

RENEWED SURFACE WATER MANAGEMENT PROGRAM

UPDATE AUGUST 2020

BACKGROUND

The Shepparton Irrigation Region (SIR) Surface Water Management incorporates traditional earthen drainage networks and Drainage Course Declarations (DCD)s and enhancement of catchment environmental features. An earthen drain, either GMW Primary Drain or Community Drain, is described as a Surface Water Management System (SWMS) which are built to provide more efficient and effective drainage of excess surface water resulting from either irrigation or rainfall. SWMS's are designed to typical remove run-off from irrigated land resulting from a 50mm in 24 hour (50% AEP) rainfall event and convey it to a natural stream. Improved whole of catchment surface water management:

- prevents excessive waterlogging on productive agricultural land;
- reduces the amount of water contributing to shallow watertables rising (which also reduces salinisation risks); and
- protects the environment and civil assets including roads from damage caused by high watertables and surface water ponding.

WHAT HAS THE NEW PROGRAM ACHIEVED SO FAR?

The renewed SIR Surface Water Management Plan (SWMP) has delivered two GMW Primary Drain extensions, the Stanhope Depression Drain Stage 2 extension and the Mosquito Depression Drain 40 extension. The program has also completed the implementation of a Community Drain, the Muckatah 2/3P SWMS. An additional community drain, Muckatah 3/8P SWMS is currently in the final engagement stages for a formal GMW petition to own, construct and maintain.

Since DCDs were approved by the Minister for Water in 2019, the obstruction removal program in Cornella Creek Catchment DCD has been successfully completed and works are on track for completion in Upper Deakin DCD by late August 2020. The Guilfus Congupna DCD was also recently approved, and the DCD works program is scheduled to commence in spring 2020.

Farm drainage infrastructure will be provided in areas that are not prioritised for new SWMSs in conjunction with the Whole Farm Planning Program and Hybrid SWMSs.

Duplication of pipe in outfall property through the bank

UPPER DEAKIN DCD

Location	Between from the Tatura-Rushworth Road in the south-east to the Deakin Drain No. 16 outfall at McEwen Road (west of Stanhope).
DCD approved	16th April 2019
Number of landowners	112
DCD Length	22 km
Area covered by DCD	673 ha
Catchment area serviced	3,700 ha
Number of obstructions	46
Obstruction removal works	Commenced November 2019
Status	Works are currently 85% complete and are expected to be completed by August 2020.
Works included	Major and minor road crossing upgrades (including under boring and open trench methods), occupation crossing upgrades, GMW channel subways, outfall structure to connect DCD to Deakin Drain 16, cleaning and beaching of road crossings, farm channel subways, bank removal, rock ford crossings and cumbungi removal.



Site #44 Outfall After

Farm dam reinstatement

CORNELLA CREEK DCD

Location	Between Waranga Western Channel and Lake Cooper and Gaynor Swamp (north-east of Colbinabbin).
DCD approved	19th August 2019
Number of landowners	51
DCD Length	17 km
Catchment area serviced	43 km ²
Number of obstructions	7
Obstruction removal works	Commenced February 2020 Completed May 2020
Works included	Minor road crossing upgrades, occupation crossing upgrades and bank removal.



Site #14 completed works after rainfall event 1/05/2020

GUILFUS CONGUPNA DCD

Location	Between East Goulburn Main Channel and the two outfalls into Shepparton Drain 2/11 at Shepparton-Katamatite Road and Shepparton Drain 12 at Boundary Road (north-east of Congupna).
DCD approved	Approved in July 2020
Number of landowners	108
DCD Length	55 km
Area covered by DCD	7,467 ha
Catchment area serviced	34,767 ha
Number of obstructions	36
Obstruction removal works	Scheduled to commence in September 2020
Works included	Minor road crossing upgrades, occupation crossing upgrades, cleaning and beaching of road crossings, farm channel subway, bank removal, rock ford crossings and cumbungi removal.



PRIMARY SURFACE WATER MANAGEMENT SYSTEMS (SWMS) MOSQUITO DRAIN 40

Location	The Mosquito Drain 40 is an extension of the Mosquito Main Drain along the Dhurringile Depression. It commences at the end of the Mosquito Drain Stage 10, continues east across the Murchison-Tatura Road and ends within the Dhurringile Prison.
Length of drain	4.1 km
Area served	567 ha
Number of properties served	5
Works	Commenced January 2018 Completed February 2019
Works included	The completion of the Mosquito Depression Drain 40 completed the Mosquito Depression Drainage System, which includes approximately 87 km of Primary SWMS and 34 km of CSWMS.



STANHOPE DEPRESSION STAGE 2 EXTENSION

Location	West of Stanhope from north of the Midland Highway to Geodetic Road.
Length of drain	1.6 km
Area served	223 ha
Number of properties served	4
Works	Commenced April 2017 Completed December 2017
Works included	The completion of the Stanhope Depression Stage 2 extension.
	The Stanhope Depression Drainage System in the Lower Stanhope sub- catchment which covers an area of 1,250 ha and the drain length is now 13.6 km.
	The Stanhope Depression is a major drainage course within the Shepparton Irrigation Area with a total catchment area of 13,600ha. The catchment is made up of two parts – the Harston or Upper Stanhope sub-catchment and the Lower Stanhope sub-catchment.



COMMUNITY SURFACE WATER MANAGEMENT SYSTEMS (CSWMS) MUCKATAH 2/3P CSWMS

Location	Naringaningalook
Length of drain	4.6 km
Area served	630 ha
Number of properties served	6
Works	Commenced February 2019 Completed April 2019
Works included	Construction of 4,573.6 m of open earthen drain and various associated structures including combined road culverts and drainage inlets, drainage inlets, farm culverts and headwalls, diversion weirs, overflow sills and fencing.
	The drain traverses three roads, one of which is under VicRoads control and the two gravel roads under Moira Council control.



