

Bristol Landfill Facility Update

2:00 PM 05-10-21

Attendees: **DEQ:** Crystal Bazyk, Dan Scott, Stacy Bowers, John Surber, Jeff Hurst **City of Bristol:** Randy Eads, Wallace McCulloch, Sam Hess, **Draper Aden Associates:** Ernie Hoch, Anthony Tomlin, Don Marickovich,

Weekly Review of Actions

1. Landfill:

- a. Daily monitor the SE Chimney and other locations if discovered with GEM and Hydrogen meter.
 - i. Additional samples to be taken this week
- b. Air samples from flow testing. Gradient & Leachate was done last Friday
 - i. Six samples sent to the lab
- c. Camera the wet well is scheduled for May 18th
- d. Continue to apply additional cover.
- e. Respond to citizen complaints.
 - i. Odor Management Plan
 - ii. Odor Complaint Response Plan
 - iii. Added City Web Page scheduled to go live this week

2. Draper:

- a. Steps to consider if the landfill has a SSF or a SSR
 - i. Ensure that the active gas system is working properly
 - ii. Monitoring flow rates to Ingenco
 1. Landfill gas flow showing increases with peak of up to 400 CFM although not holding at those levels yet.
 - iii. Connect the north end cleanout
 - iv. Improved connection with the south end cleanout
 - v. Recommend and install additional gas wells, working on plan
 - vi. Ensure landfill has maximum intermediate and daily cover
 - vii. Daily monitoring, GEM, Hydrogen, Temperature
 1. Chimney's
 2. Surface monitoring, as needed
 3. Air Grab Samples TO-15, as needed
 - viii. Additional Tests for:
 1. Thermal scanning
 2. EPA Method 3C (Sample taken last week)

Determination of carbon dioxide, methane, nitrogen, and oxygen from stationary sources using a Thermal Conductivity Detector

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3. Volatile Organic Acids EAS-03 (To be taken this week)
 4. Aldehydes and ketones TO-11A (To be taken this week)
 5. Ammonia (To be taken this week)
- ix. Geoprobe
 - x. Add Gas Wells
- b. Waiting results of Leachate and Gradient, water (ammonia), air grab sample
 - c. Wet Well: Identify needs with the City.
 - i. Working to set up advanced camera imaging. (May 18th)
 - ii. Verify operations of all systems
 - d. Wastewater System Odor Sampling
 - i. Completed waiting on results
 - e. Odor Management Plan, Pending DEQ acceptance
 - f. Odor Complaint Response Plan, Pending DEQ acceptance
 - i. Waiting on the results of monthly 24-hour sample for April
 - ii. Add Odor Complaint Response Plan as appendix to Odor Management Plan
 - g. Review 2020 Air reports
 - h. Monitoring Facebook and Smell My City App
 - i. Mapping complaints with weather and location data
 - i. Review BVU NOV
 - i. Completed response, working with them on next steps
 - j. Verifying Leachate and Gradient flow volumes
 - k. Working with SCS on gas field repairs and maintenance
 - i. Identifying new gas well installation plan

3. SCS:

a. Last week's report:

- i. Progress was made this week out at Bristol but still additional work needed.
- ii. Dug up road crossing checked for bellies. Cover 12" HDPE sleeve with residual stone left adjacent to leachate sump for additional protection.
- iii. Confirmed the need for additional pump and tank
- iv. Worked on the North end cleanout
 1. Waiting for parts
- v. Improved connections of the southern cleanouts. Retune southern cleanouts to vacuum change.
- vi. Well field analysis

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b. Week of 5-17-21

- i. Install ARI air release valve between road crossing and the leachate sump at the high point in the leachate force main. (waiting on parts)
- ii. Add another tank at landfill floor with an additional pump (third pump), (waiting on parts)
- iii. Work with the City to connect the north end clean out (waiting on parts)
- iv. Complete other system repairs identified
- v. Tune well field
- vi. Recommend placement of new wells / horizontal collectors.
 1. Optimum amount
 2. Minimum amount
 3. Survival plan in coordination with landfill filling plan

c. Week of 5-24-21:

- i. Wrap up any additional repairs
- ii. Trouble shoot the south end clean out and landfill 221 system for flow and possible air infiltration.