

# Canada's Core Public Infrastructure Survey, 2016

## Storm Water Assets

C7A00001

This organization does not own or lease this asset.

**CONFIDENTIAL once completed.**

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant :

**This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19.**  
**COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.**

### The purpose of this survey

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes. Your information may also be used by Statistics Canada for other statistical and research purposes.

### Confidentiality

Statistics Canada is prohibited by law from releasing any information it collects which could identify any person, business, or organization, unless consent has been given by the respondent or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survey for statistical purposes.

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

**Section 11** of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Section 12** of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

### Record linkages

To enhance the data from this survey, Statistics Canada may combine it with information from other surveys or from administrative sources.

### Further Information

If you require assistance regarding this survey, please contact Statistics Canada by telephone at

Statistics Canada advises you that there could be a risk of disclosure during facsimile or e-mail. However, upon receipt, Statistics Canada will provide the guaranteed level of protection afforded to all information collected under the authority of the *Statistics Act*.

### Who should complete this questionnaire?

Canada's Core Public Infrastructure Survey should be coordinated by the organization's asset manager who will ensure that each asset specific questionnaire is completed by its respective manager.

**Please return the questionnaire within 21 days.**

**Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.**

If you are unable to complete within 21 days **OR** if you need help, call us at

Statistics Canada, Operations and Integration Division, 150 Tunney's Pasture Driveway, Ottawa, Ontario K1A 0T6

**Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)**



## Reporting instructions

- Please print in ink.
- Please report for reference year 2016.
- **Report** dollar amounts in **Canadian dollars**.
- **Exclude** sales tax.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, please provide your best estimates.

## Information for Survey Participants

**Canada's core public infrastructure** can vary within each municipality in Canada as a result of size of population, geographic location and overall economic condition. Canada's core public infrastructure survey will be measuring the following key components within the municipality: asset ownership; asset management planning; overall condition of core public asset infrastructure and overall performance of these core public assets.

**Organization** refers to municipal, regional, provincial, federal government or Indigenous entities (such as a Band council) who own a core public infrastructure.

**Own** refers to assets owned by your organization as well as assets leased by your organization through a capital lease agreement.

## Asset ownership

**Storm water assets** include the following:

**Non-linear storm water assets** include storm water drainage pump stations; storm water management facilities – storm water management ponds and storm water wetlands; and storm water management facilities – all other permitted, end-of-pipe facilities owned by your organization or leased by your organization through a capital lease agreement.

**Storm water drainage pump stations** include storm water drainage pump stations that are connected to drainage swales, ditches and storm sewers. **Exclude** combined pump stations which convey combined sewage/storm water to wastewater treatment plants.

**Storm water management facilities – Storm water management ponds and storm water wetlands:** includes engineered end-of-pipe facilities that have received a permit or approval to operate and which may provide peak flow control, runoff quality control, runoff control for downstream erosion, runoff volume control, etc. Includes dry ponds, wet ponds, and storm water wetlands etc.

**Storm water management facilities – All other Permitted End-of-Pipe Facilities** includes engineered end-of-pipe facilities that have received a permit or approval to operate and which are not storm water ponds or wetlands (e.g. oil-grit separators, etc.).

**Linear storm water assets** include culverts less than 3 meters in diameter, open ditches, storm water pipes (diameter: < 450 mm), storm water pipes (diameter: ≥ 450 mm to < 1,500 mm), and storm water pipes (diameter: ≥ 1,500 mm) owned by your organization or leased by your organization through a capital lease agreement.



**3. As of December 31, 2016, indicate the count/kilometres distribution of your storm water assets inventory based on the year of completed construction.**

Each selected asset for questions 1 and 2 should have a count/kilometre distribution below.

	Year of completed construction						
	2016	2010 to 2015	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940	Do not know
Count							
<b>Non-linear storm water assets</b>							
Storm water drainage pump stations	C7C03101	C7C03201	C7C03301	C7C03401	C7C03501	C7C03601	C7C03701
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7C03102	C7C03202	C7C03302	C7C03402	C7C03502	C7C03602	C7C03702
Storm water management facilities – all other permitted, end-of-pipe facilities	C7C03103	C7C03203	C7C03303	C7C03403	C7C03503	C7C03603	C7C03703
Kilometres							
<b>Linear storm water assets</b>							
Culverts (diameter: < 3 m )	C7C03104	C7C03204	C7C03304	C7C03404	C7C032504	C7C032604	C7C032704
Open ditches	C7C03105	C7C03205	C7C03305	C7C03405	C7C03505	C7C03605	C7C03705
Storm water pipes (diameter: < 450 mm)	C7C03106	C7C03206	C7C03306	C7C03406	C7C03506	C7C03606	C7C03706
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7C03107	C7C03207	C7C03307	C7C03407	C7C03507	C7C03607	C7C03707
Storm water pipes (diameter: ≥ 1,500 mm)	C7C03108	C7C03208	C7C03308	C7C03408	C7C03508	C7C03608	C7C03708
Storm water pipes (of unknown diameter)	C7C03109	C7C03209	C7C03309	C7C03409	C7C03509	C7C03609	C7C03709

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**4. What is the condition assessment cycle for your storm water assets?**

**Condition assessment cycle:** The period of time required to assess all the assets of a particular type owned by the organization as well as all of the assets of a particular type leased by the organization through a capital lease agreement.

Please select one condition assessment cycle per asset.

		Condition assessment cycle						
		1 year	2 years	3 to 5 years	5 to 10 years	More than 10 years	Does not apply	Do not know
<b>Non-linear storm water assets</b>								
Storm water drainage pump stations	C7D04101	01	02	03	04	05	06	07
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7D04102	01	02	03	04	05	06	07
Storm water management facilities – all other permitted, end-of-pipe facilities	C7D04103	01	02	03	04	05	06	07
<b>Linear storm water assets</b>								
Culverts (diameter: < 3 m)	C7D04104	01	02	03	04	05	06	07
Open ditches	C7D04105	01	02	03	04	05	06	07
Storm water pipes (diameter: < 450 mm)	C7D04106	01	02	03	04	05	06	07
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7D04107	01	02	03	04	05	06	07
Storm water pipes (diameter: ≥ 1,500 mm)	C7D04108	01	02	03	04	05	06	07
Storm water pipes (of unknown diameter)	C7D04109	01	02	03	04	05	06	07

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**5. Please indicate the assessment tool used to complete the physical condition assessment of your organization's storm water assets in 2016.**

Check all that apply for each storm water asset owned or leased by your organization.

Each selected asset for questions 1 and 2 should have a physical condition assessment below.

	1. Based on detailed inspection and analysis guidelines or procedures	2. Based on municipal representative working experience with asset	3. Using proxy information such as age of material, soil environment and estimated service life	4. Do not know
<b>Non-linear storm water assets</b>				
Storm water drainage pump stations	C7E05101 <input type="checkbox"/>	C7E05201 <input type="checkbox"/>	C7E05301 <input type="checkbox"/>	C7E05401 <input type="checkbox"/>
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7E05102 <input type="checkbox"/>	C7E05202 <input type="checkbox"/>	C7E05302 <input type="checkbox"/>	C7E05402 <input type="checkbox"/>
Storm water management facilities – all other permitted, end-of-pipe facilities	C7E05103 <input type="checkbox"/>	C7E05203 <input type="checkbox"/>	C7E05303 <input type="checkbox"/>	C7E05403 <input type="checkbox"/>
<b>Linear storm water assets</b>				
Culverts (diameter: < 3 m )	C7E05104 <input type="checkbox"/>	C7E05204 <input type="checkbox"/>	C7E05304 <input type="checkbox"/>	C7E05404 <input type="checkbox"/>
Open ditches	C7E05105 <input type="checkbox"/>	C7E05205 <input type="checkbox"/>	C7E05305 <input type="checkbox"/>	C7E05405 <input type="checkbox"/>
Storm water pipes (diameter: < 450 mm)	C7E05106 <input type="checkbox"/>	C7E05206 <input type="checkbox"/>	C7E05306 <input type="checkbox"/>	C7E05406 <input type="checkbox"/>
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7E05107 <input type="checkbox"/>	C7E05207 <input type="checkbox"/>	C7E05307 <input type="checkbox"/>	C7E05407 <input type="checkbox"/>
Storm water pipes (diameter: ≥ 1,500 mm)	C7E05108 <input type="checkbox"/>	C7E05208 <input type="checkbox"/>	C7E05308 <input type="checkbox"/>	C7E05408 <input type="checkbox"/>
Storm water pipes (of unknown diameter)	C7E05109 <input type="checkbox"/>	C7E05209 <input type="checkbox"/>	C7E05309 <input type="checkbox"/>	C7E05409 <input type="checkbox"/>

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**6. In 2016, what was the overall physical condition of your organization's storm water assets?  
Please indicate the percentage distribution of your storm water assets by using the following condition rating scale.**

**Very poor:** The asset is unfit for sustained service. Near or beyond expected service life, widespread signs of advanced deterioration, some assets may be unusable.

**Poor:** Increasing potential of affecting service. The asset is approaching end of service life; condition below standard and a large portion of system exhibits significant deterioration.

**Fair:** The asset requires attention. The assets show signs of deterioration and some elements exhibit deficiencies.

**Good:** The asset is adequate. Acceptable, generally within mid stage of expected service life.

**Very good:** Asset is fit for the future. Well maintained, good condition, new or recently rehabilitated.

Each selected asset for questions 1 and 2 should have a percent distribution below.

Each reporting asset must total to 100%.

	Very poor	Poor	Fair	Good	Very good	Do not know	Total
	%						
<b>Non-linear storm water assets</b>							
Storm water drainage pump stations	C7F06101	C7F06201	C7F06301	C7F06401	C7F06501	C7F06601	100 %
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7F06102	C7F06202	C7F06302	C7F06402	C7F06502	C7F06602	100 %
Storm water management facilities – all other permitted, end-of-pipe facilities	C7F06103	C7F06203	C7F06303	C7F06403	C7F06503	C7F06603	100 %
<b>Linear storm water assets</b>							
Culverts (diameter: < 3 m )	C7F06104	C7F06204	C7F06304	C7F06404	C7F06504	C7F06604	100 %
Open ditches	C7F06105	C7F06205	C7F06305	C7F06405	C7F06505	C7F06605	100 %
Storm water pipes (diameter: < 450 mm)	C7F06106	C7F06206	C7F06306	C7F06406	C7F06506	C7F06606	100 %
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7F06107	C7F06207	C7F06307	C7F06407	C7F06507	C7F06607	100 %
Storm water pipes (diameter: ≥ 1,500 mm)	C7F06108	C7F06208	C7F06308	C7F06408	C7F06508	C7F06608	100 %
Storm water pipes (of unknown diameter)	C7F06109	C7F06209	C7F06309	C7F06409	C7F06509	C7F06609	100 %

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## Asset management and performance

### 7. Does your organization have a storm water asset management plan?

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

C7G07101

- 1  Yes
- 3  No → Please go to question 9

### 8. How often does your organization update the current storm water asset management plan?

Mark one only.

C7G08101

- 1  Every year
- 2  Every two to four years
- 3  Every five years or more
- 4  Does not update
- 5  Other — please specify:

C7G08205

- 6  Do not know

→ Please go to question 10

### 9. When does your organization plan on implementing a storm water asset management plan?

Mark one only.

C7G09101

- 1  In one year
- 2  In two to four years
- 3  In five years or more
- 4  Other — please specify:

C7G09204

- 5  Do not plan to implement an asset management plan
- 6  Do not know

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**13. Of the flood events related to the storm water system that resulted in property damage, what percentage was caused by lack of capacity in your organization's pipes or pump stations?**

Mark one only.

C7G13101

- 01  Less than 5%
- 02  5% to 10%
- 03  11% to 20%
- 04  21% to 30%
- 05  31% to 40%
- 06  41% to 50%
- 07  51% to 75%
- 08  Greater than 75%
- 09  Data not collected
- 10  Do not know

**14. What is the percent by drainage area of storm water collection system in the jurisdiction with the following types of treatment:**

Type of Infrastructure	%
a. Green living infrastructure, such as infiltration swales, rain gardens, infiltration bulges, green roofs, tree well structures, constructed wetlands	C7G14101 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> %
b. Grey storm water infrastructure such as retention treatment basins, peak flow control – storage, peak flow control – flow restriction, runoff quality control, runoff volume control	C7G14102 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> %

**15a. In 2016, did your organization permit new depressed / reverse slope driveways?**

C7G15101

- 1  Yes → Please go to question 15b
- 3  No → Please go to question 16a

**15b. In 2016, did your organization collect data on the number and location of these driveways?**

C7G15102

- 1  Yes
- 3  No

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**16a. For those existing homes in your jurisdiction connected to a storm sewer system by service laterals, did your organization have a program to inform and encourage the use of backflow prevention such as backwater valves, sump pumps, etc. in 2016?**

C7G16101

<sup>1</sup>  Yes → Please go to question 16b

<sup>3</sup>  No → Please go to question 17

**16b. In 2016, did your organization collect data on the number and location of backflow prevention devices installed?**

C7G16102

<sup>1</sup>  Yes

<sup>3</sup>  No

**17. For new homes built in your jurisdiction connected to a storm sewer system by service laterals, did your organization require backflow prevention such as backwater valves, sump pumps, etc.?**

C7G17101

<sup>1</sup>  Yes

<sup>3</sup>  No

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## Assets value and expenses of storm water

### 18. What is the 2016 estimated replacement value, required renewal budget, and actual renewal budget of storm water assets owned by your organization?

**Estimated replacement value:** the approximate cost at the present time required to replace an asset, including demolition costs.

**Does not include** land costs or overhead such as administration.

**2016 required renewal budget:** the budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of "good" within the 2016 reference year. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**2016 actual renewal budget:** the actual funds spent for the rehabilitation, reconstruction a replacement of the assets. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**Required renewal budget and actual renewal budget does not include** cost of regular maintenance and repairs. Maintenance and repairs: Ordinary maintenance and repairs of fixed assets are activities that owners or users of fixed assets are obliged to undertake periodically in order to be able to utilise assets over their expected service lives (they are current costs that cannot be avoided if the fixed assets are to continue to be used). Maintenance and repairs do not change the fixed asset or its performance, but simply maintain it in good working order or restore it to its previous condition in the event of a breakdown.

**Each asset should correspond to question 1 and 2.**

	2016		
	Estimated replacement value	Required renewal budget	Actual renewal budget
Thousands of dollars (000's)			
<b>Non-linear storm water assets</b>			
Storm water drainage pump stations	C7H18101 \$ [ ] ,000	C7H18201 \$ [ ] ,000	C7H18301 \$ [ ] ,000
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7H18102 \$ [ ] ,000	C7H18202 \$ [ ] ,000	C7H18302 \$ [ ] ,000
Storm water management facilities – all other permitted, end-of-pipe facilities	C7H18103 \$ [ ] ,000	C7H18203 \$ [ ] ,000	C7H18303 \$ [ ] ,000
<b>Linear storm water assets</b>			
Culverts (diameter: < 3 m )	C7H18104 \$ [ ] ,000	C7H18204 \$ [ ] ,000	C7H18304 \$ [ ] ,000
Open ditches	C7H18105 \$ [ ] ,000	C7H18205 \$ [ ] ,000	C7H18305 \$ [ ] ,000
Storm water pipes (diameter: < 450 mm)	C7H18106 \$ [ ] ,000	C7H18206 \$ [ ] ,000	C7H18306 \$ [ ] ,000
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7H18107 \$ [ ] ,000	C7H18207 \$ [ ] ,000	C7H18307 \$ [ ] ,000
Storm water pipes (diameter: ≥ 1,500 mm)	C7H18108 \$ [ ] ,000	C7H18208 \$ [ ] ,000	C7H18308 \$ [ ] ,000
Storm water pipes (of unknown diameter)	C7H18109 \$ [ ] ,000	C7H18209 \$ [ ] ,000	C7H18309 \$ [ ] ,000

**19. In 2016, what was the total value associated with new non-linear storm water assets and new linear storm water assets owned by your organization?**

**New non-linear storm water assets and linear storm water assets** include the value of new construction, acquisition of assets, and the value of donated assets.

		2016	
		Thousands of dollars (000's)	
<b>Non-linear storm water assets</b>	C7H19101	\$ <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	,000
<b>Linear storm water assets</b>	C7H19102	\$ <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	,000

**20. In 2016, what was the expected useful life (in years) of new non-linear storm water assets and new linear storm water assets owned by your organization?**

**New non-linear storm water assets and new linear storm water assets** include new construction, acquisition of assets, and donated assets.

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

		Expected useful life (in years)
<b>Non-linear storm water assets</b>		
Storm water drainage pump stations	C7H20101	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water management facilities – Storm water Management Ponds and Storm water Wetlands	C7H20102	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water management facilities – all other permitted, end-of-pipe facilities	C7H20103	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
<b>Linear storm water assets</b>		
Culverts (diameter: < 3 m )	C7H20104	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Open ditches	C7H20105	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water pipes (diameter: < 450 mm)	C7H20106	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water pipes (diameter: ≥ 450 mm to < 1,500 mm)	C7H20107	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water pipes (diameter: ≥ 1,500 mm)	C7H20108	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
Storm water pipes (of unknown diameter)	C7H20109	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>

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**Storm water assets** include the following:

**Non-linear storm water assets** include storm water drainage pump stations; storm water management facilities – storm water management ponds and storm water wetlands; and storm water management facilities – all other permitted, end-of-pipe facilities owned by your organization or leased by your organization through a capital lease agreement.

**Storm water drainage pump stations** include storm water drainage pump stations that are connected to drainage swales, ditches and storm sewers. **Exclude** combined pump stations which convey combined sewage/storm water to wastewater treatment plants.

**Storm water management facilities – Storm water management ponds and storm water wetlands:** includes engineered end-of-pipe facilities that have received a permit or approval to operate and which may provide peak flow control, runoff quality control, runoff control for downstream erosion, runoff volume control, etc. Includes dry ponds, wet ponds, and storm water wetlands etc.

**Storm water management facilities – All other Permitted End-of-Pipe Facilities** includes engineered end-of-pipe facilities that have received a permit or approval to operate and which are not storm water ponds or wetlands (e.g. oil-grit separators, etc.).

**Linear storm water assets** include culverts less than 3 meters in diameter, open ditches, storm water pipes (diameter: < 450 mm), storm water pipes (diameter: ≥ 450 mm to < 1,500 mm), and storm water pipes (diameter: ≥ 1,500 mm) owned by your organization or leased by your organization through a capital lease agreement.

**Condition assessment cycle:** The period of time required to assess all the assets of a particular type owned by the organization as well as all of the assets of a particular type leased by the organization through a capital lease agreement.

**Asset Management Plan:** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

**Estimated replacement value:** the approximate cost at the present time required to replace an asset, including demolition costs. **Does not include** land costs or overhead such as administration.

**2016 required renewal budget:** the budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” within the 2016 reference year. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**Does not include** cost of regular maintenance and repairs.

**2016 actual renewal budget:** the actual funds spent for the rehabilitation, reconstruction a replacement of the assets. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives. **Does not include** cost of regular maintenance and repairs.

**Maintenance and repairs:** Ordinary maintenance and repairs of fixed assets are activities that owners or users of fixed assets are obliged to undertake periodically in order to be able to utilise assets over their expected service lives (they are current costs that cannot be avoided if the fixed assets are to continue to be used). Maintenance and repairs do not change the fixed asset or its performance, but simply maintain it in good working order or restore it to its previous condition in the event of a breakdown.

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