



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

April 24, 2006

Ordinance 15424

Proposed No. 2006-0166.2

Sponsors Ferguson and Phillips

1 AN ORDINANCE making a supplemental appropriation
2 of \$12,994,100 of capital funds to provide the appropriate
3 level of appropriation authority on an emergency basis for
4 the Ballard siphon replacement project in the conveyance
5 pipelines and storage appropriation project category; and
6 amending the 2006 Budget Ordinance, Ordinance 15333,
7 Section 116, as amended, and Attachment D, as amended.

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10 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

11 **SECTION 1. Findings.**

12 A. The Washington ship canal is the only migratory path for fish entering and
13 leaving Lake Washington, Lake Sammamish and the respective tributaries and is a
14 significant and important environmental resource.

15 B. The existing Ballard siphon in the Washington ship canal was built in 1935
16 and consists of two thirty-six-inch diameter wood-stave pipes. Wood-stave pipes are

17 shaped wood planks and are made by compressing wood stave into the cylindrical shape
18 by means of tensioned steel bands or rods.

19 C. The existing Ballard siphon on average conveys seven to eight million gallons
20 per day across the Washington ship canal.

21 D. Although the wastewater treatment division ("WTD") of the department of
22 natural resources and parks has an extensive program to perform condition assessments
23 on the three hundred fifty miles of pipes that make up the wastewater conveyance system
24 for King County, WTD was unable to perform conditional assessments on the Ballard
25 siphon because the siphon is full of sewage thereby preventing television inspection.

26 E. The WTD employed recently available sonar technology to inspect wastewater
27 pipes that are full of sewage in November 2005.

28 F. On December 15, 2005, the WTD received the sonar inspection report from
29 Sonar Solution Inc. for the existing Ballard siphon.

30 G. On January 17, 2006 the structural engineering consultant firm Roberts
31 Engineering submitted a structural analysis report of the sonar inspection which
32 concluded that the existing Ballard siphon had exceeded its service life, is failing in
33 multiple locations, and is in imminent danger of total collapse.

34 H. The WTD has determined that repair to the existing Ballard siphon is not
35 feasible and the condition of the siphon warrants installing a temporary emergency
36 bypass pipe to mitigate risks and reduce impacts from a total collapse.

37 I. The emergency temporary bypass would not eliminate overflows in the event
38 of a total pipe collapse, but would reduce the amount of untreated sewage flowing into

39 the ship canal from an average flow of seven to eight million gallons per day to an
40 average flow of two to three million gallons per day.

41 J. The environmental, operations and maintenance concerns with placing the new
42 siphons onto the canal floor may dictate using a specialized horizontal direction drilling
43 technique to install new pipes under the ship canal.

44 K. Pursuant to K.C.C. 4.16.050, on March 29, 2006, the King County executive
45 issued a determination of emergency and waiver from procurement requirements because
46 the imminent risk of total collapse of the existing siphon and the resultant large sewage
47 overflows into the ship canal constitute an emergency that presents real threat to public
48 health, safety, welfare and property and the environment.

49 L. In addition to expediting the procurement of design and construction services,
50 the executive's determination of emergency and waiver will allow the WTD to work with
51 permitting agencies throughout the construction process so that permits can be issued
52 after construction has been completed as opposed to prior to the commencement of
53 construction.

54 M. An expedited permitting process is necessary to assure the timely installation
55 of the emergency bypass pipe and design, construction and installation of a new siphon
56 and inlet and outlet structures.

57 SECTION 2. Ordinance 15333, Section 116, as amended, is hereby amended by
58 adding thereto and inserting therein the following:

59 The Ballard Siphon Repair Project 423XXX, in appropriation project category A20400
60 Conveyance Pipeline and Storage requires an appropriation of \$12,944,100 to cover all

61 costs and expenses associated with the design, construction and completion of the
62 emergency restoration.

Fund	Capital Fund	Amount
4616	Wastewater Treatment Capital	\$12,944,100

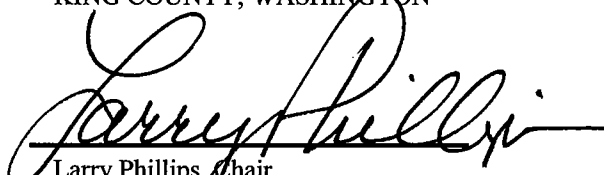
65 SECTION 3. Attachment A to this ordinance hereby amends Attachment D to
66 Ordinance 15333, as amended, by adding thereto and inserting therein the projects listed
67 in Attachment A to this ordinance.

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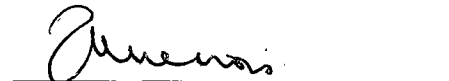
Ordinance 15424 was introduced on 4/10/2006 and passed by the Metropolitan King
County Council on 4/24/2006, by the following vote:

Yes: 8 - Mr. Phillips, Mr. von Reichbauer, Ms. Lambert, Mr. Dunn, Mr.
Gossett, Ms. Hague, Ms. Patterson and Mr. Constantine
No: 0
Excused: 1 - Mr. Ferguson

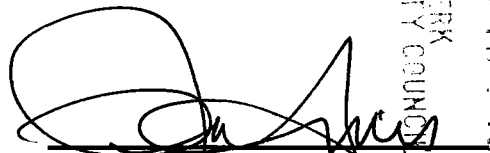
KING COUNTY COUNCIL
KING COUNTY, WASHINGTON


Larry Phillips, Chair

ATTEST:


Anne Noris, Clerk of the Council

APPROVED this 3 day of May, 2006.


Ron Sims, County Executive

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KING COUNTY COUNCIL CLERK
RECEIVED

Attachments A. Adopted Ordinance 15333, Section 116 Wastewater Treatment Capital
Improvement Program

