

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. R5-2002-0041

REQUIRING THE CITY OF FOLSOM
SANITARY SEWER COLLECTION SYSTEM
TO CEASE AND DESIST
FROM DISCHARGING CONTRARY TO REQUIREMENTS

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Regional Board) finds:

1. On 1 March 2002, the Regional Board adopted Waste Discharge Requirements, Order No. R5-2002-0042, NPDES No. CA0084816, prescribing waste discharge requirements for the City of Folsom (hereafter Discharger) in Sacramento County. The Discharger owns and operates a sanitary sewer collection system located approximately 20 miles east of Sacramento, near the American River, Folsom Dam, Willow Creek, Hinkle Creek, Humbug Creek, and other unnamed surface waters within the Folsom area. The Discharger's sanitary sewer collection system receives wastewater flows from domestic, commercial, and industrial sources within the City of Folsom, and flows from Folsom Prison. The Discharger's wastewater is conveyed through the Sacramento Regional Sanitation District's (District) regional interceptors for treatment at the District's Sacramento Regional Wastewater Treatment Plant.
2. The Discharger's sanitary sewer collection system consists of 17 sewerage areas in two sewer sheds: a 27-inch sewer shed and a 33-inch sewer shed. The Discharger's sanitary sewer collection system has experienced sanitary sewer overflows (SSOs), some of which have entered receiving waters.
3. Significant I/I has been noted in portions of the Discharger's sanitary sewer collection system, causing a reduction in sanitary sewer capacity that has led to SSOs and other capacity related issues. A July 2001 report recommended that Sanitary Sewer Evaluation Surveys (SSES) be conducted and sewer collection system defects be located and repaired. A September 2001 report identified the locations of sewer system defects in two of the seventeen sewerage areas.
4. Wet weather capacity concerns have been identified in the 33-inch sewer shed at the Broadstone area and the Willow Creek Corridor. In September 2001, the Discharger constructed an emergency corrective action project in the Broadstone area. Additionally, the Discharger plans to build a pipeline connecting the Oak Avenue pump station with the Broadstone area to prevent overflows in the Willow Creek Corridor.
5. Five areas within the 27-inch sewer shed have been predicted to have sewage overflows during a 10-year, 6-hour storm event. The areas are: Folsom Boulevard near Bidwell

Street, School Street, Duchow Way, Blue Ravine Road near Oak Avenue Parkway, and Blue Ravine Road near Flower Street. Interim mitigation actions have been proposed, including bolting down a Folsom Boulevard manhole cover, constructing intertie pipelines within the 27-inch sewer shed, and diverting flows from the 27-inch sewer shed to the 33-inch sewer shed. The diversion of flows from the 27-inch sewer shed to the 33-inch sewer shed will adversely affect the 33-inch sewer shed, and the Discharger is developing alternatives to accommodate the proposed diversion.

6. The Discharger's "Storm Emergency Response Plan", dated 5 January 2001, identified fifteen locations within its jurisdiction that are prone to street flooding during heavy rainstorms. Street flooding can lead to sanitary sewer inflow from open or leaking sanitary sewer manhole covers.
7. Prohibition A.1. of Waste Discharge Requirements Order No. R5-2002-0042 states:

"The discharge of untreated or partially treated sewage to any surface water stream, natural or man-made, or to any drainage system intended to convey storm water runoff to surface waters, is prohibited."
8. Provision B.1. of Waste Discharge Requirements Order No. R5-2002-0042 states:

"The Discharger shall provide adequate capacity, as defined in Finding 5, and consistent with Provision B.3., to convey base flows and peak flows, including wet weather related events, for all parts of the sanitary sewer collection system owned or operated by the Discharger."
9. The Discharger is not able to consistently comply with Prohibition A.1. and Provision B.1.
10. Section 13301 of the California Water Code states in part:

"When a Regional Board finds that a discharge of waste is taking place or threatening to take place in violation of the requirements or discharge prohibitions prescribed by the regional board or the state board, the [regional] board may issue an order to cease and desist and direct that those persons not complying with the requirements or discharge prohibitions (a) comply forthwith, (b) comply in accordance with a time schedule set by the [regional] board, or (c) in the event of a threatened violation, take appropriate remedial or preventive action."
11. On 1 March 2002, in Sacramento, California, after due notice to the Discharger and all other affected persons, the Regional Board conducted a public hearing at which evidence was received to consider a Cease and Desist Order to establish a time schedule to achieve compliance with waste discharge requirements.

CITY OF FOLSOM
SANITARY SEWER COLLECTION SYSTEM
SACRAMENTO COUNTY
CEASE AND DESIST ORDER NO. R5-2002-0041

-3-

12. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.), in accordance with Section 15321 (a)(2), Title 14, California Code of Regulations.
13. This Order requires that actions be taken to correct identified deficiencies and operation and maintenance activities within the existing sanitary sewer collection system. These projects may be exempt from the provisions of the California Environmental Quality Act, in accordance with Title 14, California Code of Regulations, Sections 15301, 15302, 15303, and 15308. Should the Discharger propose to construct additional facilities, the Discharger shall comply with Title 14, California Code of Regulations, unless exempt pursuant to Section 15300 et. seq.
14. Any person adversely affected by this action of the Regional Board may petition the State Water Resources Control Board (State Board) to review the action. The petition must be received by the State Board Office of the Chief Counsel, P.O. Box 100, Sacramento, CA 95812-0100, within 30 days of the date which the action was taken. Copies of the law and regulations applicable to filing petitions will be provided on request.

IT IS HEREBY ORDERED THAT:

1. The City of Folsom shall cease and desist from discharging wastes, or threatening to discharge wastes, contrary to Prohibition A.1 and Provision B.1. contained in Waste Discharge Requirements Order No. R5-2002-0042, as described in the above Findings. Except as specified below, no term or condition of Order No. R5-2002-0042 is superseded or stayed by this Order.
2. The Discharger shall conduct the following:
 - (a) By **1 June 2002** the Discharger shall submit plans and a time schedule for accomplishing tasks (b) and (c) below.
 - (b) By **1 October 2002**, the Discharger shall take permanent corrective actions to eliminate sanitary sewer overflows within its collection system for wet weather events up to, and including, a 10-year, 6-hour event. Any modifications to the sewer system to eliminate sanitary sewer overflows shall not result in sewage overflow problems in other portions of the sanitary sewer system. Manhole sealing to prevent sewage overflows caused by surcharging is an interim correction, and is not considered compliance with this provision, unless adequate engineering documentation is submitted to demonstrate the manhole structure and affected area of sewer line are designed to experience pressurized conditions, that damage to the system or backups into laterals is unlikely, and exfiltration will not occur;

- (c) By **1 October 2002**, the Discharger shall complete any necessary projects to prevent overflows in the Willow Creek Corridor; and
 - (d) A technical report documenting completion of items (a), (b) and (c) shall be submitted within **30 days** following completion of each item.
3. By **1 August 2002**, the Discharger shall submit, and immediately implement, a Sewer Condition Assessment and Retrofit Plan that contains a systematic program to complete a detailed assessment of the condition of the entire sewage conveyance system within a five-year period.

At a minimum, the Plan shall consider and prioritize the following components for assessment: pipe segments with potential capacity problems, damaged pipe segments which may collapse or have deteriorated, conditions that may cause overflows, broken or missing pipe, separated pipe joints, storm drain cross connections, areas of severe inflow and infiltration, and known or suspected areas of frequent blockage. Assessment methods may include, but shall not be limited to, visual inspections, electrical/mechanical systems testing, television surveys, smoke or dye testing, and analytical testing for coliform organisms in suspect storm systems. The condition assessment must identify problem areas within the collection system and prioritize them for detailed inspection and repair or improvement.

The Plan shall present a detailed scope of work for each task of the condition assessment and the rationale for the proposed approach. However, for all sewer line segments that have a diameter of at least eight inches and are within 50 feet of surface waters (as measured from the line which defines the limit of a 10-year frequency flood), sewer line segments that are known to have overflowed to surface waters within the last five years, and sewer line segments in locations where overflows can easily reach surface waters, the condition assessment must include a visual inspection (e.g. television survey) of the entire sewer line segment.

The Plan shall include a time schedule for completing the condition assessment **by 1 April 2007**, and repairing all identified problems within two years after identification. Sewer line repair and improvements shall be prioritized based on the potential impacts to human health, surface water and groundwater quality. Manhole sealing to prevent sewage overflows caused by surcharging is an interim correction, and is not considered compliance with this provision, unless adequate engineering documentation is submitted to demonstrate the manhole structure and affected area of sewer line are designed to experience pressurized conditions, that damage to the system or backups into laterals is unlikely, and exfiltration will not occur. The schedule shall show planned commencement and completion dates for each task and subtask. All construction activities shall be completed **by 1 April 2009**.

Quarterly progress reports containing the technical information showing progress towards completion of this item shall be submitted. The quarterly progress reports shall be submitted according to the schedule provided in Waste Discharge Requirements Order No. R5-2002-0042.

4. By **1 March 2003**, the Discharger shall submit a System-Wide Hydraulic Capacity Evaluation (Evaluation). The Evaluation must (a) determine the maximum unsurcharged hydraulic capacity for each segment of sewer line having a diameter of at least eight inches, (b) identify potential bottleneck areas where flow restrictions may occur, (c) determine the peak daily dry weather and peak daily wet weather flow rates for each sewer segment, (d) identify locations susceptible to surcharging and sewer overflows in the collection system during peak wet weather flow periods, (e) evaluate regulating hydraulic loading rates from portions of the sewer system by utilizing emergency storage basins, stormwater best management practices, or other methods for flow regulation, and (f) calculate the projected increase in wet weather hydraulic loading due to growth for each of the next 10 years in each segment of sewer line having a diameter of at least eight inches.

If potential for overflow is projected for any location over the ten year period, the Evaluation shall discuss interim and long-term alternatives for correction, including correcting infiltration/inflow problems, constructing additional capacity in appropriate locations, implementing stormwater best management practices to reduce the volume of urban runoff entering the sanitary sewer, or restricting growth until the potential for overflow has been corrected. In addition, the Evaluation shall provide a schedule for implementing the alternatives before the corresponding overflow conditions are reached.

5. By **1 April 2009**, the Discharger shall achieve full compliance with Prohibition A.1. and Provision B.1. of Order No. R5-2002-0042.
6. If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may apply to the Attorney General for judicial enforcement or issue a complaint for Administrative Civil Liability.

I, GARY M. CARLTON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 1 March 2002.

GARY M. CARLTON, Executive Officer