

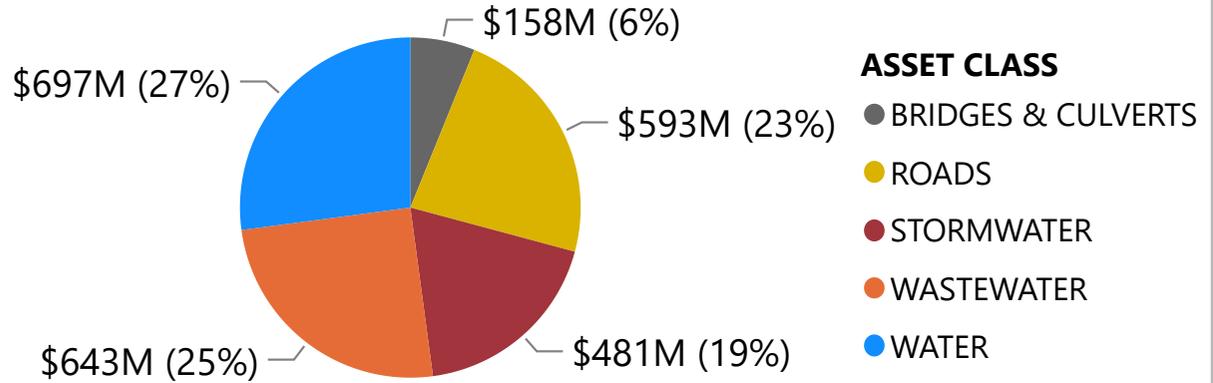
TOTAL CORE ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$2.57B

REPLACEMENT COST BY ASSET CLASS

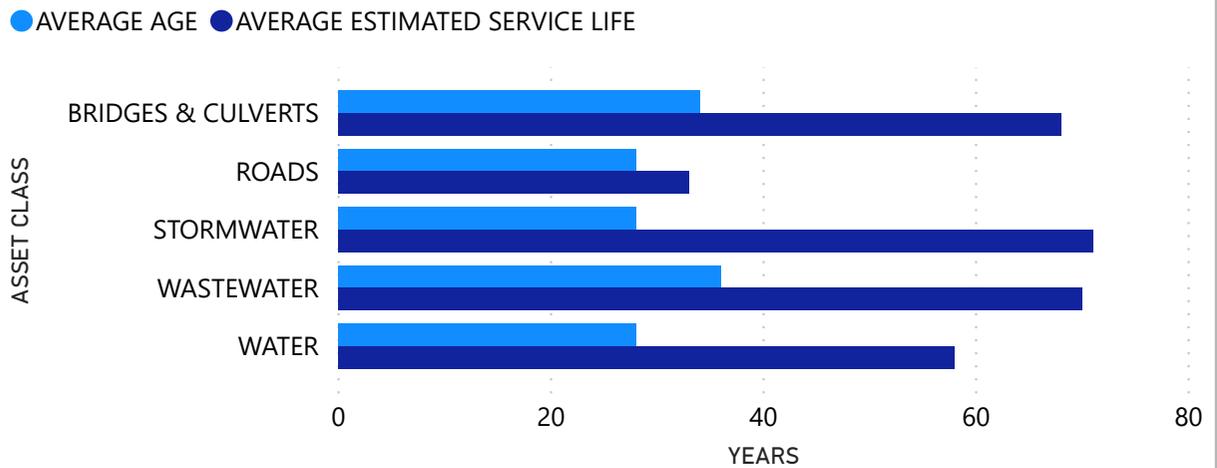


AVERAGE AGE (% OF ESTIMATED SERVICE LIFE EXPENDED)



31 YEARS (55%)

AVERAGE AGE VERSUS AVERAGE ESTIMATED SERVICE LIFE



AVERAGE CONDITION

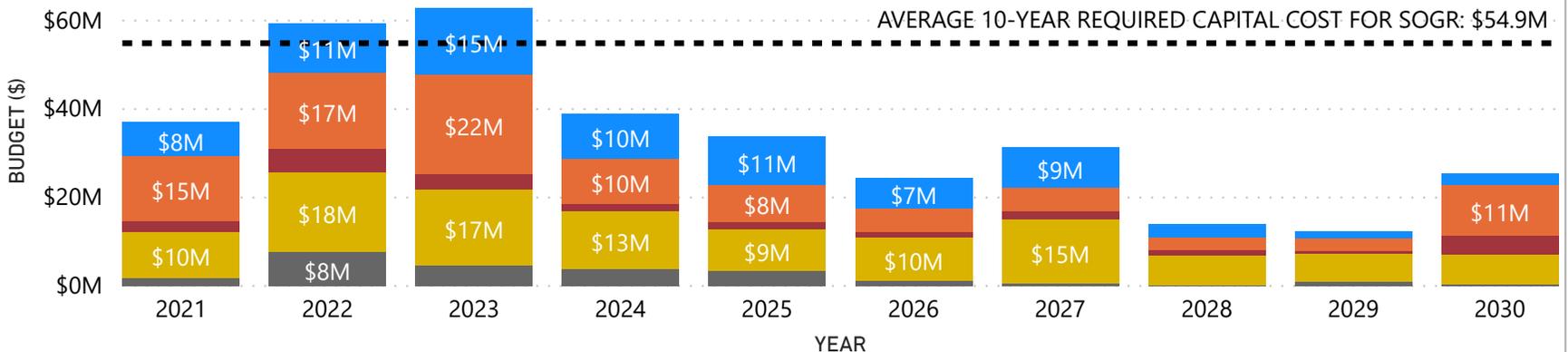


FAIR

ASSET CLASS	AVERAGE CONDITION	DATA CONFIDENCE
BRIDGES & CULVERTS	FAIR	MEDIUM
ROADS	FAIR	HIGH
STORMWATER	FAIR	MEDIUM
WASTEWATER	GOOD	MEDIUM
WATER	GOOD	MEDIUM

TOTAL ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)

ASSET CLASS ● BRIDGE & CULVERT ● ROAD ● STORM ● WASTEWATER ● WATER



BRIDGE & CULVERT ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$158M

AVERAGE AGE (% OF
ESTIMATED SERVICE LIFE
EXPENDED)



34 YEARS (50%)

AVERAGE WEIGHTED
CONDITION



FAIR

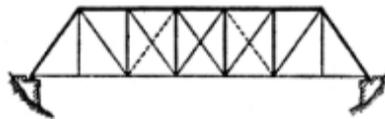
BRIDGE & CULVERT ASSET INVENTORY SUMMARY

NUMBER OF LONG SPAN
CULVERTS



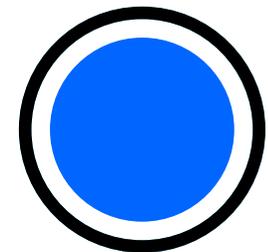
45

NUMBER OF BRIDGES



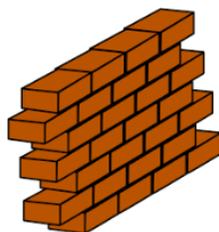
40

NUMBER OF SHORT SPAN
CULVERTS



186

NUMBER OF RETAINING
WALLS



36

NUMBER OF BRIDGE
STAIRWAYS



6

BRIDGE & CULVERT ASSET ANALYSIS

DATA CONFIDENCE LEVEL

CONDITION



MEDIUM

INVENTORY



MEDIUM

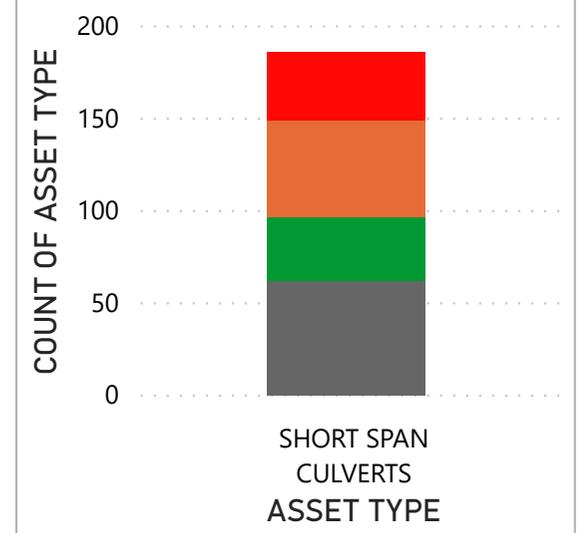
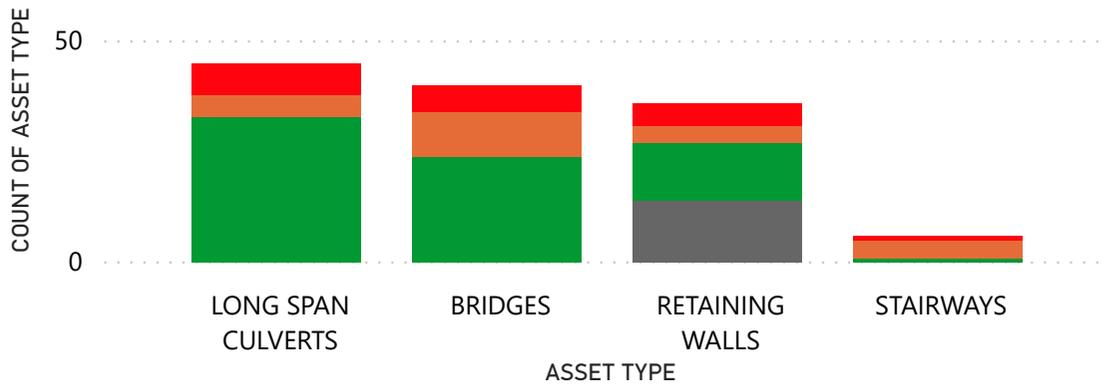
REPLACEMENT COST



MEDIUM

CONDITION DISTRIBUTION-BRIDGE & CULVERT ASSETS

CONDITION ● 0-N/A ● 1-GOOD ● 2-FAIR ● 3-POOR



10 YEAR COST EXPENDITURES

AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR: \$2.74M

CURRENT AVERAGE 10-YEAR SOGR CAPITAL BUDGET AMOUNT: \$2.50M

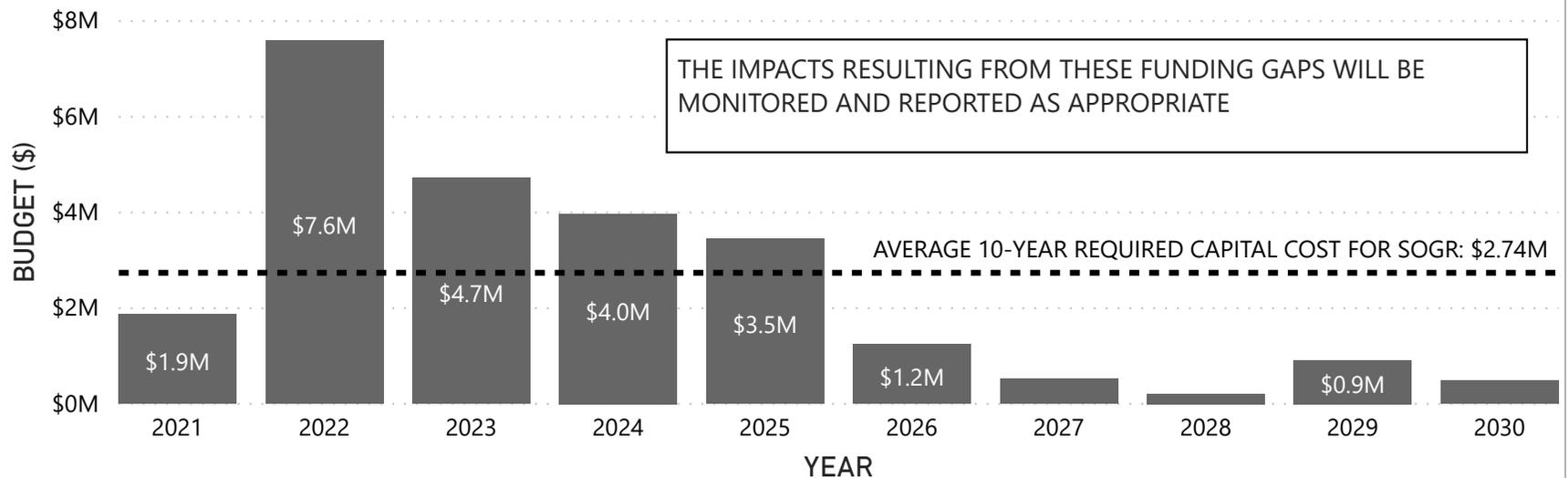
AVERAGE ANTICIPATED ANNUAL 10-YEAR O&M COST: \$197.1K

KEY 2020 TECHNICAL LEVELS OF SERVICE

AVERAGE BRIDGE CONDITION INDEX (BCI) FOR BRIDGES: 67.8
 AVERAGE BCI FOR LONG SPAN CULVERTS: 68.1
 NUMBER OF BRIDGES WITH LOADING RESTRICTIONS: 1
 NUMBER OF CLOSED PEDESTRIAN BRIDGES: 5
 NUMBER OF BRIDGE CONDITION COMPLAINTS: 3

NOTE: TARGETS TO BE COMPLETED IN FUTURE ITERATIONS OF THE AMP

BRIDGE & CULVERT ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)



ROAD ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$593M

AVERAGE AGE (% OF ESTIMATED SERVICE LIFE EXPENDED)



28 YEARS (86%)

AVERAGE WEIGHTED CONDITION



FAIR

ROAD ASSET INVENTORY SUMMARY

TOTAL LANE KILOMETERS



1,067

NUMBER OF SIGNALLED INTERSECTIONS



140

LENGTH OF ON-ROAD PAINTED BICYCLE LANES (km)



37.7

TOTAL LENGTH OF GUIDE RAIL (km)



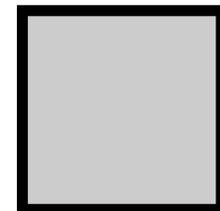
28.68

NUMBER OF REGULATORY/WARNING SIGNS



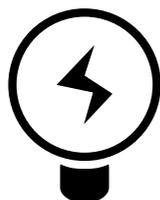
19,875

TOTAL LENGTH OF SIDEWALK (km)



587.36

NUMBER OF STREETLIGHTS



10,378

NUMBER OF STREETLIGHT POLES



4,096

ROAD ASSET ANALYSIS (2021 AMP)

DATA CONFIDENCE LEVEL

CONDITION



HIGH

INVENTORY



HIGH

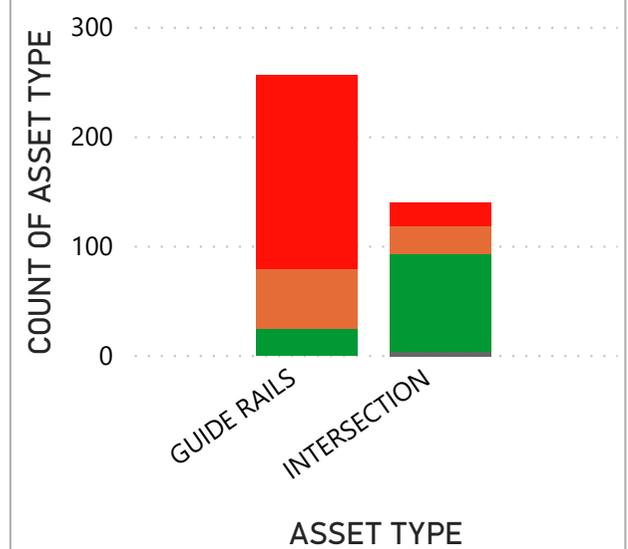
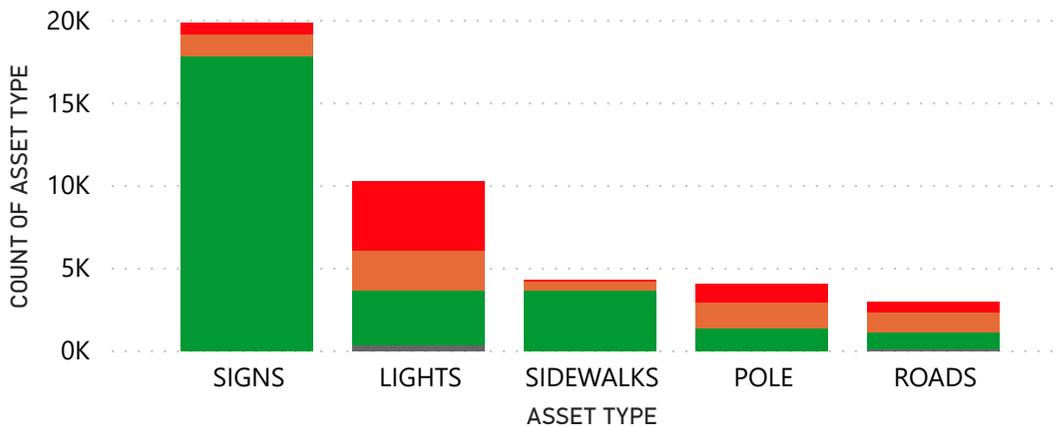
REPLACEMENT COST



MEDIUM

CONDITION DISTRIBUTION-ROAD ASSETS

CONDITION ● 0-N/A ● 1-GOOD ● 2-FAIR ● 3-POOR



10 YEAR COST EXPENDITURES

AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR: \$20.9M

CURRENT AVERAGE 10-YEAR SOGR CAPITAL BUDGET AMOUNT: \$11.2M

AVERAGE ANTICIPATED ANNUAL 10-YEAR O&M COST*: \$19.6M

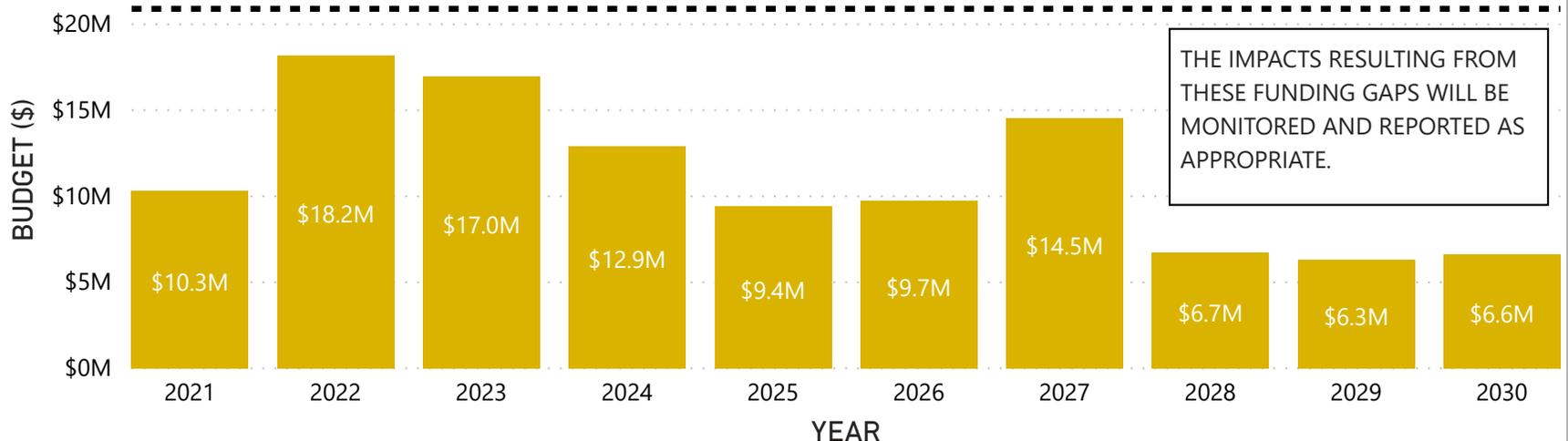
KEY 2020 TECHNICAL LEVELS OF SERVICE

AVERAGE PAVEMENT CONDITION INDEX (PCI) OF PAVED ROADS: 64
 NUMBER OF ROAD CONDITION COMPLAINTS: 275
 NUMBER OF UNEXPECTED ROAD CLOSURES: 2
 NUMBER OF WEATHER DEPLOYMENT EVENTS: 31
 LENGTH OF FULL ROAD RECONSTRUCTION: 2.8 km

NOTE: TARGETS TO BE COMPLETED IN FUTURE ITERATIONS OF THE AMP

ROAD ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)

AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR: \$20.9M



THE IMPACTS RESULTING FROM THESE FUNDING GAPS WILL BE MONITORED AND REPORTED AS APPROPRIATE.

WATER ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$697M

AVERAGE AGE (% OF ESTIMATED SERVICE LIFE EXPENDED)



29 YEARS (49%)

AVERAGE WEIGHTED CONDITION



GOOD

LINEAR ASSET INVENTORY SUMMARY

LENGTH OF WATERMAIN (km)



507.7

NUMBER OF SERVICES



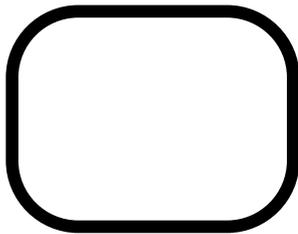
32,846

NUMBER OF HYDRANTS



2,795

NUMBER OF CHAMBERS



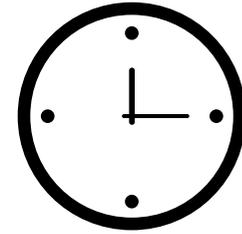
237

NUMBER OF VALVES



8,673

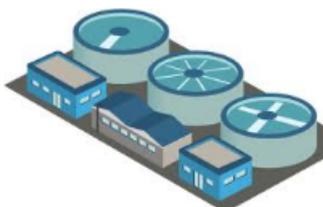
NUMBER OF METERS



35,175

VERTICAL ASSET INVENTORY SUMMARY

NUMBER OF WTP STRUCTURES



12

NUMBER OF PUMP STATIONS



4

NUMBER OF ELEVATED STORAGE TANKS



2

DATA CONFIDENCE LEVEL

CONDITION



MEDIUM

INVENTORY



MEDIUM

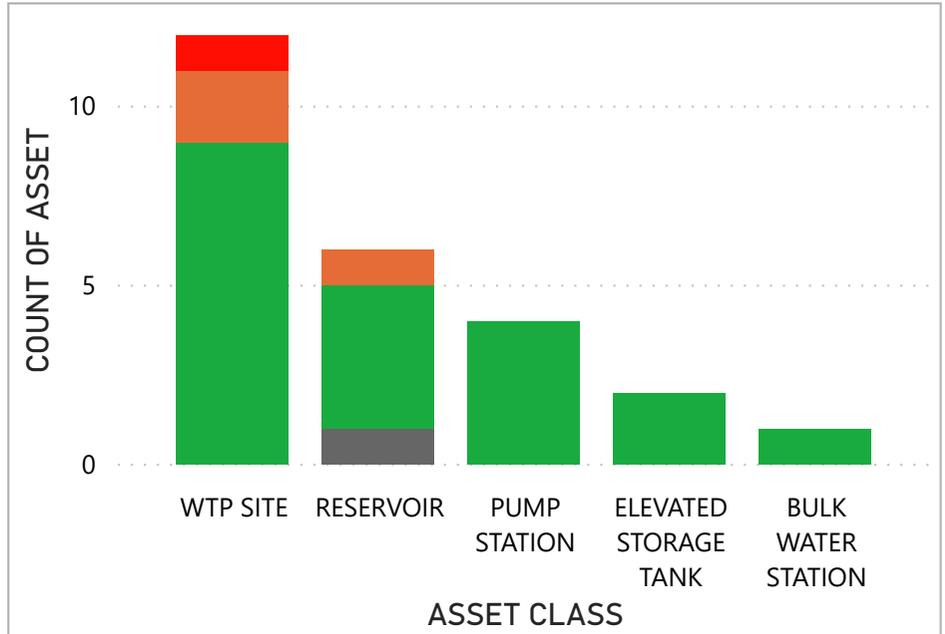
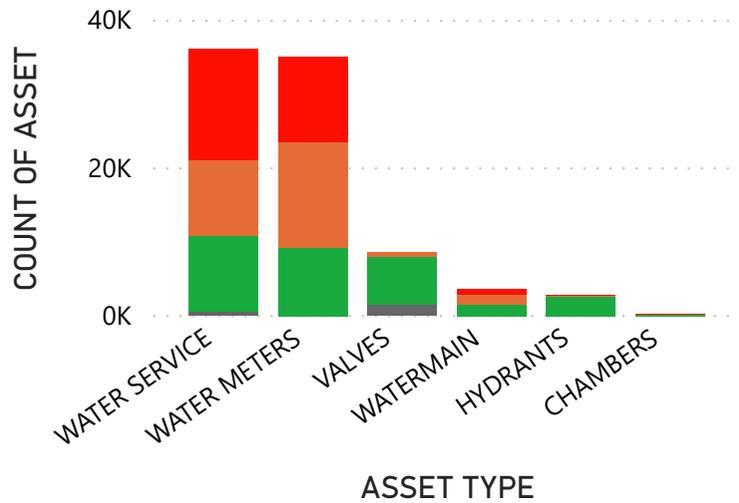
REPLACEMENT COST



MEDIUM

CONDITION DISTRIBUTION-WATER ASSETS

CONDITION ● 0-N/A ● 1-GOOD ● 2-FAIR ● 3-POOR



10-YEAR COST EXPENDITURES

AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR: \$15.3M

CURRENT AVERAGE 10-YEAR SOGR CAPITAL BUDGET AMOUNT: \$7.78M

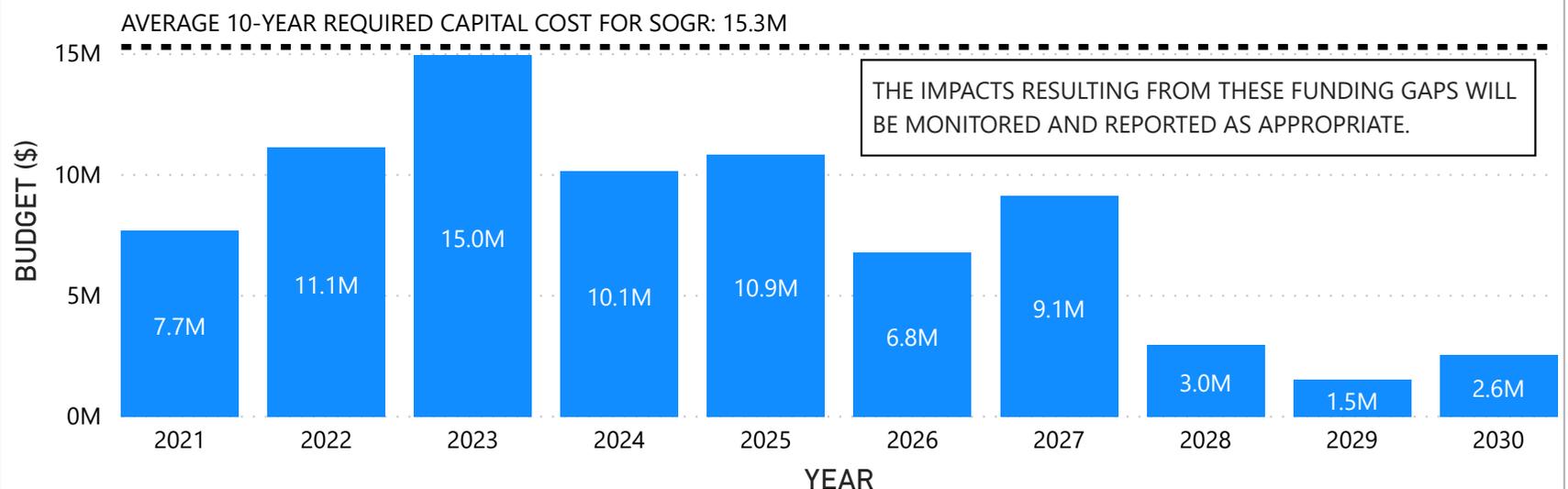
AVERAGE ANTICIPATED ANNUAL 10-YEAR O&M COST*: \$32.5M

KEY 2019 TECHNICAL LEVELS OF SERVICE

% OF PROPERTIES CONNECTED TO THE WATER SYSTEM: 94.1%
 NUMBER OF WATERMAIN BREAKS: 17
 NUMBER OF BOIL WATER ADVISORIES: 0
 WATER PRESSURE COMPLAINTS: 0.50 / 1000 ppl
 LENGTH OF NEWLY INSTALLED WATERMAIN: 7.9 km

NOTE: TARGETS TO BE COMPLETED IN FUTURE ITERATIONS OF THE AMP

WATER ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)



WASTEWATER ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$643M

AVERAGE AGE (% OF ESTIMATED SERVICE LIFE EXPENDED)



36 YEARS (51%)

AVERAGE WEIGHTED CONDITION



GOOD

LINEAR ASSET INVENTORY SUMMARY

LENGTH OF GRAVITY MAIN (km)



432.1

NUMBER OF SERVICES



10,233

LENGTH OF SIPHONS (km)



2.8

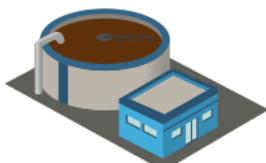
NUMBER OF MAINTENANCE HOLES



6,148

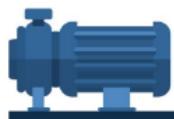
VERTICAL ASSET INVENTORY SUMMARY

NUMBER OF WASTEWATER TREATMENT PLANT STRUCTURES



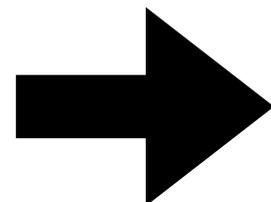
20

NUMBER OF PUMP STATIONS



9

LENGTH OF FORCEMAIN (km)



3.7

DATA CONFIDENCE

CONDITION



MEDIUM

INVENTORY



MEDIUM

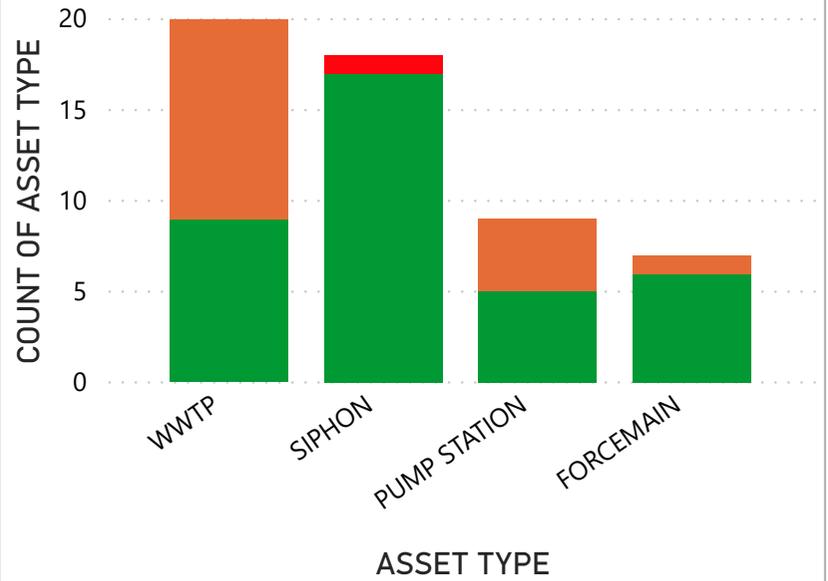
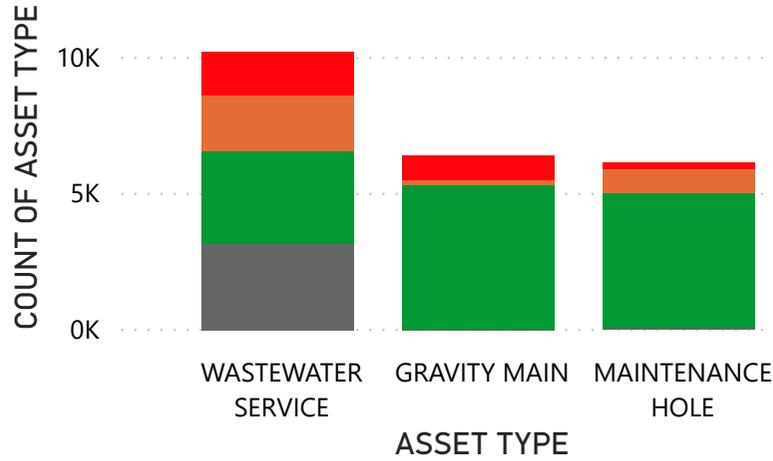
REPLACEMENT COST



MEDIUM

CONDITION DISTRIBUTION - WASTEWATER ASSETS

CONDITION ● 0-N/A ● 1-GOOD ● 2-FAIR ● 3-POOR



10 YEAR COST EXPENDITURES

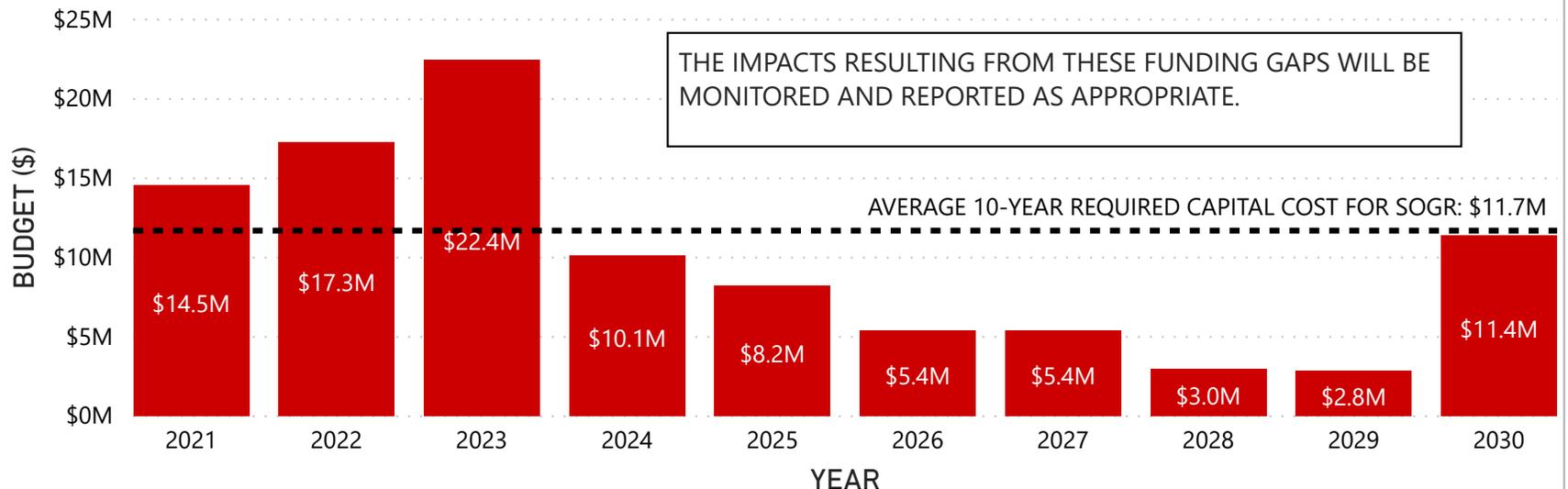
AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR:	\$11.7M
CURRENT AVERAGE 10-YEAR SOGR CAPITAL BUDGET AMOUNT:	\$10.1M
AVERAGE ANTICIPATED ANNUAL 10-YEAR O&M COST:	\$32.5M

KEY 2019 TECHNICAL LEVELS OF SERVICE

% OF PROPERTIES CONNECTED TO WASTEWATER SYSTEM:	93.4%
NUMBER OF WASTEWATER SYSTEM BACKUPS:	0
NUMBER OF EFFLUENT VIOLATIONS:	0
NUMBER OF ODOUR COMPLAINTS:	10
LENGTH OF NEWLY INSTALLED GRAVITY MAIN:	5.8 km

NOTE: TARGETS TO BE COMPLETED IN FUTURE ITERATIONS OF THE AMP

WASTEWATER ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)



STORMWATER ASSET SUMMARY (2021 AMP)

TOTAL REPLACEMENT COST



\$481M

AVERAGE AGE (% OF
ESTIMATED SERVICE LIFE
EXPENDED)



28 YEARS (40%)

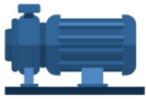
AVERAGE WEIGHTED
CONDITION



FAIR

STORMWATER ASSET INVENTORY SUMMARY

NUMBER OF PUMP
STATIONS



1

LENGTH OF GRAVITY
MAIN (km)



413.6

NUMBER OF
STORM PONDS



23

NUMBER OF STORM
SERVICES



5,010

NUMBER OF
MAINTENANCE HOLES



6,222

NUMBER OF INLETS



12,290

NUMBER OF OIL & GRIT
SEPARATORS



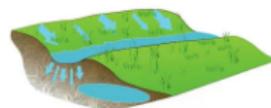
25

NUMBER OF OUTFALLS



290

LENGTH OF DITCHES
(km)



121.3

NUMBER OF FLOOD
GATES



39

DATA CONFIDENCE LEVEL

CONDITION



MEDIUM

INVENTORY



MEDIUM

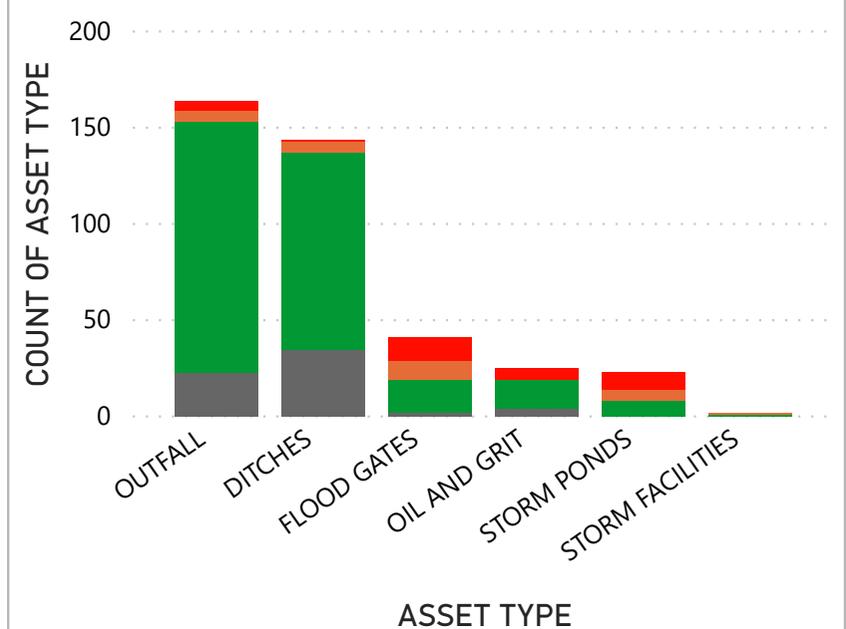
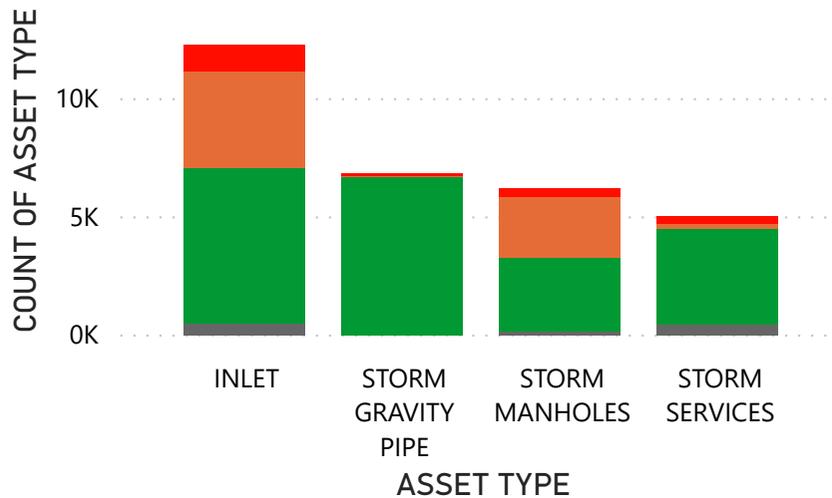
REPLACEMENT COST



LOW

CONDITION DISTRIBUTION-STORMWATER ASSETS

CONDITION ● 0-N/A ● 1-GOOD ● 2-FAIR ● 3-POOR



10-YEAR COST EXPENDITURES

AVERAGE 10-YEAR REQUIRED CAPITAL COST FOR SOGR:	\$4.4M
CURRENT AVERAGE 10-YEAR SOGR CAPITAL BUDGET AMOUNT:	\$2.4M
AVERAGE ANTICIPATED ANNUAL 10-YEAR O&M COST*:	\$0.9M

KEY 2020 TECHNICAL LEVELS OF SERVICE

% OF STORMWATER SYSTEM RESILIENT TO A 5-YEAR STORM:	52.3%
FLOODING COMPLAINTS DUE TO SYSTEM ISSUE (2019):	0.21 / 1000 ppl
NUMBER OF STORM EVENTS:	12
LARGEST RETURN YEAR STORM EVENT:	1.8
LENGTH OF NEWLY INSTALLED GRAVITY MAIN:	0.8 km

NOTE: TARGETS TO BE COMPLETED IN FUTURE ITERATIONS OF THE AMP

STORMWATER ASSETS CAPITAL BUDGET FORECAST BY YEAR FOR STATE OF GOOD REPAIR (SOGR)

