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**Regional Water Board:** Region 2 - San Francisco Bay  
**Agency:** Sandia National Laboratories, California  
**Sanitary Sewer System:** Sandia National Laboratories, California CS  
**WDID:** 2SSO11605

Collection System Questionnaire

*Note: All questions are required to be answered. Enter NA or 0 for questions that do not apply.*

Last updated: 2021-02-12

First updated: 2008-03-14

**Collection System Questionnaire** [?](#)
**1) Sanitary Sewer System Category:**
 
**2) What is the population served by your agency's sanitary sewer system?**

New: 1579 personnel

**3) What is your current annual operation and maintenance budget for sanitary sewer system facilities?**

**4) What is your current annual capital expenditure budget for sanitary sewer system facilities?**


*Please identify the total number of employees (technical and mechanical) for your agency's sanitary sewer system (including pump station operations) working within the different classifications listed below.*

**5) Entry Level ( Less than 2 years experience)**

Number of agency employees?

**6) Journey Level ( Greater than or equal 2 years experience)**

Number of agency employees?

**7) Supervisory Level**

Number of agency employees?

**8) Managerial Level**

Number of agency employees?

*Please identify the total number of employees who hold CWEA Certification for Collection System Maintenance and/or Plant Maintenance-Includes Mechanical Technologist and Electrical/Instrumentation for your agency's sanitary sewer system (including pump station operations) for the various Certificates and Grades levels listed below.*

**9) Grade I**

Number of certified (Grade I Collection System Maintenance) agency employees:

Number of certified (Grade I Plant Maintenance Technologist) agency employees?

**10) Grade II**

Number of certified (Grade II Collection System Maintenance) agency employees:

Number of certified (Grade II Electrical/Instrumentation Technologist) agency employees:

Number of certified (Grade II Mechanical Technologist) agency employees:

**11) Grade III**

Number of certified (Grade III Collection System Maintenance) agency employees:

Number of certified (Grade III Electrical/Instrumentation Technologist) agency employees:

Number of certified (Grade III Mechanical Technologist) agency employees:

**12) Grade IV**

Number of certified (Grade IV Collection System Maintenance) agency employees:

Number of certified (Grade IV Electrical/Instrumentation Technologist) agency employees:

**13) OFFICE OF WATER PROGRAMS at CALIFORNIA STATE UNIVERSITY's CERTIFICATES OF COMPLETION**Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume I) agency employees: Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume II) agency employees: **14) How many miles of forced mains and other pressure systems?****15) How many miles of gravity sewers?****16) Estimated Size Distributions of Assets (note: total % must sum to 100%)**

Diameter of sewer pipe	Gravity Mainlines ( % )	Force Mains ( % )
6 inches or less	<input type="text" value="80"/>	<input type="text" value="100"/>
8 inches	<input type="text" value="20"/>	<input type="text" value="0"/>
9 - 18 inches	<input type="text" value="0"/>	<input type="text" value="0"/>
19 - 36 inches	<input type="text" value="0"/>	<input type="text" value="0"/>
> 36	<input type="text" value="0"/>	<input type="text" value="0"/>
Unknown Diameter	<input type="text" value="0"/>	<input type="text" value="0"/>
Totals	<input type="text" value="100"/>	<input type="text" value="100"/>

**17) Estimated total miles of laterals (upper and lower)?****18) Which portion of laterals is your agency responsible for?**

(If the answer of question-18 is None, answer 0 (zero) for question-19)

**19) Estimated total miles of laterals your agency is responsible for?****20) Number of service lateral connections?****21) Approximately, what percentage of your sewer system piping and Number of pump stations were constructed between the years of: (note: Gravity and Force main total % must sum to 100%)**

Age	Gravity Mainlines Force Mains ( % )	Pump Stations (*) 75k Gal/day Over (number of stations)	Pump Stations (*) Under 75k Gal/day (number of stations)
2000 - Present	<input type="text" value="81"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
1980 - 1999	<input type="text" value="15"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
1960 - 1979	<input type="text" value="4"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
1940 - 1959	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
1920 - 1939	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
1900 - 1919	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Before 1900	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Unknown Age	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Totals	<input type="text" value="100"/>	<input type="text" value="0"/>	<input type="text" value="1"/>

(\*) For pump stations, flow categories are the maximum flow rate occurring over a 24-hr period based on annual operating data (i.e., flow measurement) or calculated peak flow (e.g., # EDUs x Flow/EDU x Peaking Factor). Age is date asset was originally constructed.

**22) Estimated total miles of your sewer system not accessible for maintenance?****23) How many miles of sewer system did you clean last year(miles)?**New:3.8 **24) How many miles of sewer system did you inspect(e.g., CCTV) last year (miles)?**New:3.8 **25) Estimated Sewer System Flow Characteristics**

Average Daily Dry Weather Flow (MGD) Peak Daily Wet Weather Flow (MGD)

New: 0.016 New: 0.044 **26) Where does this Sanitary Sewer System Discharge to?**

Where it goes?

Name

WDID

WWTP other agency	▼	Livermore Water Reclamation Plant	unk.
Select ...	▼		
Select ...	▼		
Select ...	▼		

27a) Are there any tributary sanitary sewer systems?

28) How many gravity mainline aerial or under ground crossings of water bodies (i.e. gravity sewer lines crossing over water bodies) are located throughout the sewer system

29) How many force main aerial or under ground crossings of water bodies (e.g. pressurized sewer lines crossing over or under water bodies) are located throughout the sewer system?

30) How many siphons used to convey sewage are located throughout the sewer system?

*Note: All questions are required to be answered. Enter NA for questions that do not apply or unknown.*



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