

Hanover Park WRP's Goals and Objectives for 2018-2022

Goal – Prevent Nutrient Overloads in Soil at Fischer Farm

Objective

Find the source of NH₃ present in Ground Water Monitoring Well #7 and explore solutions to reduce/eliminate the source.

Description

Ground Water Monitoring Well #7 has shown elevated levels of NH₃ for the past several years. Biosolids application has been halted on the associated farm field #7 and 3 new temporary monitoring wells were installed during the summer of 2017.

Measurability

Weekly samples are being taken from these 3 temporary wells and compared to the samples taken from the permanent wells.

Affect to Biosolids Production

If the soil at Fischer Farm becomes overloaded we would have to stop land applying biosolids at this site.

Relevant EMS Outcomes

Environmental Performance, Quality Management Practices

Action Plans

As noted in Measurability the samples taken from the temporary wells will be used to pinpoint the source of NH₃ and solutions will be explored to eliminate the source. Repairs to infrastructure may be needed once source is determined.

Tracking Progress

Ground Water Monitoring wells and soil in each field will be sampled and historically tracked. Permanent Monitoring Wells: Monthly, Temporary Monitoring Wells: Weekly, Soil: Every 4 years: 2012, 2016, 2020

Responsible Person(s)

Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V

Funds/Resources

M&R funds were utilized to drill 3 temporary wells, M&R resources are being used for sampling and analyzing the water from these wells.

Target Date

December 2022

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Goal – Maximize digester gas usage

Objective

The specific objective of this goal is to improve digester gas capture and reuse for building and digester heat, prevent digester gas releases to the atmosphere, and reduce flaring, which will save money.

Description

Replacement of digester gas collection system piping was complete in 2012 under contract 08-530-3P, and an in-house project to replace the waste gas burner piping was completed in 2014.

Measurability

Amount of natural gas purchased, the amount of digester gas produced and utilized for heat. Baseline: 2014 - Purchased 147,704 therms of natural gas; produced 115,476 therms of digester gas; utilized 82,905 therms of digester gas. Amount spent on natural gas.

Affect to Biosolids Production

Reducing the amount of natural gas which is purchased and increase efficiency of digester gas utilized for heating the plant and digesters.

Relevant EMS Outcomes

Environmental Performance, Quality Management Practices

Action Plans

Track measurable goals through 2022.

Tracking Progress

Digester gas produced/utilized and natural gas purchased will be submitted on quarterly status reports.

Responsible Person(s)

Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V

Funds/Resources

Budgeted in the Engineering Department.

Target Date

December 2022

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Goal – Improve Odor Control Measures at the Treatment Plant

Objective

The specific objective of this goal is install/modify odor control systems at three odor sources identified by the Planning Group.

Description

Replace the existing ozone air treatment system on the digester complex with a bio-trickling filter. Install covers on the aerated grit tanks, and treat the captured air with a bio-trickling filter. Install an activated carbon air treatment system on the coarse screen exhaust fan.

Measurability

The number and nature of odor complaints will be tracked.

Affect to Biosolids Production

There will be no anticipated affect to biosolids production.

Relevant EMS Outcomes

Environmental Performance, Quality Management Practices

Action Plans

To be designed by Engineering Department 2017.
Award Contract in 2018.

Tracking Progress

Track measurable goals through 2022

Responsible Person(s)

Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V
Engineering Department Representative

Funds/Resources

Budgeted in the Construction Fund.

Target Date

December 2022