Agenda

Ad Hoc Committee to Study the Five-Year Countywide Integrated Waste Management Plan (CIWMP) Update

Date: Friday, August 9, 2019
Time: 10:00 a.m. to 12:00 p.m.
Location: 455 County Center, 4th Floor, Conference Room 402, Redwood City, CA

1. Introductions

2. Oath of office

3. Election of chair
   (Eun-Soo Lim – Ad Hoc Committee Staff) Action

4. Public comment for items not on the agenda

5. Overview of California’s Brown Act
   (Matthew Sanders – Deputy County Counsel, County of San Mateo)

6. History of AB 939, CIWMP elements, city annual reporting, CIWMP review, and Ad Hoc Committee task
   (Gordon Tong – Resource Conservation Program Manager, County of San Mateo)

7. Overview of approach for review of CIWMP elements
   (Gordon Tong – Resource Conservation Program Manager, County of San Mateo)

8. Review of CIWMP Siting Element: Ox Mountain Landfill and remaining capacity
   (Monica Devincenzi – Municipal Relationship Manager, Republic Services)
   (Gordon Tong – Resource Conservation Program Manager, County of San Mateo)

9. Review of CIWMP Non-Disposable Facility Element
   (Eun-Soo Lim – Ad Hoc Committee Staff)

10. Set next Committee meeting date as Friday, August 23, 2019, 10:00 a.m. to 12:00 p.m. at 455 County Center, 4th Floor, Conference Room 402, Redwood City, CA
Item 1: Introductions

Item 2: Oath of Office

Item 3: Election of Chair
   • Action Item

Item 4: Public comment for items not on the agenda
Item 5: Overview of California’s Brown Act

• **Speaker:** Matthew Sanders, Deputy County Counsel, County of San Mateo
Item 6: History of AB 939, CIWMP elements, city annual reporting, CIWMP review, and Ad Hoc Committee task

• **Speaker**: Gordon Tong, Resource Conservation Program Manager, County of San Mateo
CIWMP

• AB 939 – Integrated Waste Management Act
  – 25% diversion by 1995, 50% waste diversion by 2000 for each jurisdiction
    • Changed in 2007 to a daily disposal rate (lbs/person/day) and to focus on programs
  – Requires development of a Countywide Integrated Waste Management Plan (CIWMP)
CIWMP

Composed of five parts:

1. Source Reduction and Recycling Elements (SRREs)
2. Household Hazardous Waste Elements (HHWEs)
3. Non-disposal Facility Element (NDFE)
4. Siting Element (SE)
5. Summary Plan (SP)
CIWMP

• SMC Plan adopted in 1999
• Electronic Annual Report reviewed every year
• CIWMP to be reviewed every five years
    • No significant revisions to CIWMP determined to be necessary
  – Deadline: November 15, 2019
  – Review determines whether or not CIWMP needs to be revised and updated
Grand jury: San Mateo County facing major waste challenges

By Kasey Carlson Bay City News Service 13 hrs ago 0

San Mateo County and its cities face major challenges in managing their waste disposal and recycling needs, according to a report issued Tuesday by the county's Civil Grand Jury.

The grand jury found that the county's current waste management strategies are insufficient to meet the growing demand for recycling and waste disposal. They recommended that the county develop a comprehensive waste management plan that includes strategies for increasing recycling rates, reducing waste generation, and improving the efficiency of waste disposal facilities.

The grand jury also called for increased funding for waste management programs and urged the county to explore alternative methods of waste disposal, such as composting and anaerobic digestion.

A worker snatches valuable metals and type 1 and 2 plastics missed by automated sorting machines earlier in the process at the RethinkWaste Shoreway Facility in San Carlos.

Andrea Luan/Daily Journal
Roles

- **County of San Mateo**
  - Responsible for the development and management of the CIWMP and the Five-Year Review Report

- **C/CAG**
  - Acts as the Local Task Force, vehicle through which stakeholders can provide comments

- **Ad-Hoc Committee**
  - Tasked by C/CAG to review the CIWMP and provide recommended findings to the C/CAG board
  - Determines whether or not a revision to the CIWMP is needed *(does not actually revise the plan)*
Review Process

• C/CAG forms ad hoc review committee

• Committee reviews CIWMP and submits recommended findings to C/CAG

• C/CAG approves and sends findings to the County

• County incorporates findings into the Five-Year Review Report to CalRecycle for review and approval

• If Review Report concludes a revision is necessary, must include schedule for revising the CIWMP
## Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 13, 2019</td>
<td>Formation of ad-hoc committee by C/CAG</td>
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<tr>
<td>July 11, 2019</td>
<td>Ad-hoc committee roster approved</td>
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<tr>
<td>August 9, 2019</td>
<td>First meeting with the ad hoc committee</td>
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<tr>
<td>August 23, 2019</td>
<td>Second meeting with the ad hoc committee</td>
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<tr>
<td>September 4, 2019</td>
<td>Third meeting with the ad hoc committee (if necessary)</td>
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</table>
| October 10, 2019    | - Presentation to C/CAG on ad hoc committee findings and recommendations  
                      | - Approval of findings for submission to CalRecycle and County       |
| November 12, 2019   | County Board of Supervisors approval of five-year Review Report for submission to CalRecycle |
| February 12, 2020   | Deadline for CalRecycle to approve/disapprove the five-year review report |
Item 7: Overview of approach for review of CIWMP elements

- **Speaker**: Gordon Tong, Resource Conservation Program Manager, County of San Mateo
Review Process

- Read through original documents, determine if outdated based on knowledge and/or reference documents
  - **SRREs**: compare with each city’s Electronic Annual Report (EAR) and County’s Annual Outreach Summary
  - **SE**: compare with latest reports from Ox Mountain and information from CalRecycle’s database
  - **HHWE**: compare with the EARs
  - **NDFE**: compare with CalRecycle’s and County’s databases
- Staff and select committee members to provide summary of differences for committee review and discussion
Item 8: Review of CIWMP Siting Element – Ox Mountain Landfill and remaining capacity

• Speakers:
  – Gordon Tong, Resource Conservation Program Manager, County of San Mateo
  – Monica Devincenzi, Municipal Relationship Manager, Republic Services
Ox Mountain Landfill

CIWMP Review Ad Hoc Committee
County Center
August 9, 2019
Background

1. Ox Mountain also known as Corinda Los Trancos Landfill
2. Only remaining operational landfill in San Mateo County
3. Fully permitted Class III disposal facility
4. Current footprint is 191 acres on a 2,786 acre property
5. Owned and operated by Browning Ferris Industries of California Inc., a wholly owned subsidiary of Republic Services
6. Site opened in 1976 with 51 acres by San Mateo Scavengers
7. Capacity expanded to 60,500,000 cubic yards in 1999, enlarging permitted disposal area to 191 acres
Current

1. Permitted capacity remains at 60,500,000 cubic yards
2. Aerial surveys conducted annually to determine remaining capacity
3. Most recent aerial survey conducted January 22, 2019
4. Projected remaining airspace volume (capacity) as of 12/31/2019: 18,206,200 cubic yards
5. At current rate of inbound volume, site will max its current permitted capacity in 2039.
6. Site currently achieves an average density of 2,200 pounds per cubic yard (pp/cy), national average is 1,200 pp/cy
Other Information

1. Permitted operating hours 4 am-4:30 pm, Monday-Saturday

2. Includes one of the largest Bay Area renewable energy project through its landfill gas-to-energy (LFGTE) operations
   - Supplies enough renewable energy to power more than 11,900 average-sized homes in Alameda and Palo Alto. The annual electricity generated by the Ox Mountain facility prevents the release of 71,000 tons of greenhouse gas emissions into the atmosphere.

3. Regularly evaluating feasibility of diversion-related programs
Contact Information

Mike Mahoney
General Manager
415-604-9010
mmahoney2@republicservices.com

Monica Devincenzi
Municipal Relationship Manager
415-604-9014
mdevincenzi@republicservices.com
Overview

The siting element includes:

- Existing Solid Waste Disposal Facilities
- Disposal Capacity Requirements
- Siting Criteria for Disposal Facilities
- Location and Description of Proposed New and Expanded Facilities
- Roles of Relevant Agencies & Organizations
Siting Element Changes

– Hillside Landfill has closed since the SE was developed.

– Ox Mountain Landfill capacity has increased from 38.9 million cubic yards to 60.5 million cubic yards.

– Permit dates for Ox Mountain are outdated.

– Given that Hillside Landfill has closed, the total capacity for the county listed in the SE is outdated.

– The table listed which estimates the disposal requirements for San Mateo County only goes up to 2012. Current estimates are for 19 more years.

– Siting criteria needs to include language around environmental justice

– Responsible parties need to be updated to reflect the new name of the SBWMA and the Office of Sustainability (instead of Public Works)
# Disposal Capacity

## TABLE III-2
**Disposal Requirements for San Mateo County (Cubic Yards) for the 15-Year Planning Period 1998-2012/a/**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Generation</th>
<th>Diversion</th>
<th>Disposal</th>
<th>Exports</th>
<th>Imports</th>
<th>Annual Disposal Needs</th>
<th>Remaining Capacity</th>
<th>Additional Capacity Needed</th>
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<tbody>
<tr>
<td>1998</td>
<td>1,960,648</td>
<td>606,736</td>
<td>1,353,912</td>
<td>13,562</td>
<td>92,539</td>
<td>1,432,889</td>
<td>22,846,560</td>
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<td>1999</td>
<td>2,000,452</td>
<td>813,942</td>
<td>1,186,510</td>
<td>13,837</td>
<td>94,418</td>
<td>1,267,091</td>
<td>21,413,671</td>
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<td>2000</td>
<td>2,070,615</td>
<td>1,035,308</td>
<td>1,035,308</td>
<td>14,323</td>
<td>97,729</td>
<td>1,118,714</td>
<td>20,146,581</td>
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<td>2001</td>
<td>2,099,145</td>
<td>1,049,573</td>
<td>1,049,573</td>
<td>14,520</td>
<td>99,076</td>
<td>1,134,128</td>
<td>19,027,866</td>
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<td>2002</td>
<td>2,128,068</td>
<td>1,064,034</td>
<td>1,064,034</td>
<td>14,720</td>
<td>100,441</td>
<td>1,149,755</td>
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<td>2003</td>
<td>2,157,389</td>
<td>1,078,695</td>
<td>1,078,695</td>
<td>14,923</td>
<td>101,825</td>
<td>1,165,597</td>
<td>16,743,983</td>
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<td>2004</td>
<td>2,187,115</td>
<td>1,093,557</td>
<td>1,093,557</td>
<td>15,128</td>
<td>103,228</td>
<td>1,181,657</td>
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<td>2005</td>
<td>2,217,250</td>
<td>1,108,625</td>
<td>1,108,625</td>
<td>15,337</td>
<td>104,650</td>
<td>1,197,938</td>
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<td>2006</td>
<td>2,239,279</td>
<td>1,119,640</td>
<td>1,119,640</td>
<td>15,489</td>
<td>105,690</td>
<td>1,209,840</td>
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<td>2007</td>
<td>2,261,528</td>
<td>1,130,764</td>
<td>1,130,764</td>
<td>15,643</td>
<td>106,740</td>
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<td>2008</td>
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<td>15,799</td>
<td>107,800</td>
<td>1,234,000</td>
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<td>2009</td>
<td>2,306,690</td>
<td>1,153,345</td>
<td>1,153,345</td>
<td>15,955</td>
<td>108,872</td>
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<td>2010</td>
<td>2,329,608</td>
<td>1,164,804</td>
<td>1,164,804</td>
<td>16,114</td>
<td>109,953</td>
<td>1,258,643</td>
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<td>2011</td>
<td>2,353,437</td>
<td>1,176,719</td>
<td>1,176,719</td>
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<td>111,078</td>
<td>1,271,518</td>
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<td>2012</td>
<td>2,377,510</td>
<td>1,188,755</td>
<td>1,188,755</td>
<td>16,445</td>
<td>112,214</td>
<td>1,284,524</td>
<td>5,756,668</td>
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<td>2013</td>
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<td>4,472,145</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td>32,972,732</td>
<td>15,926,494</td>
<td>17,046,238</td>
<td>228,074</td>
<td>1,556,252</td>
<td>18,374,416</td>
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</tr>
</tbody>
</table>

\*a/ A conversion factor of 1.63 cubic yards per ton for waste going to Hillside Landfill, and 1.85 cubic yards per ton for waste going to Ox Mountain Landfill was used to calculate volumes for generation, disposal, diversion, "annual disposal needs", imports, and exports. The conversion factor is calculated from the in-place density factors described in Footnote 'g' of Table III-1. For 1998 and 1999 we used a combined conversion factor, based on an assumption that Hillside Landfill would receive 75,000 tons during each of these two years, and that Ox Mountain Landfill would receive the balance of the tonnage indicated in the "Annual Disposal Needs" column of Table III-1. For the year 2000 and thereafter, we used the conversion factor for Ox Mountain Landfill applied to the entire quantity of the "Annual Disposal Needs" column.
Item 9: Review of CIWMP
Non-Disposable Facility Element

• Speaker: Eun-Soo Lim, Ad Hoc Committee Staff

• The Non-Disposal Facility Element (NDFE) identifies the non-disposal facilities to be used by a jurisdiction to assist in reaching the state’s diversion mandates.
Non-Disposable Facility Element (NDFE)

- Amendments: 2004 and 2010
- Non-disposal facility:
  - Materials recovery facilities (MFRs), compost facilities, and transfer stations
  - Optional: Recycling centers, drop-off centers, HHW facilities, etc.
- Facilities that:
  - Are permitted to handle solid waste
  - Recover for reuse or recycling at least 5% of the total volume of material received by the facility
  - Are within and outside jurisdiction
  - Are existing and proposed
Non-Disposal Facility Information

1. Type of facility
2. Facility capacity
3. Anticipated diversion rate or expected diversion rate from total amount of waste that facility receives
4. Participating jurisdictions
5. Address of facility (optional)
6. Description of the general area (include a land use map, zoning map, or other type of planning map) (optional)
Non-Disposal Facilities in NDFE (2009 Amendment)
Changes in Non-Disposal Facilities

• Potential non-disposal facilities to add
  – West Contra Costa County Composting Facility (Richmond)
    • Republic
  – South Valley Organics (Gilroy)
    • Recology of the Coast, Recology of San Bruno
  – Napa Recycling & Composting Facility (Napa)
    • SSF Scavenger (digestate)
  – Ben Lomond (Santa Cruz County)
    • Kunz Valley Trash
Item 10: Set next Committee meeting date (Action Item)

- **Date and Time:** Friday, August 23, 2019, 10:00 a.m. to 12:00 p.m.
- **Venue:** 455 County Center, 4th Floor, Conference Room 402, Redwood City, CA
- **Items for next meeting**
  - Election of a vice chair
  - Report on results of review of HHW and Source Reduction and Recycling Elements
Thank you!