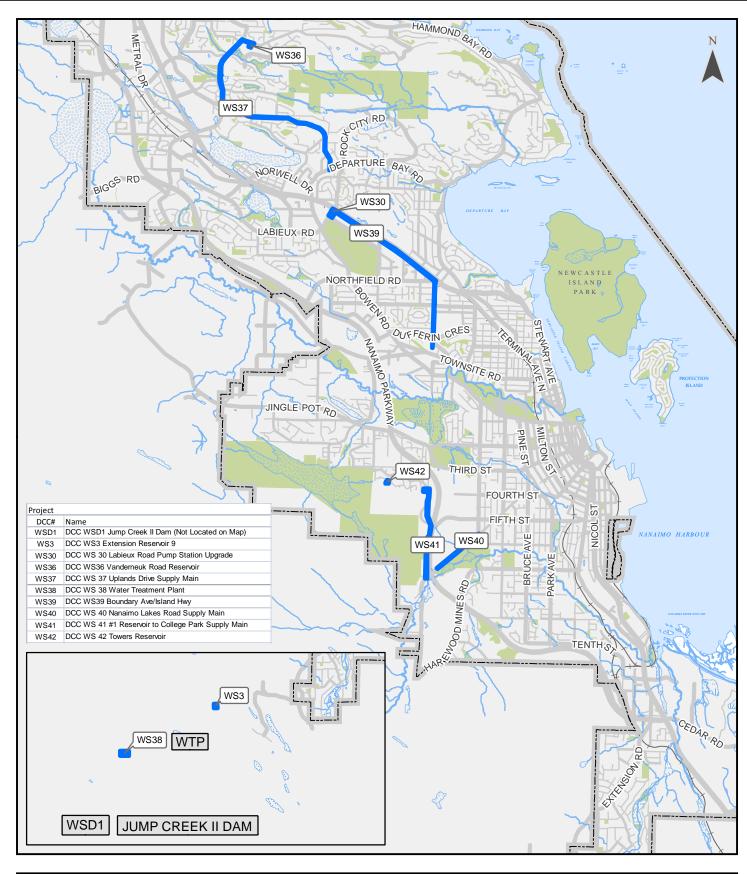
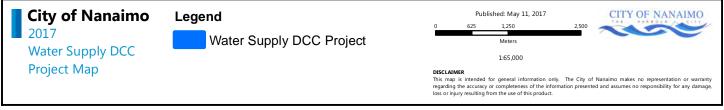
# **APPENDIX F**

# 2017 DCC Bylaw - Water Supply Project List

					Allocated	to	Growth	Allocated to Exi	stin	g Residents	
#	Project Name/Description	Location	Project Timing Range	To	otal Project Cost	Growth Percent	G	rowth Cost	Existing Percent	Ex	kisting Cost
			2020/2027-								
1	DCC WSD1 Jump Creek II Dam	Jump Creek	2030	\$	88,000,000	100%	\$	88,000,000	0%	\$	-
3	DCC WS3 Extension Reservoir 9	Extension Reservoir 9	2027	\$	3,300,000	100%	\$	3,300,000	0%	\$	-
	DCC WS 30 Labieux Road Pump Station Upgrade -										
30	install 2 additional pumps	Labieux Road Pump Station	2020	\$	200,000	100%	\$	200,000	0%	\$	-
36	DCC WS36 Vanderneuk Road Reservoir - new reservoir	Vanderneuk Road Reservoir	2029	\$	5,100,000	100%	\$	5,100,000	0%	\$	1
	DCC WS 37 Uplands Drive Supply Main - new supply main for Vanderneuk Reservoir	Uplands Drive Supply Main (Rock City Rd to Vanderneuk Reservoir)	2028	\$	8,900,000	100%	\$	8,900,000	0%	\$	-
	DCC WS 38 Water Treatment Plant - incremental cost from last DCC Review can be recovered in the current DCC Review.		2017-2041	Ś	12,000,000	30%	Ś	3,600,000	70%	\$	8,400,000
	DCC WS39 Boundary Ave/Island Hwy - increase current supply main capacity	Boundary Ave/Island Hwy Supply Main	2026	\$	7,300,000	75%	\$	5,475,000	25%	\$	1,825,000
	DCC WS 40 Nanaimo Lakes Road Supply Main - supply main replacement	Nanaimo Lakes Road Supply Main	2025	\$	1,700,000	25%	\$	425,000	75%	\$	1,275,000
41	DCC WS 41 #1 Reservoir to College Park Supply Main - new main adjacent to current main	College Park Supply Main Duplication	2017	\$	4,803,260	100%	\$	4,803,260	0%	\$	-
	DCC WS 42 Towers Reservoir - increase existing tank or construct 2nd tank	Towers Reservoir	2019	\$	1,800,000	50%	\$	900,000	50%	\$	900,000
				\$	133,103,260		\$	120,703,260		\$	12,400,000





DCC WSD-1 (100% Growth) Jump Creek II Dam - New Water Storage

#### Project:

#### Components:

2361 DCC WSD-1 (100% Growth) Jump Creek II Dam - New Water Storage

2030	Funding							
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources			
88,000,000	0	88,000,000	0	0	0			
88,000,000	0	88,000,000	0	0	0			

### **Project Description:**

Development and construction of new water supply reservoir/dam, Jump Creek II Dam.

#### **Asset Management Description of Work:**

New - Not existing before

#### Justification:

Increase capacity to existing dam and reservoir at Jump Creek Dam. Provides for future growth and climate change adaptation.

DCC WS3: (100% Growth) Extension Reservoir 9A

### Project:

### Components:

610 DCC WS3 : (100% Growth) Extension Reservoir 9A

2027			Funding						
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources				
4,300,000	0	4,300,000	0	0	0				
4,300,000	0	4,300,000	0	0	0				

### **Project Description:**

Construction of new 4900m3 concrete reservoir with TWL 198m Includes piping from control building to new reservoir (increase of \$1M) \*NEW

### **Asset Management Description of Work:**

Upgrades - Increased service capacity

# Justification:

This is required for capacity - for balancing storage and to provide fire flow



DCC WS-30 (100% Growth) Labieux Booster PS Upgrades

#### Project:

#### Components:

2126 DCC WS-30 (100% Growth) Labieux Booster PS Upgrades

2020					
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources
200,000	0	200,000	0	0	0
200,000	0	200,000	0	0	0

### **Project Description:**

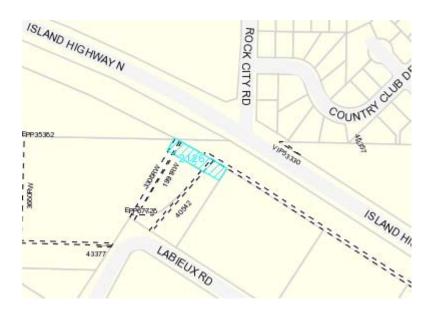
DCC Water Supply System -Upgrade Labieux booster pump station to meet increasing water demands.

### **Asset Management Description of Work:**

Labieux Booster PS Upgrades

#### Justification:

Growth - Add two new pumps to support continued growth



DCC WS36: (100% Growth) Vanderneuk Reservoir

### Project:

#### Components:

815 DCC WS36 : Vanderneuk Reservoir

2029			Funding		
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources
5,100,000	0	5,100,000	0	0	0
5,100,000	0	5,100,000	0	0	0

### **Project Description:**

Construction of a new 2 million gallon (9230 m3) closed concrete or steel reservoir with a TWL of 170m

### **Asset Management Description of Work:**

New reservoir

#### Justification:

Allows continued growth in north end, augments Lost Lake Reservoir No 2; supports fire flow.



DCC WS37: (100% Growth) Uplands Drive Supply Main

# Project:

# Components:

2028	Funding									
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources					
8,900,000	0	8,900,000	0	0	0					
8,900,000	0	8,900,000	0	0	0					

816 DCC WS37: (100% Growth) Uplands Drive Supply Main

# **Project Description:**

Uplands Drive Supply Main - Departure Bay Road to Vanderneuk Road to Turner

# **Asset Management Description of Work:**

New - Not existing before

#### Justification:

Allows continued growth in north end, supplies Vanderneuk Reservoir; supports fire flow.



DCC WS38 (30% Growth): Water Treatment Plant

### Project:

### Components:

	2014	Funding				
	Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources
619 South Fork Water Treatment Plant 817 DCC WS38 : Water Treatment Plant	510,000	0	0	510,000	0	0
	61,000,000	0	9,863,873	933,757	0	50,202,370
Ī	61,510,000	0	9,863,873	1,443,757	0	50,202,370

# **Project Description:**

Portion of Water Treatment Plant attributable to development (80,000-130,000)

# **Asset Management Description of Work:**

New - Not existing before

### Justification:

Regulatory requirement; protects drinking water quality for generations.



DCC WS39 : (75% Growth) Boundary Ave / Island Hwy Supply Main

# Project:

### Components:

818 DCC WS39 : Boundary Ave / Island Hwy Supply Main

2026					
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources
7,300,000	0	5,475,000	1,825,000	0	0
7,300,000	0	5,475,000	1,825,000	0	0

#### **Project Description:**

Boundary Ave/Island Hwy Supply Main (Construction over 2 years 2025/2026)

### **Asset Management Description of Work:**

Upgrades - Increased service capacity

#### Justification:

Augment capacity and provide duplication of Bowen Rd Supply main to provide for continued growth and fire flow.



DCC WS40 : (25% Growth) Nanaimo Lakes Road Supply Main

# Project:

# Components:

819 DCC WS40 : (25% Growth) Nanaimo Lakes Road Supply Main

	Funding									
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources					
1,700,000	0	425,000	1,275,000	0	0					
1,700,000	0	425,000	1,275,000	0	0					

# **Project Description:**

Nanaimo Lakes Road Supply Main

#### **Asset Management Description of Work:**

Growth - Identified as a DCC Project

#### Justification:

Provides capacity for growth and fire protection in lower pressure zone



DCC WS41: (100% Growth) #1 RES to College Pk Dup Supply WM & PRV

# Project:

### Components:

	2017	Funding						
	Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources		
625 DCC WS41 (100% Growth): #1 RES to College Pk Dup Supply WM – New	4,360,000	0	4,360,000	0	0	0		
	4,360,000	0	4,360,000	0	0	0		

# **Project Description:**

Construction of a new water supply main, 1.6 km-750mm diameter steel, from Nanaimo Lakes Road to College Park Reservoirs.

The pipeline will increase the supply capacity and water system reliability to the City.

### **Asset Management Description of Work:**

New - Not existing before

#### Justification:

This is required for capacity - to feed North end for growth. This also improves fire storage in existing reservoirs.



DCC WS 42 - (50% Growth) Towers Reservoir

#### Project:

### Components:

DCC WS42 (50% Growth): Towers Reservoir

2019	Funding									
Budget	General Taxation	DCC's	Water Reserves	Sewer Reserves	Other Sources					
1,800,000	0	900,000	900,000	0	0					
1,800,000	0	900,000	900,000	0	0					

### **Project Description:**

DCC WS42 (50% Growth): Towers Reservoir - Replacement

#### **Asset Management Description of Work:**

Replacement, Capacity Upgrade

#### Justification:

This is required for capacity – to feed West Nanaimo for balancing storage and to provide fire flow. Existing reservoir was undersized.

