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
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.