

QUICK WASH™

Nitrogen Extraction and Ammonia Recovery

Solving Ammonia Issues

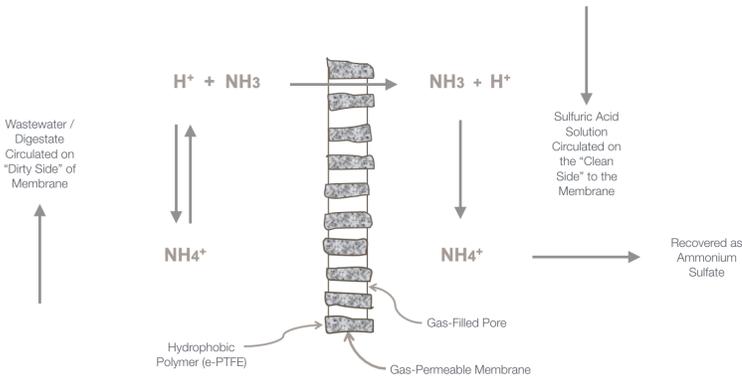
Renewable Nutrients is rethinking Nitrogen Removal & Ammonia Recovery with a proprietary system that draws on exclusive patented technology to extract and recover ammonia in either a liquid or gaseous state found in biosolids and other waste streams.



Disrupting Nitrogen Removal & Ammonia Recovery

Renewable Nutrients Patented Nitrogen Removal & Ammonia Recovery process is disruptive to current technologies as it recovers the ammonia for beneficial use and by its very nature can be operated with no impact to the biological process.

Quick Wash™ breaks the recycling loop by extracting—and recovering—valuable nutrients.



Benefits of Quick Wash® Nitrogen Removal & Ammonia Recovery

- Reduce inputs of energy, carbon and alkalinity
- Recover rather than destroy a valuable resource
- Produce a high quality, sale-able product
- Improve the quality of the effluent by enhancing existing nutrient removal processes
- Allow the reduction of ammonia alkalinity
- Potentially free existing capacity and allow the rerating of treatment plants in lieu of additional capital investment
- Provide a solution for additional capacity in plants with limited footprint for expansion

Combining Quick Wash® Nitrogen and Phosphorus Recovery

- A combined application of both N & P extraction and recovery technologies
- to solve the total nutrient issue for high strength streams
- We anticipate that regulatory agencies will enforce discharge requirements for both N & P
- Economy of scale can be achieved by implementing both technologies
- Utilizing both technologies will enable the extraction, recovery, and reuse of valuable nutrients



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