

Odour Management Plan

Prepared by: Arthian Ltd

For: West Lay Ltd

Site: Engineered Wetland, Aspull

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1. Introduction

1.1 Introduction

Aspall Cyder Ltd currently treats wastewater from its cydery in an on-site activated sludge plant before discharge to a tributary of the River Deben at The Cyder House, Stowmarket IP14 6PD (**the Cydery**).

To allow greater resilience within the Cydery, West Lay Ltd (**the Operator**) proposes an adjacent engineered wetland (**the Site**), located north of the Cydery, that will act as a polishing stage to the existing treatment system. Under normal conditions, wetland treated effluent will be managed through evapotranspiration, with no discharge. A discharge point (WL1) is included only for periods of prolonged rainfall or emergency situations. During normal operations the discharge will be closed.

This Odour Management Plan (OMP) sets out measures to prevent or minimise odour pollution arising from the operation of the engineered wetland. It follows the principles of the Environment Agency H4 Odour Management Guidance.

Objectives:

- Prevent or reduce odour at source.
- Minimise the risk of odour pollution beyond the site boundary.
- Ensure swift and effective response to odour complaints.

An OMP is required where there are sensitive receptors within 400m of the Site.

1.2 Sensitive Receptors

1.2.1 Sensitive Receptors within 400m of the Site boundary have been identified and tabulated in Table 1 below.

Table 1 Sensitive receptors within 400m of the Site

No.	Receptor	Receptor type	Distance m	Direction
1	B1077 (Aspall Rd)	Highway	0	W
2	Aspall Wood	Ancient Woodland, Local Wildlife Site	0	S
3	River Deben	Controlled waters (surface water)	20	N
4	Harborough Cottage	Residential	35	NW
5	Valley Cottage	Listed Building (Grade II)	35	NW
6	Old Cyder House	Listed Building (Grade II)	80	S
7	Aspall Hall	Listed Building (Grade II*)	120	S
8	Rose Cottage	Residential	240	N
9	Willow Cottage	Listed Building (Grade II)	300	NW
10	Rose Cottage	Listed Building (Grade II)	300	NW



1.2.2 Protected species and habitats within up to 500m of the Site are presented in Table 2.

Table 2 Protected features/ species within 500m

Screening distance	Protected feature/ species	Protected feature / species
200m	Local Wildlife Site	Aspall Wood

2. Odour Sources

Potential odour sources from operations include:

- Sludge management of inlet pond.
- Disruption to the wetland system leading to stagnation and odour.

The incoming effluent does not pose a risk of odour in itself and the same is true for the wetland.

It is considered that the effluent poses a **LOW** potential for odour.

The wetland poses a **LOW** potential for odour.

Sludge management poses a **MEDIUM** potential for odour.

3. Operational Controls

3.1 Waste Acceptance

The Operator is contracted to provide polishing treatment for treated effluent from the Cydery. Effluent from the Cydery will be the only waste accepted to the site for treatment.

Effluent is produced daily and discharged readily to the wetland, following treatment.

Effluent is piped into Pond 1 following testing to confirm it meets the acceptance criteria. Effluent in excess of the waste acceptance criteria will be diverted and tankered from site.

3.2 Housekeeping

The wetland is managed in accordance with a written management system. The ponds will be regularly inspected to confirm water is flowing unencumbered, aerators operating, no blockages, vegetation is healthy and not too dense, being cleared as required. These measures will minimise potential odour and are detailed in the Operating Manual which includes clearance of vegetation and sludge at least annually.

4. Monitoring

- Routine checks: Daily odour checks at site boundaries by trained staff; findings recorded in an odour log.
- Weather monitoring: Be aware of conditions (e.g. warm, still weather) that could increase odour risk; adjust operations accordingly.
- Sniff tests: Conduct downwind sniff tests during high-risk operations.



The following procedure supports industry guidance and ensures early detection of odour issues, preventing nuisance to nearby receptors.

4.1 Procedure

- Site staff will carry out weekly boundary walks to check the surrounding area for high levels of odour. If required, “sniff testing” monitoring will be carried out by a person not directly involved with the operations at the site.
- Visual (and nasal) inspections of potentially odorous activities will be carried out.
- The results of the weekly assessment will be recorded in the Odour Report Form, Appendix B.
- In the event of odour scores of 3, 4 or 5 being recorded the site staff will be alerted to implement contingency measures. Retesting at the installation boundary will be conducted following any actions implemented to ensure the effectiveness of recorded actions implemented.
- In the event of odour complaints being received the Operator will notify the Environment Agency and make a record of the complaint (see Appendix A Odour Complaint Form and Appendix B Odour Report Form). The Operator will undertake the necessary odour contingency as required

5. Odour Action Plan

If odour is detected beyond site boundary or a complaint is received, the following actions will be taken:

- Investigate / identify / confirm the source immediately.
- Implement corrective measures (e.g. accelerating removal).
- Record actions taken in odour incident log.
- If necessary, review waste acceptance procedures and /or Odour Management Plan.
- Notify the Environment Agency if required.

6. Complaints Procedure

Should any odour complaints be received from any source, the Odour Complaint Form, shown in Appendix A will be completed.

All complaints should be recorded, and causes identified. Appropriate remedial action will be taken in a timely manner with a record kept of actions taken including of any additional measures put in-place to avoid reoccurrence.

7. Staff Training

All relevant staff will be trained on:

- The importance of odour control.
- Specific measures in this OMP.
- The complaints and incident response procedures.



8. Review

This plan will be reviewed:

- Annually.
- After any odour incident or substantiated complaint.
- Following any significant operational changes.



9. Key Responsibilities

Task	Staff position responsible
Olfactory checks	Manager
Overseeing effluent inflows	Manager
Pond vegetation management	Manager
Monitoring wetland water levels	Manager
Cleaning of sediment / buildup	Manager
Documenting/reviewing abnormal events	Manager
Reviewing annual plans	Manager
Complaints log	Manager



Appendices

Appendix A: Odour Complaints Procedure Form

Odour Complaint Report Form		
Complete this form in as much detail as possible, in accordance with the requirements of the Odour Management Plan.	Date Recorded:	Reference Number:
Name and address of complainant		
Telephone number of complainant		
Details of Complaint		
Date, time and duration of offending odour		
Odour description e.g. comparison with other odours, strong/weak, continuous, fluctuating		
Any other comments from complainant		
Weather conditions (e.g. dry, rain, fog, snow)		
Wind strength and direction (e.g. light, steady, strong, gusting) or use Beaufort scale		
Any previous complaints relating to this odour?	Yes / No	
Any other relevant information		
Potential odour sources that could give rise to the complaint		
Operating conditions at the time offending odour occurred e.g. clean out		
Follow up		
Date and time complainant contacted		
Action take		
Amendment required to the odour management plan?	Yes / No	
Form completed by:	Signed:	

Appendix B: Odour Report Form

Odour Management Plan

Odour Report Form			Date	
Time of test				
Location of test e.g. area on farm				
Weather conditions (dry, rain, fog, snow etc)				
Temperature (very warm, warm, mild, cold or degrees if known)				
Wind strength (none, light, steady, strong, gusting)				
Wind direction (e.g. from NE)				
Intensity				
Duration (if test)				
Constant or intermittent in this period or persistence				
What does it smell like?				
Receptor sensitivity (see below)				
Is the source evident?				
Any other comments of observations				

Intensity		Receptor sensitivity
0 No odour	4 Strong odour	Low (e.g. footpath, road)
1 Very faint odour	5 Very strong odour	Medium (e.g. industrial or commercial workplaces)
2 Faint odour	6 Extremely strong odour	High (e.g. housing, pub/hotel etc).
3 Distinct odour	Ref: German Standard VDI 3882, Part 14	