



Dunedin 3 Waters Strategy

Shore Street Integrated Catchment Management Plan

Figures

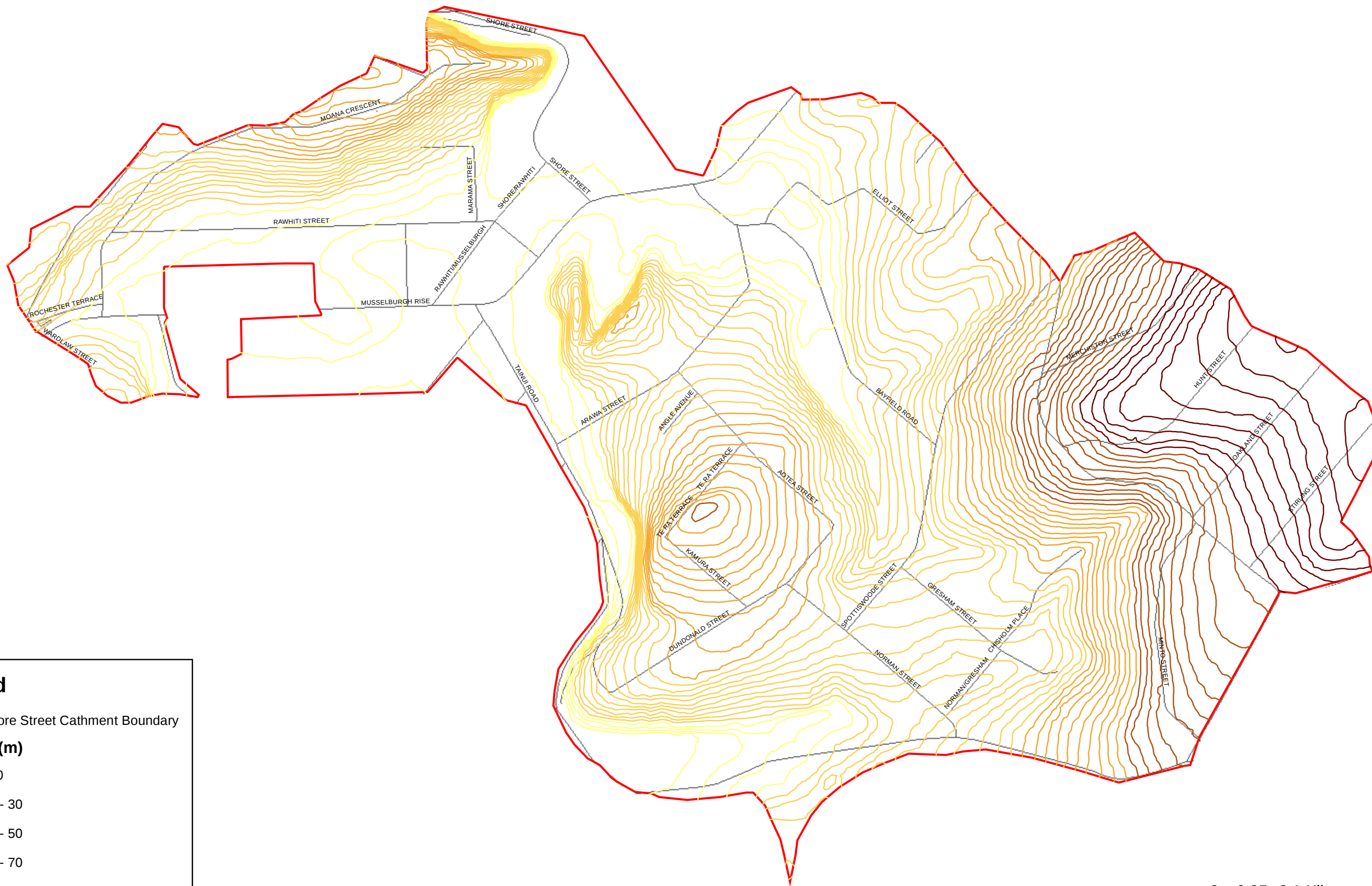


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Legend

-  Shore Street Cathment Boundary
- Contour (m)**
-  <10
-  10 - 30
-  31 - 50
-  51 - 70
-  >70

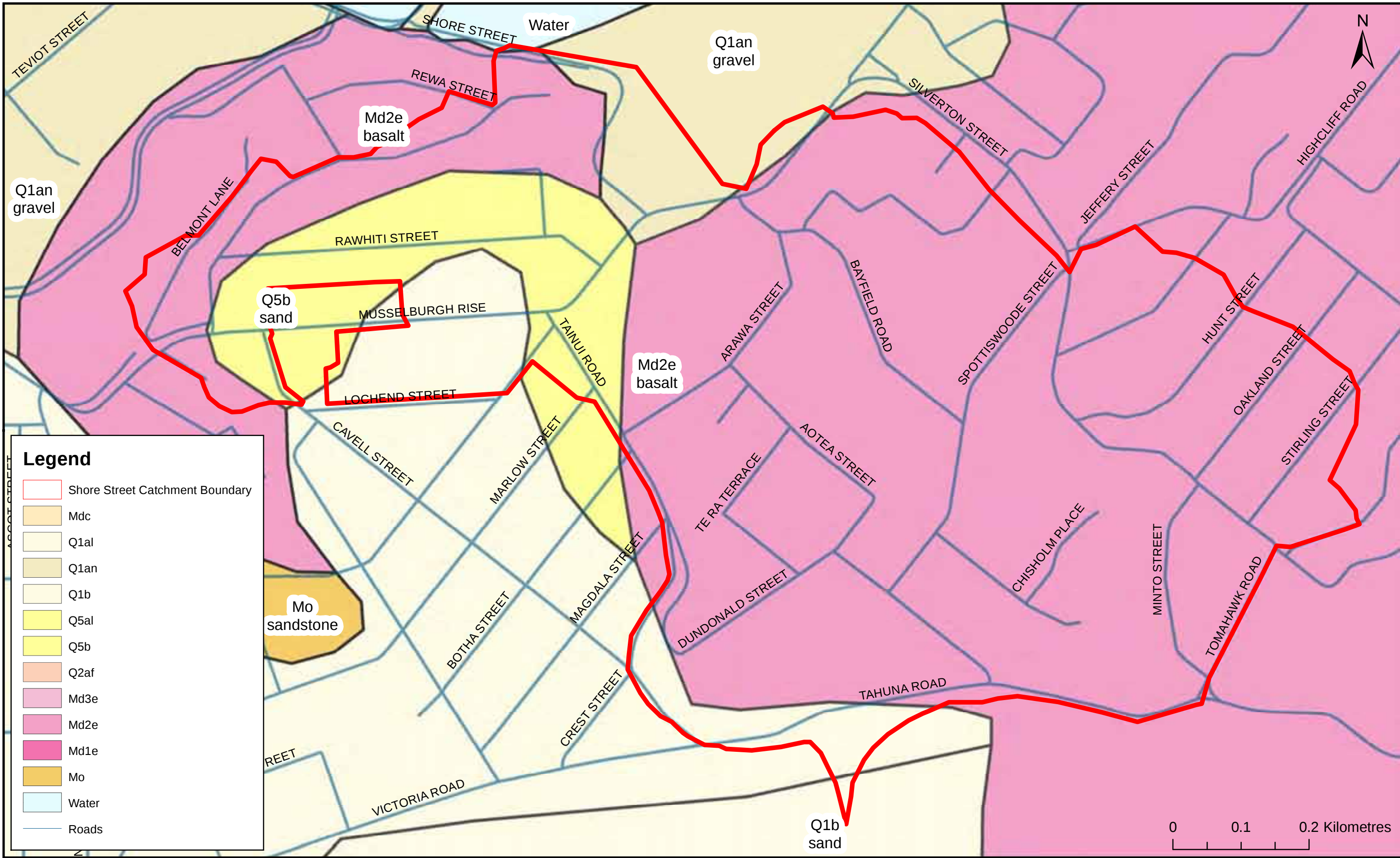
0 0.05 0.1 Kilometres

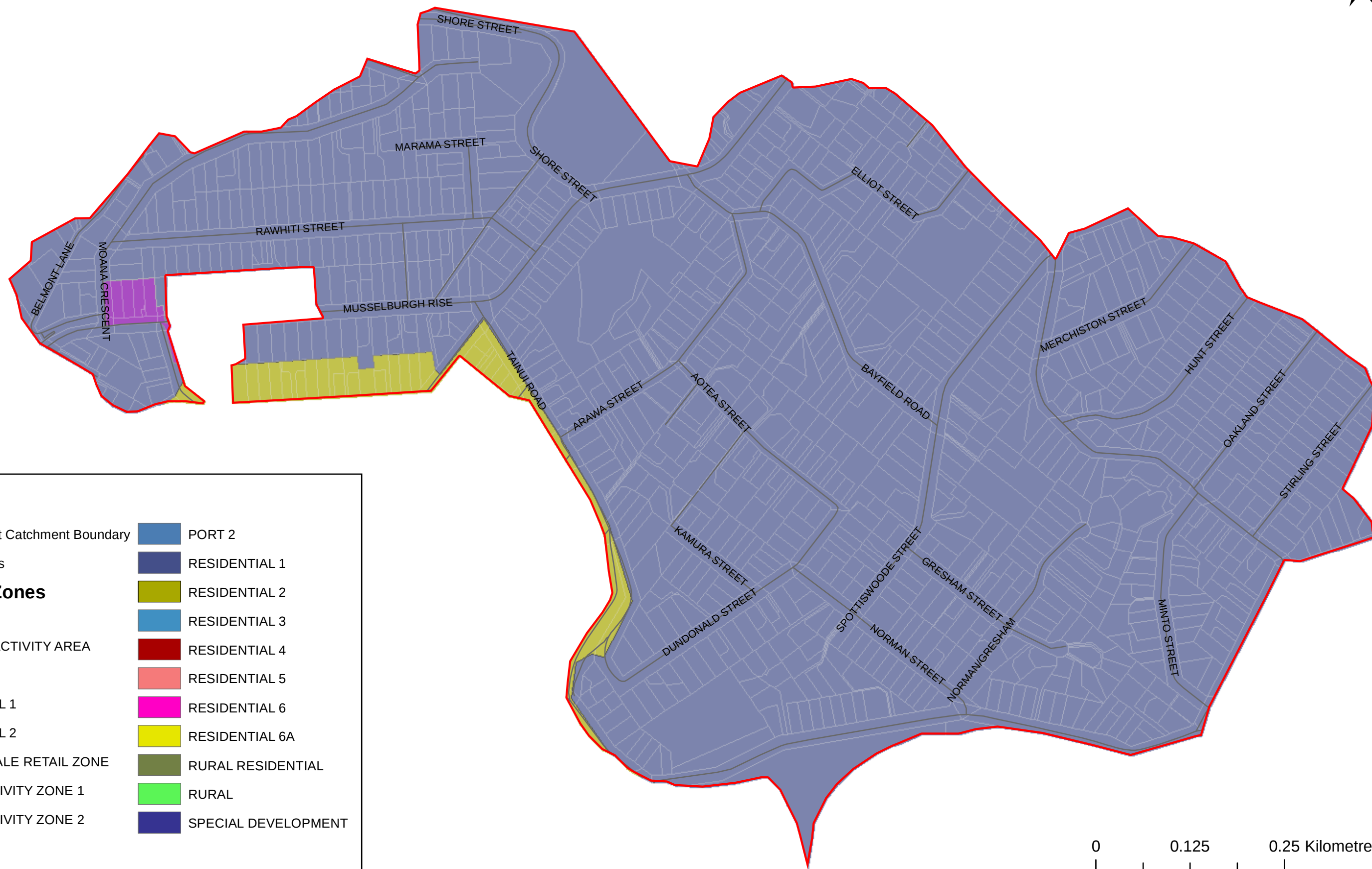


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Legend

- Shore Street Catchment Boundary
- Land Parcels
- District Plan Zones**
- Subzone**
- CENTRAL ACTIVITY AREA
- CAMPUS
- INDUSTRIAL 1
- INDUSTRIAL 2
- LARGE SCALE RETAIL ZONE
- LOCAL ACTIVITY ZONE 1
- LOCAL ACTIVITY ZONE 2
- PORT 1
- PORT 2
- RESIDENTIAL 1
- RESIDENTIAL 2
- RESIDENTIAL 3
- RESIDENTIAL 4
- RESIDENTIAL 5
- RESIDENTIAL 6
- RESIDENTIAL 6A
- RURAL RESIDENTIAL
- RURAL
- SPECIAL DEVELOPMENT

SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN

Figure 4-4

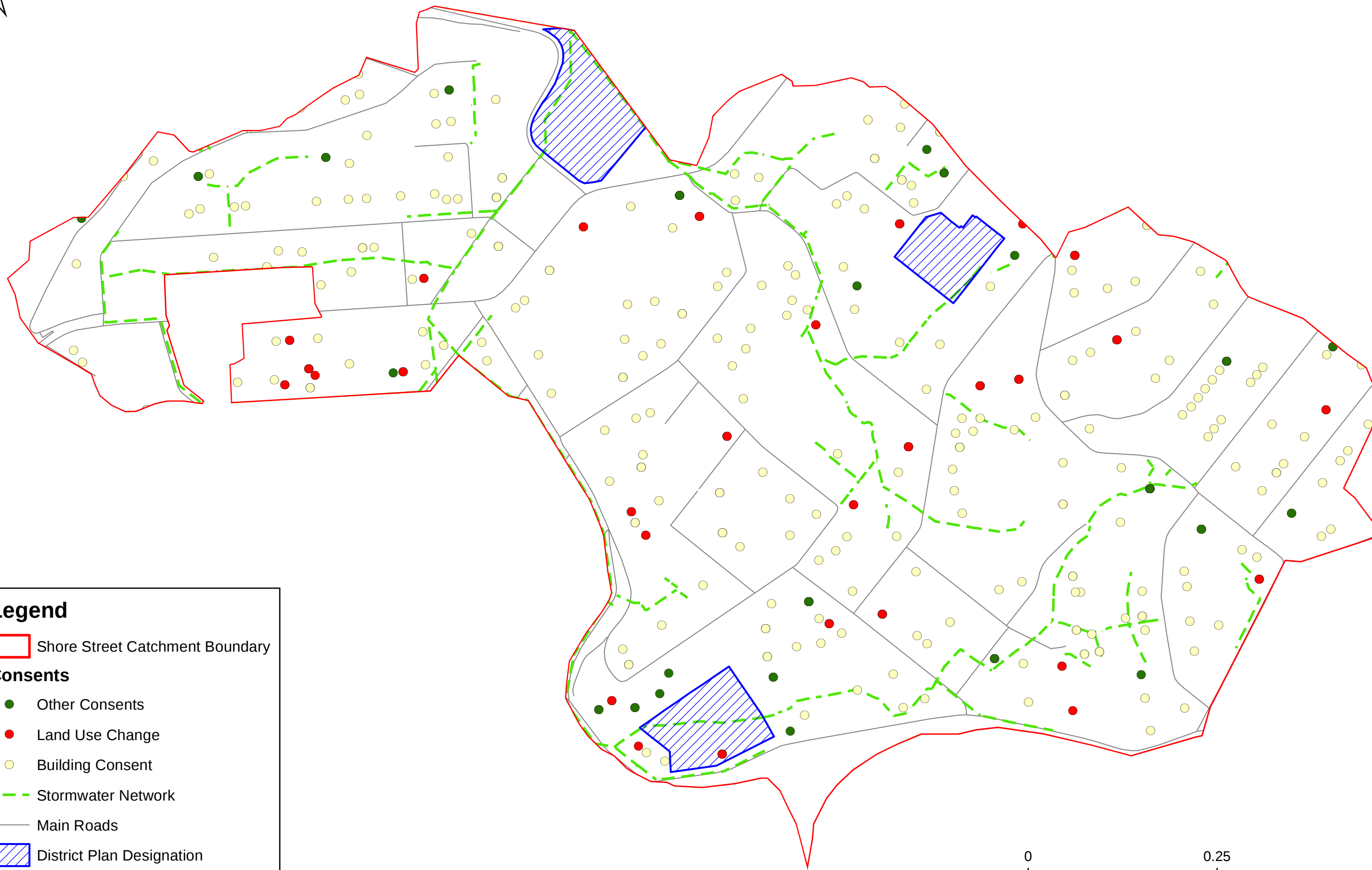
Shore Street Catchment Land Use Zones

DISCIPLINE
Stormwater

Drawn:	KC	Status:	Final	
Checked:	HES	Scale:	1:5,000	Plot Date: Sep 2011
Approved:	SDH	Job. No:	42173227	Map No:
Date:	Sep 2011			Revision: Figure 4-4 -



Dunedin 3 Waters Strategy



Legend

Shore Street Catchment Boundary

Consents

Other Consents

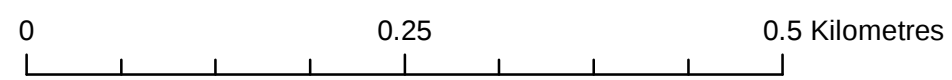
Land Use Change

Building Consent

Stormwater Network

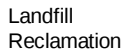
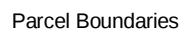
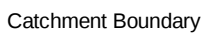
Main Roads

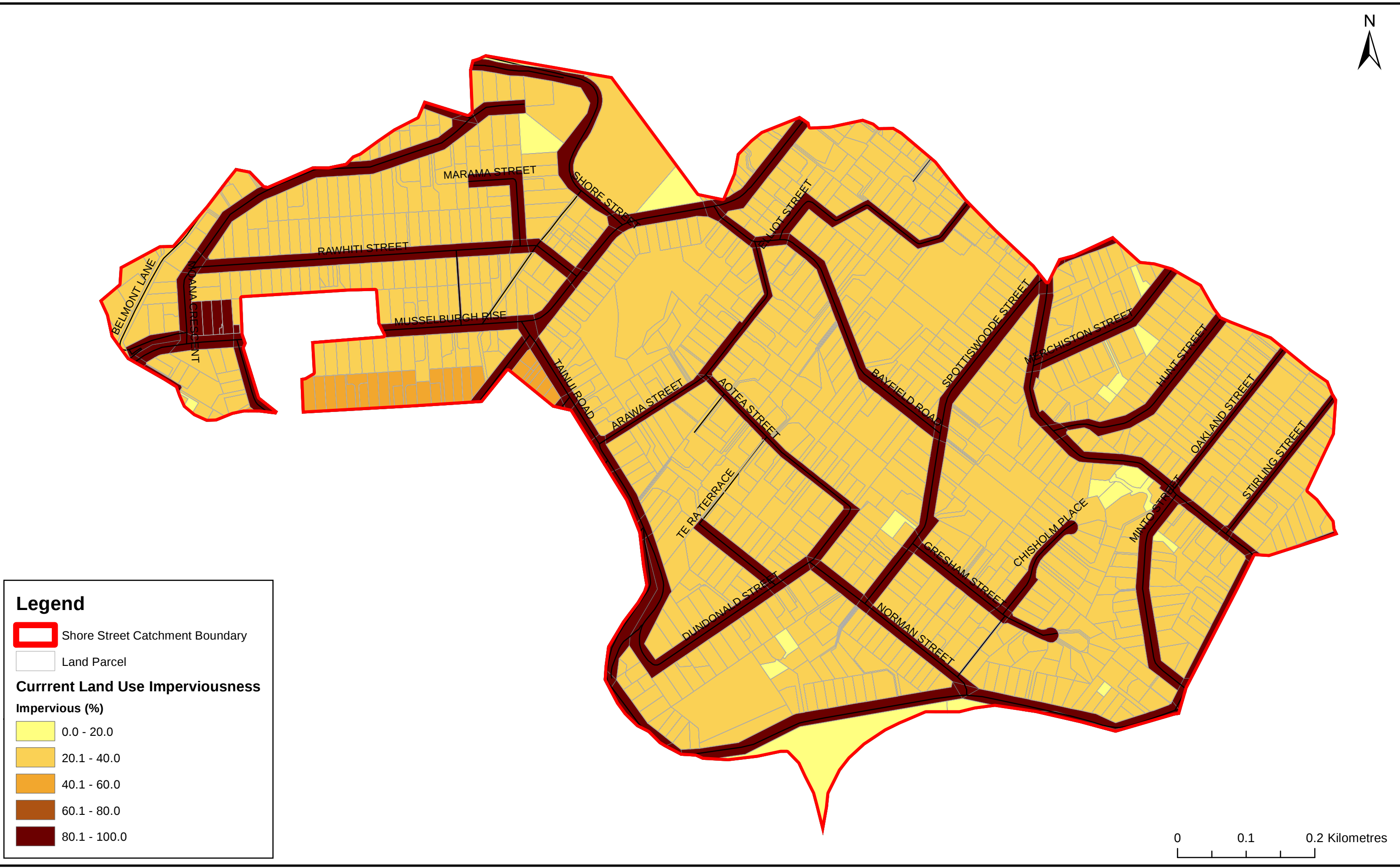
District Plan Designation



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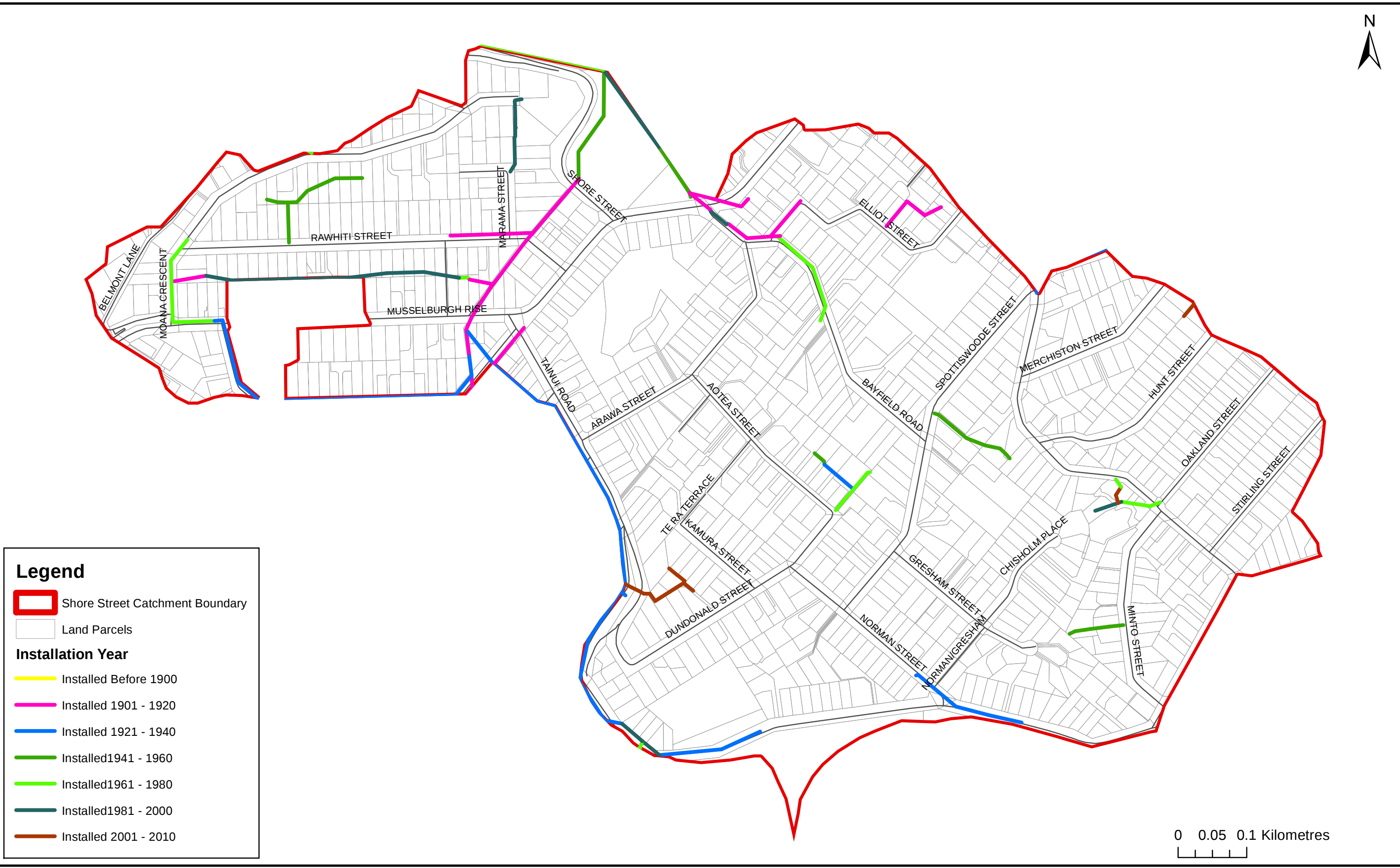
	Dunedin 3 Waters Strategy	SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN Figure 4-5 Shore Street Catchment Recent Consents and Designations	DISCIPLINE Stormwater	Drawn: KC	Status: Final		
				Checked: HES	Scale: 1:5,000	Plot Date: Sep 2011	
				Approved: SDH	Job. No:	Map No:	Revision:
				Date: Sep 2011	42173227	Figure 4-5	-

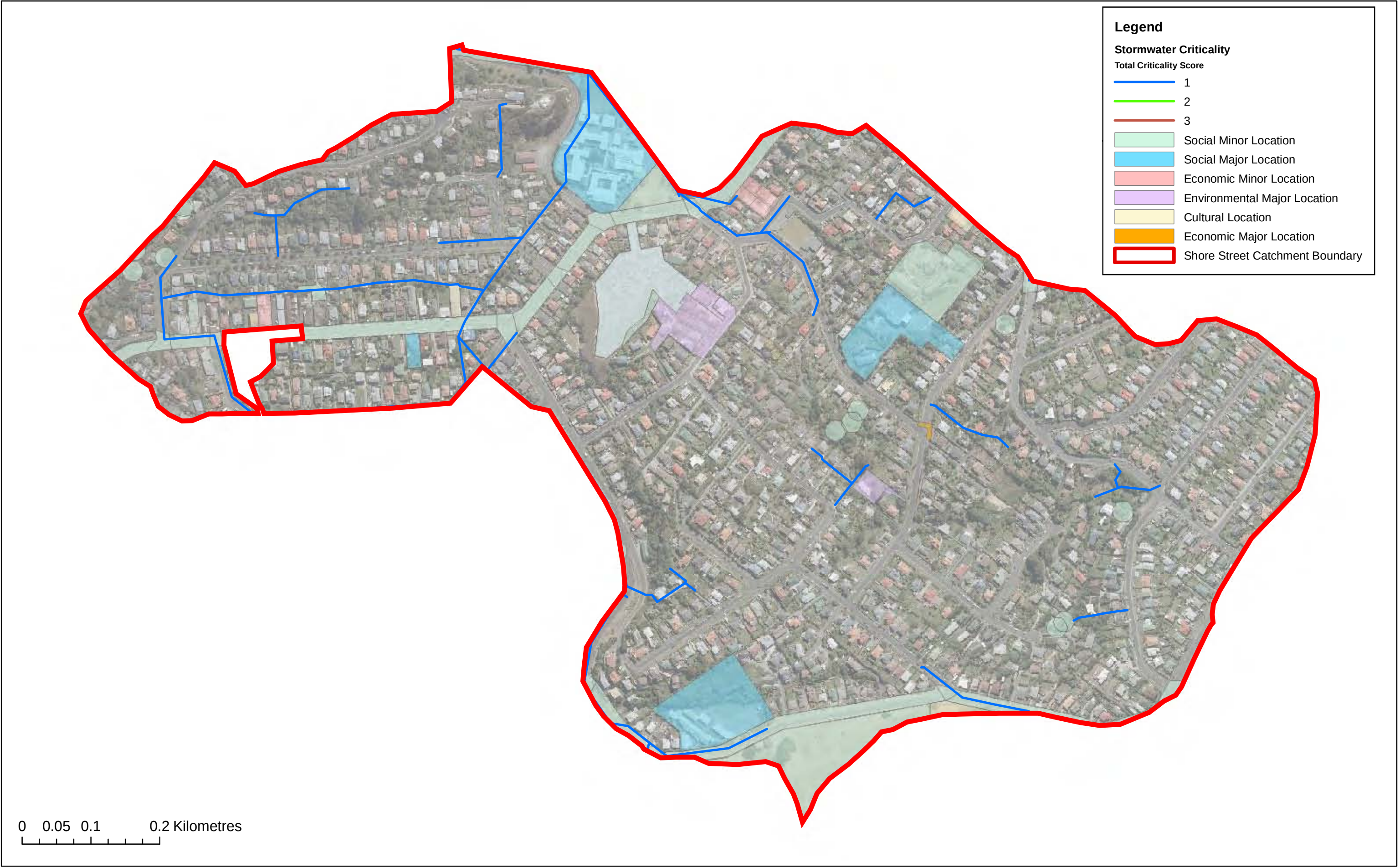




Legend

-  Shore Street Catchment Boundary
-  Land Parcel
- Current Land Use Imperviousness**
- Impervious (%)**
-  0.0 - 20.0
-  20.1 - 40.0
-  40.1 - 60.0
-  60.1 - 80.0
-  80.1 - 100.0





	Dunedin 3 Waters Strategy	SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN Figure 4-11 Shore Street Catchment Stormwater Network Criticality	DISCIPLINE Stormwater	Drawn: MM	Status: Final		
				Checked: HS	Scale: 1:5,000	Plot Date: Sep 2011	
				Approved: HS	Job. No:	Map No:	Revision:
				Date: Sep 2011	42173227	Figure 4-11	A



Legend

Shore Street Catchment Boundary

Stormwater Flooding Complaints

Year

Undated

2005

2006

2007

2008

2009

2010

Exact Location Known (Full Address)

Problem Description

Complaints

Floodgate Outlet Damaged

Pollution Spill

Stormwater Channel Screen Blocked

Stormwater Channel Screen Damaged

Stormwater Overflowing - Into my basement or garage

Stormwater Overflowing - Onto my property

Drain - Boundary trap overflow

Lamphole - Overflowing

Sewer Blocked

Sewer Collapsed

Sewer Leaking

Sewer Overflowing

Sewer Manhole - Overflowing

Exact Location Unknown (Road Name Only)

Problem Description

Complaint

Stormwater Channel Screen Blocked

Stormwater Channel Screen Damaged

Stormwater Overflowing - Into my basement or garage

Stormwater Overflowing - Onto my property

Sewer Blocked

Sewer Leaking

Sewer Overflowing

Sewer Manhole - Overflowing

Land Parcels

DUNEDIN CITY

COUNCIL

OPUS

URS

Engineering & Construction

1000

Dunedin 3 Waters Strategy

SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN

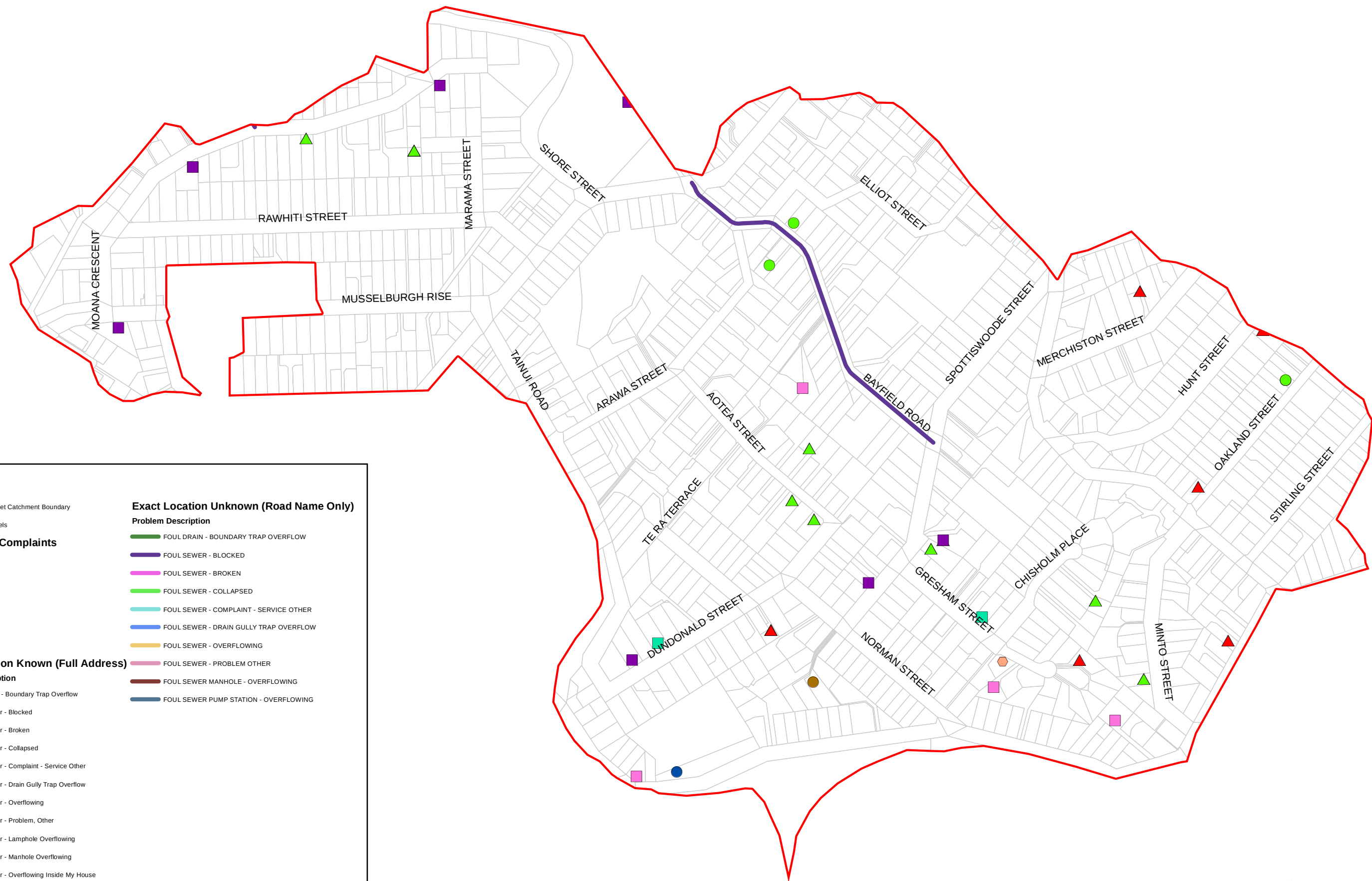
Figure 4-13

Shore Street Catchment Reported Stormwater Flooding

DISCIPLINE Stormwater	Drawn: CA	Status: Draft		
	Checked: HES	Scale: 1:5,000	Plot Date: April 2011	
	Approved: SDH	Job. No: 42173227	Map No: Figure 4-13	Revision: -
	Date: April 2011			

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Legend

Shore Street Catchment Boundary

Land Parcels

Wastewater Complaints

Year

2006

2007

2008

2009

2010

Exact Location Known (Full Address)

Problem Description

Foul Drain - Boundary Trap Overflow

Foul Sewer - Blocked

Foul Sewer - Broken

Foul Sewer - Collapsed

Foul Sewer - Complaint - Service Other

Foul Sewer - Drain Gully Trap Overflow

Foul Sewer - Overflowing

Foul Sewer - Problem, Other

Foul Sewer Manhole - Overflowing

Foul Sewer Pump Station - Overflowing

Exact Location Unknown (Road Name Only)

Problem Description

FOUL DRAIN - BOUNDARY TRAP OVERFLOW

FOUL SEWER - BLOCKED

FOUL SEWER - BROKEN

FOUL SEWER - COLLAPSED

FOUL SEWER - COMPLAINT - SERVICE OTHER

FOUL SEWER - DRAIN GULLY TRAP OVERFLOW

FOUL SEWER - OVERFLOWING

FOUL SEWER - PROBLEM OTHER

FOUL SEWER MANHOLE - OVERFLOWING

FOUL SEWER PUMP STATION - OVERFLOWING

SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN

Figure 4-14

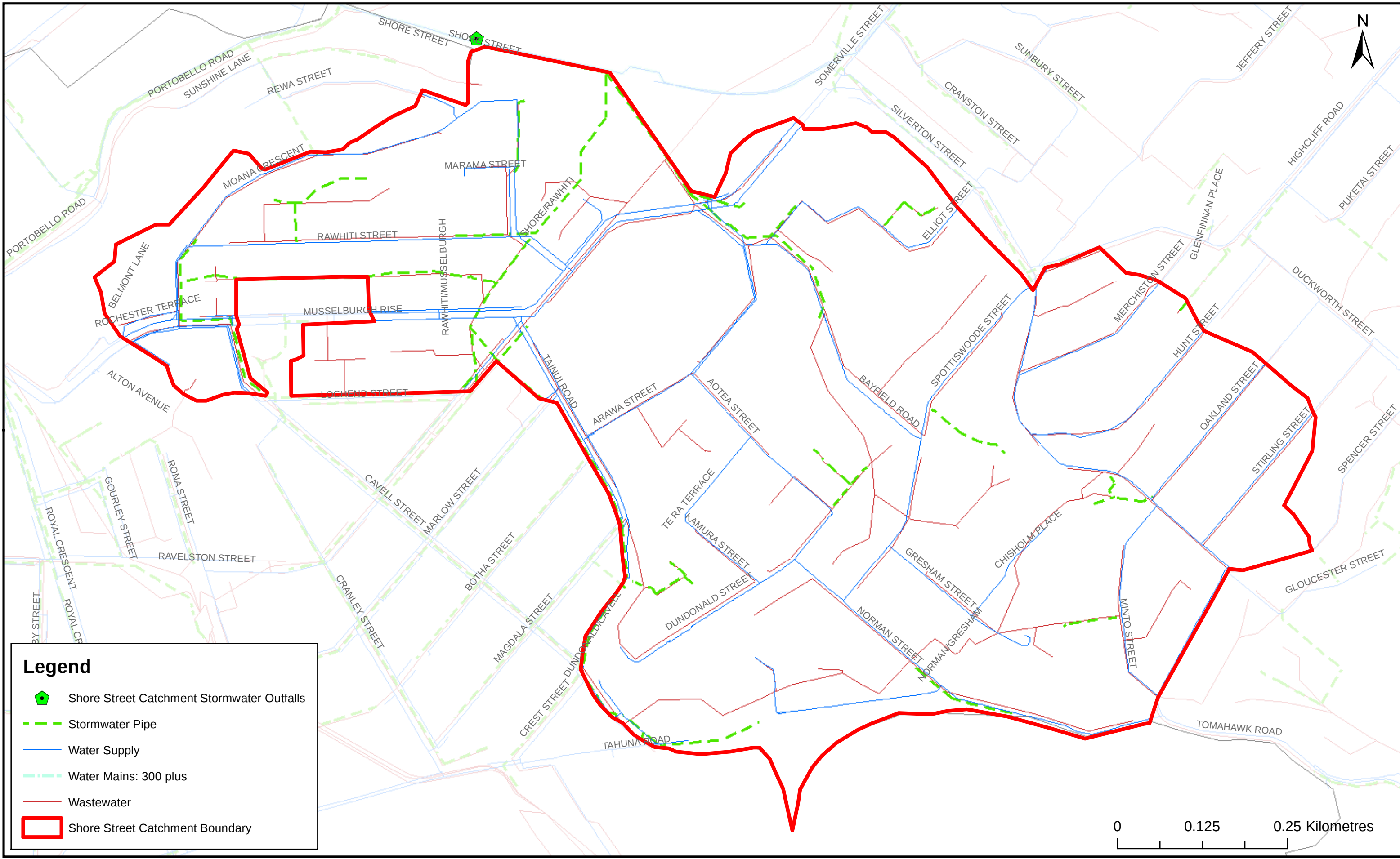
Shore Street Catchment Reported Wastewater Flooding

DISCIPLINE Stormwater	Drawn: KC	Status: Final		
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	Approved: SDH	Job. No: 42173227	Map No: Figure 4-14	Revision: -
	Date: Sep 2011			

Dunedin 3 Waters Strategy

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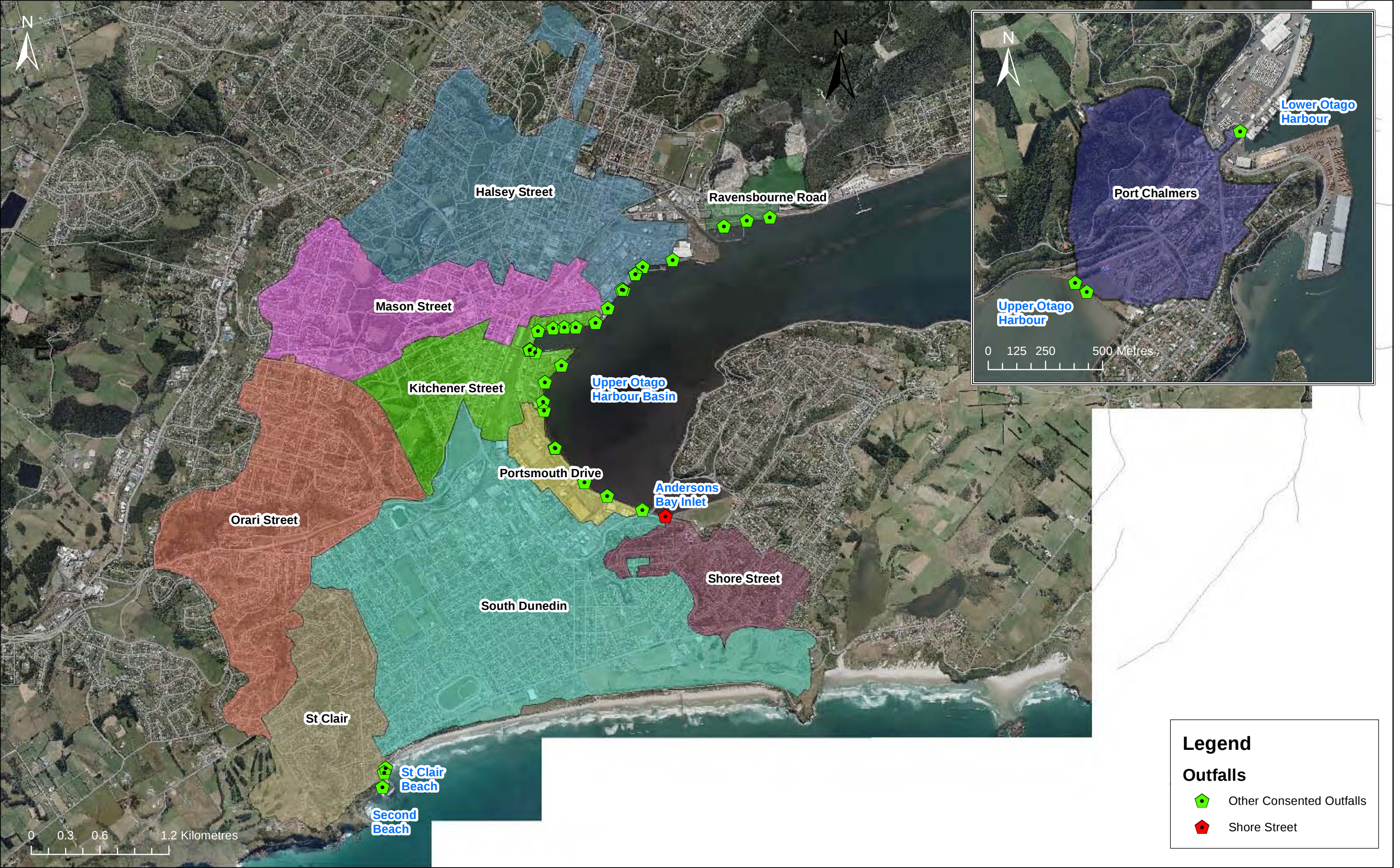


Dunedin 3 Waters Strategy

SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN
Figure 4-15
Shore Street Catchment Three Waters Networks

DISCIPLINE
Stormwater

Drawn: KC	Status: Final		
Checked: HES	Scale: 1:5,000	Plot Date: Sep 2011	
Approved: SDH	Job. No: 42173227	Map No: Figure 4-15	Revision: -
Date: Sep 2011			



Legend

Outfalls

Other Consented Outfalls

Shore Street

   URS Corporation 10000 North Central Expressway Suite 1000 Dallas, Texas 75243 Tel: 972.968.6000 Fax: 972.968.6001	Dunedin 3 Waters Strategy	SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN		DISCIPLINE	Drawn: MM	Status: Final			
		Figure 5-3	Shore Street Catchment Marine Receiving Environment		Checked: HES	Scale: 1:30,000	Plot Date: Sep 2011		
					Approved: HES	Job. No:	Map No:	Revision:	
					Date: Sep 2011	42173227	Figure 5-3	-	



Catchment

Shore Street Catchment Outfall

Modelled Pipe

Modelled Open Channel or Overland Flow

Pruned Pipe or Channel (not modelled)

Shore St catchment boundary

Dunedin 3 Waters Strategy

SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN

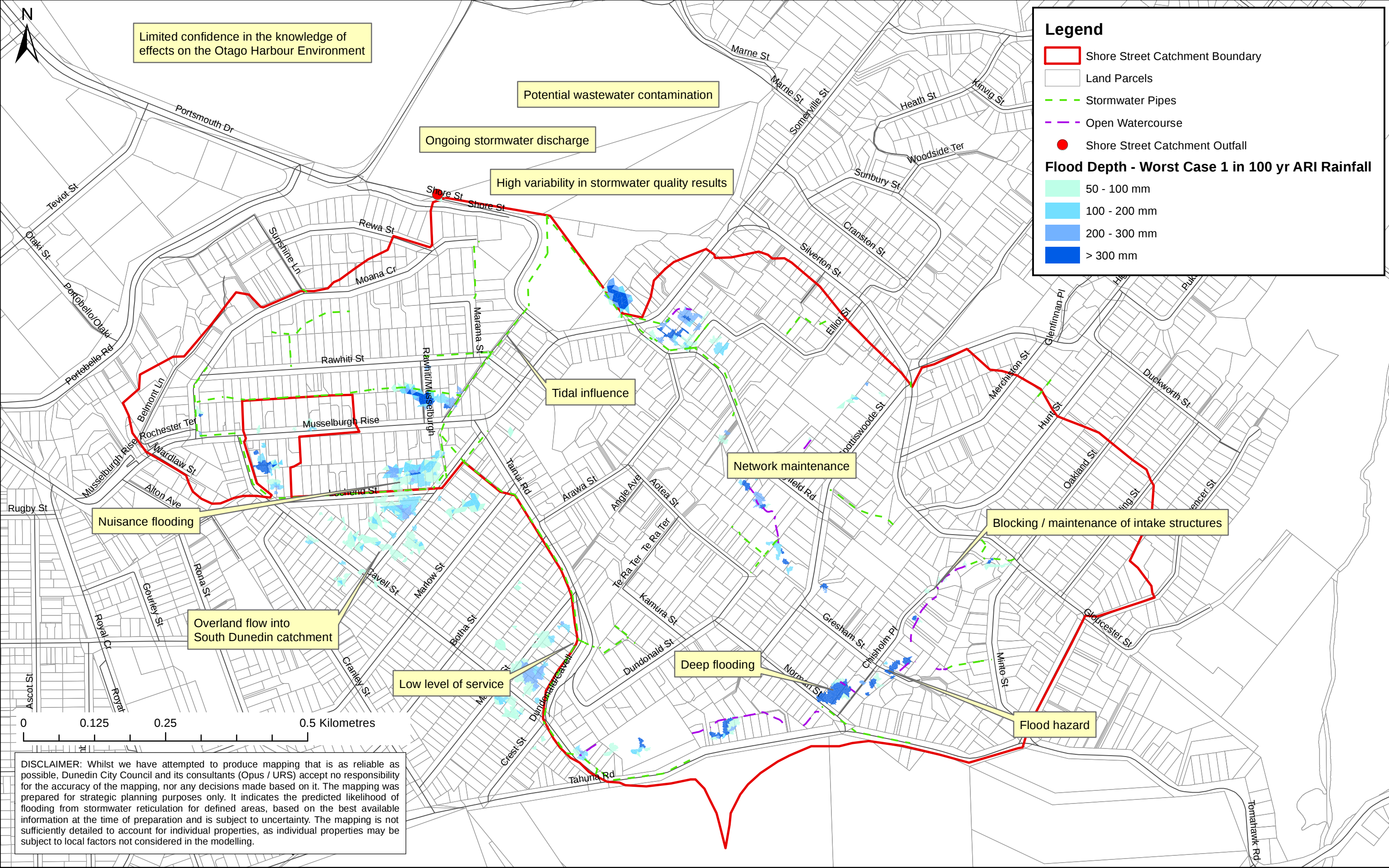
Figure 7-1

Model Extent

DISCIPLINE

Stormwater

Drawn:	CA	Status:	Draft	
Checked:	AB	Scale:	1:5,000	Plot Date:
Approved:	AB	Job. No:		Map No:
Date:	April 2011	42173227	-	Revision:
				A



   URS UNIVERSITY OF SOUTH AFRICA UNIVERSITY OF SOUTH AFRICA	Dunedin 3 Waters Strategy	SHORE STREET INTEGRATED CATCHMENT MANAGEMENT PLAN		DISCIPLINE Stormwater	Drawn: JMH	Status: Final		
		Checked: HS	Scale: 1:6,000		Plot Date: Sep 2011			
		Approved: HS	Job. No: 42173227		Map No: Fig 9-1	Revision: A		
		Date: Sep 2011						
		Shore Street Catchment Issues						