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May 8, 2007

**BROWN AND  
CALDWELL**

Mr. Ted Kyle, P.E.  
Capital Program Manager  
Water Environment Services  
9101 Southeast Sunnybrook Boulevard  
Clackamas, Oregon 97015

1053-131900

Subject: Plant Footprint Acreages

Dear Mr. Kyle:

We have prepared three generic wastewater treatment plant layouts for use by the Site Selection Steering Committee in its effort to identify potential sites for a new plant.

The table below summarizes the design basis and total area required for wastewater treatment plants based on three different treatment approaches.

| Treatment Technology |  |   |  |
|----------------------|--|---|--|
|                      | Conventional activated sludge with filters | Advanced treatment (MBRs and high rate clarification) | Advanced treatment (MBRs and high rate clarification)  |
| Population served    | 80,000 EDU                                 | 80,000 EDU  | 80,000 EDU   |
| Services provided    | All plant operations                       | All plant operations                                  | Solids treatment, wet weather treatment to be located off site (at another facility) and administration, maintenance and lab facilities are reduced to minimums. |
| Acres                | 35   | 27  | 14   |

Please feel free to contact me if you have any questions.

Very truly yours,

BROWN AND CALDWELL



Dan Laffitte, P.E.  
Project Manager

DEL:edg

Cc: Mr. John Lang, Public Works and Engineering Management, Silverton, Oregon