

Bristol Landfill Facility Update

2:00 PM 05-24-21

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

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. TV the wet well on Tuesday May 18th
 - i. Reviewing Video today
- d. Work with SCS to complete gas repairs and North End Clean out
- e. Continue to apply additional cover.
- f. City interviewed four candidates last week for an Environmental and Safety Compliance Officer. Offer to go out this week to candidate
- 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: 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.
 2. Obtained data on flows
 - iii. Connect the north end cleanout
 - iv. Recommend and install additional gas wells, working on plan
 1. Working with the city on scheduling drillers
 - 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

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- 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
 - 3. Meetings (Draper and SCS) to consider what other tests are needed
 - a. Volatile Organic Acids EAS-03
 - b. Aldehydes and ketones TO-11A
 - c. Ammonia Sample in
- viii. Geoprobe
- ix. Add Gas Wells
 - 1. Working on timing (scheduling of a driller)
 - 2. Planning for the first week of July to have drillers on site
- b. Met DEQ on site last Tuesday with Dan Scott, Stacey Bowers and John
- c. Results of Leachate and Gradient, water (ammonia) are in and being reviewed
- d. Wet Well: Identify needs with the City.
 - i. Reviewing Video today
 - ii. Next Steps
- e. Working on a plan to clean and TV north and south end cleanouts
 - i. Looking for vendors
- f. Odor Management Plan, Pending DEQ acceptance
- g. Odor Complaint Response Plan, Pending DEQ acceptance
 - i. Monthly 24-hour sample for May was taken last week
 - ii. Add Odor Complaint Response Plan as appendix to Odor Management Plan
- h. Monitoring Facebook and Smell My City App
 - i. Mapping complaints with weather and location data
- i. Had meeting with BVU
 - i. Will have bi-weekly meetings to consider next steps
 - ii. Looking at benzine signatures
 - iii. Redamation options.
- j. Verifying Leachate and Gradient flow volumes
 - i. Still working on verifying 498 leachate flows
- k. Groundwater and stormwater monitoring event completed last week
- l. Will be on site and working with SCS on gas field repairs and maintenance
 - i. Met with SCS on site and SCS is working on a plan
 - 1. Identifying new gas well installation plan

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3. SCS:

Week of 5-31-21

- i. ARI air release valve was installed 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 6-7-21:

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