

Improvement Programme Update



Site: Ghallis Non-hazardous Landfill
Date of last update: 12.02.2024

Ref.	Requirement	By when	Status	Status Update												
			Open / Closed													
21	The installation of chain link fence according to Schedule 4.	End December 2019	Closed	Installation of chainlink fence completed. Notification was sent to ERA on 17.08.2021.												
22	Proposal for leachate treatment which excludes recirculation.	End June 2020	Open	<p>In the past months, WasteServ conducted a market research for available leachate technologies as well as systems which can be deployed to suit the company’s needs. WasteServ noted that various options (or a combination of options) can be utilised for the treatment of leachate, including:</p> <ul style="list-style-type: none">• Chemical Treatment (coagulation, flocculation, DAF)• Biological Treatment (SBR, MBR)• Proportional Dilution System• Reverse Osmosis• Nanofiltration, Ultrafiltration• Electro Oxidation <p>Following completion of research, WasteServ’s Management gave the go ahead for the issuance of a tender aimed at procuring the necessary technology and/or system. At present, the said tender document is being drafted. Associated milestones and indicative timeframes are as follows:</p> <table><tr><th>Activity</th><th>Timeframe / Target Date</th></tr><tr><td>Tender drafting</td><td rowspan="7">10 months</td></tr><tr><td>DOC vetting</td></tr><tr><td>Tender publishing</td></tr><tr><td>Offers evaluation</td></tr><tr><td>Publication of award notice</td></tr><tr><td>Standstill period</td></tr><tr><td>Contract signing</td></tr><tr><td>System in place</td><td>6 months from contract signing</td></tr></table> <p>WasteServ shall keep the Authority appraised on the project’s progress.</p> <p>N.B. The above depends on the outcome of the procurement process.</p>	Activity	Timeframe / Target Date	Tender drafting	10 months	DOC vetting	Tender publishing	Offers evaluation	Publication of award notice	Standstill period	Contract signing	System in place	6 months from contract signing
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23	Implementation and commissioning of leachate treatment system in accordance with the proposal approved in No. 22 above.	End of December 2022	Open	Dependant on IP item 23.
24	Monitoring proposal covering the landfill and the surrounding valley system in order to assess the integrity of the engineered lining system.	Within 6 months of granting of the permit.	Open	Following submission of the proposal and the various exchanges with the Authority, WasteServ is currently compiling a reply to the latest feedback by ERA.
25	As built drawing of the upgraded gas management system covering the whole site.	End of December 2022	Open	As built gas network shall be provided to the Authority by June 2024.
26	Submission of Closure plan in accordance with the requirements of the Landfill Regulations, S.L. 549.29 including a proposal for aftercare monitoring to the Authority for approval.	End October 2020	Open	In light of envisaged variations at Ghallis landfill, WasteServ is hereby asking that this IP item is linked to the latest variation of the said landfill. This extension of this IP item will give both ERA and WasteServ the chance to have a holistic view of the site. WasteServ shall endeavour to submit the closure plan with the last variation.
27	(a) Proposal on how any potentially contaminated run-off from the vehicle refuelling area shall be contained and kept separate from clean rainwater at all times. (b) Certification from a third party engineer or architect describing the implementation of (a).	(a) Within 1 month of granting of the permit (b) Within 4 months of granting of the permit	Closed	Authorisation (FDR 42) by REWS was attained for the black towable containers. In order to prevent spills, procedure was drafted, personnel trained, and collapsible spill trays sourced. An email from REWS was shared with ERA as well.
28	Submission of a complete application for the storage of liquid fuels to the Regulator for Energy and Water Services.	Within 6 months of granting of the permit	Closed	It is envisaged that there will not be any stationary fuel storage (refer to Improvement Programme Item Pt. 27), hence this improvement does not apply any more. Reference to the green fuel dispenser which its tank shall be sold as second-hand item, WasteServ shall provide a certification / statement by a third party warranted engineer confirming that it is in good working order and fit for purpose.
29	Proposal for compliance testing of any type of specific waste stream which is being accepted at the landfill that exceeds the 5% by mass of the total percentage of incoming waste. Such testing shall be in accordance with Section 1.2 of Council Decision 2003/33/EC Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of the Landfill Directive 1999/31/EC and shall consist of at least a batch leaching test and shall be carried out at least once a year. ERA shall be notified prior to any such sampling exercise.	Within 6 months of granting of the permit	Closed	Methodology finalised as per Revision 06 (05.08.2022).
30	Construction of the quarantine area in accordance with conditions in Table 3.4.16 (b) and approved document IP 0001/06/C/DOC2 in the location specified in IP 0001/06/C/DOC3.	Within 6 months of granting of the permit	Closed	Quarantine area in place as previously communicated to ERA.
31	Installation of alternative equipment/infrastructure (other than existing litter nets) to control litter from escaping off-site.	End of June 2020	Closed	x6 new landfill litter nets were installed at Ghallis in the past months.

32	Installation of catalytic converter as abatement to emissions generated by the landfill gas powered-plant.	End of December 2020	Closed	<p>Messrs. Biogas Control Service explained that silicon compounds have the potential to destroy a catalytic converter in a very short time, thus making the investment highly questionable. Correspondence sent to ERA on 27.04.2021. Catalytic converter not considered suitable for this circumstance.</p> <p>Furthermore, CHP in question is (i) small-sized with a thermal rated input of less than 1MW_thermal (see EMP) and (ii) CHP was bought and installed before 2018. These two facts exclude the CHP from monitoring. Therefore, as previous stated, WasteServ shall not be investing in consumables. In due time, WasteServ shall either invest in abatement add-ons or shall invest in new CHPs.</p> <p>Through this entry, WasteServ is hereby requesting that this improvement programme is closed off.</p>
33	(a) Submission of proposal for the installation of a system for real-time monitoring of temperatures within the landfilled waste mass as per condition 3.10.(b) Implementation of such a system.	(a) Within 10 months of granting of the permit (b) Within 24 months of granting of the permit	Closed	A thermal survey methodology was submitted to ERA on 27.05.2021.