

SORENSEN

Monthly Site Environmental Audit

SPILL CONTROL
OIL
ABSORBENT
GRANULES

INVASIVE
PLANT
SPECIES
AREA



Glanmire Flood Relief Scheme

27/08/24 To 30/09/24

Details			
Project:	Glanmire Flood Relief Scheme		
Auditor:	SD/LD	Audit Period:	September
Locations Audited:	All sites		

Week Commencing 26th August
Comments/Observations

- Rock armour works completed at Evcore gym from the dry. Silt curtains installed parallel and downstream of the works to aid in the reduction of silt mobilisation.
- Penstock installed on the Mill Race at Grandon's. Small area sectioned off from main flow with a sandbag dam. Oil booms placed instream perpendicular to the Mill Race bank to contain any incidental releases of oil from the soft sediment. Works area dewatered. Water levels in the Mill Race stream monitored and managed during works. European eel (1no.) was removed with hand nets from the instream works area. Recovered gravels was checked for the presence of European eel and Lamprey sp.
- A further 7m of tree line was removed at Meadowbrook pumping station to accommodate the commencement of regrading/eye clearing work. Trees surveyed for nesting birds prior to removal.
- Otter Holt Camera Monitoring: No Otter sightings at N2, C2, N6C and N6D.
 - No other mammalian sightings.

Week Commencing 2nd September
Comments/Observations

- Works commenced at Riverstown bridge (02/09/24), silt curtains installed to aid in the reduction of silt mobilisation. Area sectioned off from main river flow with sandbag dam.
- Electrofishing: Riverstown Bridge (03/09/24) – 71no. Brown Trout, 3no. European eels, 12no. Lamprey, 1no. Salmon, 23no. Stickleback.
- Removal of material from Riverstown Bridge eye commenced on the downstream side. Silt curtains were installed to aid in the reduction of silt mobilisation. Given the presence of Japanese knotweed works were supervised by the IAPS Specialist. Biosecurity measures were in place for the duration of the works where required.
- Environmental Tour 017 (05/09/24) – Discussions had on mgmt. of silt during curtain removals and temporary fish passage at New Line during the Winter months.
- Rock armour works completed on the Mill Race at Grandon's. Mill Race sectioned off from main flow with sandbag dam and silt fence. Oil booms placed instream perpendicular to the Mill Race bank to contain any incidental releases of oil from the soft sediment. Works area dewatered. Water levels in the Mill Race stream monitored and managed during works. 3no. Brown Trout, 53no. European eels, 1no. Stickleback were removed by Electrofishing. In addition, European eel (15no.), Lamprey (45no.), Brown trout (10 no.), Stickleback (~65no.) were removed from small pools and soft sediment in the instream works area using hand nets. Recovered gravels/sediment was checked for the presence of European eel and Lamprey sp.
- Otter Holt Camera Monitoring: No Otter sightings at N2, C2, N6C and N6D.
 - Other mammalian sightings: N2 – cat(s) 2nd, 4th, and 6th Sept.

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Week Commencing 9th September

Comments/Observations

- Rock armour works commenced from in stream at narrow section of river (Gym/Eurofins). Silt mitigation in the form of (6no.) silt curtains, (3no.) Kelly blocks, geotextile and gravels were deployed to aid in the reduction of silt mobilisation.
- Recovery of Japanese knotweed from the riverbank at Riverstown Bridge was undertaken under the supervision of the IAPS Specialist. Biosecurity measures were in place for the duration of the works.
- Wingwall installation on Springmount Stream culvert downstream. Concrete pour required. Shuttering inspected and control measures deployed to avoid/minimise risk of pollution event (13/09/24) – works supervised and handheld pH readings taken.
- Headwall installed beside Sallybrook Area 1 Compound. Works supervised by the IAPS Specialist. Silt curtains installed to aid in the reduction of silt mobilisation.
- Otter Holt Camera Monitoring: No Otter sightings at N2, C2, N6C and N6D.
 - Other mammalian sightings: **N2** – cat(s) 12th, 14th, and 15th Sept.; **N6C** – cat 9th Sept.

Week Commencing 16th September

Comments/Observations

- Headwall installation commenced at the Funeral Home. Silt curtain installed in case of debris entering the river.
- Emergency overflow stormwater carrier pipes installed on the Mill Race culvert at Grandon's. Wet grout required. Shuttering inspected both from the wet and the dry and control measures deployed to avoid/minimise risk of pollution event.
- Visible growth of Bohemian and Japanese knotweed received two treatments with chemical herbicide (Roundup Biactive XL) in all Areas under the supervision by the IAPS Specialist (17/09/24, 19/09/24 and 20/09/24).
- Environmental Incident: Uncontrolled pumping of silt laden groundwater into the Sallybrook Stream occurred at Eurofins on 19/09/24. A permit to pump water was not sought nor control measures put in place primarily due to undue haste. Pumping was ceased immediately upon notification of activity to the Environmental Team and no further discharging to a watercourse occurred at the location.
- Environmental Tour 018 (20/09/24) – discussions held on plans to reopen all waterways (cease overpumping and remove temporary channel diversions) prior to the 01/10/24 as well as the removal of silt mitigation measures (curtains/Kelly blocks) plus any debris/sandbags from the river.
- Otter Holt Camera Monitoring: No Otter sightings at N2, C2, N6C and N6D.
 - Other mammalian sightings: **N2** – cat 21st Sept.; **N6C** – cat 18th Sept; **N6D** – cat 18th Sept

Week Commencing 23rd September

Comments/Observations

- Rock armour completed at upstream side of Springmount stream, stream released 23/09/24.
- Hydrocarbon contamination visible in the river at Eurofins – area bunded with oil booms 23/09/24. Hydrocarbon sheen visible throughout the river system 24/09/24, oil boom bund lengthened at Eurofins to better aid in the containment of contamination and oil booms placed at Meadowbrook and Hazelwood. River treated with Bioversal HC. Contamination present in groundwater at Eurofins, source of contamination and pathway to river currently unknown, appears to be emerging from the rock armour so may be seeping

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through/beneath the SPW. Investigations underway.

- Meadowbrook diversion channel was electrofished (26/09/24) - 18no. Brown Trout, 12no. European eels, 1no. Lamprey, 14no. Salmon, and 25no. Stickleback were retrieved – the river flow was then rediverted to it's original course on the eastern side of the river basin.
- New Line: Glenmore River released 27/09/24. Silt curtains installed downstream prior to release to aid in the settlement of silt generated during the first flush through the river gravels.
- Copper Valley: Glenmore River released 1 day early, 29/09/24, due to heavy rainfall. Silt curtains installed downstream prior to release to aid in the catchment and settlement of silt generated during the rivers release.
- Headwall installed at Funeral home, 30/09/24, silt mitigation in the form of a curtain in place.
- Silt mitigation measures (curtains/fencing/blocks) and site debris removed from the rivers during a river walk through 30/09/24.
- Otter Holt Camera Monitoring: No Otter sightings at N2, C2, N6C and N6D.
 - Other mammalian sightings: **N2** – cat(s) 26th Sept; **N6C** – fox 26th Sept.

Ecological Licenses Schedule
GFRS – Ecological Licences

ECOLOGICAL FEATURE	LICENCE TYPE	STATUS	START DATE	EXPIRY DATE
Badgers	Derogation	Not Required	N/A	N/A
Bats	Derogation	Not Required	N/A	N/A
IAPS	Reg 49 – Transport JKW	Active	02/01/2024	30/06/2024
IAPS	Reg 49 – Transport JKW + HB	Active	06/09/2024	30/06/2025
Otters	Derogation	Active – Holts N2, C2, N6C & N6D	22/02/2024	31/12/2024
Otters	Photograph/Film Wild Animals	Active	01/04/2024	31/10/2024
E-Fishing – Cois na Gleann	Section 14	Active	01/07/2024	31/07/2024
E-Fishing – All Areas	Section 14	Active	01/07/24	31/09/2024

October Environmental Look Ahead

Area	Activity/Sensitive Environmental Feature
1	Embankment works – presence of J. knotweed
2	Hazelwood bridge overflow culvert works – presence of J. knotweed
3	No foreseen environmental concerns – control of site run off/silt during heavy rainfall.
4	No scheduled works

Audit Acceptance/Sign-Off

Auditor Signature	Site Representative Signature
S. Dale L. Dolan	M. Snow

Space provided on following pages for Figure

Figure 1			Figure 2		
					
Caption 1			Caption 2		
Efishing of the Mill Race at Grandons prior to dewatering and placement of rock armouring			Eels recovered from the Mill Race prior to dewatering		



Figure 3			Figure 4		
					
Caption 3			Caption 4		
Sorensen oil booms installed at the Mill Race to aid in the prevention of contamination entering the main Glashaboy channel.			Efishing of the dammed area at Riverstown Bridge		



Figure 5			Figure 6		
					
Caption 5			Caption 6		
Sample bucket of fish recovered during efishing activity at Riverstown Bridge.			Silt curtain installed downstream of Riverstown Bridge for dredging of the bridge eye. Works supervised by IAPS Specialist due to the presence of Japanese knotweed.		



Figure 7			Figure 8		
					
Caption 7			Caption 8		
Biosecurity measures at Hazelwood Bridge for Japanese knotweed recovery works			Grass seeding and laying of coir mesh at Riverstown Bridge.		


Figure 9			Figure 10		
					
Caption 9			Caption 10		
Spraying of Bohemian and Japanese knotweed			Rock armour installed beneath New Line bridge and thalweg dug through the river gravels for fish passage.		


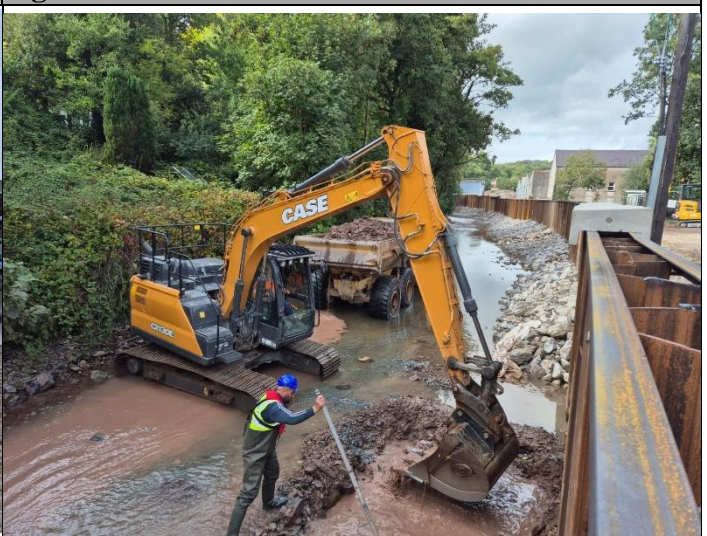
Figure 11			Figure 12		
					
Caption 11			Caption 12		
Recovery of river gravels from the dry to accommodate rock armouring at Evcore Gym			Recovery of river gravels to accommodate rock armouring at Eurofins		



Figure 13			Figure 14		
					
Caption 13			Caption 14		
Placement of rock armouring at Eurofins			What appears to be diesel contamination in ground water at Eurofins excavation for outfall 1/OF8.		



Figure 15			Figure 16		
					
Caption 15			Caption 16		
Juvenile trout recovered during efishing operations of the Meadowbrook diversion channel.			Contaminated water from Eurofins was pumped through a settlement tank containing booms and pads before discharging through oil absorbent socks onto pads banded with booms.		

Figure 17			Figure 18		
					
Caption 17			Caption 18		
The extent of Eurofins site lined with booms in case of seepage of contaminated ground water. Pads added to aid in the catchment of contamination.			Eurofins site lined with booms in case of seepage of contaminated ground water		