- 272 notices were delivered in October, with 28 actual disconnects.
 - 349 notices were delivered in November, with 47 actual disconnects.
 - 389 notices were delivered in December, with 48 actual disconnects.
- L. New Utility Service Installations
- Per Development Services' request 32 new water services and 1 sanitary sewer connection were installed in the 4th quarter of 2006.
- M. Other Maintenance Activities
- 418 "One Call" utility locates were requested in the 4th quarter of 2006.
 - 85 citizen action requests were completed in October, 152 in November,

and 83 in December.

- N. Survey, Mapping & Project As-Built Drawing Database
- New surveys, plats, etc., are added as new documents come in from Thurston County. New as-built documents, including utilities, are added to the drawing database as they are accepted and become available.
 - In-progress project drawings are now scanned and added to the server for accessibility by city staff.
 - All information in the Public Works drawing and recorded survey databases, including aerial photography and project as-builts are hyperlinked in PDF format MAP and are available to city staff on the Public Works server.
 - Tumwater's GPS system is now a partner in the Washington State Virtual Reference Station Network, allowing for improvements in data acquisition and sharing.
- O. Education / Training / Workshops
- Engineering Tech III/Construction Inspector David Mills attended first aid/CPR training in November.
 - Water Resources Program Manager attended a one-day stormwater and receiving water monitoring and testing class on December 1st.
- P. Personnel
- Engineer III Nhan Vo began work on November 6th.
 - Beginning in January 2007, Debbie Smith, Public Information & Education Coordinator for Water Resources moves from ½ time to ¾ time.

/smt