NOTES:

1. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METERS ABOVE ORDNANCE DATUM.

2. DO NOT SCALE FROM THIS DRAWING.

3. ANY ANOMALIES IDENTIFIED WITH THE DETAILS SHOWN ON THIS DRAWING ARE TO BE BROUGHT TO THE ATTENTION OF SIRIUS ENVIRONMENTAL LIMITED PRIOR TO CONSTRUCTION WORKS COMMENCING.

4. INVERT LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION BY SIRIUS ENVIRONMENTAL ONCE UP TO DATE OGL SURVEY HAS BEEN RECEIVED.

LEGEND:

- 18.5 — EXISTING SITE SURVEY
- 19.5 — PROPOSED RESTORATION CONTOURS
- EXISTING CAP DIVERSION BUND
- EXISTING GRAVEL DRAIN
- SURFACE WATER DITCH
- EXISTING LAGOON
- EXISTING WETLAND TO BE RETAINED
- PROPOSED 0.5m CAP DIVERSION BUND
- PROPOSED PIPEWORK
- PROPOSED CONCRETE SANDBAG HEADWALL
- PROPOSED MANHOLE CHAMBER

IL : 169.500mAOD
CL : 170.000mAOD

SURFACE WATER DITCH TO DISCHARGE INTO SURFACE WATER LAGOON
IL : 165.500mAOD
CL : 166.000mAOD

EXISTING SURFACE WATER ATTENUATION LAGOON. SURFACE WATER LAGOON TO PROVIDE 2,963m³ OF ATTENUATION STORAGE
IL : 163.500mAOD
CL : 165.000mAOD

1.001/SURFACE WATER DITCH 500mm WIDE BASE X 500mm DEEP WITH A MINIMUM 1:250 FALL

2.000/SURFACE WATER DITCH 500mm WIDE BASE X 500mm DEEP WITH A MINIMUM 1:250 FALL

FLOW TO BE RESTRICTED FROM THE LAGOON VIA A 200mm ORIFICE OR SIMILAR TO PROVIDE MAX OUTFLOW RATE OF 58.9l/s

EXISTING DITCH TO BE CLEARED AND RECUT WITH 1:2 SIDE SLOPES DITCH TO BE 500mm x 500mm

PIPE 1.002/225mmø/1:225
UPSTREAM
IL : 163.500mAOD
CL : 165.000mAOD
DOWNSTREAM
IL : 163.462mAOD
CL : 165.000mAOD

EXISTING SURFACE WATER DITCH TO DISCHARGE INTO SURFACE WATER LAGOON
IL : 163.500mAOD
CL : 164.000mAOD

EXISTING SURFACE WATER ATTENUATION LAGOON. SURFACE WATER ATTENUATION LAGOON TO PROVIDE 1,725m³ OF ATTENUATION STORAGE.
IL : 162.100mAOD
CL : 163.500mAOD

EXISTING 225mm CULVERT
PIPE 1.003
FLOW RESTRICTED BY 170mm ORIFICE
IL : 162.400mAOD
CL : 164.000mAOD

1.000/DITCH 500mm WIDE BASE X 500mm DEEP WITH A MINIMUM 1:250 FALL

Drain

1.004/EXISTING 500mm X 500mm SURAFCE WATER DITCH THROUGH WETLAND AREA

IL : 165.500mAOD
CL : 166.000mAOD

IL : 174.000mAOD
CL : 174.500mAOD

Collects
SURFACE WATER DITCH 500mm X 500mm
IL : 174.500mAOD
CL : 175.000mAOD

SURFACE WATER DITCH 500mm X 500mm
IL : 166.370mAOD
CL : 166.870mAOD

EXISTING WETLAND AREA TO REMAIN UNTOUCHED AS PART OF THE SURFACE WATER SYSTEM DUE TO ECOLOGY AND PREVIOUS DISCUSSIONS IN REGARD THIS AREA

4.000/SURFACE WATER DITCH 500mm x 500mm

5.000/SURFACE WATER DITCH 500mm x 500mm

SURFACE WATER ATTENUATION LAGOON TO PROVIDE 2,625m³ OF ATTENUATION STORAGE
IL : 163.250mAOD
CL : 166.000mAOD

NEW 300mm CULVERT TO BE FITTED WITH CONCRETE SANDBAG HEADWALL. PIPEWORK TO FALL AT A MINIMUM OF 1:225 WITH A 160mm ORIFICE PLATE
IL : 163.250mAOD
CL : 166.000mAOD

1200mm PRECAST CONCRETE MANHOLE CHAMBER
COVER LEVEL : 162.000mAOD
BASE LEVEL : 162.581mAOD
INCOMING PIPE IL : 162.917mAOD
OUTGOING PIPE IL : 162.881mAOD

EXISTING DITCH AND MINE ADIT COLLECTING LANDFILL AND OFFSITE FLOWS

EXISTING 300mm CULVERT
IL : 164.500mAOD
CL : 165.400mAOD

3.002/225mmø/1:33

SURFACE WATER ATTENUATION LAGOON TO PROVIDE 894m³ OF ATTENUATION STORAGE
IL : 164.500mAOD
CL : 165.400mAOD

1200mm PRECAST CONCRETE MANHOLE CHAMBER WITH ISOLATION VALVE
COVER LEVEL : 162.000mAOD
BASE LEVEL : 160.921mAOD

Ex. 300mm CULVERT

Ex. 300mm CULVERT

EXISTING CAP DEFLECTION BUND

EXISTING CAP DEFLECTION BUND

WETLAND AREA TO DISCHARGE INTO SURFACE WATER ATTENUATION LAGOON DIRECTLY TO THE SOUTH OF THE AREA VIA EXISTING 300mm TWINWALL CARRIER PIPE
UPSTREAM
IL : 159.864mAOD
CL : 162.000mAOD
DOWNSTREAM
IL : 159.830mAOD
CL : 160.500mAOD

EXISTING SURFACE WATER ATTENUATION LAGOON TO PROVIDE 2,420m³ OF ATTENUATION STORAGE
IL : 164.000mAOD
CL : 165.840mAOD

6.001/300mm/1:14

NEW 300mm CULVERT WITH CONCRETE SANDBAG OUTLET HEADWALL. PIPEWORK WITH A 240mm ORIFICE PLATE
IL : 164.000mAOD
CL : 166.000mAOD

EXISTING SURFACE WATER ATTENUATION LAGOON TO PROVIDE 255m³ OF ATTENUATION STORAGE
IL : 159.600mAOD
CL : 160.500mAOD

IL :159.600mAOD

EXISTING 500mm CULVERT
PIPE 1.005/500mmø/1:154

1200mm PRECAST CONCRETE MANHOLE CHAMBER WITH PENSTOCK VALVE
COVER LEVEL : 162.055mAOD
BASE LEVEL : 162.295mAOD
INCOMING PIPEWORK : 161.300
OUTGOING PIPEWORK : 160.100mAOD

OUTLET 1
MAXIMUM OUTFALL DISCHARGE RATE FOR THE 1% ANNUAL EXCEEDANCE PROBABILITY EVENT WITH CLIMATE CHANGE ALLOWANCE TO BE 380.1l/s WHICH IS BELOW THE GREENFIELD RATE FOR THE Q100 FOR THE SITE AREA.

EX. GRAVEL TRAP

EX. GRAVEL TRAP

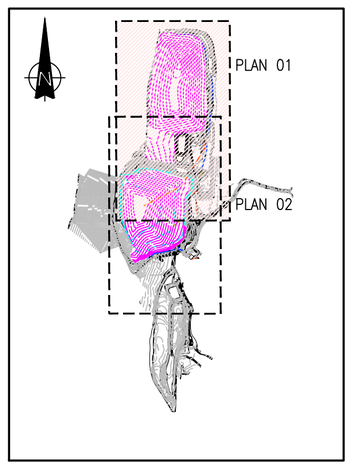
GRAVEL TRAP

EXISTING CAP DEFLECTION BUND

Upper Clydach River

Drain

REV	DESCRIPTION	DATE	BY
1	MINOR AMENDMENTS	23.11.23	MCC



CLIENT

FCC Environment

Sirius Environmental

4245 Park Approach, Thorpe Park, Leeds. LS15 8GB. 0113 264 9960

JOB TITLE

PWLLFAWATKIN SWM

DRAWING TITLE

Proposed Landfill Surface Water Drainage General Arrangement

DRAWN	DATE	APPROVED	DATE
M.C	10/11/2023	J.D	10/11/2023

SCALE	SHEET	DRAWING NUMBER	REVISION
1:1000	1	WR7470 02 01	1