



Spill - General Information ?

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Spill Event ID:	855111	Regional Water Board:	Region 2 - San Francisco Bay
Spill Location Name:	16 Broadmoor, San Anselmo	Agency:	Sanitary District #1 of Marin
WDID:	2SSO10172	Sanitary Sewer System:	San Dist #1 of Marin CS

[General Info](#) [Spill Related Parties](#) [Attachments](#)

Spill - General Information, Screen 2

Certified by Stephen Miksis (Operations and Maintenance Manager) on 02/19/2019 (Originally Certified on 01/08/2019) at 17:38
(Certification ID 777226)

Amend

You have minutes to save your report before your session expires.

Note: Questions with "*" are required to be answered for 'Save Work in Progress'.

Questions with "*" are required to be answered for 'Submit Draft'.

Questions with "*" are required to be answered for 'Ready to Certify'.

Initial Draft Submitted On: 01/08/2019

Original Certified On: 01/08/2019

Last Updated By: [Stephen Miksis](#)

1 - Spill Type: Category 1

Version: 4.1

***2 - Estimate Spill Volumes**

a) Estimated spill volume that reached a separate storm drain that flows to a surface water body? gallons

b) Estimated spill volume recovered from the separate storm drain that flows to a surface water body? (Do not include water used for clean-up) gallons

c) Estimated spill volume that directly reached a drainage channel that flows to a surface water body? gallons

d) Estimated spill volume recovered from a drainage channel that flows to a surface water body? gallons

e) Estimated spill volume discharged directly to a surface water body? gallons

f) Estimated spill volume recovered from surface water body? gallons

g) Estimated spill volume discharged to land? (Includes discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location. Also, includes backups to building structures) gallons

h) Estimated spill volume recovered from the discharge to land? (Do not include water used for clean-up) gallons

Estimated Total spill volume to Reach Surface Water (a-b+c+e)	Estimated Total spill volume to Reach Land (g)	Estimated Total spill volume Recovered (b+d+f+h)	Estimated Total spill volume (a+c+e+g)
<input type="text" value="125022.0"/>	<input type="text" value="100720.0"/>	<input type="text" value="100700.0"/>	<input type="text" value="225742.0"/>

Responses to questions 3, 4, and 5 are automatically generated based on the volumes inputted in question 2.

*3 - Did the spill discharge to a drainage channel and/or surface water?

*4 - Did the spill reach a storm drainpipe that is not part of a combined sewer system?

*5 - If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?

Physical Location Details

*6 - Spill location name: 16 Broadmoor, San Anselmo

*7 - Latitude of spill location: [] deg. [] min. [] sec. OR 37.98648 decimal degrees [Map]

*8 - Longitude of spill location: [] deg. [] min. [] sec. OR -122.57461 decimal degrees [Map]

*9 - County: Marin

*10 - Regional Water Quality Control Board: Region 2 - San Francisco Bay

11 - Spill location description: (Use attachment if location description is more than 2000 characters) Sewage came out of a manhole that was upstream from a bypass setup for a capital improvement project. Sewage also came out of a clean out box at 21 Morningside Drive. Severe rains

Spill Details

*12 - Number Of appearance points: 2

*13 - Spill appearance point: (Hold Ctrl key to Select Multiple answers from the list) Backflow Prevention Device, Combined Sewer D.I. (Combined CS Only), Force Main, Gravity Mainline, Inside Building or Structure, Lateral Clean Out (Private), Lateral Clean Out (Public), Lower Lateral (Private), Lower Lateral (Public), Manhole, Other sewer system structure, Pump station, Upper Lateral (Private), Upper Lateral (Public)

*14 - Spill appearance point explanation: (Required if spill appearance point is "Other sewer system structure" and/or multiple appearance points are selected) Manhole at 16 Broadmoor and Christy box at 21 Morningside Drive

**15 - Final spill destination: (Hold Ctrl key to Select Multiple answers from the list) Beach, Building or Structure, Combined Storm Drain (Combined CS only), Drainage Channel, Other (specify below), Paved Surface, Separate Storm Drain, Street/Curb and Gutter, Surface Water, Unpaved surface

16 - Explanation of final spill destination: (Required if final spill destination is "Other") Sewage flowed along the gutter pan and entered a storm drain that was 250+ feet away

*17 - Estimated spill start date/time: 01/06/2019 12:40 Date Format: MM/DD/YYYY

*18 - Date and time sanitary sewer system agency was notified of or discovered spill: 01/06/2019 12:40 Date Format: MM/DD/YYYY

*19 - Estimated Operator arrival date/time: 01/06/2019 12:40 Date Format: MM/DD/YYYY

**20 - Estimated spill end date/time: 01/07/2019 00:09 Date Format: MM/DD/YYYY

**21 - Spill cause: Construction Diversion Failure

22 - Spill cause explanation: (Required if spill Cause is "Other") Contractor and Construction Manager were onsite working when heavy rainfall overwhelmed the bypass. Bypass pumping was inadequate for the amount of rain that entered our sewer system.

**23 - Where did failure occur? Gravity Mainline

24 - Explanation of Where Failure Occurred:
(Required if Where Failure Occurred is "Other")

**25 - Was this spill associated with a storm event?

26 - Diameter of sewer pipe at the point of blockage or failure:

 inches

27 - Material of sewer pipe at the point of blockage or failure:

28 - Estimated age of sewer asset at the point of blockage or failure: (Years)

** 29 - Spill response activities:

(Hold Ctrl key to Select Multiple answers from the list)

- Cleaned-Up
- Mitigated Effects of Spill
- Contained all or portion of spill
- Other (specify below)
- Restored flow
- Returned All Spill to Sanitary Sewer System
- Returned Portion of Spill to Sanitary Sewer System
- Property Owner Notified
- Other Enforcement Agency Notified

30 - Explanation of spill response activities:

(Required if spill response activities is "Other", use attachment if the text is more than 1700 characters)

Several vacuum trucks and pumper trucks were vacuuming the sewage from the manhole and the roadway. We are still calculating what the recovered amount was.

** 31 - Spill response completion date:

 Date Format: MM/DD/YYYY

** 32 - Spill corrective action taken:

(Hold Ctrl key to Select Multiple answers from the list)

- Added sewer to preventive maintenance program
- Adjusted schedule/method of preventive maintenance
- Enforcement action against FOG source
- Inspected Sewer Using CCTV to Determine Cause
- Other (specify below)
- Plan rehabilitation or replacement of sewer
- Repaired Facilities or Replaced Defect

33 - Explanation of spill corrective action taken:

(Required if spill corrective action is "Other")

Contractor is setting up larger pumps and construction should be done in the next several weeks as weather allows.

Larger pumps were installed and the issue did not occur during the heavy rain storm.

** 34a - Is there an ongoing investigation?

34b - Reason for ongoing investigation?

The spill amount is expected to change after the videos are reviewed. The recovery amount is also expected to change.

Due to the duration of the overflow, the District is still calculating the flow. We do have an estimate for the recovery after talking to the contractor about what was evacuated from the manhole and what was recovered from the curb. We have contracted out with outside parties to assist with the final calculated estimate.

The District has two different consultants assisting the District to help refine the estimate.

35 - Visual inspection results from impacted receiving water:

Creek was almost overflowing and very brown because of the amount of rain and runoff.

**36 - Health warnings posted?

**37 - Did the spill result in a beach closure (If YES, answer questions 38)?

**38 - Name of impacted beach(es) (enter NA if None):

**39 - Name of impacted surface water(s) (enter Un-named Tributary to XXXXX where XXXXX is the name of first named downstream tributary if receiving surface water body is un-named):

**40 - Water quality samples analyzed for:

(Hold Ctrl key to Select Multiple answers from the list)

- Dissolved oxygen
- Other chemical indicator(s) - specify below
- Biological indicator(s) - specify below
- No water quality samples taken
- Not applicable to this spill
- Other (specify below)

41 - Explanation of water quality samples analyzed for:
(Required if water quality samples analyzed for is "Other chemical indicator(s)", "Biological indicator(s)", or "Other")

E. coli, Enterococcus, ammonia, and fecal coliform.

****42 - Water quality sample results reported to:**
(Hold Ctrl key to Select Multiple answers)

County Health Agency
Regional Water Quality Control Board
Other (specify below)
No water quality samples taken
Not applicable to this spill

43 - Explanation of water quality sample results reported to:
(Required if water quality sample results reported to is "Other")

Sample information will be sent to the Regional Water Quality Control Board.

Still waiting for final results. We have 2 draft reports; One from CMSA and the other from CalTest.

Have final results from CMSA and draft from Cal Test

**** 44 - Explanation of volume estimation methods used:**
(Describe how you developed spill volume estimates for this spill. If more than 1,000 characters are needed, please attach the description.)

(Flow and duration method based on flow in gutter OR Flow and duration method based on flow out of the manhole with cover removed; calculation method changed over the total duration of the spill based on available photos and videos) + (eyeball method out of cleanout B9 box with cover in place for the total duration). Detailed volume calculations will be included in the 45 day Technical Report. Please see Technical Report.

Notification Details

**** 45 - Cal OES Control Number**
(Required for Category 1 greater or equal to 1,000 gallons - see SSO Monitoring and Reporting Program Requirements):

190114

**** 46 - Cal OES Called Date/Time**
(Required for Category 1 greater or equal to 1,000 gallons - see SSO Monitoring and Reporting Program Requirements):

01/06/2019 13:43 Date Format: MM/DD/YYYY

***47(a) - Name and Title (Contact person who can answer specific questions about this SSO)**

Stephen Miksis and Katherine Hayden

***47(b) - Contact Person Phone Number**

4152592949

Amend

