BACWA Executive Board Update

July 16, 2021

Biosolids and Air Issues being addressed and timelines

<table>
<thead>
<tr>
<th>Biosolids Management</th>
<th>Description of Issue to Address</th>
<th>Action</th>
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<tbody>
<tr>
<td>Biosolids White Paper</td>
<td>Collaboration with SFEI, Ducks Unlimited, Sonoma Land Trust, and Regional Water Board to draft a white paper on biosolids land application in the Baylands</td>
<td>Drafting sections this week, Need subgroup review</td>
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<th>Air Issue or Regulation</th>
<th>Description of Issue to Address</th>
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<td>H₂S/Odor Emissions</td>
<td>Chlorine shortage leading to Ferric Chloride shortage, which will lead to H₂S/Odor emissions without an alternative</td>
<td>Inform BAAQMD, Coordinate members</td>
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<tr>
<td>Air Toxics</td>
<td>How do you respond to BAAQMD when staff ask members to estimate emissions for compounds we do not have approved methods for analysis and are unable to monitor?</td>
<td>Refer to CASA Summary Sheet, notify BACWA/CASA</td>
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<tr>
<td>Electrification vs Renewable Natural Gas (RNG)</td>
<td>Concepts for the development of clean energy and advanced clean vehicle regs have not included biogas/RNG as part of programs to reduce GHG emissions</td>
<td>CASA Subgroup meeting 7/19, CARB Board Member Outreach</td>
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Biosolids White Paper Land Application: Land Application of Biosolids in Baylands

- Sponsored by Sonomal Land Trust and to be posted by SF Bay Joint Venture
- Lead author: SFEI (support from Ducks Unlimited)
- BABC/BACWA invited to draft sections and review/edit entire document
- Regional Water Board to be integrated in review
- Structure similar to *San Pablo Baylands: Ensuring a Resilient Shoreline*
- Targeting ~20 pages by October 2021
- Outline has been revised with no objection to our edits
- Next Steps
  - Drafting sections this and next week with input from Greg Kester
  - Review by subgroup prior to stakeholder meeting (~Aug 15\textsuperscript{th})

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Biosolids White Paper Sections (Leads):
Land Application of Biosolids in Baylands

1. Introduction & Purpose (DU)
2. The Baylands Fringing San Francisco Bay (SFEI)
3. Biosolids (BABC/BACWA)
4. Current Regulation of Biosolids and Wetlands (BABC/BACWA & DU, respectively)
5. Why Baylands have Received Biosolids Historically (BABC/BACWA)
6. Biosolids in the Baylands
7. Future Compatibility of Biosolids Use in Baylands for Restoration and Conservation (DU)
8. Holistic Assessment of Biosolids Land Application in the Baylands (SFEI)
9. Are there Opportunities to Manage Baylands Restoration and Beneficial Use of Biosolids Projects Together? (BABC/BACWA & SFEI)
10. Recommendations

\textbf{Combine 5 & 6?}
\textbf{Combine 7 & 9?}
Odor Emissions: Chlorine shortage impacting Ferric Chloride supply

- Ferric Chloride supplier notified member they are unable to supply their next shipment
  - Chlorine shortage
  - Prioritizing water treatment
  - Uncertain timeline, but manufacturing appears to be resuming (after recovering from fire impact)
- Some members have short supply on hand and likely to emit odors without an alternative
- Reaching out to BAAQMD Permit Staff and informing BAAQMD Leadership for our next meeting discussion

Air Toxics: How do WWTPs comply with the new reporting requirements?

- WWTPs to report business as usual through 2028
  - Most new compounds do not have approved sampling or laboratory methods
  - Two-step process will serve as “best available data and methods”

- Perform “two-step process” to determine relevant compounds to quantify and report:
  1. Scanning air space of unit processes for determining detectable compounds
  2. Quantification Process (Mimic 1990 Pooled Emissions Estimation Program)
     - Quantification methods approved by CAPCOA
     - Toxicity potentials approved OEHHA Scientific Review Panel
Air Toxics: How do WWTPs comply with the new reporting requirements?

- Next steps:
  - Refer CASA Summary Sheet to educate WWTP staff and air district staff
  - Notify CASA/BACWA if Air District requests estimates of new compounds
  - CASA to draft proposal for performing the Two-Step Process with members over the next 6 months
  - Executing the Two-Step Process requires various steps (over next 5 years)

Electrification vs Renewable Natural Gas (RNG)

- SB 100: Renewable and zero-carbon resources to supply 100% of electric retail sales by 2045
  - State agencies have not included RNG as part of their programs and not responsive to our comments

- Developing Advanced Clean Vehicle regulations target zero-emission vehicles by 2045 with government entities viewed as early adopters
  - CARB has not included near-zero emission vehicles (fueled by RNG) as part of programs in the concepts presented

- Next Steps
  - CASA Subgroup meeting Monday, July 19th, to develop key asks for CARB Board Member outreach to influence draft regulation
  - Comment on draft regulations in fall ’21 and again in the winter/spring ’22
Thank you!