

**SORENSEN**

## Monthly Site Environmental Audit

SPILL CONTROL  
OIL  
ABSORBENT  
GRANULES

INVASIVE  
PLANT  
SPECIES  
AREA



## Glanmire Flood Relief Scheme

04/03/24 To 27/03/24

## ENVIRONMENTAL AUDIT

Details			
<b>Project:</b>	Glanmire Flood Relief Scheme		
<b>Auditor:</b>	SD/LD	<b>Audit Period:</b>	March
<b>Locations Audited:</b>	All sites.		

**Week Commencing 4<sup>th</sup> March****Comments/Observations**

- Gullies cleaned out in Meadowbrook after silt control issues, raised in Env Tour 007. (Photo 1)
- Trees at Circus Field Compound and Copper Valley Vue surveyed for nesting birds prior to felling/delimbing.
- Erosion control, coir-mesh, placed at Cuil Chluthair.
- Signage implemented for Otter holts N2, N6C, N6D and couch C2. (Photo 2)
- Kingfisher monitoring underway – no sightings (Meadowbrook)
- No evidence of activity (prints, spraint) at holt N6C.
- Designated concrete wash area set up in Circus Field.
- Silt fencing installed both sides of Glenmore stream at the Copper Valley Vue works site.
- Good use of absorbent pads under generators observed. (Photo 3)
- High winds exposed a section of the contaminated material from POD Yard, stockpiled in Sallybrook, this was recovered the following morning (Photo 4)
- Environmental Tour 008 07/03/24 – Key findings:
  - Timber hoarding to be installed @ Meadowbrook as per otter derogation license – installation commenced 07/03/24 (ongoing – Photo 5).
  - Erosion control required at Copper Valley – installed 12/03/24.
  - Lower water level of J. knotweed wheel wash – completed 12/03/24. (Photo 6)
  - Good use of absorbent matting under generators observed.
- Permit to pump water issued to crew at New Line – 2” pump – dewatering excavation. Closed.

**Week Commencing 11<sup>th</sup> March****Comments/Observations**

- Turbidity/TSS correlation equation completed for 2024 instream works.
- Erosion control, coir-mesh, placed at Copper Valley Vue bridge.
- Concrete poured at Funeral Home site – pumped groundwater monitored at discharge point; pH remained neutral – no impact from concrete on groundwater.

## ENVIRONMENTAL AUDIT

- River levels monitored during status orange weather event rain/wind. Removal of silt mitigation equipment from Sallybrook attenuation area not required – low risk of river overtopping temporary sheet piles. Attenuation area observed to collect “milky” waters from Yard drainage lines. (Photo 7)
- Good use of absorbent pads under generators observed. (Photo 8)
- Kingfisher monitoring underway – no sightings (Meadowbrook)

**Week Commencing 18<sup>th</sup> March****Comments/Observations**

- Good use of absorbent pads under generators observed.
- Permit to pump water issued to crew at Copper Valley – 6” pump – foul line works. Active.
- Environmental Tour 009 21/03/24 – Key findings:
  - Housekeeping needs improvement at Copper Valley works.
  - Continue to assess Copper Valley pumped water quality and adjust discharge point as required.
- Kingfisher monitoring underway at Meadowbrook – no sightings. A Eurasian wren, *Troglodytes troglodytes*, was observed entering a burrow in the bank multiple times on 21/03/24. (Photo 9)

**Week Commencing 25<sup>th</sup> March****Comments/Observations**

- River turbidity baseline calculated.
- Turbidity/TSS correlation equation updated to account for more recent sample results.
- Concrete poured at Funeral Home site – pumped groundwater monitored during and after pour; pH remained neutral – no impact from concrete on groundwater. (Photo 10 & 11)
- Kingfisher monitoring underway – no sightings (Meadowbrook)
- Permit to pump issued to crew at Meadowbrook – 4” pump – drainage works. Silt dewatering bag was fitted but failed to contain silt, a second green silt sock was immediately inserted inside the dewatering bag achieving sufficient silt control. Active. (Photo 12)
- Pump discharge point changed to an open and vegetated area at Copper Valley – waters running clean.
- Kingfisher monitoring underway – no sightings (Meadowbrook).

**Ecological Licences Schedule****GFRS – Ecological Licences**

<b>ECOLOGICAL FEATURE</b>	<b>LICENCE TYPE</b>	<b>STATUS</b>	<b>START DATE</b>	<b>EXPIRY DATE</b>
<b>Badgers</b>	Derogation	Not Required	N/A	N/A
<b>Bats</b>	Derogation	Not Required	N/A	N/A
<b>IAPS</b>	Transport - JKW	Active	02/01/2024	31/06/2024
<b>Otters</b>	Derogation	Active – Holts N2 & N6	22/02/2024	31/12/2024
<b>Otter</b>	Photograph/Film Wild Animals	Active	01/04/2024	31/10/2024



Action	Assigned to	Action Close Out Date
Housekeeping – Copper Valley	DC	12/04/24
Water Quality monitoring – Copper Valley & Funeral Home sites	SD	Ongoing

April Look Ahead	
Area	Activity/Sensitive Feature
Sallybrook/Eurofins	Clay bund (weather permitting) – Japanese knotweed. Sheet piling (awaiting VEP approval) – noise/vibration. Outfall (Eurofins) – silt control
Grandon's	Drainage – contaminated material
Funeral Home	RC wall – ground/surface water management (ongoing)
Meadowbrook	Outfall – pumping as outfall design doesn't work
Copper Valley	Drainage line – ground/surface water management (ongoing)
New Line	Foul line – ground/surface water management (ongoing)

Audit Acceptance/Sign-Off	
Auditor Signature	Site Representative Signature
S. Dale L. Dolan	M. Snow

**Space provided on following pages for Figures**

**Photo 1**

**Caption 1**   **Section**   **W/C 04/03/24**

Gully cleaned out in Meadowbrook.

**Photo 2**

**Caption 2**   **Section**   **W/C 04/03/24**

Signage erected for otter holts N6C&amp;D

**Photo 3**

**Caption 3**   **Section**   **W/C 04/03/24**

Oil absorbent pad in use under generator.

**Photo 4**

**Caption 4**   **Section**   **W/C 04/03/24**

Contaminated material recovered after strong winds.



**ENVIRONMENTAL AUDIT**
**Photo 5**

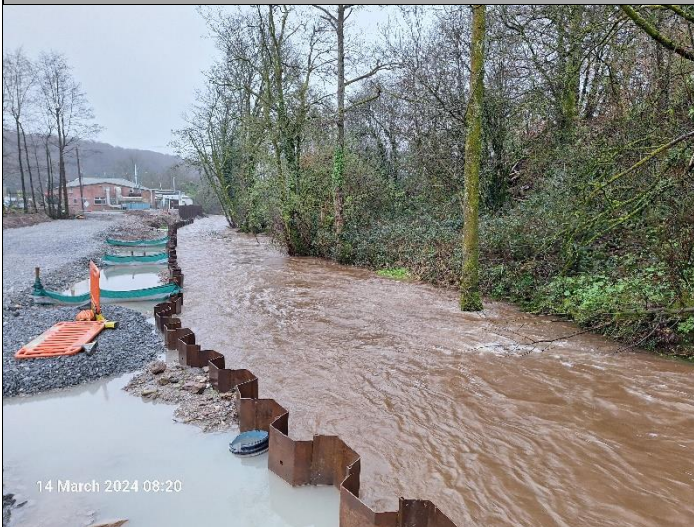
**Caption 5**   **Section**   **W/C 04/03/24**

Timber hoarding being erected for otter holts N6C and N6D.

**Photo 6**

**Caption 6**   **Section**   **W/C 04/03/24**

Water level lowered in the J. knotweed wheel wash.

**Photo 7**

**Caption 7**   **Section**   **W/C 11/03/24**

River level monitored during heavy rainfall event – low risk of overtopping observed.

**Photo 8**

**Caption 8**   **Section**   **W/C 11/03/24**

Drip tray in use under generator.



Photo 9



Caption 9    Section    W/C 18/03/24

Wren standing in the entrance to a potential kingfisher burrow.

Photo 10



Caption 10    Section    W/C 25/03/24

Concrete pour at Funeral Home site.

Photo 11



Caption 11    Section    W/C 25/03/24

pH testing of potentially receiving waters during the concrete pour at Funeral Home site – no adverse impact observed to groundwater during pumping activity.

Photo 12



Caption 12    Section    W/C 25/03/24

Water running clean at Meadowbrook after initial issues with silt mitigation rectified by adding a silt sock inside the silt dewatering bag.

## Photo 13

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## Discharge Water Quality Monitoring – March 2024 (GFRS)

DATE	LOCATION	TIME	TURBIDITY	pH	SIGNS OF EROSION?	SIGN OF OILS/GREASE?	COMMENT
01/03	SALLYBROOK	9:00	21.01	7.74	no	no	
	Meadowbrook	12:30	6.31	7.64	no	no	
* Correlation	MEADOWBROOK	12:45	30.7	—	—	—	Correlation
05/03	SALLYBROOK	11:00	5.02	7.33	no	no	
* Correlation	Meadowbrook	16:00	9.31	—	—	—	Correlation
* 06/03	Meadowbrook	13:00	11.18	—	—	—	Correlation
07/03	F. Home	8:15	11.2	7.41	no	no	Before concrete pour
	F. Home	15:45	8.78	7.16	no	no	After concrete pour
* Correlation	Meadowbrook	16:15	44.4	—	—	—	Correlation
08/03	F. Home	13:00	7.20	7.21	no	no	
11/03	F. Home	13:30	7.32	7.11	no	no	
12/03	F. Home	9:30	2.66	7.38	no	no	Concrete being poured
	F. Home	11:00	2.11	7.34	no	no	
* 13/03	SALLYBROOK	14:30	12.04	—	—	—	River Baseline
	F. Home	15:05	6.12	7.32	no	no	
* 14/03	Meadowbrook	8:15	83.2	—	—	—	River Baseline
	F. Home	15:45	19.1	7.33	no	no	Heavy rainfall
15/03	F. Home	9:15	6.01	7.31	no	no	
19/03	F. Home	15:30	12.2	7.64	no	no	
20/03	F. Home	16:00	6.10	7.54	no	no	
21/03	F. Home	10:05	4.35	7.50	no	no	
22/03	F. Home	16:00	18.3	7.80	no	no	Heavy rainfall.
25/03	F. Home	13:25	1.80	7.39	no	no	
	"	13:33	—	7.32	no	no	Concrete Pour pH monitoring.
	"	13:40	—	7.16	no	no	
	"	13:43	—	7.08	no	no	
	"	13:45	—	7.11	no	no	
	"	13:47	—	7.09	no	no	Pour finished 13:45
	"	13:50	—	7.10	no	no	
26/03	F. Home	11:50	1.89	7.26	no	no	
	Meadowbrook	16:30	10.84	—	—	—	River baseline
27/03	Meadowbrook	9:50	14.45	—	—	—	River baseline

Caption 13 Section All

Water turbidity and pH monitoring sheet for March.



