



EXAMPLE 1

FULL GRAVITY DRAWDOWN CAPABILITY IS VIABLE WHERE THE IL OF THE RECEIVING WATERS IS EQUAL TO OR LOWER THAN THE OUTLET POOL IL.

EXAMPLE 2

PARTIAL GRAVITY DRAWDOWN CAPABILITY IS AVAILABLE WHERE THE IL OF THE RECEIVING WATERS ARE HIGHER THAN THE OUTLET POOL IL, HOWEVER STILL BELOW THE NWL (600MM MIN*) ALLOWING FOR PARTIAL GRAVITY DRAWDOWN VIA THE GATE VALVE. VEHICULAR ACCESS TO THE PIT IS REQUIRED FOR PUMP DELIVERY. THIS PUMP REMOVES THE REMAINING WATER FROM THE WETLAND THAT COULDN'T BE DRAINED BY GRAVITY.

EXAMPLE 3

NO GRAVITY DRAWDOWN OCCURS WHEN THE RECEIVING WATERS ARE AT OR JUST BELOW THE NWL. IN THIS INSTANCE A GATE VALVE IS NOT REQUIRED. VEHICULAR ACCESS TO THE PIT IS REQUIRED FOR PUMP DELIVERY. THIS PUMP DRAWS DOWN THE WETLAND AS IT CANNOT BE DRAINED BY GRAVITY.

NOTE:

- REFER TO 7251/12/006 FOR TWIN CHAMBER OUTFALL PIT DETAIL.
- THE SUBMERGED OFFTAKE PIT IN CONNECTING TO THE TWIN CHAMBER OUTFALL PIT CONJUNCTION WITH THE BALANCE PIPES AND TWIN CHAMBER OUTFALL PIT ARE INTEGRAL FOR CONTROLLING THE EDD AND PROVIDE EFFECTIVE DRAWDOWN CAPABILITY.
- THE TWIN CHAMBER OUTFALL PIT AVOIDS MULTIPLE PUMPING POINTS, DISTURBANCE OF VEGETATION, PUMP RELOCATION, HEALTH AND SAFETY ISSUES, MAINTENANCE, TIME AND COST, SHOULD FULL GRAVITY DRAWDOWN NOT BE AVAILABLE .
- *600MM IS COMPRISED OF 50MM CLEARANCE FROM FLOOR + (2 X 80MM FLANGE WIDTH) + (2 X 40MM PIPE WALL THICKNESS) + 300MM PIPE DIAMETER = 590MM (ROUNDED UP TO 600MM).
- THE LENGTH OF PIPE BETWEEN THE SUBMERGED OFFTAKE PIT CONNECTING INTO THE TWIN CHAMBER OUTFALL PIT MUST BE WATERTIGHT IN ACCORDANCE WITH AS/NZS4058.2007. PIPE MUST BE RUBBER RING JOINTED WITH A SEAL ABLE TO MEET 90kPa OF PRESSURE AND CONTAIN LIFTING LUGS (NO LIFTING HOLES).

**CONCEPT ONLY
NOT TO SCALE**

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| | | | | | | | | | | TITLE OUTFALL EXAMPLE TYPE 7 DRAWDOWN OPTIONS SHEET 1 OF 1 | | | |
| | | | | | | DRAFTER DRAFTING CHECK | | DESIGNER ENGINEERING REVIEW | | DESIGN MANAGER APPROVAL | | PROJECT MANAGER APPROVAL | |
| | | | | | | PROJECT DATUM | | Original Size | | MELBOURNE WATER CORPORATION | | | |
| | | | | | | SCALE | | | | 7251/12/4019 | | A | |
| | | | | | | CODE | | MWC DRAWING NUMBER | | REV | | | |