

Deschutes River, Capitol Lake, and Budd Inlet TMDL Advisory Group Meeting

Thursday, March 31, 2011 -- 9:10 a.m. to 12:20 p.m.
LOTT Clean Water Alliance, 500 Adams St. NE, Olympia

Attendees

Capitol Lake Improvement Protection Association (CLIPA)

- Jack Havens
- Jewel Goddard

Citizen

- Bob Holman
- Gary Larson

Deschutes Estuary Restoration Team (DERT)

- Zena Hartung
- Cliff Mitchell
- Sue Patnude

Ecology, WA State Dept. of

- Kim McKee
- Lydia Wagner

General Administration, WA Dept. of

- Nathaniel Jones

Health, WA State Dept. of

- Mark Toy

LOTT Clean Water Alliance

- Karla Fowler
- Eric Hielema
- Ben McConkey

- George Peterson

- Laurie Pierce

- Paula Williamson

Northwest Indian Fisheries Commission

- Emmett O'Connell

Olympia, City of

- Laura Keehan

Olympia, Port of

- Robert Zinkevich

Olympia Yacht Club

- Jim Lengenfelder

South Puget Sound Salmon Enhancement Group (SPSSEG)

- Jack Havens (also representing
CLIPA)

Thurston County Environmental Health

- Sue Davis

Thurston Public Utilities District

- Chris Stearns

Tumwater, City of

- Dan Smith

Updates

The April 28 meeting location changed from the Tumwater Fire Department to one of the Washington State Department of Social and Health Services (DSHS) offices in Olympia. Lydia will provide more details, including directions and parking information, in the final meeting notes and by e-mail to the Deschutes TMDL distribution list.

An updated **2011 Meeting Schedule** is available online at

<http://www.ecy.wa.gov/programs/wq/tmdl/deschutes/advisorycomm/DeschutesAdvGrp2011MtgDatesRev.pdf>.

By group agreement, we changed the agenda to accommodate those who could not stay for the tour. The Public Comment agenda item will happen following the break and before the Budd Inlet Treatment Plant tour.

LOTT Clean Water Alliance Overview:

Guest Speaker, **Karla Fowler**, Community Relations and Environmental Policy Director, supported by **Laurie Pierce**, Operations and Facilities Director, provided a non-technical overview of LOTT Clean Water Alliance facilities and services. *The following are highlights from her presentation:*

Mission statement: Preserve and protect public health and the environment by cleaning and restoring water resources for our communities.

Business structure: LOTT Clean Water Alliance is a non-profit organization. They function, however, as a special-purpose government and are owned by four entities: Cities of Lacey, Olympia, and Tumwater, and Thurston County. They operate under the Wastewater Resource Management Plan and an Interlocal Agreement for Wastewater Management.

Wastewater Resource Management Plan addresses:

- Reclaimed water (production, distribution, and use)
- Groundwater recharge
- Flow reduction
- Increased Budd Inlet discharge (wet weather season only)

Budd Inlet Treatment Plant: This is LOTT's main wastewater treatment plant. They treat an average of 10 to 12 million gallons per day (mgd) of wastewater to "advanced secondary" standards. Most of the treated water is discharged into Budd Inlet. Before the original plant, all water was discharged directly into the bay. The original plant was built by the City of Olympia. It came online in 1952 and provided the most basic level of treatment – primary sedimentation and disinfection. The solids were anaerobically digested and dried in sludge drying beds. LOTT was formed in 1976. The plant was upgraded to secondary treatment in the early 1980s and further upgraded to add nitrogen removal and ultraviolet disinfection in the early 1990s. The next step, addition of tertiary reclaimed water treatment, was implemented in the early 2000s, following a long-range planning process that included a Scientific Study of Budd Inlet. The resulting plan envisions a gradual shift away from marine discharge toward decentralized production, distribution, and use of reclaimed water.

Reclaimed water: Their first reclaimed water plant was built at the Budd Inlet Treatment Plant. It is a sand filter system completed in 2005 and was fully operational in 2006. It takes a portion of the already-treated water from the Budd Inlet Treatment Plant, up to 1 mgd, and filters it further to Class A standards. Reclaimed water facilities and pipelines are color-coded purple to make them easily identified. Currently there are three community users of the reclaimed water produced by this facility:

- **Washington State Department of General Administration:** Irrigation at Heritage Park, Marathon Park, and Deschutes Parkway. The next phase will include Capitol Campus.
- **Port of Olympia:** Irrigation, dust suppression, and pond landscaping
- **City of Olympia:** Irrigation at Percival Landing

In July 2006 operations began at LOTT's first satellite plant – the Martin Way Reclaimed Water Plant in Lacey. This site uses a different technology from the Budd Inlet site. It's a membrane bioreactor system. The site was built to initially treat 2 mgd and can expand to 5 mgd. The water is piped three miles to a 40-acre site with a series of constructed wetland ponds and groundwater recharge basins. The reclaimed water circulates through the ponds, ultimately going into the recharge basins to infiltrate to ground.

LOTT Regional Services Center: They built the new center to consolidate all their staff, eliminate need for leased office space, expand and update the water quality laboratory, create an Education Center, and create a new public face for LOTT. Reclaimed water is used for irrigation, toilet flushing, and a water feature with a large fountain.

Future Projects: Over the next eight years, LOTT plans to invest more than \$100 million in further improvements to the Budd Inlet Treatment Plant. LOTT has also purchased properties for future reclaimed water groundwater recharge sites and a second satellite plant. A search for a third satellite plant site is in process. A groundwater recharge scientific study is also planned.

Karla's presentation is available online at

http://www.ecy.wa.gov/programs/wq/tmdl/deschutes/advgrp.html/033111_DeschutesAdvMtg_LOTT.pdf.

LOTT provided meeting attendees with packets containing the following informational materials:

- *Cleaning and Restoring Water for Our Communities: Deschutes TMDL Advisory Group Presentation Slides (March 2011)*
- *Budd Inlet Scientific Study: An Overview of Findings (August 2000)*
- *Your Guide to the Budd Inlet Treatment Plant*
- *Reclaimed Water: a New Water Resource for Our Communities*
- *Reclaimed Water at the Budd Inlet Treatment Plant (May 2010)*
- *Coming Down the Purple Pipe... Hawks Prairie Reclaimed Water Satellite (May 2010)*
- *The Right Water for the Right Use. Frequently Asked Questions About Reclaimed Water (June 2007)*
- *Ever wonder...[Water Education and Technology Center rack card]*
- *Water Conservation Rebates and Offers*

More information about LOTT Clean Water Alliance is available at www.lottcleanwater.org.

Contact information:

Karla Fowler

Community Relations & Environmental
Policy Director
LOTT Clean Water Alliance
karlafowler@lottcleanwater.org
360-528-5712

Laurie Pierce

Operations & Facilities Director
LOTT Clean Water Alliance
lauriepierce@lottcleanwater.org
360-528-5727

Budd Inlet Treatment Plant Tour:

Ben McConkey and George Peterson took us on a guided tour of LOTT's main wastewater treatment plant. Photos from the tour are available online at

http://www.ecy.wa.gov/programs/wq/tmdl/deschutes/advgrp.html/033100_DeschutesAdvMt_g_Budd_Inlet_TreatPlant_Tour.pdf.

Contact information:

Ben McConkey

Operations Supervisor

LOTT Clean Water Alliance

benmconkey@lottcleanwater.org

360-528-5749

Open Comment:

Chris Stearns: He asked for an overview of work already completed on the TMDL, including any conclusions Ecology has made. Are there any regulatory proposals addressing water quantity and water quality issues? What are Ecology's goals and proposals?

Robert Zinkevich: What effluent limits is Ecology considering for this TMDL?

Jim Lengenfelder:

- He would like a future agenda item to include an update on Thurston County's Critical Areas Ordinance.
- Referencing the nitrate discussion: *What about phosphorus? How will the Deschutes TMDL address phosphorus loading?* He wants information about the Spokane River TMDL. *How was phosphorus addressed in that one? What lessons did Ecology learn in the TMDL process?*

Sue Davis: She thanked LOTT for their presentation and information. She would like to see them "stress the interconnectedness of all the pieces of the Deschutes River system."

Next meeting

Date: Thursday, April 28, 2011

Time: 9:00 a.m. – 12 noon

Place: DSHS Office Building 2, 1115 Washington St. SE, Conf. Room SL-03, Olympia

Agenda: Lake or Estuary: Differing points of view by the Deschutes Estuary Restoration Team (DERT) and the Capitol Lake Improvement Protection Association (CLIPA)

Special instructions and directions to the DSHS Office Building 2 (OB-2):

The meeting room SL-03 is located on the service level floor of our building (next to the cafeteria). You do not need an escort to get to the room when you arrive.

Follow the directions below and you will be on the service level of the building when you arrive.

Directions from I-5 North or South



Entrance to Visitor Parking

1. Take the State Capitol exit 105A. This exit will place you on 14th Avenue.
2. Continue through the tunnel and turn right on Capitol Way.
3. Next, turn right onto 11th Avenue then, right onto Washington Street.
4. The Visitor Parking is on the left. *Parking cost is \$.50/hour.*

Entrance to Visitor Parking



Entrance to Underground Walkway

1. From the Visitor Parking area, enter OB-2 through the underground walkway pictured here.
2. You will proceed straight (into the underground parking area) and follow the signs to OB-2.