

Bristol Landfill Facility Update

2:00 PM 05-17-21

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. Confirm leachate flows from 498 landfill
- c. Camera the wet well is scheduled for Tuesday May 18th
- d. Work with SCS to complete gas repairs and North End Clean out
- e. Continue to apply additional cover.
- f. City interviewing four candidates this week for an Environmental and Safety Compliance Officer.
- g. Respond to citizen complaints.
 - i. Odor Management Plan
 - ii. Odor Complaint Response Plan
 - iii. Monitor and respond to the City web page

2. Draper: ONSITE This Week

- 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. Recommend and install additional gas wells, working on plan
 - v. Ensure landfill has maximum intermediate and daily cover
 - vi. Daily monitoring, GEM, Hydrogen, Temperature
 1. Chimney's
 2. Surface monitoring, as needed
 3. Air Grab Samples TO-15, as needed
 - vii. Additional Tests for:
 1. Thermal scanning
 2. EPA Method 3C **Completed** and sent to DEQ
Determination of carbon dioxide, methane, nitrogen, and oxygen from stationary sources using a Thermal Conductivity Detector

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3. Meeting (Draper and SCS) this week to consider what other tests are needed
 - a. Volatile Organic Acids EAS-03
 - b. Aldehydes and ketones TO-11A
 - c. Ammonia
- viii. Geoprobe
- ix. Add Gas Wells
 1. Working on timing (scheduling of a driller)
- b. Meeting DEQ on site this week: Dan Scott and Stacey Bowers
- c. Waiting results of Leachate and Gradient, water (ammonia), air grab sample
- d. Wet Well: Identify needs with the City.
 - i. Advanced camera imaging. On site this week with camera crew
 - ii. Verify operations of all systems
- e. Working on a plan to clean and TV north and south end cleanouts
- f. Wastewater System Odor Sampling
 - i. **Completed** results sent to DEQ
 1. Indication is that the liquid is highly diluted in the system and is unlikely contributing to the odors via the wastewater collection system
- g. Odor Management Plan, Pending DEQ acceptance
- h. Odor Complaint Response Plan, Pending DEQ acceptance
 - i. Results of monthly 24-hour sample for April submitted to DEQ
 - ii. May 24-hour sample to be taken
 - iii. Add Odor Complaint Response Plan as appendix to Odor Management Plan
- i. Review 2020 Air reports
- j. Monitoring Facebook and Smell My City App
 - i. Mapping complaints with weather and location data
- k. Review BVU NOV
 - i. Meeting to consider next steps
- l. Verifying Leachate and Gradient flow volumes
 - i. **Completed** and sent to DEQ
 - ii. Still working on verifying 498 leachate flows
- m. Groundwater and stormwater monitoring event scheduled for this week
 - i. Draper Waste Resources and Environmental teams to meet
- n. Will be on site and working with SCS on gas field repairs and maintenance
 - i. Identifying new gas well installation plan

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3. SCS:

Week of 5-17-21 ONSITE This Week

- i. Install ARI air release valve between road crossing and the leachate sump at the high point in the leachate force main.
- ii. Move tank to landfill floor with an additional pump (third pump)
- iii. Work with the City to connect the north end clean out.
- 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

b. **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.