

SORENSEN

Monthly Site Environmental Audit

**INVASIVE
PLANT
SPECIES
AREA**

**SPILL CONTROL
OIL
ABSORBENT
GRANULES**



Glanmire Flood Relief Scheme

31/10/2023 To 28/11/23

Details

Project:

Glanmire Flood Relief Scheme

Auditor:

Sorcha Dale/
Tim Field

Audit Period:

November

Locations Audited: All sites.

Week Commencing 30th October

Comments/Observations

- A 2" pump was turned on at Hazelwood SC site (31/10/23) without a silt sock in place causing siltation in an area of the public carpark. Site ecologist was present and the issue was rectified immediately. (Image 1)
- Trailer spilling dirty water on road R639 – road sweeper deployed following ECoW request. (Image 2)
- Placing of Heras panels and minor site clearance occurred within the 20m buffer zone of holt N6 (Circus field) on the evening of Fri 27/10/20 (Image 3). Area refenced 03/11/23 and Contractor's otter specialist notified – disturbance deemed minor as clearance work did not encroach on riparian habitat and a wheeled, rather than tracked, excavator was used for the activity. (Image 4)
- Wheel wash at point of entry to JKW stockpile location, Area 1, washed out into the JKW area, removed off site and replaced on 4/11/23. (Image 5, Image 6 & Image 7)
- ER ECoW notified Contractor Ecologist of pumping activity at Springmount culvert discharging water with a high silt load direct to stream on 1/11/23. Contractor ecologist immediately went to location, the pump was turned off and redirected to a location that would not come into contact with the watercourse, a silt sock was attached before the pump was turned back on.
- Turbidity monitoring was done for areas with potential to be impacted by works/pumping activity.

Week Commencing 6th November

Comments/Observations

- IFI were notified of pumping activity at Springmount culvert.
- Bund removed from trunk of tree at Sallybrook House. (Image 8)
- Turbidity and pH monitoring was completed for areas with potential to be impacted by works/pumping activity.

Week Commencing 13th November

Comments/Observations

- Contractor assigned Ecological/Environmental Champion, who has responsibility for the management and maintenance of ecological and environmental controls on site.
- Correct storage of fuel containers on spill tray observed at Area 1 compound. (Image 9)
- Turbidity of water entering river from behind temporary sheet piles (Area 1) testing high (14/11/23). NTU 26.4 at 10.30am – silt fencing adjusted, straw dam extended with stone, cofferdam implemented further upstream of flow and pumping diverted through settlement tank. Turbidity remained high for a period after implementation of mitigation measures but had returned to acceptable levels morning of 15/11/23.
- Lisa Dolan on site 15/11/23 supervising drainage works in Area 1 JKW exclusion zone. Widespread evidence of JKW infestation within exclusion zone. Biosecurity measures implemented throughout works. (Image 10 & Image 11)
- Concrete was poured for manhole between Sallybrook house and Joinery the evening of 16/11/23. Dewatering of excavation continued via pumping through settlement tank and pH monitored on discharged water. pH: 7.29 water level remained below contact point with concrete.
- Ecology Workshop completed 16/11/23 between ARUP and Sorensen – reviewed and set ecological expectations for 2024 works.

ENVIRONMENTAL AUDIT

- Turbidity and pH monitoring was completed for areas with potential to be impacted by works/pumping activity.

Week Commencing 20th November

Comments/Observations

- Drainage works commenced in front of Sallybrook house. ER ECOW noted the presence of non-third schedule IAPS on the bank adjacent to works (Montbretia, Crocosmia × crocosmiiflora, and Winter Heliotrope, Petasites fragrans). Soil with potential of containing IAPS was not removed from the works area – trench was backfilled with excavated material. (Image 12)
- Drainage works continued in Area 1 JKW exclusion zone – biosecurity measures were followed throughout works. ER ECoW noted entry/egress to the work area was unclear and may affect biosecurity procedures. Procedure was not affected for ground crew, however, the boot wash and sign in/out sheet were relocated to ensure procedures would remain unaffected.
- The first Environmental Tour was completed by ER ECoW and Contractor Ecologists on 22/11/23. Overall, the site was to a high standard from an environmental and ecological view point – effective silt mitigation in place for pumping activities, no spills around pumps/generators – points of note include housekeeping of waste storage location, labelling of jerry can’s/containers and use of spill trays for storage of containers in live locations. (Image 13, Image 14, Image 15 & Image 16)
- ER ECoW requested spec sheet for silt socks and silt de-watering bags in use on site.
- Turbidity and pH monitoring was completed for areas with potential to be impacted by works/pumping activity.

27th & 28th November

Comments/Observations

- Turbidity and pH monitoring of water travelling from site, behind temporary sheet piles at Sallybrook, to the main watercourse continued.

Ecological Licenses Schedule

Comments/Observations

GFRS – Ecological Licences

<u>Ecological Feature</u>	<u>Licence Type</u>	<u>Status</u>	<u>Start Date</u>	<u>Expiry Date</u>
Badgers	Derogation	Not Required	N/A	N/A
Bats	Derogation	Not Required	N/A	N/A
IAPS	Transport - JKW	Active	31/08/2023	31/12/2023
Otters	Derogation	Active – Holts N2 & N6	28/08/2023	31/12/2023

Environmental Look Ahead

Comments/Observations

Works for the month ahead will entail the following from an environmental perspective.

- Drainage works at Eurofins/Pat O’Donnells commencing 29/11/23 likely to require pumping of groundwater.
- Drainage works within areas potentially contaminated with JKW, Area 1, to continue from 29/11/23.
- Installation of culvert at Springmount commencing W/C 4/12/23, will likely require pumping of groundwater.
- Drainage works at Hazelwood SC likely to require pumping of groundwater.
- Installation of manholes and foul sewer at Meadowbrook commencing W/C 4/12/23, likely to require pumping of groundwater.

Action	Assigned to	Action Close Out Date
Label all jerry can’s/containers	MC	29/11/23
Housekeeping at waste storage area, Sallybrook	SD/MB	21/12/23
TBT on storage of fuel containers	SD	11/12/23
Provide Client ECOW with specification sheets for silt socks and silt de-watering bags.	SD	01/12/23
Silt socks to be fitted to all 2” pumping activity at risk of impacting watercourse. Mark Cronin to ensure compliance.	MC	Ongoing

Audit Acceptance/Sign-Off

Auditor Signature	Site Representative Signature
T. Field	J. O’Sullivan

Space provided on following pages for Images



Photo 1			Photo 2		
					
Caption 1	Section	W/C 30/10/23	Caption 2	Section	W/C 30/10/23
Silt sock on outlet point of pump, which caused siltation at Hazelwood SC site.			Silty water on road R639 from trailer stationary in Springmount site.		

Photo 3			Photo 4		
					
Caption 3	Section	W/C 30/10/23	Caption 4	Section	W/C 30/10/23
Minor site clearance within Otter holt N6 exclusion zone.			Otter holt N6 exclusion zone refenced.		

Photo 5



Caption 5 Section W/C 30/10/23

Wheel wash washed out into JKW stockpile area prior to being removed from site.

Photo 6



Caption 6 Section W/C 30/10/23

Grate from wheel wash washed out in JKW exclusion zone prior to removal from site.

Photo 7



Caption 7 Section W/C 30/10/23

Replacement wheel wash installed in same location as removed wheel wash.

Photo 8



Caption 8 Section W/C 06/11/23

Bund removed from trunk of tree at Sallybrook House.





Photo 9		Photo 10	
			
Caption 9	Section	Caption 10	Section
W/C 13/11/23		W/C 13/11/23	
Containers stored correctly, on spill tray, Sallybrook main compound.		Drainage works underway in JKW exclusion zone, supervised by LD	

Photo 11		Photo 12	
		Caption 11	Caption 12
W/C 13/11/23		W/C 20/11/23	
JKW identified during excavations in JKW exclusion zone.		Trench at Sallybrook House backfilled with excavated material.	

Photo 13



Caption 13 Section W/C 20/11/23

Unlabeled container not stored on spill tray on live site. Identified during Environmental Tour 001.

Photo 14



Caption 14 Section W/C 20/11/23

Waste storage location identified as requiring housekeeping during Environmental Tour 001.

Photo 15



Caption 15 Section W/C 20/11/23

Correct storage of Jerry can's/containers at Sallybrook Compound identified during Environmental Tour 001.

Photo 16



Caption 16 Section W/C 20/11/23

Correct storage of Jerry can's/containers at Sallybrook Compound identified during Environmental Tour 001.

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Discharge Water Quality Monitoring – November (GFRS) 2023

DATE	LOCATION	TIME	TURBIDITY	pH
3rd Nov	SPRINGMOUNT	10:55	0.63	
	SALLYBROOK	15:43	11.73	
7th Nov	SALLYBROOK	9:25	0.94	6.99
	SPRINGMOUNT	9:50	0.80	7.09
8th Nov	SPRINGMOUNT	10:20	1.73	7.62
	SALLYBROOK	10:40	0.78	7.69
	SPRINGMOUNT	14:10	0.99	7.72
	SALLYBROOK	16:35	3.04	7.64
9th Nov	SPRINGMOUNT	16:55	0.84	7.64
	SPRINGMOUNT	9:40	0.68	6.35
	SALLYBROOK	9:55	3.97	6.53
	No Pumping @ Sallybrook			
	SPRINGMOUNT	13:35	11.77	6.79
	SPRINGMOUNT	16:25	1.72	7.78
* 14th Nov	SALLYBROOK	10:30	26.4	6.55
	SPRINGMOUNT	13:15	1.23	6.34
* 14th Nov	SALLYBROOK	17:05	42.3	7.68 7.25
15th Nov	SALLYBROOK	15:50	9.50	6.79
16th Nov	SALLYBROOK	17:00	4.95	7.29
17th Nov	SALLYBROOK	13:05	1.30	
	SPRINGMOUNT	13:20	1.13	
NOT RELATED TO WORKS 17th Nov	PAT O'D YARD			
	upstream	14:57	24.7	6.54
	Sallybrook :downstream	15:00	36.0	6.74
21st Nov	SALLYBROOK	9:40	0.94	6.89
22nd Nov	SALLYBROOK	9:20	0.61	7.38
	SALLYBROOK	11:44	0.94	7.40
27th Nov	SALLYBROOK	12:50	2.92	7.70
28th Nov	SALLYBROOK	10:00	0.55	7.24

