### Spill Emergency Response Plan



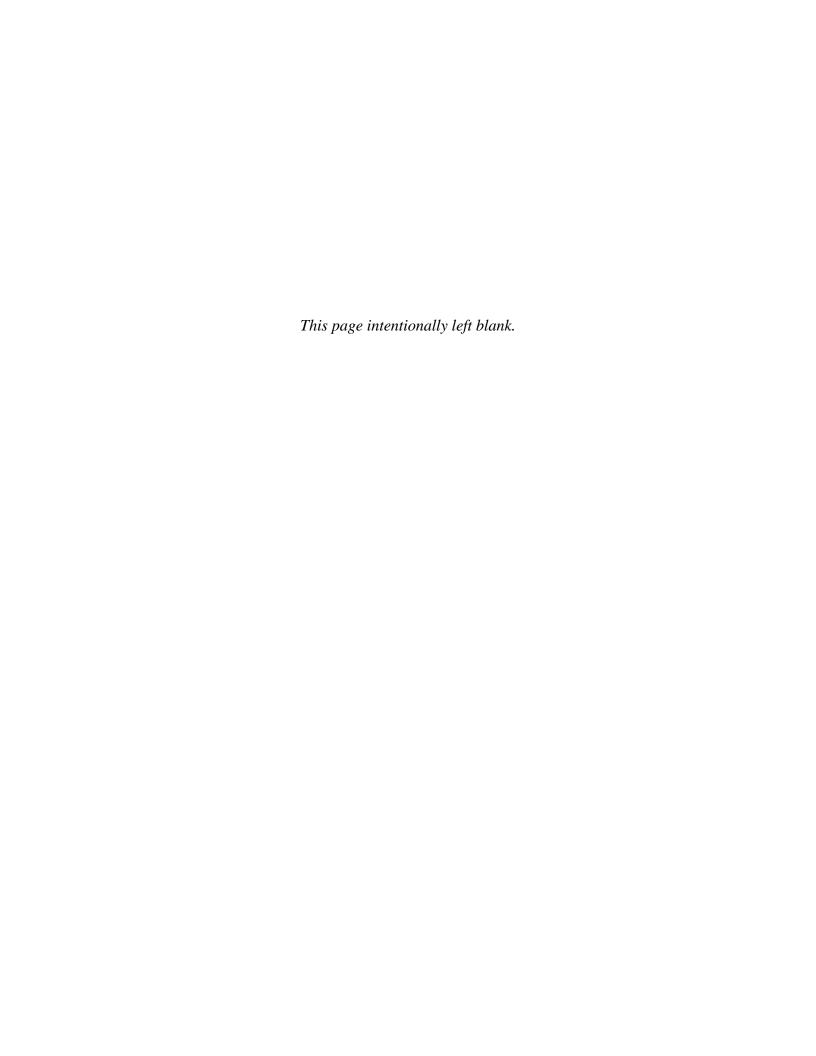
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### **Appendices**

Appendix A - Spill Response Packet

### Sanitary Sewer Spill Emergency Response Plan

(ref. State Water Resources Control Board [SWRCB] Order No. 2022-0103-DWQ, 5.12 Attachment D section 6)

### Section 1 Purpose

The purpose of the City of Dixon's (City's) Spill Emergency Response Plan (SERP) is to support an orderly and effective response to sanitary sewer spills. The SERP provides guidelines for City personnel to follow in responding to, cleaning up, and reporting spills that may occur in the City's service area. This SERP satisfies the SWRCB Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDRs), which require wastewater collection agencies to have an up to date SERP to ensure prompt detection and response to spills to reduce spill volumes and collect information for prevention of future spills.

### Section 2 Policy

The City's employees are required to report all wastewater spills found and to take the appropriate action to secure the spill area, properly report to the appropriate regulatory agencies, relieve the cause of the spill, and ensure that the affected area is cleaned as soon as possible to minimize health hazards to the public, protect beneficial uses of waters of the State and protect the environment. The City's goal is to respond to sewer system spills as soon as possible following notification. The City will follow reporting procedures regarding sewer spills as set forth by the Central Valley Regional Water Quality Control Board and State Water Resources Control Board.

### Section 3 Definitions in this Spill Emergency Response Plan

**Annual Report**: An Annual Report (previously termed as Collection System Questionnaire in Order 2006-0003-DWQ) is a mandatory report in which the Enrollee provides a calendar-year update of its efforts to prevent spills.

California Integrated Water Quality System (CIWQS): CIWQS is the statewide database that provides for mandatory electronic reporting as required in State and Regional Water Board-issued waste discharge requirements.

**Beneficial uses:** The term "Beneficial Uses" is a Water Code term, defined as the uses of the waters of the State that may be protected against water quality degradation. Examples of beneficial uses include but are not limited to, municipal, domestic, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

**Drainage Conveyance System:** A drainage conveyance system is a publicly- or privately-owned separate storm sewer system, including but not limited to drainage canals, channels, pipelines, pump stations, detention basins, infiltration basins/facilities, or other facilities constructed to transport stormwater and non-stormwater flows.

**Enrollee:** An Enrollee is a public, private, or other non-governmental entity that has obtained approval for regulatory coverage under this General Order, including:

- A state agency, municipality, special district, or other public entity that owns and/or operates one or more sanitary sewer systems:
  - o greater than one (1) mile in length (each individual sanitary sewer system)
  - one mile or less in length where the State Water Resources Control Board or a Regional Water Quality Control Board requires regulatory coverage under this Order, or
- A federal agency, private company, or other non-governmental entity that owns and/or
  operates a sanitary sewer system of any size where the State Water Resources Control
  Board or a Regional Water Quality Control Board requires regulatory coverage under this
  Order in response to a history of spills, proximity to surface water, or other factors
  supporting regulatory coverage.

**Exfiltration**: Exfiltration is the underground exiting of sewage from a sanitary sewer system through cracks, offset or separated joints, or failed infrastructure due to corrosion or other factors.

**FROG – Fats, Roots, Oils, and Grease:** Fats, roots, oils, and grease (FROG) are typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system.

Tree root invasion (R) presents an additional problem. If a mat of root hair forms in the sewer line, it slows the flow of wastewater and exacerbates the rate of accumulation of FROG materials.

General Order (Order): To provide a consistent, statewide regulatory approach to address sanitary sewer spills, the State Water Board adopted Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2022-0103-DWQ (Sanitary Sewer Systems General Order) on December 6, 2022. The Sanitary Sewer Systems General Order requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans and report all sanitary sewer spills to the State Water Board's online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database.

Lateral (including Lower and Upper Lateral): A lateral is an underground segment of smaller diameter pipe that transports sewage from a customer's building or property (residential, commercial, or industrial) to the Enrollee's main sewer line in a street or easement. Upper and lower lateral boundary definitions are subject to local jurisdictional codes and ordinances, or private system ownership.

A lower lateral is the portion of the lateral located between the sanitary sewer system main, and either the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations.

An upper lateral is the portion of the lateral from the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations, to the building or property.

**Legally Responsible Official (LRO):** A Legally Responsible Official is an official representative, designated by the Enrollee, with authority to sign and certify submitted information and documents required by this General Order.

**Mainline Sewer:** The city wastewater sanitary sewer collection system piping that is not a private lateral connection to a user.

**Maintenance Hole or Manhole:** An engineered structure that is intended to provide access to a sanitary sewer for maintenance and inspection.

**Nuisance:** For the purpose of this General Order, a nuisance, as defined in Water Code section 13050(m), is anything that meets all of the following requirements:

- Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and
- Occurs during, or as a result of, the treatment or disposal of waste.

**Potential to Discharge, Potential Discharge:** Potential to Discharge, or Potential Discharge, means any exiting of sewage from a sanitary sewer system which can reasonably be expected to discharge into a water of the State based on the size of the sewage spill, proximity to a drainage conveyance system, and the nature of the surrounding environment.

**Private Sanitary Sewer System:** A private sanitary sewer system is a sanitary sewer system of any size that is owned and/or operated by a private individual, company, corporation, or organization. A private sanitary sewer system may or may not connect into a publicly owned sanitary sewer system.

**Private Lateral Sewage Discharges (PLSD):** Sewage discharges that are caused by blockages or other problems within a privately owned lateral. In accordance with Dixon Municipal Code, Section 14.01 "Sewers", laterals are privately owned and not the responsibility of the city.

**Private Sewer Lateral:** A private sewer lateral is the privately-owned lateral that transports sewage from private property(ies) into a sanitary sewer system.

**Receiving Water:** Receiving water is a water of the State that receives a discharge of waste.

**Sanitary Sewer System:** A sanitary sewer system is a system that is designed to convey sewage, including but not limited to, pipes, manholes, pump stations, siphons, wet wells, diversion structures and/or other pertinent infrastructure, upstream of a wastewater treatment plant headworks, including:

- Laterals owned and/or operated by the Enrollee;
- Satellite sewer systems; and/or
- Temporary conveyance and storage facilities, including but not limited to temporary piping, vaults, construction trenches, wet wells, impoundments, tanks, and diversion structures.

For the purpose of this Order, sanitary sewer systems include only systems owned and/or operated by the Enrollee.

**Satellite Sewer System:** A satellite sewer system is a portion of a sanitary sewer system owned or operated by a different owner than the owner of the downstream wastewater treatment facility ultimately treating the sewage.

**Sensitive Area:** Areas where a spill could result in a fish kill or pose an imminent or substantial danger to human health (e.g., parks, aquatic habitats)

**Sewage:** Sewage, and its associated wastewater, is untreated or partially treated domestic, municipal, commercial and/or industrial waste (including sewage sludge), and any mixture of these

wastes with inflow or infiltration of stormwater or groundwater, conveyed in a sanitary sewer system.

**Sewer Service Lateral:** The piping that conveys sewage from the building to the City's wastewater collection system. In accordance with Dixon Municipal Code, Section 14.01, laterals are privately owned and not the responsibility of the City.

**Sewer System Management Plan:** A sewer system management plan is a living document an Enrollee develops and implements to effectively manage its sanitary sewer system(s) in accordance with this General Order.

**Spill:** A spill is a discharge of sewage from any portion of a sanitary sewer system due to a sanitary sewer system overflow (SSO), operational failure, and/or infrastructure failure. Exfiltration of sewage is not considered to be a spill under this General Order if the exfiltrated sewage remains in the subsurface and does not reach a surface water of the State.

**Training:** Training is in-house or external education and guidance needed that provides the knowledge, skills, and abilities to comply with this General Order.

**Untreated or Partially Treated Wastewater:** Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.

Wash Down Water: Wash down water is water used to clean a spill area.

**Waste:** Waste, as defined in Water Code section 13050(d), includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

Waters of the State: Waters of the State are surface waters or groundwater within boundaries of the state as defined in Water Code section 13050(e), in which the State and Regional Water Boards have authority to protect beneficial uses. Waters of the State include, but are not limited to, groundwater aquifers, surface waters, saline waters, natural washes and pools, wetlands, sloughs, and estuaries, regardless of flow or whether water exists during dry conditions. Waters of the State include waters of the United States.

**Waters of the United State:** Waters of the United States are surface waters or waterbodies that are subject to federal jurisdiction in accordance with the Clean Water Act.

Note: Wastewater backups into buildings or public rights-of-way caused by a blockage or other malfunction of a building lateral are not spills.

### **Spill Categories**

Categories	Definitions
Category 1	A Category 1 spill is a spill of any volume of sewage from or caused by a sanitary sewer system regulated under this General Order that results in a discharge to:
	A surface water, including a surface water body that contains no flow or volume of water; or
	<ul> <li>A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.</li> </ul>
	Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility.
	A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill; the Enrollee shall report all Category 1 spills per section 3.1 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of this General Order.
Category 2	A Category 2 spill is a spill of 1,000 gallons or greater, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.
	A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system, is a Category 2 spill.
Category 3	A Category 3 spill is a spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.  A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.
Category 4	A Category 4 spill is a spill of less than 50 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.
	A spill of less than 50 gallons that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill.
PLSD	Within 24 hours of becoming aware of a spill (as described below) from a private sewer lateral or private sanitary sewer system that is not owned/operated by the Enrollee, the Enrollee is encouraged to report the following observations to the online CIWQS Sanitary Sewer System Database at the following link:
	<ul> <li>https://ciwqs.waterboards.ca.gov:</li> <li>A spill equal or greater than 1,000 gallons that discharges (or has a potential to discharge) to a water of the State, or a drainage conveyance system that discharges to waters of the State; or</li> </ul>
	<ul> <li>Any volume of sewage that discharges (or has a potential to discharge) to surface waters.</li> </ul>
	In the CIWQS module, the Enrollee is encouraged to identify:
	Time of observation;
	<ul> <li>Description of general spill location (for example, street name and cross street names);</li> </ul>
	Estimated volume of spill;
	<ul> <li>If known, general description of spill destination (for example, flowing into drainage channel, flowing directly into a creek, etc.); and</li> </ul>
	If known, name of private system owner/operator.
	The CIWQS database will make the name and contact information of the entity voluntarily reporting a private spill, accessible to State and Regional Water Board staff only. The CIWQS database will only make information regarding the actual spill, accessible to the public.

### Section 4 State Regulatory Requirements for Element 6, Spill Emergency Response Plan

The Sewer System Management Plan (SSMP) must include an up to date Spill Emergency Response Plan (SERP) to ensure prompt detection and response to spills to reduce spill volumes and collect information for prevention of future spills. The Spill Emergency Response Plan must include procedures to:

- Notify primary responders, appropriate local officials, and appropriate regulatory agencies of a spill in a timely manner
- Notify other potentially affected entities (for example, health agencies, water suppliers, etc.) of spills that potentially affect public health or reach waters of the State
- Comply with the notification, monitoring and reporting requirements of this General Order, State law and regulations, and applicable Regional Water Board Orders
- Ensure that appropriate staff and contractors implement the Spill Emergency Response Plan and are appropriately trained
- Address emergency system operations, traffic control and other necessary response activities
- Contain a spill and prevent/minimize discharge to waters of the State or any drainage conveyance system
- Minimize and remediate public health impacts and adverse impacts on beneficial uses of waters of the State
- Remove sewage from the drainage conveyance system
- Clean the spill area and drainage conveyance system in a manner that does not inadvertently impact beneficial uses in the receiving waters
- Implement technologies, practices, equipment, and interagency coordination to expedite spill containment and recovery
- Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event
- Conduct post-spill assessments of spill response activities
- Document and report spill events as required in this General Order
- Annually, review and assess effectiveness of the Spill Emergency Response Plan, and update the Plan as needed

The SSMP, SERP, and critical supporting documents are available to the public at www.cityofdixon.us.

### Section 5 Goals

The City's goals with respect to responding to Spills are as follows:

- Work safely
- Respond quickly to minimize the volume of the spill
- Eliminate the cause of the spill
- Prevent spills from entering the drainage conveyance system or waters of the state to the maximum extent practicable
- Contain the spill to the extent feasible
- Minimize public contact with the spill to the extent feasible
- Mitigate the impact of the spill to the extent feasible
- Fully document and meet the regulatory reporting requirements
- Evaluate the causes of failure related to spills through post-spill assessment
- Revise response procedures resulting from the debrief and failure analysis of certain spills

### Section 6 Spill Detection and Notification

Processes to notify the City of the occurrence of a spill include observation by the public, receipt of an alarm, or observation by City staff or other public employees during the normal course of their work. Also reference General Order Attachment E1 "Notification, monitoring, reporting and recordkeeping requirements" and Attachment E2 "Summary of notification, monitoring and reporting requirements".

### 6.1 Public Notification

Public observation is the most common way that the City is notified of spills. Contact numbers and information for reporting sewer spills and backups are in the phone book and on the City's website: www.cityofdixon.us.

The City's telephone number for reporting sewer problems during:

- business hours (707) 678-7030
- non-business hours (707) 676-3156

### **Business Hours**

When a report of a sewer spill or backup is made during business hours, City staff receives the call, takes the information from the caller, and communicates it to the field staff.

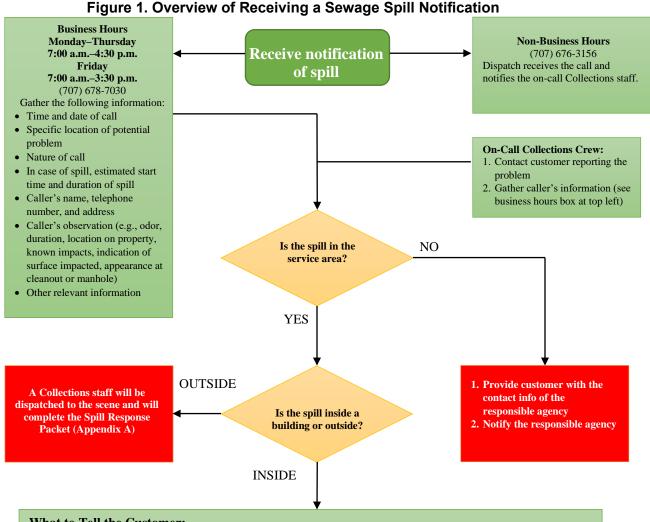
### **Non-Business Hours**

Dispatch receives the call, takes the information from the caller, contacts the on-call city staff via cell phone, and communicates the necessary information to the on-call city staff.

When calls are received, either during business hours or non-business hours, the individual receiving the call will collect the following information:

- Time and date of call
- Specific location of potential spill
- Nature of call
- In case of spill, estimated start time and duration
- Caller's name, telephone number, and address
- Caller's observations (e.g., odor, duration, location on property, known impacts, indication if surface water impacted, appearance at cleanout or manhole)
- Other relevant information

Figure 1, Overview of Receiving a Sewage Spill or Backup Notification is an overview of the notification procedure regarding spills.



### What to Tell the Customer:

Clearly communicate who will respond, the estimated time they will arrive, and what areas will need to be accessed.

- Clearly communicate that a blockage in the sewer main line will be promptly cleared but that the City is not allowed to work on a blockage within the property owner's/resident's service lateral line. Use general terms that the caller can understand and give the caller your name for future reference.
- Advise the customer to contact a plumber to immediately remedy the private spill
- Show concern and empathy for the property owner/resident but do not admit or deny liability.
- Instruct the caller to turn off any appliances that use water and to shut off any faucets inside the home.
- Instruct the caller to keep all family members and pets away from the affected area.
- Instruct the caller to place towels, rags, or blankets between areas that have been affected and areas that have not been affected.
- Instruct the caller to not remove any contaminated items *let the professionals do this*.
- Instruct the caller to turn off their heating, ventilation, and air conditioning system.
- Instruct the caller to move any **uncontaminated** property away from impacted areas.

### 6.2 City Staff Observation

City staff conducts periodic inspections of its sewer system facilities as part of their routine activities. Any problems noted with the sewer system facilities are reported to appropriate City staff who, in turn, respond to emergency situations. Work orders are issued to correct non-emergency conditions.

### 6.3 Contractor Observation

The following procedures are to be followed if a contractor causes or witnesses a spill. If the contractor causes or witnesses a spill they will:

- Immediately notify the City by calling (707) 678-7030 during business hours or (707) 676-3156 during non-business hours
- Protect the public
- Protect drainage conveyance system
- Protect waters of the state
- Provide information, such as start time, appearance point(s), suspected cause, and weather conditions, to City staff
- Direct all media and public relations requests to the City Engineer/Director of Utilities

The Contractor Orientation section includes a handout for contractors with a flowchart of the above procedures.

### 6.4 Signage

Signs will be posted, and barricades put in place to keep vehicles and pedestrians away from contact with spilled sewage. Follow County Environmental Health instructions and directions regarding placement and language of public warnings when directed. Additionally, the City Engineer will use their best judgment regarding supplemental sign placement to protect the public and local environment. Signs will not be removed until directed by County Environmental Health, City Engineer, or designee.

#### **Spill Response Procedures** Section 7

#### 7.1 **Spill Response Summary**

The City will respond to spills as soon as feasible following notification of a spill/backup or unauthorized discharge. The following Figure 2, Overview of Spill or Backup Response is an overview of the response activities.

Receive notification of spill Has the spill NO impacted private property? YES Is it possible that the spill is due to a YES failure in the Cityowned/maintained sewer lines? NO

Figure 2. Overview of Spill Response

### City Collections staff performs the following:

Follow instructions from the Spill Emergency Response Plan (Appendix E of SSMP):

- · Notify Engineering Staff or designee of the incident
- Relieve blockage and clean impacted areas
- If Category 1 spill of 1,000 gallons or greater, Cal OES
- notified within 2 hours of becoming aware of the spill
- City Engineer will be notified within 24 hours of an incident • Forward the completed Spill Response Packet (Appendix A
- of SERP) to Engineering Staff or designee
- Engineering Staff or designee: Perform required regulatory reporting in accordance with the Regulatory Notifications Packet (Appendix A of SERP)

### City Collections staff performs the following:

Follow instructions from the Spill Emergency Response Plan (Appendix E of SSMP):

- · Notify Engineering Staff or designee of the incident
- Relieve blockage and clean impacted areas
- If Category 1 spill of 1,000 gallons or greater, Cal OES notified within 2 hours of becoming aware of the spill
- City Engineer will be notified within 24 hours of an incident
- Provide the customer with the Customer Service Packet
- Forward the completed Customer Service Packet to Engineering Staff or designee
- Engineering Staff or designee: Perform required regulatory reporting in accordance with the Regulatory Notifications Packet (Appendix A of SERP)
- · Engineering Staff to coordinate with Risk Management

### City staff performs the following:

Follow the instructions on the Spill Response Packet (SERP Appendix E):

### If customer is <u>not</u> home:

• Complete door hanger and leave on customer's door (in Spill Response Packet Appendix A)

### If customer is home:

- Explain to customer that the blockage is within their lateral and that the City does not have legal authority to maintain or perform work on privately owned laterals
- Recommend that the customer hire a contractor to clear their line
- Give customer the Sewer Spill Reference Guide pamphlet (in Spill Response Packet Appendix A)

### 7.2 First Responder Priorities

The following are the first responder's priorities:

- Follow safe work practices
- Respond promptly with the appropriate and necessary equipment
- Contain the spill wherever feasible
- Protect drainage conveyance system and waters of the State
- Restore flow as soon as practicable
- Minimize public access to and/or contact with the spilled sewage
- Promptly notify the City Engineer in the event of a major spill
- Return the spilled sewage to the sewer system
- Restore the area to its original condition (or as close as possible)
- Photograph and document areas affected and unaffected by the spill

### 7.3 Safety

The first responder is responsible for following safety procedures at all times. Special safety precautions are necessary when performing sewer work. There may be times when City personnel responding to a sewer system event are not familiar with potential safety hazards particular to sewer work. In such cases, it is appropriate to take the time to discuss safety issues, consider the order of work, and check safety equipment before starting the job. This includes use of gas monitoring detectors for air quality in manholes and traffic controls on the site.

### 7.4 Initial Response

The first responder must respond to the reporting party/problem site and visually check for potential sewer stoppages or spills.

The first responder will perform the following tasks:

- Note arrival time at the site of the spill
- Document site conditions upon arrival
- Verify the existence of a public sewer system spill
- Determine if the spill or blockage is from a public or private sewer
- Identify and assess the affected area and extent of the spill
- Contact caller if time permits
- Document conditions upon arrival with photographs
- Decide whether to proceed with clearing the blockage to restore the flow or initiate containment measures. Guidance for this decision is as follows:
  - Small spills (i.e., spills that are easily contained) proceed with clearing the blockage

- Moderate or large spill where containment is anticipated to be simple proceed with the containment measures
- Moderate or large spills where containment may be difficult proceed with clearing the blockage; however, whenever deemed necessary, call for additional assistance and implement containment measures
- Take steps to contain the spill.

For detailed procedures refer to Appendix A, Spill Response Packet.

### 7.5 Initiate Spill Containment Measures

The first responder will attempt to contain as much of the spilled sewage as possible using the following steps:

- Determine the immediate destination of the spill
- Plug storm drains using air plugs, sandbags, and/or plastic mats to contain the spill, whenever appropriate. If spilled sewage has contacted the drainage conveyance system, attempt to contain the spilled sewage by plugging downstream storm drainage facilities.
- Contain/direct the spilled sewage using dike/dam or sandbags.
- Pump around the blockage/pipe failure.

For detailed procedures, refer to Appendix A.

### 7.6 Restore Flow

Using the appropriate cleaning equipment, set up downstream of the blockage and hydro-clean upstream from a clear manhole. Attempt to remove the blockage from the system and observe the flows to ensure that the blockage does not reoccur downstream. If the blockage cannot be cleared within a reasonable time from arrival or if the sewer requires construction repairs to restore flow, then initiate containment and/or bypass pumping. If assistance is required, immediately contact other employees, contractors, and equipment suppliers. For detailed procedures, refer to Appendix A.

### 7.7 Equipment

This section provides a list of specialized equipment and technology that is required to support this SERP. Standard operating procedures are stored with the equipment.

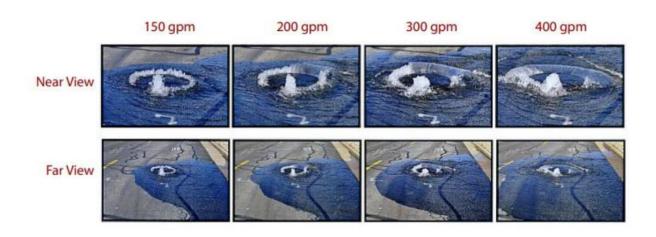
- **CCTV Inspection Unit** A CCTV Inspection Unit is required to determine the root cause for all spills from gravity sewers.
- **Camera –** A digital camera and/or cell phone is required to record the conditions upon arrival, during cleanup, and upon departure.
- **Emergency response trucks** A utility body pickup truck or open bed is required to store and transport the equipment needed to effectively respond to sewer emergencies. The equipment and tools will include containment and cleanup materials.

- Portable generators, portable pumps, piping, and hoses This equipment will be used to bypass pump, divert, or power equipment to mitigate a spill.
- **Combination sewer cleaning trucks –** Combination high-velocity sewer cleaning trucks with vacuum tanks are required to clear blockages in gravity sewers, vacuum spilled sewage, and wash down the impacted area following the spill event.
- · Air plugs, sandbags, and plastic mats
- Spill sampling kits
- Portable lights

### 7.8 Spill Volume Estimate

Use the methods outlined in the Spill Response Packet (Appendix A) or below guide to estimate the volume of the spilled sewage. Wherever possible, document the estimate using photographs and/or video of the spill site before and during the recovery operation.

# Spill Volume Estimate Guide 5 gpm 25 gpm 50 gpm 100 gpm Near View Far View



### Section 8 Recovery and Cleanup

### 8.1 Recovery of Spilled Sewage

Vacuum and/or pump the spilled sewage and rinse water and discharge it back into the sanitary sewer system.

### 8.2 Cleanup and Disinfection

Cleanup and disinfection procedures will be implemented to reduce the potential for human health issues and adverse environmental impacts that are associated with a spill event. The procedures described are for dry weather conditions and will be modified as required for wet weather conditions. Where cleanup is beyond the capabilities of City staff, a cleanup contractor will be used.

### **Private Property**

City staff are responsible for cleanup when property damage is minor in nature and is outside private building dwellings, such as front, side, and backyards and easements. Private property cleanup will only occur if it has been determined that the source of the blockage is within the City main. In all other cases, affected property owners can call a water damage restoration contractor to complete the cleanup and restoration. If the spill into property is the definite cause of City system failure, the property owner can call a water damage restoration contractor to complete the cleanup and restoration. In all cases, City claim forms may be issued if requested by the property owners.

### Hard Surface Areas

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water and non-toxic biodegradable surface disinfectant until the water runs clear. The flushing volume will be at least three times the estimated volume of the spill. Take reasonable steps to contain and vacuum the wastewater. Allow area to dry. Repeat the process if additional cleaning is required.

### **Landscaped and Unimproved Natural Vegetation**

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Either contain or vacuum the wash water so that none is released. Allow the area to dry. Repeat the process if additional cleaning is required.

### **Natural Waterways**

The California Department of Fish and Wildlife will be notified by the California Governor's Office of Emergency Services for spills greater than or equal to 1,000 gallons.

### **Wet Weather Modifications**

Omit flushing and sampling during heavy storm events (i.e., sheet of rainwater across paved surfaces) with heavy runoff where flushing is not required, and sampling will not provide meaningful results.

### Section 9 Water Quality

The City does not have naturally occurring surface waters that a spill could drain to. In the City, the drainage conveyance system discharges to both private and city-maintained stormwater retention and detention ponds.

### Section 10 Notification, Reporting, Monitoring, and Recordkeeping Requirements

In accordance with the General Order, the City maintains records for each spill. Records include the following:

- Spill event complaint, including but not limited to records documenting how the Enrollee responded to notifications of spills. Each complaint record must, at a minimum, include the following information:
  - o Date, time, and method of notification,
  - o Date and time the complainant first noticed the spill, if available,
  - Narrative description of the complaint, including any information the caller provided regarding whether the spill has reached surface waters or a drainage conveyance system, if available
  - o Complainant's contact information, if available,
  - o Final resolution of the complaint
- Records documenting the steps and/or remedial action(s) undertaken by the Enrollee, using all
  available information, to comply with this General Order, and previous General Order 20060003-DWQ as applicable
- Records documenting how estimate(s) of volume(s) and, if applicable, volume(s) of spill recovered were calculated
- All California Office of Emergency Services notification records, as applicable; and
- Records, in accordance with the Monitoring Requirements in General Order Attachment E1.

### 10.1 Regulatory Required Notification, Monitoring, and Reporting

Refer to General Order Attachment E1 "Notification, monitoring, reporting and recordkeeping requirements". The following tables summarize the requirements.

### **Category 1 Spills**

Spill	Due	Method	
Requirements			
Notification	Within two (2) hours of the Enrollee's knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters: Notify the California Office of	California Office of Emergency Services at: (800) 852-7550	
	Emergency Services and obtain a notification control number.	(Section 1 of Attachment E1)	
Monitoring	<ul> <li>Conduct spill-specific monitoring;</li> <li>Conduct water quality sampling of the receiving water within 18 hours of initial knowledge of spill of 50,000 gallons or greater to surface waters.</li> </ul>	(Section 2 of Attachment E1)	
Reporting	<ul> <li>Submit Draft Spill Report within three (3) business days of the Enrollee's knowledge of the spill;</li> <li>Submit Certified Spill Report within 15 calendar days of the spill end date;</li> <li>Submit Technical Report within 45 calendar days after the spill end date for a Category 1 spill in which 50,000 gallons or greater discharged to surface waters; and</li> <li>Submit Amended Spill Report within 90 calendar days after the spill end date.</li> </ul>	(Section 3.1 of Attachment E1)	

### **Category 2 Spills**

Spill Requirements	Due	Method
Notification	Within two (2) hours of the Enrollee's knowledge of a Category 2 spill of 1,000 gallons or greater, discharging or threatening to discharge to waters of the State: Notify	California Office of Emergency Services at: (800) 852-7550
	California Office of Emergency Services and obtain a notification control number.	(Section 1 of Attachment E1)
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1)
	Submit Draft Spill Report within three (3) business days of the Enrollee's knowledge of the spill;	
Reporting	Submit Certified Spill Report within 15 calendar days of the spill end date; and	(Section 3.2 of Attachment E1)
	Submit Amended Spill Report within 90 calendar days after the spill end date.	

### **Category 3 Spills**

Spill Requirements	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1)
Reporting	<ul> <li>Submit monthly Certified Spill Report to the online CIWQS         Sanitary Sewer System Database within 30 calendars days         after the end of the month in which the spills occur; and</li> <li>Submit Amended Spill Reports within 90 calendar days after         the Certified Spill Report due date.</li> </ul>	(Section 3.3 and 3.5 of Attachment E1)

### **Category 4 Spills**

Spill Requirements	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1)
Reporting	<ul> <li>If, during any calendar month, Category 4 spills occur, certify monthly, the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills into the online CIWQS Sanitary Sewer System Database, within 30 days after the end of the calendar month in which the spills occurred.</li> <li>Upload and certify a report, in an acceptable digital format, of all Category 4 spills to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occur.</li> </ul>	(Section 3.4, 3.6, 3.7 and 4.4 of Attachment E1)

If the CIWQS Online spill Database is not available, the City Engineer will notify the SWRCB by phone in accordance with the time schedules identified above. In such an event, the City will submit the appropriate reports using the CIWQS Online spill Database when the database becomes available. A copy of all documents that certify the submittal in fulfillment of this section shall be retained in the spill file.

The City always has at least one legally responsible official. Any change in the LROs, including deactivation or a change to contact information, will be submitted to the SWRCB within 30 days of the change by calling (866) 792-4977 or emailing ciwqs@waterboards.ca.gov.

### 10.2 Complaint Records

The City maintains records of all complaints received whether or not they result in spills. These complaint records include the following:

- Date, time, and method of notification
- Date and time the complainant or informant first noticed the spill or occurrence related to the call
- Narrative description describing the complaint
- A statement from the complainant or informant, if they know, of whether or not the potential spill may have reached waters of the state
- Name, address, and contact telephone number of the complainant or informant reporting the potential spill (if not reported anonymously)
- Follow-up return contact information for each complaint received (if not reported anonymously)
- Final resolution of the complaint with the original complainant
- Work service request information used to document all feasible and remedial actions taken

All service call requests are logged into an Excel spreadsheet and stored on a network drive showing caller, date, issue, and outcome. Service call requests will transition from being stored on network drive to computerized maintenance management system when the system is operational. If the call is a spill, the Spill Response Packet (Appendix A) is completed. If the call is not a spill the City Incident Report is completed. If the call is a PLSD, the PLSD form is completed (Appendix A).

All complaint records will be maintained for a minimum of 5 years whether or not they result in a spill. Spill records are kept under the direction and control of the City Engineer.

### Section 11 Post-spill Assessment

Every spill event is an opportunity to evaluate the City response and reporting procedures. Each spill event is unique with its own elements and challenges, including volume, cause, location, terrain, climate, and other parameters.

As soon as possible after Category 1 and Category 2 spill events, all participants, from the person who received the call to the last person to leave the site, will meet to review the procedures used and to discuss what worked and where improvements could be made in preventing or responding to and mitigating future spill events. The results of the debriefing will be documented and tracked to ensure the action items are completed as scheduled. The documented results are kept with spill reporting documentation.

### Section 12 Failure Analysis Investigation

The objective of the failure analysis investigation is to determine the "root cause" of the spill and to identify corrective actions needed that will reduce or eliminate future potential for the spill to recur or for other spills to occur.

The investigation will include reviewing all relevant data to determine appropriate corrective actions for the line segment. The investigation will include the following:

- Reviewing and completing the Spill Response Packet (Appendix A) and any other documents related to the incident
- Reviewing the incident timeline and other documentation regarding the incident
- Reviewing communications with the reporting party and witness
- Reviewing volume estimate, volume recovered estimate, volume estimation assumptions, and associated drawings
- Reviewing available photographs
- Interviewing staff that responded to the spill
- Reviewing past maintenance records
- Reviewing past CCTV records
- Conducting a CCTV inspection to determine the condition of all line segments immediately following the spill and reviewing the video and logs
- Reviewing any FROG-related information or results
- Posting spill debrief records
- Interviewing the public at the spill location

The product of the failure analysis investigation will be the determination of the root cause and the identification and scheduling of the corrective actions. The Collection System Failure Analysis Form (in Appendix A) will be used to document the investigation and will be stored with spill reports.

### Section 13 Spill Response Training

This section provides information on the training required to support this SERP.

### 13.1 Initial and Annual Refresher Training

All City personnel responsible for responding to, reporting, and/or mitigating a spill will receive training on the contents of this SERP. All new employees will receive training before they are placed in a position where they may have to respond. Current employees will receive annual refresher training on this plan and the procedures to be followed. The City will document all training.

Affected employees will receive annual training on the following topics by knowledgeable trainers:

- The City's SERP and SSMP
- spill volume estimation techniques
- Researching and documenting spill start times
- Impacted surface waters: response procedures
- SWRCB employee knowledge expectations
- Employee core competency evaluations on spills
- Water Quality Sampling Plan

The City will verify that annual safety training requirements are current for each employee and that employees are competent in the performance of all core competencies. This will be verified through testing, interviews, and observations. The City will address, through additional training/instruction, any identified gaps in required core competencies.

Through SWRCB Employee Knowledge Expectations training, employees will be able to answer the following:

- 1. Please briefly describe your name and job title.
- 2. Please describe for us approximately when you started in this field and how long you have worked for your agency.
- 3. Please expand on your current position, duties and role in responding in the field to any spill complaints.
- 4. Please describe your standard operating procedures used to respond/mitigate spills when they occur.
- 5. Describe any training your agency provides or sends you to for conducting spill volume estimates.
- 6. Historically, before any recent changes, can you please walk us through how you would typically receive and respond to any spill complaints in the field?

- 7. Can you tell us who is responsible for estimating spill volumes discharged? If it is you, please describe how you go about estimating the spill volume that you record on the work order/service request forms?
- 8. What other information do you collect or record other than what is written on the work order form?
- 9. We understand you may be instructed to take pictures of some sewer spills/backups into structures. Other than these spills, when else would you typically take any pictures of a spill?
- 10. Please walk us through anything else you would like to add to help us better understand how your field staff respond and mitigate spill complaints.

### 13.2 Spill Response Drills

Periodic training drills or field exercises will be held once per year to ensure that employees are up to date on these procedures, equipment is in working order, and required materials are readily available. Supervisors will keep records of training drills and field exercises. The training drills will cover scenarios typically observed during sewer related emergencies (e.g., mainline blockage, mainline failure, and lateral blockage). The results and the observations during the drills will be recorded, and action items will be tracked to ensure completion.

### 13.3 Spill Training Record Keeping

Records will be kept, by the supervisor, of all training that is provided in support of this SERP. The records for all scheduled training courses and for each spill emergency response training event will include date, time, place, content, name of trainers, and names and titles of attendees.

### 13.4 Contractors Working on City Sewer Facilities

All construction contractors working on City sewer facilities will be required to develop a project-specific SERP, provide project personnel with training regarding the content of the contractor's SERP and their role in the event of a spill, and follow the SERP in the event that they cause or observe a spill. Emergency response procedures shall be discussed at project pre-construction meetings, regular project meetings, and after any contractor involved incidents. Records of these items will be kept with the spill records.

### 13.5 Contractor Orientation

The following procedures are to be followed if you cause or witness a spill.

### Contractor causes or witnesses a spill

### Immediately Notify the City

Business hours: (707) 678-7030 After Hours: (707) 676-3156 Business hours are Monday-Thursday 8:00 a.m. to 4:30 p.m. Friday 8:00 a.m. to 3:30 p.m.

Protect the Storm Drains using mats, dikes, berms, etc.

### **Protect the Public**

If the spill is entering an area where public contact may occur, and if it is safe to do so, prevent, to the extent possible, public contact with the sewage until city staff arrive.

### **Provide Information**

Provide City staff with information about the spill such as start time, appearance point, suspected cause, weather conditions, etc.

**Direct ALL media and public relations requests to**City Engineer/Director of Utilities: (707) 678-7030

### **Spills**

### How to avoid them and what to do if you don't

A spill is a discharge of sewage from any portion of a sanitary sewer system due What?

to a sanitary sewer system overflow (SSO), operational failure, and/or

infrastructure failure.

Where? Spills usually occur through manholes, plumbing fixtures and service cleanouts.

Spills are usually caused by grease, debris, root balls, or personal hygiene

products blocking the sewer lines, or by unusually high flow volume.

### How to prevent spills

### ...when clearing plugged sewer laterals:

Why?

- Remove root balls, grease blockages and any other debris from the sewer
- If you can't prevent root balls, grease or debris from entering the sewer main, call us at (707) 678-7030, so we can work with you to remove the blockage and prevent blockages further downstream
- Use plenty of water to flush lines.

### ...when constructing or repairing sewer laterals:

- Contact the Building Department at (707) 678-7000 for a permit and lateral specifications.
- Contact the Engineering Department at 707-678-7030 for a permit if work is within the right-of-way.
- Check your work area. Make sure there is no debris left in the sewer line before you backfill.
- Avoid offset joints, which may make sewer lines vulnerable to root intrusion and grease or debris accumulation. Properly bed your joints and don't hammer tap.

If you cause or witness a spill, immediately contact:



City of Dixon

**Engineering Department** 171 South 5th Street Dixon, California 95620

www.cityofdixon.us

### Section 14 Authority

- California Health and Safety Code, Sections 5410–5416
- California Water Code, Section 13271
- California Fish and Game Code, Sections 5650–5656
- SWRCB Order No. 2022-0103-DWQ
- SWRCB Order No. 2013-0058-EXEC effective September 9, 2013

### Section 15 References

• Appendix A – Spill Response Packet

### Appendix A - Spill Response Packet

# City of Dixon: Spill Emergency Response Plan – Appendix A Spill Response Packet Table of Contents

<u>Form</u>	<u>Form Number</u>
Instructions and Chain of Custody	C-0
Spill Response Flowchart	
Private Lateral Sewage Discharge Report	
Sanitary Sewer Spill Report	
Start Time Determination Form	
Volume Estimation Forms	
Collection System Failure Analysis Report	
Door Hanger	
Pamphlet	

# City of Dixon: SERP – Appendix A Spill Response Packet Instructions and Chain of Custody

**C-0** 

### In the event of a **Sanitary Sewer Spill READ THIS FIRST**

- ☐ If this is a Category 1 Spill greater than or equal to 1,000 gallons, contact the City Engineer or his/her designee immediately to make the 2-hour notification to CalOES.
- $\Box$  Check here if fats, roots, oils, and grease (FROG) may have caused or contributed to the spill.
- □ Contact the City Engineer/Director of Utilities at (707) 678-7030 for any media requests.

Collections Staff:  □ Follow instructions on the Spill Response Flowchart (C-1).  □ Refer to the Field Guide as necessary.  □ Place completed forms in this Appendix A, complete the Chain of Custody (column to right) and forward this packet to the Engineering Department	Print Name: Initial: Date: Time:
Collections Staff:  □ Review the enclosed forms for completeness and accuracy.  □ Place completed forms in this envelope, complete the Chain of Custody record (right) and forward this packet to the Engineering Department.	Print Name:  Initial:  Date:  Time:
City Engineer/Engineering Department:  □ Review the enclosed forms.  □ Refer to □ Archive this packet and all other information regarding this spill incident according to City policy.  □ Debrief using the Collection System Failure Analysis Form.	Print Name: Initial: Date: Time:

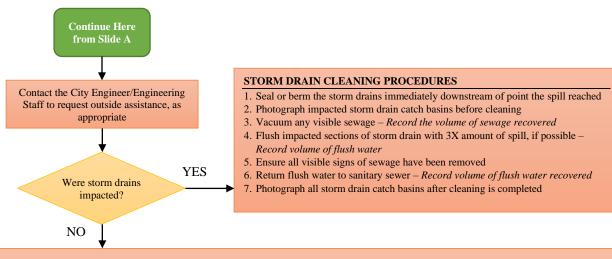
# City of Dixon: SERP – Appendix A Spill Response Packet Spill Response Flowchart

C-1 Side A

If this is a Category 1 or Category 2 SPILL greater than or equal to 1,000 gallons, **Start Here:** immediately notify the City Engineer/Director of Utilities who will, within 2 hours, notify CalOES at (800) 852-7550 BEGIN DIVERSION AND CONTAINMENT 1. Divert away from sensitive areas a. Cover unplugged storm drains with mats, or use dirt/other materials to divert sewage away from sensitive areas (e.g. schools, playgrounds, intersections, b. ENSURE PUBLIC CONTACT DOES NOT OCCUR. Use cones/barricades to isolate area. 2. Contain spill & return to system, if possible: a. Plug storm drain catch basins or use rubber mats to cover basin inlet and divert flow to catch basin b. Build/excavate a berm to channel flow to downstream sanitary sewer manhole (barricade manhole if left open) c. Use bypass pumps to pump around blockage until it can be removed d. Divert to low area of ground where it can be collected later 3. Photograph how the spill was diverted/contained, as appropriate Private Pump If it is a **POWER FAILURE**, bring in appropriate size generator to power the station Property Station Where is the spill If it is a **PUMPING FAILURE**, implement bypass pumping coming from? Manhole or Cleanout Photograph staff activities to document City actions as appropriate PRIVATE PROPERTY SPILL 1. Photograph & document all evidence that CLEAR BLOCKAGE/STOPPAGE this spill is from private property. 2. If customer is not home, complete 1. Use cleaning equipment appropriate to situation to hydroflush, rodder, or hand Customer Service door hanger. If they are rod to clear blockage. Make certain to home, provide them with the pamphlet -"Sewer Spill Reference Guide." either have the vacuum truck setup at downstream manhole or use a fork/trap at 3. Complete the Private Lateral Sewage Discharge Report. the manhole outlet to catch any debris 4. If tenant or property owner is unable or released. If using the rodder, first setup dry Go to Side B unwilling to address the cause of the spill, manhole and run upstream to blockage. Once blockage is broken, pull out rods and immediately contact the Engineering cleaning tools. Leaving rods in the line Department and discuss whether Code Enforcement, the County Department of could restrict flow. Once flow is normal, Environmental Health or Regional Water run line to next manhole. 2. Photograph staff activities while clearing Quality Control Board should be notified. the blockage, as appropriate. End. Do not continue to Side B

## City of Dixon: SERP – Appendix A Spill Response Packet Spill Response Flowchart

C-1 Side B



### AREA CLEANUP

### 1. Assign staff to begin cleanup

NOTE: If spill was caused by a failure in a private service line, clean up impacted public areas and document staff time, equipment used & expenses incurred

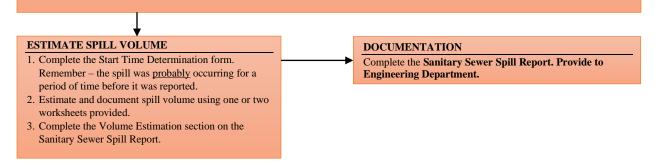
2. Remove all signs of gross pollution

(toilet paper, solids, grease, etc.)

3. Flush area with unchlorinated water – Unless raining

(3X amount of spill, if possible)

- a. Setup berm/other means to contain all chlorinated flush water so it can be returned to sewer
- b. Don't use disinfectants if they may enter storm drain system and not be fully recovered or if they may enter a water body
- 4. Photograph the area when cleanup operations are complete



#### MEDIA AND PUBLIC RELATIONS GUIDELINES:

Exercise caution in contacts with the public or media when you respond to a spill. Any information you provide or statements you make may become pertinent in the event of possible court action, it is important to **AVOID THE FOLLOWING:** 

- Giving out the wrong information including providing incorrect facts about a company or other agency
- Making accusations against customers, businesses, or other agencies
- Speculating about the situation you are responding to

Be courteous and attempt to provide accurate information to questions within the limits above. In some cases, it may be appropriate to say that we do not have any information or to delay answering a question and then to say when an answer might be available.

In most cases, refer media requests to the Engineering Department.

## City of Dixon: SERP – Appendix A Spill Response Packet Private Lateral Sewer Discharge (PLSD) Report

**C-2** 

Complete pages 5 – 10.

#### FOR OFFICE USE

Date:	Time call received:	am/pm	File Number:	
Received by:		Departme	nt:	
Caller's name:				
Cross St:				
City, State, Zip: _				
Caller's phone nu	ımber:			
Sewer call descri	ption:			
Person(s) or Crev	v(s) Dispatched:		Time:	am/pm

Spill Location Name:
Estimated Spill Volumegallons
Did the spill discharge to a drainage channel and/or surface water:
Yes or No
Did the spill reach a storm drain pipe that is not part of a combined sewer system
Yes or No
If spill reached a separate storm drain pipe, was all of the wastewater fully captured
from the separate storm drain and returned to the sanitary sewer system:
Yes or No
Estimate volume of spill recoveredgallons
Estimate volume of spill that reached surface water, drainage channel, or not
recovered from a separate storm draingallons
Latitude of spill location (only required if 10-14 are not answered)
Latitude of spill location:degminsec. orDecimal Degrees
Longitude of spill location (only required if 10-14 are not answered)
Longitude of spill location:degminsec. orDecimal Degrees
. – 14. Physical Location Details
Street Number: Street Name Suite/Apt#
City: Zip Code
Spill location description (describe in detail the location of the spill and any significant
characteristics or considerations)
characteristics of considerations/

16. Spill appearance poi	int				
☐ Inside Building or Stru	cture		☐ Gravity Mai	inline	
☐ Private Lateral Cleanou	ıt		☐ Manhole		
☐ Upper Lateral (behind)	property line)	☐ Pump Station			
☐ Lower Lateral (in City	ROW)		☐ Other (specify below)		
17. Spill appearance points selected, enter a description			•		
selected, effer a descr	iption including i	ocation (	details of each a	ippearance point)	
18. Final spill destination	n:				
☐ Inside Building or Stru	cture		☐ Storm Drain	1 Line	
☐ Unpaved Surface			☐ Drainage Channel		
☐ Paved Surface			☐ Surface War	ter	
☐ Street Curb and Gutter			☐ Other (speci	fy below)	
19. Explanation of final	spill destination:	(If "Oth	ner" is selected)		
20. Estimated spill start	date/time				
Date:	MM/DD/YYYY	Time _		_(24-hour clock format)	
21. Date and time sanita	ary sewer system	agency	was notified of	or discovered the spill	
Date:MM/DD/YYYY Time				_(24-hour clock format)	
22. Estimated Operator	arrival date/time	9			
Date:	MM/DD/YYYY	Time _		_(24-hour clock format)	

### 23. Estimated spill end date/time Date: \_\_\_\_\_\_MM/DD/YYYY Time \_\_\_\_\_\_(24-hour clock format) 24. Spill cause: ☐ ARV/BOV Failure ☐ Natural Disaster ☐ Debris from Construction ☐ Operator Error ☐ Construction Diversion Failure ☐ Pipe Structural Problem/Fail ☐ Pipe Structural Installation ☐ Collection System (CC) Maintenance Caused Spill/Damage Problem/Fail ☐ Damage by Others Not Related to CS ☐ Pump Station Failure-Controls Construction ☐ Pump Station Failure-Mechanical ☐ Debris-General ☐ Pump Station Failure-Power ☐ Debris-Rags ☐ Rainfall Exceeded Design, I and I ☐ Flow Exceeded Capacity ☐ Root Intrusion ☐ Grease Deposition (Fog) ☐ Vandalism ☐ Inappropriate Discharge ☐ Other (Specify Below) **25. Spill Cause Explanation** (If "Other" is selected):

26. PLSD Source:				
☐ Single Family Home	☐ Industrial Property			
☐ Multi-Family Home (4 or less units)	☐ Commercial Property (office, retail)			
☐ Food Service Establishment (FSE)	☐ Public quasi-public institutions			
☐ High Density Residential (5 or more)	(hospital, school, fire dept, etc.)			
☐ Mixed Use Property	☐ Other (Specify Below)			
27. Explanation of PLSD Source (If "Other" is se	lected):			
28. Where did failure occur:				
☐ Air Relief Valve (ARV)/ Blow-Off				
Valve (BOV)				
☐ Upper Lateral (behind property line)				
☐ Lower Lateral (in City ROW)				
☐ Gravity Mainline				
□ Manhole				
☐ Pump Station-Controls				
☐ Pump Station-Mechanical				
□ Pump Station-Power				
□ Siphon				
☐ Other (specify below)				

29. Explanation of where the failure occurred (If "Other" is selected):
30. Diameter of sewer pipe at the point of blockage or failure (if applicable): inches
31. Material of sewer pipe at the point of blockage or failure (if applicable):
32. Estimated age of sewer asset at the point of blockage or failure (if applicable): yrs
33. Spill response activities
□ Cleaned-Up
☐ Mitigated Effects of Spill
☐ Contained All or Portions of Spill
□ Restored Flow
□ Returned All Spill to Sanitary Sewer System
□ Other (Specify Below)
34. Explanation of spill response activities (If "Other" is selected):

# City of Dixon: SERP – Appendix A Spill Response Packet Sanitary Sewer Spill Report

	INSTRUCTIONS: Complete all items <u>EXC</u>	E <u>EPT</u> those that are shaded gra	ay
Spill Category (chec	k one):		
☐ Category 1:	A Category 1 spill is a spill of any volume of sewage from Order that results in a discharge to:	n or caused by a sanitary sewer	system regulated under this Genera
	A surface water, including a surface water body t	that contains no flow or volume	e of water; or
	A drainage conveyance system that discharges to the sanitary sewer system or disposed of properly	surface waters when the sewag	
	Any spill volume not recovered from a drainage conveyance conveyance system discharges to a dedicated stormwater in	e system is considered a discharg	ge to surface water unless the drainag
☐ Category 2:	A Category 2 spill is a spill of 1,000 gallons or greater, from	<u>-</u>	r system regulated under this Coner
□ Category 2.	Order that does not discharge to a surface water. A spill of failure or blockage in the sanitary sewer system, is a Category	1,000 gallons or greater that sp	
☐ Category 3:	A Category 3 spill is a spill of equal to or greater than 50 ga	• •	ns, from or caused by a sanitary sewe
	system regulated under this General Order that does not disc and less than 1,000 gallons, that spills out of a lateral and Category 3 spill.	charge to a surface water. A spil	l of equal to or greater than 50 gallon
☐ Category 4:	A Category 4 spill is a spill of less than 50 gallons, from or of that does not discharge to a surface water. A spill of less the blockage in the sanitary sewer system is a Category 4 spill.	nan 50 gallons that spills out of	
☐ Private Lateral S	Sewage Discharge (specify):   Single Family Home   Multiple Multiple Single Sin	ti-Family Home 🗆 High Densit	ty Residential (5+ units) ☐ Food
	Service Establishment (FSE) □ Mixed Use Property □ Ind	lustrial/Commercial Property	Other:
A. SPILL LOCA	·		
Spill Location Name			
Latitude Coordinate		es:	
Street Name and Nu			
Nearest Cross Street	t: City: Spill Location Descri	Zip Code:	
County:	RIPTION (Complete Volume Estimation Worksheets an		and all formations (
	oint (check one or more):  Combined Sewer D.I. (Combined Sewer D.I.)		
	t (Private) Lateral Cleanout (Public) Inside Buildin		
	Private)   Lower Lateral (Public)   Upper Lateral (Private)	_	-
	appearance points? $\square$ No $\square$ Yes, number of appearance		
	a storm sewer, was it fully captured and returned to the Sanit	•	□ No (Category 1)
	a private lateral? ☐ Yes ☐ No If YES, name of re		(
Final Spill Destinati	ion: ☐ Building/structure ☐ Separate Storm drain ☐ Com	· · · · · · · · · · · · · · · · · · ·	rface  Unpaved surface
☐ Street/curb/gutte	ll volume in gallons:		gallons
	ched a separate storm drain that flows to a surface water bod	v: gal	Recovered: gal
Est. volume dischar		gal	Recovered: gal
	Eyeball □ Duration/Flow Rate Comparison □ Upstream		· · · · · · · · · · · · · · · · · · ·
	RRING TIME (complete Start Time Determination For		
			tion below)
Estimated Spill start		Estimated Spill start time:	
Date Spill reported		Time Spill reported to sewer	crew:
Date sewer crew arr		Time sewer crew arrived:	
Who was interviewe	ed to help determine start time?		
Estimated Spill end	date:	Estimated Spill end time:	
D. CAUSE OF SI	PILL		
	ccur? (Check all that apply):   Air Relief or Blow-Off Val	ve ☐ Force Main ☐ Gravity I	Mainline □ Siphon
	oublic) ☐ Lower Lateral (private) ☐ Manhole ☐ Pum	_	-
	public)   Upper Lateral (private) Other:		

# City of Dixon: SERP – Appendix A Spill Response Packet Sanitary Sewer Spill Report

D. CAUSE OF SPILL (continued)		
Spill cause (check all that apply): ☐ Air Relief or Blow-Off ☐ Damage by others ☐ Debris (specify): O from Const ☐ FROG (Fats, roots, oil, grease) ☐ Inappropriate Disc ☐ Pipe Structural Problem/Failure ☐ Pipe Structural F ☐ Pump Station Failure (specify): O Controls O Mecha ☐ Non - Dispersible Wipes ☐ Other (specify):	ruction O from Lateral O General O R charge   Natural Disaster  Operator Problem/Failure (Installation)  Rainfal	ags □ Flow Exceeded Capacity or Error □ Root Intrusion Il Exceeded Design
Diameter (in inches) of pipe at point of blockage/spill cau	se (if applicable):	
Sewer pipe material at point of blockage/spill cause (if app		
Estimated age of sewer asset at the point of blockage or fa		
Description of terrain surrounding point of blockage/spill	cause: ☐ Flat ☐ Mixed ☐ Steep	
E. SPILL RESPONSE  Spill response activities (check all that apply): □ Clean □ Restored Flow □ Returned All Spill to Sanitary Sewe □ Property Owner Notified □ Other Enforcement Agen	er System  Returned Portion of Spill	to Sanitary Sewer System
Spill response completed (date & time):		
Were health warnings posted? ☐ Yes ☐ No If yes, pr	rovide health warning/beach closure post	ting/details:
Recommended corrective actions: (check all that apply ar Add sewer to preventive maintenance program Adjust schedule/method of preventive maintenance Enforcement action against FROG source Inspect Sewer Using CCTV to Determine Cause Plan rehabilitation or replacement of sewer Repair Facilities or Replace Defect Other (specify):	nd provide detail)	
What major equipment was used in the response?		
List all agency personnel involved in the response including	ng name, title, and their role in the respo	nse:
F. NOTES		
T. NOILS		
G. NOTIFICATION DETAILS		
CalOES contacted date and time (if applicable): CalOES Control Number (if applicable):	Spoke to:	
This form prepared by: NAME:	TITLE:	DATE:
This form reviewed by: NAME:	TITLE:	DATE:

## City of Dixon: SERP – Appendix A Spill Response Packet Start Time Determination Form

Spill Start Date:			Location:		
Accurate start time determ being even one minute off not round to quarter hour ineighbors, emergency resp	can have a h	nuge impact of Start time mu	on the volume estimation.	Be as precise as p	ossible. Do
What time was the City notif	ied of the Spi	11?		$\square$ AM	$\square$ PM
Who notified the City?					
Did they indicate what time they noticed the Spill?	□ YES	□NO	If yes, what time?	$\Box$ AM	□РМ
Who at the City received the	notification?				
What time did the crew arriv of the Spill?	e at the site			□ АМ	□РМ
Who was interviewed regard they provided:	ing the start ti	ime of the Spil	ll? Include their name, contact	ct information, and	the statement
Name	Contact Info	ormation	Statement		
Describe in detail how you d	etermined the	start time for	this Spill:		
Spill Start Date:			Spill Start Time:	$\Box$ AM	□РМ
Spill End Date:			Spill End Time:		$\square$ PM
			Spill Duration:	minutes	
This form completed by:					
Name:			Signature:		
Job Title:			Date:		
			<del></del>		

## City of Dixon: SERP – Appendix A Spill Response Packet

**Volume Estimation: Eyeball Estimation Method (< 200 gal)** 

	Use this metho	od only for small spil	ls of less than 200 gallons.		
pill Date:		Location:			
STEP 1:	Position yourself so that you have	Position yourself so that you have a vantage point where you can see the entire spill.			
STEP 2:	Imagine one or more buckets or barrels of water tipped over. Depending on the size of the spill, select a bucket or barrel size as a frame of reference. It may be necessary to use more than one bucket/barrel size.				
STEP 3:	Estimate how many of each size be Column A of the row in the table reference.		•	•	
STEP 4:	Multiply the number in Column A	by the multiplier in	Column B. Enter the resul	t in Column C.	
		A	В	C	
	Size of bucket(s) or barrel(s)	How many of this size?	Multiplier	Estimated Spill Volume (gallons)	
	1 gallon water jug		x 1 gallons		
	5 gallon bucket		x 5 gallons		
	32 gallon trash can		x 32 gallons		
	55 gallon drum		x 55 gallons		
	Other: gallons		x gallons		
		Estima	ated Total Spill Volume:		
STED 5. In	rainfall a factor in the spill?   Yes [	¬ No			
	_		-tit- i- minf-119	11-	
	If yes, what volume of the observed sp			gallo	
	If yes, describe how you determined the describe how you determined the described spill volume by		-		
STEP 6: Ca		· ·	•	11	
· ]		<u>ganor</u> infall	ns = Total Estimated Spi		
Do vou boli	eve that this method has estimated the	antira spill? 🖂 Vas	- □ No		
•		•			
	MUST use additional methods to es tion. Explain why you believe this n	_	•	use additional methods to suppo	
the estimat	non. Explain why you believe this if	lethou has/has hot	estimated the entire spin.		
	heet completed by:				
Job Title:		Date:			

City of Dixon: SERP – Appendix A
Spill Response Packet
Volume Estimation: Duration and Flow Rate Comparison Method

Spill Date:	Location:				
STEP 1:	Compare the spill to reference images on next page to estimate flow rate of the current spill. Describe which reference photo(s) were used and any additional factors that influenced applying the reference photo data to the actual spill:				
	Flow Rate Based on Photo Comparison:gallons per minute (gpm)				
STEP 2:	Complete the <b>Start Time Determination Form</b> to provide a detailed description of how the start time was determined. Copy the spill Duration from the Start Time Determination Form here:				
	SPILL Duration:minutes				
STEP 3:	Multiply the flow rate by the spill duration to calculate the estimated spill volume.				
	$\frac{gpm}{Flow Rate}  X  \frac{minutes}{Spill Duration} = \frac{gallons}{Estimated Spill Volume}$				
STEP 4: I	Did the spill occur during a period of consistent flow in this portion of the system? $\square$ Yes $\square$ No If not, explain how, based on this portion of the collection system and its users, you believe it may have impacted the estimated spill volume:				
	By what percentage are you adjusting the estimation? $\square$ increase $\square$ decrease $\underline{\hspace{2cm}}$				
	Translate the percentage into gallons: gallons				
STEP 5:	Calculate the adjusted spill volume estimate:				
	gpm + or - gallons = gallons				
	Estimated Spill Volume Adjustment Estimated spill volume				
Do you bel	ieve that this method has estimated the entire spill? $\square$ Yes $\square$ No				
-	MUST use additional methods to estimate the entire spill. If yes, explain why you believe this s estimated the entire spill:				
This works	sheet completed by:				
Name:	Signature:				
Job Title:	Date:				

### City of Dixon: SERP – Appendix A

**Spill Response Packet** 

**Volume Estimation: Duration and Flow Rate Comparison Method** 

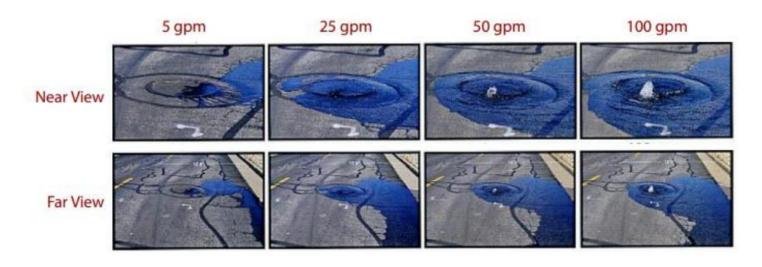
**C-5** 

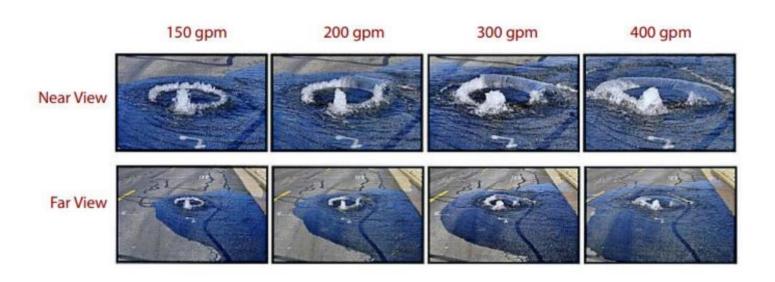
#### **IMPORTANT NOTE:**

These photographs are provided as examples only and will change with many factors.

SSCSC Manhole Overflow Gauge

CWEA Southern Section Collections Systems Committee Overflow Simulation courtesy of Eastern Municipal Water District





## City of Dixon: SERP – Appendix A Spill Response Packet Collection System Failure Analysis

**C-6** 

#### To be completed by Engineering Staff.

Incident Report #			Prepared By		
Spill Information					
Event Date/Time		Address			
Volume Spilled		Volume Recovered			
Cause		l			
Summary of Historical Spil	lls/Servic	e Calls/Other Proble	ems		
Date	Cause		Date Last Cleaned	Crew	
Records Reviewed By:			Record Review Date:		
Summary of CCTV Inform	ation				
CCTV Inspection Date			Tape Name/Number		
CCTV Tape Reviewed By			CCTV Review Date		
Observations					

## City of Dixon: SERP – Appendix A Spill Response Packet Collection System Failure Analysis

Recommendations						
Туре	Specific Actions	Who is Responsible?	Completion Deadline	Who Will Verify Completion?		
No Changes or Repairs Required	n/a	n/a	n/a	n/a		
Repair(s)						
Construction						
Capital Improvement(s)						
Change(s) to Maintenance Procedures						
Change(s) to Spill Response Procedures						
Training						
Misc.						
Comments/Notes:				·		
Review Date:						

## **City of Dixon**

**City of Dixon** 

(707) 678-7030 (707) 676-3156

**Business Hours:** 

**After Hours:** 

On (date), at (location)	On (date)	at (location)	
we responded to a reported blockage of the sanitary	On (date)	, at (location)	
sewer service to your property.	we responded to a reported blockage of the sanitary sewer service to your property.		
We discovered a blockage in:			
☐ The sanitary sewer main and cleared the line	We discovered a blockage in		
☐ The sanitary sewer lateral, which is your	☐ The sanitary sewer main		
responsibility to maintain.	☐ The sanitary sewer lateral, which is your responsibility to maintain.		
If you require assistance to clear the lateral you can			
look in the Yellow Pages of your telephone book under "Sewer Contractors" or "Plumbing Drains &	If you require assistance to clook in the Yellow Pages of	•	
Sewer Cleaning". If you plan to hire a contractor we	under "Sewer Contractors"		
recommend getting estimates from more than one company.	Sewer Cleaning". If you plan to hire a contractor we recommend getting estimates from more than one company.		
City of Dixon representative notes:			
	City of Dixon representative	notes:	
City of Dixon Representative:			
	City of Dixon Representative:		
For questions or comments, please cells			
For questions or comments, please call:			

**City of Dixon** 

For questions or comments, please call:

**City of Dixon** 

(707) 678-7030(707) 676-3156

**Business Hours:** 

**After Hours:** 

## **City of Dixon**

For questions or comments, please call:

**City of Dixon** 

(707) 678-7030

(707) 676-3156

**Business Hours:** 

**After Hours:** 

On (date), at (lo	cation)	On (date)	, at (location)
we responded to a reported blockage of the sewer service to your property.	sanitary	we responded to a reported blockage of the sanitary sewer service to your property.	
We discovered a blockage in:  ☐ The sanitary sewer main and cleared the ☐ The sanitary sewer lateral, which responsibility to maintain.		We discovered a blockage in:  ☐ The sanitary sewer main and cleared the line ☐ The sanitary sewer lateral, which is you responsibility to maintain.	
If you require assistance to clear the lateral look in the Yellow Pages of your telephorunder "Sewer Contractors" or "Plumbing Esewer Cleaning". If you plan to hire a contractor recommend getting estimates from more to company.	ne book Orains & actor we	If you require assistance to clear the lateral you can look in the Yellow Pages of your telephone book under "Sewer Contractors" or "Plumbing Drains & Sewer Cleaning". If you plan to hire a contractor we recommend getting estimates from more than one company.	
City of Dixon representative notes:		City of Dixon representati	ve notes:
City of Dixon Representative:		City of Dixon Representa	tive:

**City of Dixon** 

For questions or comments, please call:

**City of Dixon** 

(707) 678-7030

(707) 676-3156

**Business Hours:** 

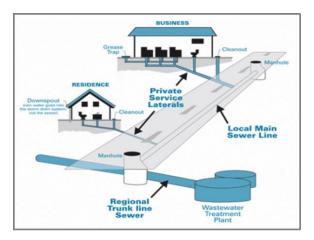
**After Hours:** 

#### How a Sewer System Works

A property owner's sewer pipes are called *service laterals* and are connected to larger local main and regional trunk lines.

Service laterals run from the connection at the home to the connection with the public sewer.

These laterals are the responsibility of the property owner and must be maintained by the property owner.



## Is my home required to have a backflow prevention device?

Section 710.1 of the Uniform Plumbing Code (U.P.C.) states: "Drainage piping serving fixtures which have flood level rims located below the elevation of the next upstream manhole cover or private sewer serving such drainage piping *shall* be protected from backflow of sewage by installing an approved type of backwater valve." The intent of Section 710.1 is to protect the building interior from mainline sewer overflows or surcharges.

Additionally, U.P.C. 710.6 states: "Backwater valves shall be located where they will be accessible for inspection and repair at all times and, unless continuously exposed, *shall* be enclosed in a masonry pit fitted with an adequately sized removable cover."

If you have a sewage spill from your private sewer line that impacts storm drains, waterways or public property, contact:

## City of Dixon Engineering and Utilities (707) 678-7030

## **Solano County Environmental Health** (707) 784-6765

California Health and Safety Code, Sections 5410-5416 requires:

- No person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution, or a nuisance.
- Any person who causes or permits a sewage discharge to any state waters:
  - Must immediately notify the local health agency of the discharge.
  - Shall reimburse the local health agency for services that protect the public's health and safety.
  - Who fails to provide the required notice to the local health agency is guilty of a misdemeanor and shall be punished by a fine (between \$500-\$1,000) and/or imprisonment for less than one year.

## Central Valley Regional Water Quality Control Board (916) 464-3291

Requires the prevention, mitigation, response to, and reporting of sewage spills.

#### RB5sSpillReporting@waterboards.ca.gov

## California Governor's Office of Emergency Services (CalOES)

(800) 852-7550

California Water Code, Article 4, Chapter 4, Sections 13268-13271 & California Code of Regulations, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260 require:

- Any person who causes or permits sewage in excess of 1,000 gallons to be discharged to state waters shall immediately notify the Office of Emergency Services.
- Any person who fails to provide the notice required by this section is guilty of a misdemeanor and shall be punished by a fine (less than \$20,000) and/ or imprisonment for not more than one year.

## Sewer Spill Reference Guide

### Your Responsibilities as a Private Property Owner

Provided to you by:

City of Dixon
Engineering and Utilities

600 East A Street Dixon, CA 95620 (707) 678-7030

#### How do sewage spills happen?

Sewage spills occur when the wastewater in underground pipes overflows through a manhole, cleanout, or broken pipe. Most spills are relatively small and can be stopped and cleaned up quickly, but left unattended they can cause health hazards, damage to homes and businesses, and threaten the environment, local waterways, and beaches.

#### CAUTION!

When trying to locate a sewer problem, <u>never</u> open manholes or other public sewer structures. Only our crews are allowed to open & inspect these structures.

#### Common causes of sewage spills

- Grease build-up
- Tree roots
- Broken/cracked pipes
- Missing or broken cleanout caps
- Undersized sewers
- Groundwater/rainwater entering the sewer system through pipe defects and illegal connections

## Prevent most sewage backups with a Backflow Prevention Device

This type of device can help prevent sewage backups into homes and businesses. If you don't already have a Backflow Prevention Device, contact a professional plumber or contractor to install one as soon as possible.

#### **Protect the environment!**

If you let sewage from your property discharge to a gutter or storm drain, you may be subject to penalties and/ or out of-pocket costs for clean-up and enforcement efforts. A property owner may be charged for costs incurred by agencies responding to spills from private properties.

#### What to look for:

Sewage spills can be a very noticeable gushing of water from a manhole or a slow water leak that may take time to be noticed. Don't dismiss unaccounted-for wet areas. Look for:

- Drain backups inside the building.
- Wet ground and/ or water leaking around manhole lids onto your street.
- Leaking water from cleanouts or outside drains
- Unusual odorous wet areas: sidewalks, external walls, ground/landscape around a building.

The following are indicators of a possible obstruction in your sewer line:

- Water comes up in floor drains, showers or toilets.
- Toilets, shower s or floor drains below ground level drain very slowly.

#### What to do if there is a spill:

Immediately notify the City of Dixon. Our crews locate the blockage and determine if it is in the public sewer; if it is the crew removes the blockage and arranges for cleanup.

If the backup is in y our private internal plumbing or in the private service laterals, <u>you are required to immediately</u>:

- Control and minimize the spill by shutting off or not using the water.
- Keep sewage out of the storm drain system using sandbags, dirt and/ or plastic sheeting.
- Call a plumbing professional to clear blockages and make repairs as needed. Look in the yellow pages under "Plumbing Drain & Sewer Cleaning" or "Sewer Contractors."
- Always notify your sewer/ public works department or public sewer district of sewage spills.

#### Spill cleanup inside the home:

For large clean ups, a professional cleaning firm should be contacted to clean up impacted areas, You can locate local firms by looking in the Yellow Pages under "Water Damage" or "Fire Damage." If you hire a contractor, it is recommended to get estimates from more than one company. Sometimes, homeowner's insurance will pay for the necessary cleaning due to sewer backups. Not all policies have this coverage, so check with your agent. If you decide to clean up a small spill inside your home, protect yourself from contamination by observing the following safety measures. Those persons whose resistance to infection is compromised should not attempt this type of clean up.

#### Other Tips:

- Keep children and pets out of the affected area until cleanup has been completed.
- Turn off heating/air conditioning systems.
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area.
- Discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.).
- Remove and dis card drywall and insula ion that has been contaminated with sewage or flood waters.
- Thoroughly clean all hard surfaces (such as flooring, concrete, molding, wood and metal furniture,

- countertops, appliances, s inks and other plumbing fixtures) with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing cleanup, wash your hands with soap and water. Use water that has been boiled for 1 minute (allow the water to cool before washing your hands) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it sit and for 30 min. If water is cloudy, use ½ teaspoon of household b leach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.
- Seek immediate attention if you become injured or ill.

#### Spill cleanup outside the home:

- Keep children and pets out of the affected area until cleanup has been completed.
- Wear rubber boots, rubber gloves, and goggles during cleanup of affected area.
- Clean up sewage solid s (fecal material) and p lace in properly functioning toilet or double bag and place in garbage container.
- On hard surfaces areas such as asphalt or concrete, it is safe to use a 2% bleach solutions, or ½ cup of bleach to 5 gallons of water, but don't allow it to reach a storm drain as the bleach can harm the environment.
- After cleanup, wash hands with soap and water. Use water that has been boiled for 1 minute (allow to cool before washing your hands) OR use w ater that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 3 0 min. If water is cloudy, use 1/4 teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.

Seek immediate attention if you become injured/ill.