STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
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CERTIFIED MAIL: 7009 2250 0000 0886 5882
RETURN RECEIPT REQUESTED

December 5, 2014

Mr. Matt Jaspering, P.E., District Engineer
PWSD No. 2 of St. Charles County
100 Water Drive
O'Fallon, MO 63368

RE: Public Water Supply District (PWSD) No. 2 of St. Charles County – Sanitary Sewer Collection System Specifications, Standard Sewer Specifications and Details Comments No. 2

Dear Mr. Jaspering:

The Department of Natural Resources' Water Protection Program has finalized the review of the Sanitary Sewer Collection System Specifications revised November 7, 2014. We expect a response to the following requirements and recommendations below within 30 days receipt of this letter:

1. Include the references to ASTM D2321 and D2680 according to 10 CSR 20-8.120(5)(H)3.C and 10 CSR 20-8.120(5)(H)3.D respectively in Section 1.13 of the specifications.

2. Requirement No. 10 of the original Department comment letter dated August 1, 2014 requested the standard specifications to revised Detail C to include concrete encasement of the drop connection. "Due to unequal earth pressures that would result from the backfilling operation in the vicinity of the manhole, the entire outside drop connection shall be encased in concrete", per 10 CSR 8.120(6)(B)4.

   The Department has reviewed your deviation request, however a deviation is granted on a case-by-case basis given individual project considerations per 10 CSR 20-8.120(1)(A). Since this approval will be for the PWSD Sanitary Sewer Collection System Specifications, which will be utilized for many future sewer extensions, the Department will not grant a deviation from this regulatory requirement.

3. Requirement No. 17 of the original Department comment letter dated August 1, 2014 requested the standard specifications to "[a]ddress the siltation and erosion with stream crossings according to 10 CSR 20-8.120(8)(B)2." Sections 1.03 and 1.10 of the revised November 7, 2014 specifications included the requirement to follow best management practices to limit silt from entering streams. However, a statement needs to be added to adopt

the minimum number of days exposed areas can remain unprotected. "Exposed areas shall not remain unprotected for more than seven (7) days" in accordance with 10 CSR 20-8.120(80(B)2.

4. "Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on one (1) side of the sewer and at an elevation so the bottom of the water main is at least eighteen inches (18") (46 cm) above the top of the sewer" per 10 CSR 20-8.120(10)(C)1.A. This provision was included in the specification revised on July 2013, but was removed from the November 7, 2014 specifications. Include this accepted deviation for water and sewer separation.

5. Please provide two finalized copies of the PWSD No. 2 of St. Charles County Sanitary Sewer Collection System Specifications signed, sealed, and dated for Department approval.

6. Please provide a copy of the passed and signed ordinance adopting the finalized PWSD No. 2 of St. Charles County Sanitary Sewer Collection System Specifications.

Construction, installation, expansion or modification of any collection system or wastewater treatment facility is prohibited until a construction permit is issued by the Department, per 10 CSR 20-6.010(4)(A).

If you have any questions concerning this matter, please contact Mrs. Emily Carpenter at (573) 751-6569, emily.carpenter@dnr.mo.gov, or Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

Byron F. Shaw, Jr.

Byron F. Shaw, Jr., P.E., SRF Engineering Unit Chief
Financial Assistance Center

BFS:ecc

c: St. Louis Regional Office
Mr. Refaat Mefrakis, P.E., Water Protection Program, Engineering Section
Mr. Byron Shaw, Jr., P.E., Water Protection Program, Financial Assistance Center
Ms. Emily Carpenter, Water Protection Program, Financial Assistance Center