



City of Berkeley ZERO WASTE COMMISSION Regular Meeting

Monday, February 28, 2022 at 7:00 p.m.

PUBLIC ADVISORY: THIS MEETING WILL BE CONDUCTED EXCLUSIVELY THROUGH ZOOM VIDEOCONFERENCE AND TELECONFERENCE

Pursuant to Government Code Section 54953(e) and the state declared emergency, this meeting of the City of Berkeley Zero Waste Commission will be conducted exclusively through teleconference and Zoom videoconference. The COVID-19 state of emergency continues to directly impact the ability of the members to meet safely in person and presents imminent risks to the health of attendees. Therefore, no physical meeting location will be available.

To access the meeting remotely: Join from a PC, Mac, iPad, iPhone, or Android device, please use this URL to join the meeting:

<https://us02web.zoom.us/j/82587046286>

If you do not wish for your name to appear on the screen, then use the drop-down menu and click on "rename" to rename yourself to be anonymous. To request to speak, use the "raise hand" icon by rolling over the bottom of the screen. **To join by phone: Dial 1-669-900-9128 and enter Meeting ID: 82587046286#.** If you wish to comment during the public comment portion of the agenda, Press *9 and wait to be recognized by the Chair. Note: Your phone number will appear on the videoconference screen.

MEETING AGENDA

PRELIMINARY MATTERS:

- 7:00 pm 1. Call to Order by Chair and Roll Call by Secretary
- **Christienne de Tournay (Chair)**, appointed by CM Sophie Hahn, District 5
 - **Annette Poliwka (Vice Chair)**, appointed by Mayor Jesse Arreguin
 - **Steven Sherman**, appointed by CM Rashi Kesarwani, District 1
 - **Rachel Doughty**, appointed by CM Terry Taplin, District 2
 - **Antoinette Stein**, appointed by CM Ben Bartlett, District 3
 - **Jack Kurzweil**, appointed by CM Kate Harrison, District 4
 - **Sandra Curtis**, appointed by CM Susan Wengraf, District 6
 - **Nicole Ulakovic**, appointed by CM Rigel Robinson, District 7
 - **VACANT**, appointed by CM Lori Droste, District 8
- 7:05 pm 2. Approve Meeting Agenda and Order of Agenda Items
- 7:10 pm 3. Approve Draft Action Minutes:
- January 24, 2022 Regular Meeting*

7:15 pm 4. Public Comment on Items Not on the Agenda
Speakers are allotted up to two minutes. Speakers may be allotted less time at the discretion of the Chair.

7:25 pm 5. Commissioner Announcements
Commissioners may make general announcements; no action will be taken.

DISCUSSION AND ACTION ITEMS:

Members of the public may provide comments at the end of each discussion item and prior to the vote of the Commission on any action items. Speakers are allotted up to 2 minutes.

7:30 pm 1. FY 2022 Department Top Goals and Projects,* Departmental Performance Measures,* and FY 2023 Priorities - 10 minute overview provided by Liam Garland, Public Works Director, with 15 minutes available for discussion/Q&A*

7:55 pm 2. Discussion and possible action to recommend Council requests Zero Waste Commission's analysis and advice whenever staff makes proposed changes to the zero waste rate structure prior to submittal by staff to Council*

- Powerpoint presentation entitled "Zero Waste Division: Priorities and 5 Year Rate Study" presented at the Dec. 7, 2021 Council work session is attached in the agenda packet* and is also available here:
[https://www.cityofberkeley.info/Clerk/City_Council/2021/12_Dec/Documents/2021-12-07_\(WS\)_Presentations_Item_3_Pres_Public_Works_pdf.aspx](https://www.cityofberkeley.info/Clerk/City_Council/2021/12_Dec/Documents/2021-12-07_(WS)_Presentations_Item_3_Pres_Public_Works_pdf.aspx)
- Link to staff report on proposed rates:
https://www.cityofberkeley.info/Clerk/City_Council/2021/12_Dec/Documents/2021-12-07_Item_03_Zero_Waste_Fund_Proposed_5-Year.aspx
- Link to Council work session video:
http://berkeley.granicus.com/MediaPlayer.php?publish_id=db509451-591f-11ec-85e3-0050569183fa

8:10 pm 3. Update from Community Conservation Centers on Mixed Plastics

8:25 pm 4. Elections for Commission Chair and Vice Chair*

8:35 pm 5. Discussion and possible action to recommend Council supports State legislation Assembly Bill 1857 to Move California Away from Dangerous and Dirty Waste Incinerators*

8:45 pm 6. Discuss Future Agenda Items

9:00 pm 7. Adjournment

INFORMATION ITEMS:

Information items may be moved to discussion but no action will be taken.

- Steven Sherman forwarded the following article: California Launches Innovative Textiles Circularity Projects: Part 1. Article link available here: <https://www.waste360.com/textile/california-launches-innovative-textiles-circularity-projects-part-1>

COMMUNICATIONS:

Communications from the public are included as links or attachments in the agenda packet.

- Peter Schultz-Allen sent the founding document of the Solid Waste Management Commission* with a note that “the 2nd reading (and final passage) was on April 25, 1972 – around the 3rd Earth Day.”
- Peter Schultz-Allen sent the Compost Use Best Management Practices agenda* and webinar recordings that are now available on the [CalRecycle YouTube site](#).
 - Day one can be found [here](#)
 - Day two can be found [here](#)

*Indicates material included in the agenda packet

** Indicates material to be available at the meeting



ADA Disclaimer: This meeting is being held in a wheelchair-accessible location. To request a disability-related accommodation(s) to participate in the meeting, including auxiliary aids or services, please contact the Disability Services Specialist at 981-6418 (V) or 981-6347 (TDD) at least three business days before the meeting date. Please refrain from wearing scented products to this meeting.

SB 343 Disclaimer:

Any writings or documents provided to a majority of the Commission regarding any item on this agenda will be made available for public inspection at the Public Works Department located at the address below.

Communications Disclaimer:

Communications to Berkeley boards, commissions or committees are public record and will become part of the City’s electronic records, which are accessible through the City’s website. Please note: e-mail addresses, names, addresses, and other contact information are not required, but if included in any communication to a City board, commission or committee, will become part of the public record. If you do not want your e-mail address or any other contact information to be made public, you may deliver communications via U.S. Postal Service or in person to the secretary of the relevant board, commission or committee. If you do not want your contact information included in the public record, please do not include that information in your communication. Please contact the secretary to the relevant board, commission or committee for further information.

Commission Secretary:

Heidi Obermeit, Recycling Program Manager,
Zero Waste Division, 1201 2nd St. Berkeley, CA 94710
510-981-6357
hobermeit@cityofberkeley.info

MINUTES

The meeting was convened at 7:04 p.m. with Chrise de Tournay, Chair, presiding.

ROLL CALL

Present: Chrise de Tournay, Annette Poliwka, Steven Sherman, Rachel Doughty, Margo Schueler, Sandra Curtis, Nicole Ulakovic
LOA: None
Absent: Antoinette Stein

STAFF PRESENT: Heidi Obermeit, Greg Apa

MEMBERS OF THE PUBLIC PRESENT: 5

PUBLIC COMMENTS (on non-agenda items): 4

ACTION MINUTES:

1. Approval of the January 24, 2021 Regular Meeting Agenda

Action Taken: M/S/C (de Tournay/Poliwka) to approve the meeting agenda for Jan. 24, 2022.
Ayes: Unanimous; Abstain: None; Absent: Stein

2. Approval of the November 15, 2021 Regular Meeting Minutes

Action Taken: M/S/C (Poliwka/Curtis) to approve the Nov. 15, 2021 meeting minutes.
Ayes: de Tournay, Poliwka, Sherman, Doughty, Curtis, Ulakovic
Abstain: Schueler; Absent: Stein

3. Staff presentation on the 2021 Mattress Recycling Pilot Program Results

No action taken; discussion only
Public Comment: 1

4. Discussion and possible action to advise Council to add an informational sheet on our collections, laws (illegal dumping) and resources to all leases in Berkeley

No action taken; discussion only. Item will be carried over for discussion at a future meeting.
Public Comment: 1

5. Discussion and possible action to send a recommendation to Council to adopt a Zero Waste Resolution

No action taken; discussion only. Item will be carried over for discussion at a future meeting.
Public Comment: 0

6. Discussion and possible action on recommendations for the new Environment and Climate Commission enabling legislation.

Action Taken: Due to Council's vote on January 18 to retain the Zero Waste Commission as an independent Commission (Zero Waste will not be merged into the consolidated Environment and Climate Commission), the Commission took action to create a subcommittee to discuss

Zero Waste goals and actions to best align the Zero Waste Commission with City zero waste goals. The following Commissioners volunteered to be members of this subcommittee:

Chrise de Tournay, Sandra Curtis, Steven Sherman, Annette Poliwka.

Ayes: Unanimous; Abstain: None; Absent: Stein

Public Comment: 4

7. Discuss future agenda items

- Continue discussion re: adding City collections/illegal dumping requirements/laws, resources, and information to tenant leases
- Continue discussion re: recommendation to adopt a Zero Waste Resolution
- Public Works Director to discuss City zero waste priorities/how the Zero Waste Commission can best align with those priorities and possible report back from the Subcommittee on Zero Waste Goals and Actions
- Develop FY 22-23 Work Plan
- February elections for Commission Chair/Vice Chair
- Update from CCC on Mixed Plastics

Public Comment: 0

8. Adjournment at 9:01 p.m. in honor of Will Bakx, the “conscience of the composting industry”

M/S/C (Sherman/de Tournay) to adjourn the meeting.

Ayes: Unanimous; Abstain: None; Absent: Stein

The next regular meeting of the Zero Waste Commission will be held on Monday, February 28, 2022 at 7:00 p.m. by virtual videoconference/teleconference. The link to access the virtual meeting will be posted to the Community Calendar: www.cityofberkeley.info/communitycalendar/

Respectfully Submitted:

Heidi Obermeit, Secretary

FY 2022 Berkeley Public Works: Top Goals and Projects

Committed to providing quality services to the Berkeley community with pride, courtesy, and excellence.

Goals:

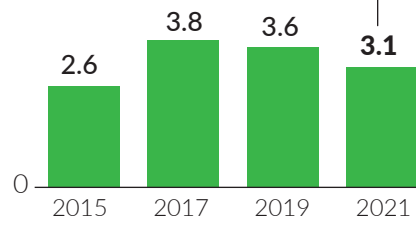
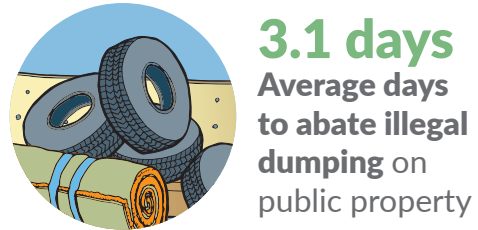
1. ● Reduce vacancy rate from 16% to 8% for at least one month. LG/SO
2. ● Achieve 98%+ days without worker-related injury. JB/GA/DP
3. Increase **staff survey responses by 10%** (to 130) and **engagement mean by 6%** (to mean satisfaction of 3.54).
4. ● Provide 90%+ weekly, scheduled litter/trash/encampment pickups, track tonnage collected, and offer RV waste disposal option. JB/JH
5. ● Reduce 2019 sidewalk backlog by 65%. JE/TS
6. ● Close CC referrals and audit findings: **Dwight Triangle** (OED/FJ), Ward Paving (JE), scooters and shared dockless mobility program (FJ), one-way 62nd St/King (FJ), **RPP overhaul** (FJ/GH), Commission consolidation (JE,HO,FJ,DB), and paving (AB/JE).
7. ● Continue progress on CC referrals and audit findings: BerkDOT (LG/FJ), fleet replacement (SO/GE), Equitable Clean Streets (JB/JH), **Civic Center Vision Planning**, **Cameras in ROW(TBD)**, and **Hopkins Corridor** (FJ/BT).
8. ● Propose internal service funds for FY 23 that identify funding gap, reduce deferred mtce in fleet and facilities, consider right-sizing fleet, involve client departments (and radios), and are transparent. SO
9. ● Complete all division meetings, skip levels, all staff survey, adopt/update top goals/projects and performance measures, and succession planning for Sr. Supervisors on up. LG
10. ● Implement new comprehensive planning policy, public engagement policy, and equity into both paving and wastewater. (LG/AB/FJ/JB)
11. ● Train division managers, superintendent, and Sr. Supervisors on budgets, contracting, and invoice processing. SO
12. ● By Feb 2022, track percent of PW capital projects' expended-or-encumbered v. budgeted. SO

Projects

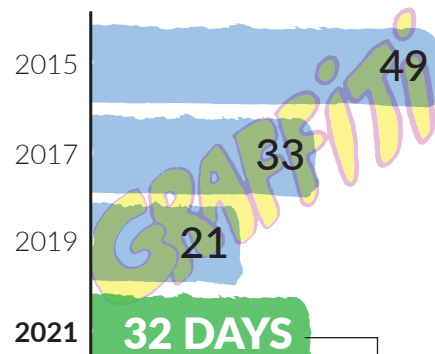
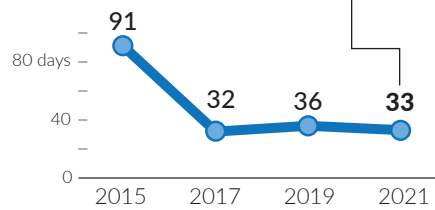
1. ● Propose infrastructure-focused revenue measure for placement on Nov 2022 ballot, and evaluate current/future capital delivery. (LG/AB)
2. ● Improve traffic safety by initiating VZ Coordinating Committee (EA); **study Adeline reconfiguration, traffic calming at MLK/Stuart (and quick builds), ped/bike safety along Oxford**, and University and Ashby Interchanges (FJ/HM); recommend next phase of Healthy Streets (FJ/RM); complete design of Cragmont mitigations (FJ), **Southside Complete Streets (KJ/BT)**, 7th/Anthony traffic signal (FJ/KJ), and Dana Transit Lane pilot (BT/DY); bid **Woolsey/Eton traffic circle** (JE/KJ); ongoing construction of Gilman Interchange (FJ/HM); and complete construction of **Sacramento**, Central, Cal/Dwight projects (KJ/RN), RRFBs at Claremont/Eton and Claremont/Russell (FJ/JP); and secure \$1M in new grants (FJ/BT).
3. ● Implement FY 22 CIP: Annual Paving and Channing GI (AB/JE), **UUD #48** (AB/DA/RB), Cyclic Sewer (JE/DA), **5 charging stations incl CY, if funded (EK)**; 1951 Shattuck (FJ/PC and SO); 125-127 Univ (EK); begin construction on Marin/Virginia/Spruce drain improvements (JE/WW); **FS #3 Roof Replacement**; and purchase 8 PD Hybrids and 14 BEVs (JB/GE).
4. ● Adopt and implement SB 1383 and *Single Use Foodware Ordinance*; **propose 5-year rate schedule**; **complete 50% of ZW Strategic Plan**; and continue Transfer Station Redesign enviro's. GA/HO
5. ● Start T1, Phase 2: plan FS 2/6 (EK), Corp Yard (EK/TC), and paving; design SBSC (EK/IL), 1947 Center (EK/IL), solar battery storage (EK/UG), and bollards (JE/TS); start constructing one ROW bathroom (EK) and pathways (JE/TS); and complete **Phase 1's NBSC** (EK) and 125-127 Univ (EK/TC).
6. ● Propose 5-Year Paving Plan and Policy, including equity component. AB/JE
7. ● Gain acceptance of **PSL TRANSFER TO EBMUD (RN)**; **paving/solid waste** and **sewer nexus** studies (GA/DA), **draft bike plan** (RM/BT), **watershed management/storm drain plan** (JE/RS), **MLA for small cells** (AB/RN); **sewer comprehensive plan and 5-years of rates** (JE/DA), ADA Transition Plan (AB/DB), long term resurfacing plan (JE), streetlight plan (AB/RB), asset management plan (LG), and UUD/Rule 20b guidelines (AB).
8. ● Initiate dept strat plan (LG), **BeST update** (BT), and **race and equity action plan** (LG).
9. ● Stand up and use NexGen (JB), AssetWorks (JB), **AMCS** (GA), and web-site replacement (CL), and ensure PMs programmed into systems (JB).

PERFORMANCE AND WORK MEASURES, APRIL 2021

CUSTOMER SERVICE



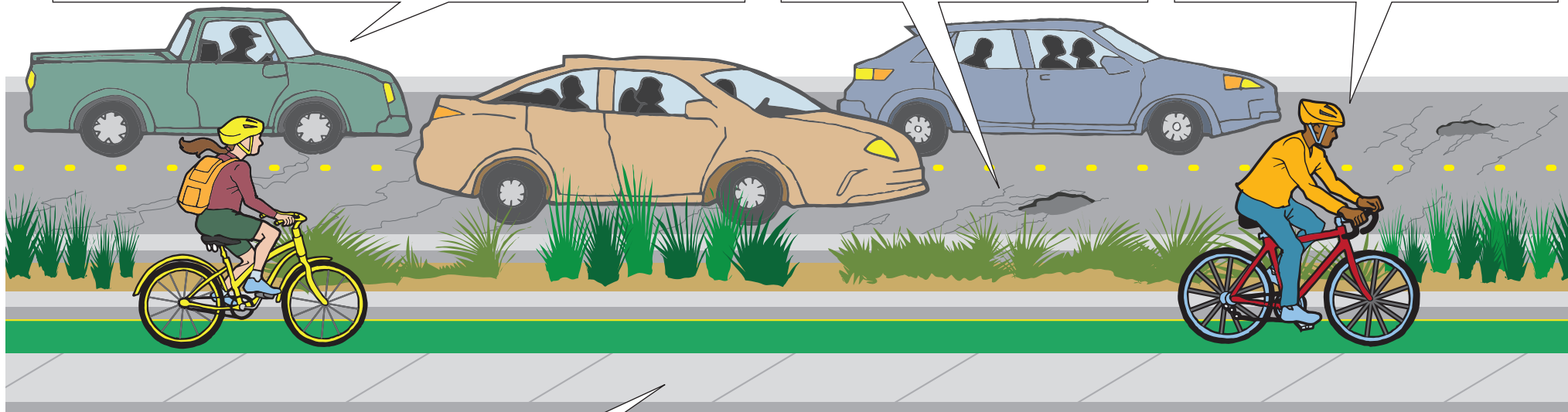
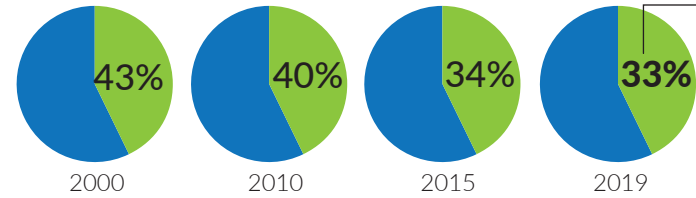
33 days
Average days to fill pothole



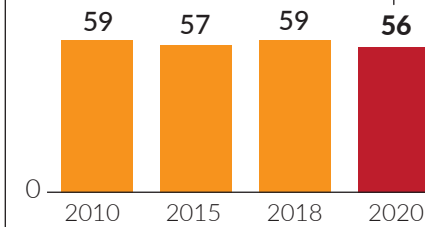
Average days to abate graffiti

INFRASTRUCTURE PERFORMANCE

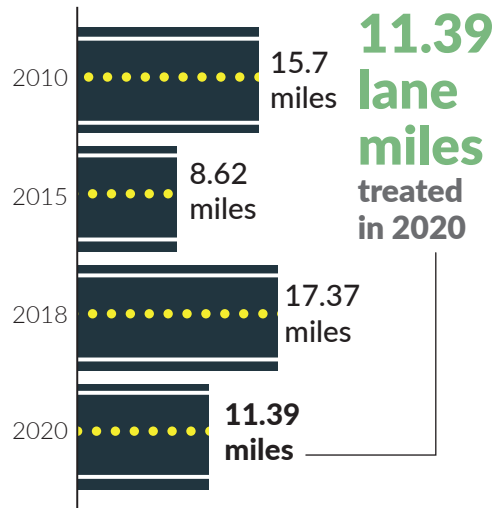
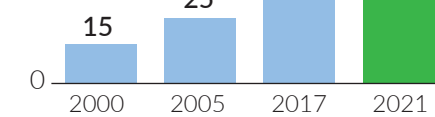
33% of commute trips by solo occupant vehicle in 2019



56 Pavement Condition Index in 2020

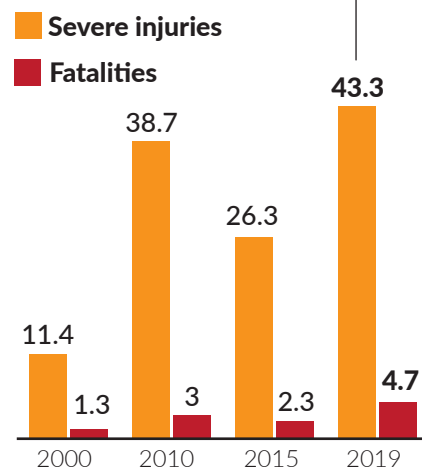


52.5 total miles of bicycle infrastructure



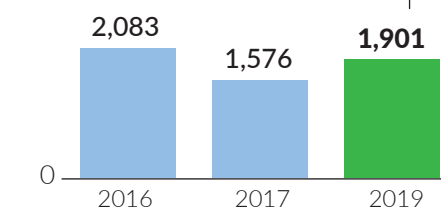
11% drop in sidewalk backlog (3644 locations in 2020)

Three year average of severe injuries / fatalities on City streets in 2019



100% Environmental Compliance with Storm and Sewer Requirements (2019: 100%, 2015: 100%, 2010: 100% 2000: 95%/100%)

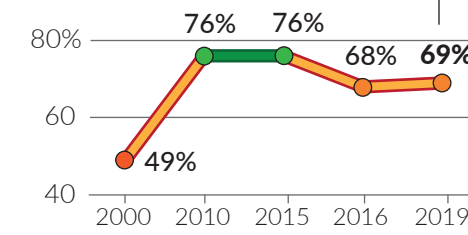
1,901 cubic yards of trash prevented from reaching the Bay in 2019



41 acres treated by Green Infrastructure in 2020

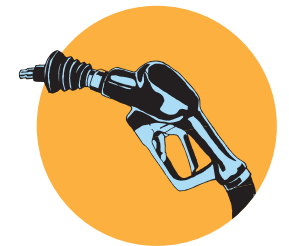


69% of waste diverted from landfill in 2019

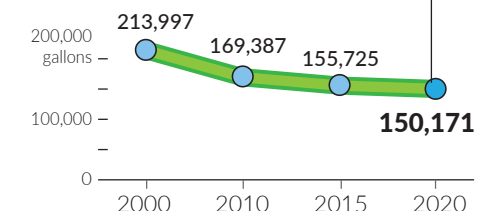


INTERNAL SERVICES

51 City Owned Electric Chargers in 2021. There were 0 in 2015.

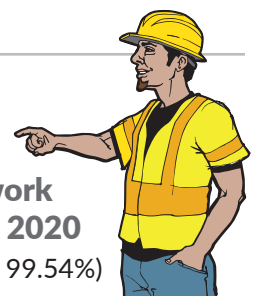


150,171 Gallons of gas used by City Fleet (down 30% from 2001)



Accredited by the American Public Works Association? Yes, in 2000 and re-accredited 2004, 2009, 2014, and 2018.

99.89% of staff time at work without injury in 2020 (2019: 98.5%, 2018: 99.54%)



Zero Waste Commission Agenda Item #1:

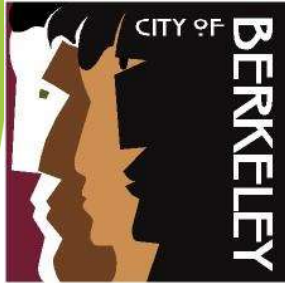
Questions for Public Works Director from Zero Waste Commissioner Steven Sherman

The commission can leverage relatively small investments of staff time to move the needle on the big picture—key plans, policies, rates, services, enforcement, and staffing.

I have several questions for Director Garland. It would be helpful to address:

1. What role would you like to see the commission have in the upcoming strategic planning process?
2. What role would you like to see the commission have in the development of future rate structure proposals?
3. The recycling/waste reduction section operates with fewer experienced professional-level staff than it used to, yet has more responsibilities now, especially with State of California SB1383 regulations upon us. What are your thoughts about future professional-level staffing (i.e., greater experience and skills than field reps) needs?
4. Weekly collection of residential trash and recyclables is expensive. We need weekly collection of organics. Some cities offer every-other-week collection of trash and recyclables as the default, as a way to align services with needs, and to tamp down on costs. How interested are you in pursuing this approach, even on a pilot basis?
5. Landfill diversion, greenhouse gas reduction, and waste reduction suggest different priorities in terms of material types to target.
A focus on landfill diversion (tons kept out of landfill) suggests a focus on high-weight divertable materials such as C&D materials and food scraps; for greenhouse gas reduction, food scraps and food-soiled paper; and for environmental sustainability/resource conservation, a multiplicity of waste prevention (not diversion through recycling/composting) efforts.
Which of the three—landfill diversion, GHG reduction, or waste reduction—deserves the highest priority and why?
6. In what specific areas do you see opportunities for greater integration of programs and approaches across environmental sectors within the city, and how can we support those efforts?

Prepared by Steven Sherman, Zero Waste Commissioner, District 8 resident, appointed by Councilmember Kesarwani, stevenericsherman@gmail.com 510-773-2776



Zero Waste Division: Priorities and 5 Year Rate Study

December 7, 2021 Work Session



Zero Waste Priorities

- ▶ Customer Service
 - ▶ May 2021: 520 customers, 4.9% (residential) to 10.4% (commercial) margins of error
 - ▶ 85-92% customer satisfaction in residential, 70% find rates reasonable (10% unreasonable)
 - ▶ 61-63% customer satisfaction in commercial, 48% find rates reasonable (28% unreasonable)
- ▶ Only 69% diversion
 - ▶ Not global leadership
 - ▶ Hiring more field representatives
 - ▶ Zero Waste Strategic Plan process initiated
- ▶ Vacancies
 - ▶ Public Works: 17%+ and rising
 - ▶ Zero Waste Division: as much as 42% on some days

Zero Waste Rate History

- ▶ Initial Five (5) Year Rate Schedules with Resolution No. 66,600 - N.S. by City Council May 20, 2014. Scheduled rate adjustments FY2015 through FY2019
- ▶ Input incorporated from City Council's September 2019 Work Session
- ▶ No increases FY2021 and FY2022 despite rising costs

2014 Rate Study Assumptions & Results

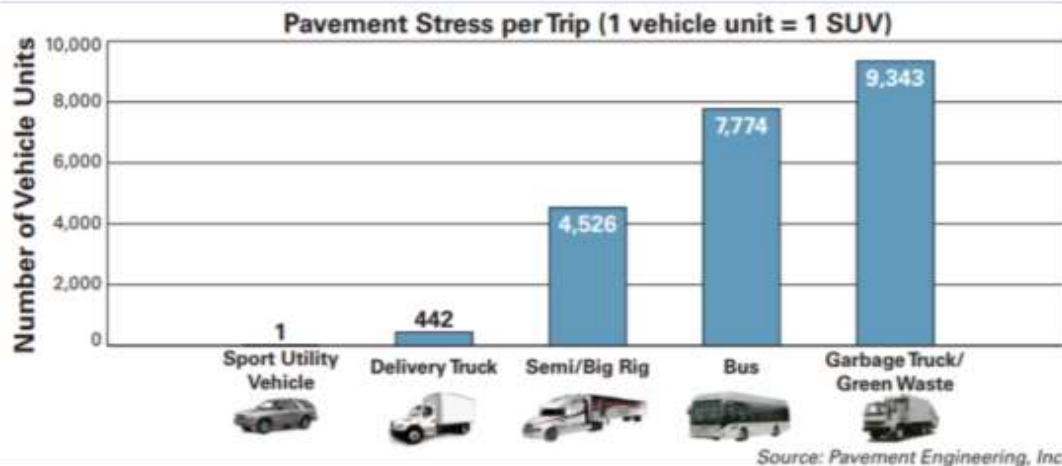
- ▶ Assumed: recycling revenues would significantly offset the costs of collection, sorting & marketing recyclable materials.
 - ▶ *Result: Recycling commodities revenues collapsed from 2015 to 2019. Currently, half of 2015 revenues.*
- ▶ Assumed: collections costs would escalate by CPI.
 - ▶ *Result: labor and contracts' costs exceeded CPI.*



Costs to Provide Residential and Commercial Collection Services

Cost Challenges - Next 5 Years

- ▶ Labor and contract escalation
- ▶ Single Use Foodware and Litter Reduction Ordinance, ~\$1.3M
- ▶ New staffing for SB 1383 compliance and progress toward Zero Waste Goal
- ▶ ~\$7.5M in pre-construction costs to replace Solid Waste and Recycling Transfer Station
- ▶ ~\$1.5M for new computerized management system
- ▶ New *Road Impact Cost Recovery* of ~\$2M to address paving impacts of collection vehicles



Contract Costs Included in Proposed 5 Year Rate Schedules

New Contracts or Contract Extensions:

- ▶ Residential recycling collection, 10 years, NTE = \$54.5 million through June 30, 2031,
- ▶ Recycling processing & marketing, 10 years, NTE = \$30.1 million through June 30, 2031,
- ▶ Organics hauling & composting, 5 years, NTE = \$26.7 million through February 28, 2025,
- ▶ Landfill disposal, 15-year contract, NTE = \$32.7 million through December 31, 2026.

Unknown Cost Challenges - Next 5 Years

- ▶ Fleet Electrification
- ▶ Construction costs of New Solid Waste & Recycling Transfer Station. EIR will include a preliminary construction cost estimate in June 2023
- ▶ Other SB 1383 costs
- ▶ Costs for new/altered programs to achieve Zero Waste Goal, especially coming from Zero Waste Strategic Plan

Cost of City Collection Operations

- ▶ Residential refuse and plant debris collection (24,000+ customers)
- ▶ Commercial refuse, dual stream recycling, & green waste/food collection(5,000+ customers)
- ▶ Residential bulky waste & holiday tree pick-ups
- ▶ Roll-off containers for construction and demolition debris (C&D) and commercial compactor hauling

Other Operations Costs

- ▶ Contracted residential dual-stream recycling operations
- ▶ Transfer Station operations and off-site hauling of C&D, organics and refuse to recycling and disposal facilities
- ▶ Fire Fuel Removal Program
- ▶ Clean City Program
- ▶ Mattress and carpet recycling
- ▶ Used motor oil recycling (residential only)
- ▶ **Road Impact Cost Recovery: \$2M per year**

Projected Annual Residential Collection Costs* (FY 23)

Refuse Collection Costs	\$ 9,705,300
Recycling Collection Costs	\$ 4,925,400
Organics Collection Costs	<u>\$ 7,508,300</u>
Total Projected Residential Costs	\$22,139,000

* Includes other refuse related costs (e.g., road impact cost recovery, street sweeping, etc.) and based on actual FY 2020 - 21 costs and trends

Providing service to 24,000+ customers

Projected Annual Commercial Collections Costs* (FY 23)

Refuse Collection Costs	\$ 12,372,000
Recycling Collection Costs	\$ 3,468,000
Organics Collection Costs	\$ 2,199,600
Roll-off Collection Costs	\$ <u>914,400</u>
Total Projected Commercial Costs	\$ 18,954,000

Costs kept separate due to varying subscription level options by material type to 5,000+ customers

* Includes other refuse related costs (e.g., road impact cost recovery, street sweeping, etc.) and based on actual FY 2020-2021 costs and trends



Transition to Integrated Zero Waste Service Rate Model

What is a Residential Integrated Zero Waste Service Rate?

- ▶ Each resident receives collection of 3 materials types
- ▶ 3 trucks & drivers, 1x per week



Refuse

Organics

Recycling

Proposed Cost of Service Rate Structure

- ▶ One residential rate for all 3 services
- ▶ Separate rates for commercial customers
 - ▶ Refuse
 - ▶ Recycling
 - ▶ Organics

5 year plan for all container sizes to reach full cost of service

Cost of Service Methodology

- ▶ Costs are segregated into 3 categories
 - ▶ Variable
 - ▶ Fixed
 - ▶ Disposal/Processing
- ▶ Variable Costs
 - ▶ Allocated based on container capacity
- ▶ Disposal/Processing Costs
 - ▶ Allocated based on container size and average pounds per container

Integrated Collection Service Rate

1x per Week - Residential Collection

Proposed to be effective 7/1/22

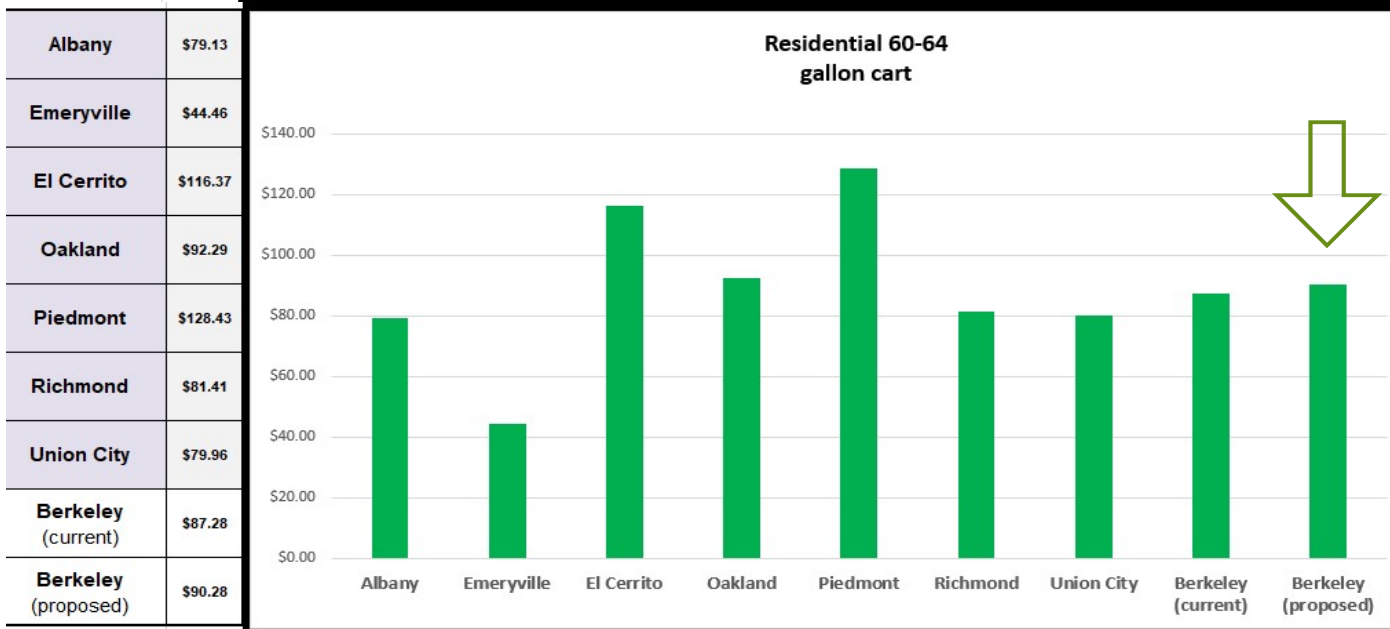
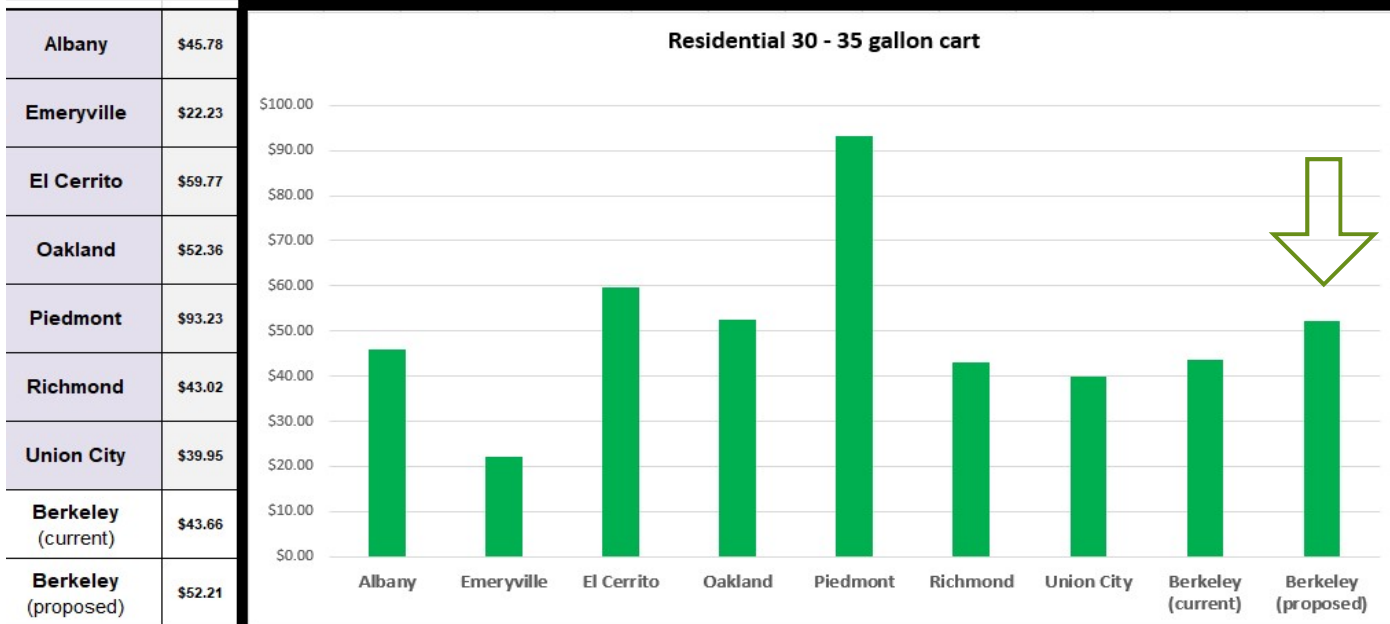
		Refuse Container	
		32 Gallon	64 Gallon
Current:	Refuse	\$ 43.66	\$ 87.28
	Dual Stream		
	Recycling 64 Gallon	-	-
	Organics 64 Gallon	-	-
	Monthly Cost	<u>\$ 43.66</u>	<u>\$ 87.28</u>
	Number of Customers	13,668	5,580
Proposed Integrated Service Collection Rate - FY23:			
	Refuse	\$ 52.21	\$ 90.28
	Dual Stream		
	Recycling 64 Gallon	**	**
	Organics 64 Gallon	**	**
	Monthly Cost	<u>\$ 52.21</u>	<u>\$ 90.28</u>
	Monthly Change	<u>\$ 8.55</u>	<u>\$ 3.00</u>
		20%	3%

80% of Ratepayers

** Integrated Service Rate includes recycling and compost

Proposed Integrated Service Collection Rates FY24-27 **:				
	FY 24	FY25	FY26	FY27
32 Gallon	\$ 59.76	\$ 67.30	\$ 75.27	\$ 84.31
\$\$ Change	\$ 7.55	\$ 7.54	\$ 7.97	\$ 9.04
% Change	14%	13%	12%	12%
64 Gallon	\$ 93.78	\$ 98.57	\$ 103.35	\$ 109.46
\$\$ Change	\$ 3.50	\$ 4.79	\$ 4.78	\$ 6.11
% Change	4%	5%	5%	6%

Comparison to Other Cities



80% of Ratepayers

Collection Service Rates 1x per Week - Commercial Cart Collection

		Refuse Container		
		32 Gallon	64 Gallon	96 Gallon
Current:	Refuse	\$ 35.89	\$ 71.74	\$107.57
	Dual Stream			
	Recycling 64 Gallon	-	-	
	Organics 64 Gallon	57.39	57.39	57.39
	Monthly Cost	\$ 93.28	\$ 129.13	\$ 164.96
	Number of Customers	1,065	888	928
Proposed Collection Rates FY 23:	Refuse	\$ 37.31	\$ 46.43	\$ 56.83
	Dual Stream			
	Recycling 64 Gallon	18.65	18.65	18.65
	Organics 64 Gallon	31.89	31.89	31.89
	Monthly Cost	\$ 87.86	\$ 96.98	\$ 107.38
	Monthly Change	\$ (5.42)	\$ (32.15)	\$ (57.58)

51% of Commercial and Multi-family Customers

Collection Service Rates 1x per Week - Commercial Cart Collection FY 24 - FY 27

Proposed Solid Waste Collection Rates FY 24 - FY 27:				
	FY 24	FY 25	FY 26	FY 27
32 Gallon	\$ 38.57	\$ 39.91	\$ 41.19	\$ 42.51
\$\$ Change	\$ 1.25	\$ 1.34	\$ 1.28	\$ 1.32
% Change	4%	3%	3%	3%
64 Gallon	\$ 47.83	\$ 49.55	\$ 51.20	\$ 52.90
\$\$ Change	\$ 1.39	\$ 1.72	\$ 1.65	\$ 1.70
% Change	4%	4%	3%	3%
96 Gallon	\$ 58.39	\$ 60.56	\$ 62.64	\$ 64.78
\$\$ Change	\$ 1.56	\$ 2.17	\$ 2.08	\$ 2.14
% Change	3%	4%	3%	3%

Proposed Recycling Collection Rates FY 24 - FY 27 :				
	FY 24	FY 25	FY 26	FY 27
64 Gallon	\$ 19.12	\$ 19.83	\$ 20.54	\$ 21.28
\$\$ Change	\$ 0.47	\$ 0.70	\$ 0.71	\$ 0.74
% Change	3%	4%	4%	4%

Proposed Organics Collection Rates FY 24-27 **:				
	FY 24	FY 25	FY 26	FY 27
64 Gallon	\$ 33.04	\$ 34.20	\$ 35.40	\$ 36.64
\$\$ Change	\$ 1.15	\$ 1.16	\$ 1.20	\$ 1.24
% Change	4%	4%	4%	4%

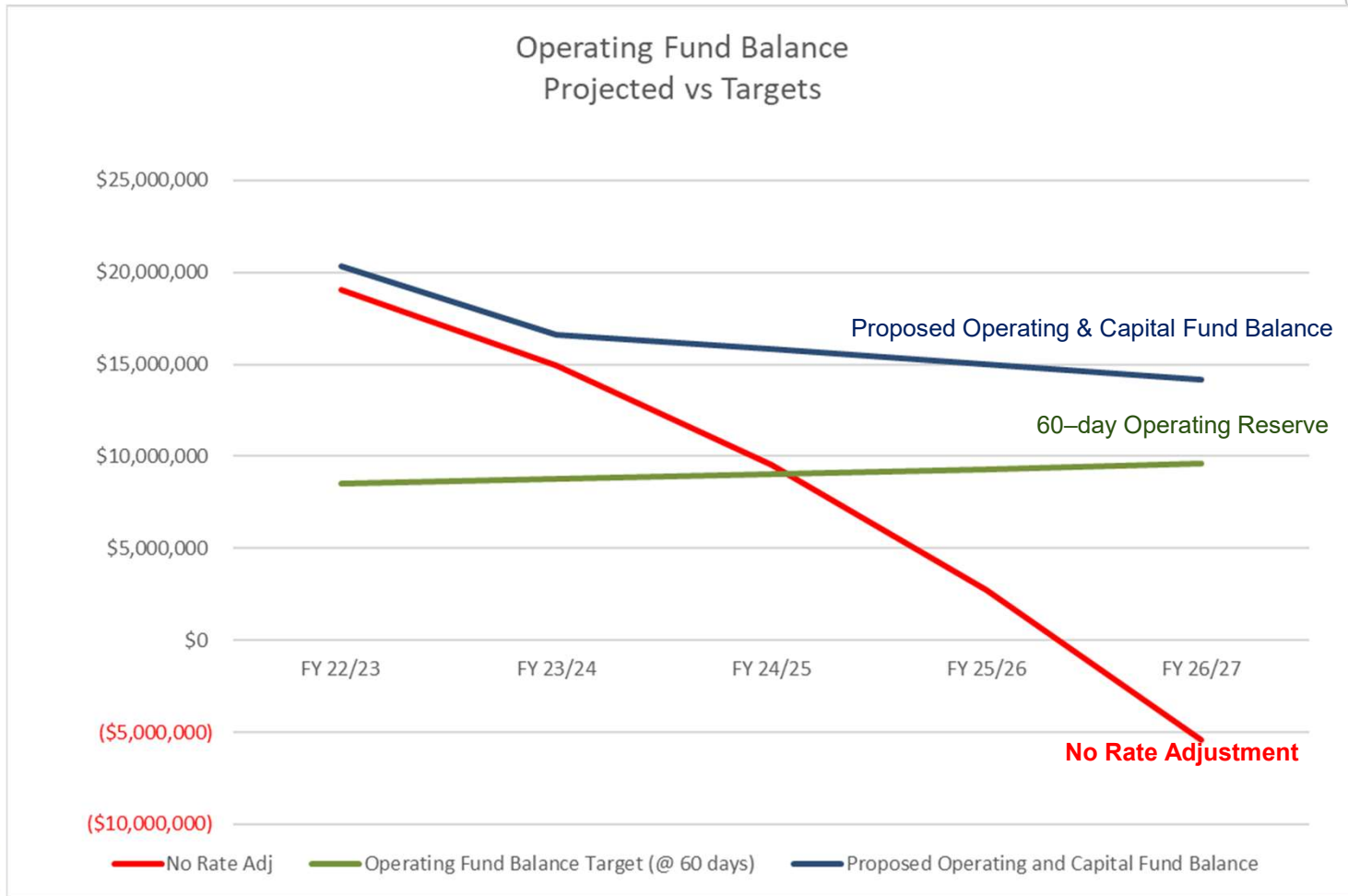
Increases approximate a CPI increase

Zero Waste Fund Fiscal Status (000's)

	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected	FY 2027 Projected
Total Beginning Fund Balance	\$ 24,028.2	\$ 21,152.5	\$ 20,333.1	\$ 16,574.0	\$ 15,762.1	\$ 14,952.8
TOTAL REVENUE	46,795.6	51,636.1	53,218.4	54,872.5	56,591.1	58,354.3
TOTAL OPERATING EXPENSES	49,171.3	51,655.6	53,227.5	54,884.4	56,600.4	58,376.6
SURPLUS/SHORTFALL (Rev - Exp)	(2,375.7)	(19.5)	(9.1)	(11.9)	(9.3)	(22.3)
CAPITAL RESERVE (TS REPLACEMENT PERMITTING):						
Feasibility Study	-	-	-	-	-	-
CEQA	500.0	250.0	-	-	-	-
Design & Engineering	-	300.0	3,000.0	300.0	300.0	300.0
Geotechnical	-	250.0	750.0	-	-	-
Constructon	-	-	-	500.0	500.0	500.0
Operating Reserve - 60 days	8,083.0	8,491.3	8,749.7	9,022.1	9,304.2	9,596.2
Capital Reserve	13,069.6	11,841.7	7,824.2	6,740.0	5,648.6	4,534.3
Total Revised Ending Fund Balance	\$ 21,152.5	\$ 20,333.1	\$ 16,574.0	\$ 15,762.1	\$ 14,952.8	\$ 14,130.5

With Proposed Rate Adjustments

Zero Waste Fund Balance Projection: Proposed versus No Rate Adjustment



5 Year Rate Setting Process

- ▶ Incorporate Council's Input. *December 7, 2021*
- ▶ Seek Council's Approval to Initiate Proposition 218 process and Mail Notice to Property Owners. *January 26, 2022*
- ▶ Hold Hearing to Determine Whether Majority Protest Exists, and If Not, Council can Approve 5-year Rate Schedules. *March 9, 2022*
- ▶ New Rates Effective July 1, 2022

Questions



Agenda Item #4: Election of Commission Officers

Duties of Officers

The “presiding officer” (chair or, in his or her absence, the vice-chair), performs the following duties.

- Presides at all meetings of the commission and ensures that the work of the commission is accomplished. To this end, the chair must exert sufficient control of the meeting to eliminate irrelevant, repetitious, or otherwise unproductive discussion. At the same time, the chair must ensure that all viewpoints are heard and are considered in a fair and impartial manner.

- Ensures that commission bylaws, if any, and procedures are followed. The chair cannot make rules related to the conduct of meetings; only the full commission may do so.

- Appoints commissioners to temporary subcommittees subject to the approval of the full commission.

- Approves the agenda prior to distribution. This is limited to the structure and order of the agenda and does not grant the chair the authority to remove an item submitted by commissioners or staff if submitted by the established deadline.

- Signs correspondence on behalf of the commission.

- Represents the commission before the City Council. Other commissioners may be the representative with the formal approval of the commission by motion and vote.

- Approves commission reports to Council. The chair cannot modify content that was approved by the full commission.

- The chair or a quorum of the commission may call a special meeting.

- The chair and vice-chair have full rights to vote and to make or second motions.

CRISTINA GARCIA
ASSEMBLY MEMBER 58TH DISTRICT

CAPITOL OFFICE
P.O. Box 942849
SACRAMENTO, CA 94249-0058
PHONE: (916) 319-2058
E-MAIL: ASSEMBLYMEMBER.GARCIA@ASSEMBLY.CA.GOV



DISTRICT OFFICE
8255 FIRESTONE BLVD SUITE 203
DOWNEY, CA 90241
PHONE: (562) 861-5803
WEBSITE: WWW.ASSEMBLY.CA.GOV/GARCIA

Press Release

February 8, 2022
Labar

Contact: Ashley
(916) 319-2058
(925) 719-1298-Cell

**Assemblymember Cristina Garcia Introduces
Assembly Bill 1857 to Move California Away From
Dangerous and Dirty Waste Incinerators**

AB 1857 will strengthen California’s waste law and help California achieve its zero-waste goals

(Sacramento) – Today Assemblymember Cristina Garcia (D-Bell Gardens) expands on her work to ensure state policies align with California’s air quality and climate goals to better protect public health and the environment. AB 1857 corrects a deficiency in waste management law that has caused harm in overburdened communities for over three decades. It is past-due that the legislature update state-wide policy on municipal incinerators to better advance equity and sustainability in waste management law.

AB 1857 will remove the diversion credit for municipal solid waste incinerators and redefine the practice of incineration as disposal. The bill will also require CalRecycle to ensure that municipalities are prioritizing zero-waste strategies before constructing new incinerators. Further, the bill will make meaningful investments in zero-waste strategies, especially in frontline communities most impacted by incinerators.

“Municipal waste incinerators are a reminder of how environmental racism can become normalized as a policy neutral solution when the story is always more complicated. It is hard to ignore the 30 years of lived experiences from frontline communities which live near an incinerator and the scientific data that shows the harmful impacts from these facilities. Our state needs to turn away from municipal incineration as a viable option. Moreover, California needs to support zero-waste

strategies with funding and policy changes to better leverage our investments going forward, stated Assemblymember Garcia (D-Bell Gardens).”

The last two remaining municipal waste incinerators are in environmental justice communities that shoulder the statewide burden of having trash burned in their communities. The Southeast Resource Recovery Facility(SERRF) in Long Beach and Covanta Stanislaus in Stanislaus County are both over 30 years old, making them incredibly dirty and expensive to maintain. In 2018 the Long Beach City Council approved \$8.7 million in upgrades to keep SERRF running through 2024.

These incinerators each produce over a hundred thousand tons of toxic ash per year, spew massive and extremely harmful pollutants like ammonia and lead into the air, and bring hundreds of diesel trucks into already overburdened communities 24 hours a day.

Instead of pushing cities to close down these archaic and harmful facilities, the State of California actually incentivizes them by awarding diversion credits for burning trash near Environmental Justice communities. The Integrated Waste Management Act (AB 939 in 1989) mandates that 50% of waste must be diverted away from landfills—this was intended to support zero-waste practices like recycling and composting but because lobbyists pushed to include incinerators in the program, municipalities are rewarded with diversion credits for sending their trash to be burned in overburdened frontline communities.

“For far too long our family and friends have had to breathe toxic air from the trash burned in our community coming from the rest of the state,” said East Yard Communities for Environmental Justice’s Zero Waste Community Organizer Whitney Amaya. “Our community deserves the same resources as affluent communities to have access to composting, improve recycling, and be part of the planning process to transition to zero waste.”

“In the early 1970s Modesto had one of the first curbside recycling programs in the country and now has none. Today the local area still sends its trash, even some recyclable and compostable items to be burned in the incinerator,” said Valley Improvement Projects(VIP) Co-Founder Thomas Helme. “We at VIP are hopeful the changes in AB 1857 will spare Stanislaus County and other overburdened communities from the harms caused by current law.”

“It’s time to stop sending our trash to be burned in already overburdened communities and calling it recycling,” said Nicole Kurian, Policy Analyst at Californians Against Waste. “AB 1857 seeks to correct this longstanding injustice and invest in real zero-waste solutions.”

“This measure embodies the multigenerational fight against incinerators led by frontline communities,” said Earthjustice Associate Attorney Byron Chan. “The proposal is a leap towards justice, and we are pleased that Assemblymember Garcia has introduced this bill.”

The 58th Assembly District includes the cities of Montebello, Pico Rivera, Commerce, Bell Gardens, Downey, Norwalk, Bellflower, Cerritos, and Artesia.

ESTABLISHING A SOLID WASTE MANAGEMENT COMMISSION, PROVIDING FOR THE APPOINTMENT OF MEMBERS THEREOF, AND DEFINING THE DUTIES OF SAID COMMISSION.

BE IT ORDAINED by the Council of the City of Berkeley as follows:

Section 1. CREATION OF SOLID WASTE MANAGEMENT COMMISSION.

A Solid Waste Management Commission of the City of Berkeley is hereby established. Said Commission shall consist of nine (9) members. The members of said Commission shall be appointed by a majority vote of the City Council, shall be residents of the City of Berkeley and shall serve without compensation.

Section 2. TERMS OF OFFICE OF MEMBERS.

The term of office of each member shall be four (4) years; provided, however, that the terms of office of members first appointed shall commence upon the date this ordinance becomes effective, and the members so appointed shall so classify themselves by lot that three (3) shall go out of office on the first Monday of July, 1974, three (3) on the first Monday of July, 1975, and three (3) on the first Monday of July, 1976.

Section 3. VACANCIES AND REMOVALS.

Vacancies on said Commission, from whatever cause, except temporary vacancies as hereinafter provided, shall be filled by the City Council for the unexpired term. Any member of the Commission may be removed from said Commission prior to the expiration of his term by a six-ninths (6/9) vote of the City Council.

Section 4. TEMPORARY VACANCIES.

A member of the Commission may be granted a leave of absence by the City Council, and a temporary vacancy shall thereupon exist for the period of such leave of absence.

During the period of such temporary vacancy, the Council may fill such vacancy by a temporary appointment to said Commission; provided, however, that the period of such temporary appointment shall not exceed the period of the temporary vacancy.

At the expiration of a leave of absence so granted, the member shall automatically resume full membership on said Commission to the end of his appointed term.

Section 5. AUTOMATIC TERMINATION OF APPOINTMENT.

The appointment of any member of the Commission who has been absent from three (3) consecutive regular meetings shall automatically terminate as hereinafter set forth.

The Secretary of the Commission shall report the attendance record of each member of said Commission to the City Clerk at the end of each six (6) months' period, provided that the first such report shall be made in January, 1973 to cover the period from the effective date of this ordinance to December 31, 1972. The appointment of any member who was absent from three (3) consecutive regular meetings, as shown on said report, shall be terminated on the date said report is filed with the City Clerk.

The City Clerk shall notify any member whose appointment has automatically terminated and report to the City Council

that a vacancy exists on said Commission and that an appointment should be made for the unexpired term.

Section 6. COUNCIL LIAISON REPRESENTATIVE.

The City Council shall appoint one (1) of its members to act as a liaison representative to the Commission. The functions of such liaison representative are: to attend the meetings of said Commission; to advise the Council of the background, attitudes and reasons behind decisions and recommendations of said Commission; and on request of any member of said Commission to advise the Commission of policies, procedures and decisions of the Council that may bear on matters under discussion by the Commission. The Council liaison representative shall have no power to vote and shall receive no additional compensation.

Section 7. BOARD, COMMISSION AND COMMITTEE LIAISON REPRESENTATIVES.

Subject to the approval of the Council in each case, the Commission may designate one (1) of its members to act as a liaison representative to any other board, commission or committee of the City. The functions of such liaison representatives are to attend meetings of such other board, commission or committee; advise this Commission of the background, attitudes and reasons behind the actions of such other board, commission or committee; and on request of any member of such other board, commission or committee, to advise such other board, commission or committee of policy, procedures and decisions of this Commission that may bear upon matters under discussion by such other board, commission or committee. Such liaison representative shall have no power to vote.

Section 8. OFFICERS, MEETINGS AND PROCEDURES.

The Commission shall elect one (1) of its members President and one (1) of its members Vice-President, who shall hold office for one (1) year and until their successors are elected unless their terms as a member of the Commission expire sooner. The President and Vice-President shall be elected at the first meeting of the Commission after July 1 of each year.

An officer or employee of the City designated by the City Manager shall serve as Secretary of the Commission.

The Commission shall establish a regular time and place of meeting and shall hold at least one (1) regular meeting each month. Special meetings may be called by the President, or by a majority of the members of the Commission, upon written notice being delivered personally or by mail to each member at least twenty-four (24) hours prior to such meeting.

The Commission may make and alter rules governing its organization and procedures which are not inconsistent with this or any other applicable ordinance of the City.

Five (5) of the nine (9) members shall constitute a quorum and the affirmative vote of five (5) members is required to take any action. The Commission shall keep an accurate record of its proceedings and transactions and shall submit an annual report to the City Council with a copy to the City Manager.

Section 9. FUNCTIONS OF COMMISSION.

The functions of the Commission shall be as follows:

a. To develop by December 31, 1972, a local plan

for reducing the amount of solid waste generated.

b. To prepare by 1975 a feasible Solid Waste Management Plan and Program for the City of Berkeley based upon sound ecological principles and coordinated to the maximum practical extent with solid waste plans and programs for the region as a whole.

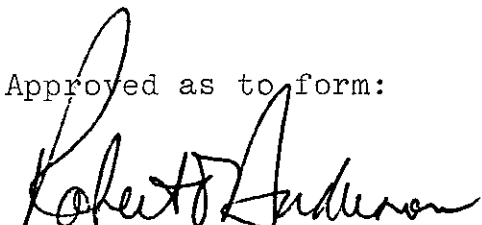
c. To directly and continuously consider, study and work upon the problems of solid waste management for the City of Berkeley until a suitable solid waste management system has been devised and put into operation, the target date for which shall be no later than 1978.

d. To cooperate with citizens groups working on proposals concerning any aspect of solid waste management; provided that nothing in this ordinance shall be deemed to forestall consideration by the City Council of any proposals regarding solid waste management which may be made by citizens groups prior to the target dates set forth herein.

Section 10. POSTING.

Copies of this Bill are hereby ordered published by posting with the vote thereon for two (2) days at the ten (10) prominent places in the City of Berkeley as designated by Ordinance No. 2032-N.S.

Approved as to form:



City Attorney

ORDINANCE NO. 4576 —N.S.

Passed to Print: April 18, 1972
Finally Adopted: April 25, 1972
In Effect: May 25, 1972

At a regular meeting of the Council of the City of Berkeley, held on the eighteenth day of April, 1972, this Bill was passed to print and ordered published by posting by the following vote:

Ayes: Councilmen Hancock, Hone, McLaren, Price, Simmons and Vice President Sweeney,

Noes: None.

Absent: Councilman Bailey and President Widener.

Abstaining: Councilman Kallgren.

Attest:

Edythe Campbell

City Clerk and ex-officio Clerk of the Council

At a regular meeting of the Council of the City of Berkeley, held on the twenty-fifth day of April, 1972, this Ordinance was finally adopted by the following vote:

Ayes: Councilmen Bailey, Hancock, Hone, Kallgren, McLaren, Price, Simmons and President Widener.

Noes: None.

Absent: Councilman Sweeney.

Attest:

Edythe Campbell

City Clerk and ex-officio Clerk of the Council of the City of Berkeley, California

Approved this 25th day of April, 1972.

Warren Widener

Mayor and President of the Council of the City of Berkeley, California

Secs. 1 and 8 amended and Secs. 2, 3 & 4 repealed by 4799-N.S. eff 8/15/75.
Sec. 5 repealed by Ord. 5021-NS, eff 2/9/78.
Sec. 8 amended by Ord. 5371-N.S., eff. 8/20/81

Compost Use Best Management Practices Webinar Agenda

January 19th – 20th, 2022



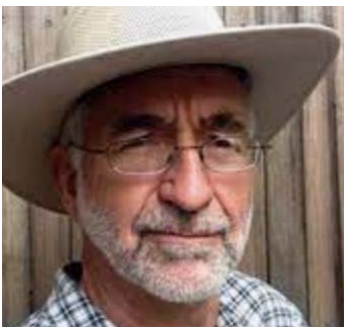
Day 1: Wednesday, January 19th | 9:00AM - 12:00PM

9:00AM – 10:00AM | Benefits of Compost Use:

Discussion on how compost is made, the benefits it provides, the characteristics and uses of soil amendments and how compost applications impact soil.



Dr. David Crohn earned his doctorate in 1992 from Cornell University in the Department of Biological and Agricultural Engineering. For the next 29 years, he was a Cooperative Extension Specialist in the Department of Environmental Sciences at the University of California, Riverside where his research emphasized the beneficial use of municipal and agricultural residues as soil amendments and fertilizers. Dr. Crohn retired from the University in July 2021. He is past Chair and current Vice-Chair of the Board of Riverside Public Utilities.



Dr. Vic Claassen completed graduate work in soil science at Univ of California, Davis in 1992 and then held a research position in the Department of Land, Air and Water Resources. He specializes in rapid site evaluation of drastically disturbed sites (all topsoil and biological activity removed) and development of constructable treatments to regenerate required soil functions. The critical functions that typically need to be corrected are infiltration to reduce runoff and adequate rooting to store winter moisture for summer growth. Soil organics are often a missing component of drastically disturbed sites and composts are a common amendment material. Projects have involved federal, state, and local governments and services for private landowners.

10:00AM – 11:00AM | Compost Use for Roadsides and Compost Specifications:
Discussion on BMPs for compost use for roadside infrastructure projects, compost specifications, and the US Composting Council STA program.



Zach Tanner is a landscape architect at the California Department of Transportation and has over 15 years working in both the private and public sectors. Throughout his career Zach has helped advocate for climate adapted design solutions and sustainable landscape design initiatives. His areas of interest and expertise are ecologically driven planting designs, promoting sound horticultural practices and developing water efficient landscapes.



Mike Ferrara was raised in Albuquerque, New Mexico. He graduated from Utah State University in 1989 with a Bachelors in Business Administration and a Masters in Landscape Architecture. After College, he worked six years in various private sector Landscape Architecture firms in the San Diego area. He started his career with Caltrans in San Diego in 1992. In 2000, was promoted to Branch Chief in Headquarters Contract Office in Sacramento. In 2014, he transferred to HQ Landscape Architecture Program as the "Standards Senior" in Jack Broadbent's Office. He has extensive experience with the development, advertising, bidding, and awarding of Caltrans construction contracts, as well as, expertise in specification development.



Hilary Nichols has 20 years of experience in the horticulture industry. Hilary is the Market Development Coordinator for the US Composting Council, where she manages the Seal of Testing Assurance (STA) Certified Compost labelling program and the Compost Analysis Proficiency (CAP) lab program. Hilary works with USCC committees to market compost use, design a national compost product search engine, and improve compost parameter test methods and lab proficiency testing. Prior to the USCC, she's served as senior horticulturist at the Atlanta Botanical Garden, written for Fine Gardening Magazine, and a leader in both the National and Georgia Perennial Plant Association. Hilary holds a BS in Horticultural Science from NC State University.

11:00AM – 12:00PM | Compost Use for Conservation and Water Quality:

Discussion on the use of compost BMPs in stormwater management and how compost application impacts forest land.



Dr. Britt Faucette directs research/technical programs for Filtrex International in organics recycling/storm water management industries. He earned his Ph.D. from the University of Georgia where he researched BMPs in soil erosion/stormwater management applications; served as a state specialist in stormwater management/organics recycling/pollution prevention programs in the Department of Biological/Agricultural Engineering; and as adjunct professor in the School of Environmental Design. Britt serves on multiple technical committees with ASTM, and is a Board Trustee for the Compost Research and Education Foundation. He has authored 3 books and numerous peer reviewed publications on organics in stormwater management.



Dr. Sally Brown is a Research Professor at the University of Washington. Her work focuses on the benefits of composts and other organic residuals. She also is a regular columnist for Biocycle Connect.

Day 2: Thursday, January 20th | 9:00AM - 12:00PM

9:00AM – 10:00AM | Compost Use for Agriculture:

Discussion of experiences using compost in agricultural settings and how to ensure positive outcomes.



Cary Roulet owns a Horse Ranch in Plymouth, California, with 107 acres of rolling hills rangeland. He is in his second year of compost application as part of the California Department of Food and Agriculture Healthy Soils Program with one year remaining. His objectives for applying compost were to retain water, strengthen soil bio-diversity and limit invasive species. He has extensive equipment experience through his profession and is an advocate of compost application.



Judith Redmond, Judith has been a farmer at Full Belly Farm since 1989 and an advocate for sustainable agriculture and family farming before that. Full Belly is a certified organic, multigenerational farm where cooking, eating, growing and selling fruits, nuts, flowers and vegetables take place year-round. Judith serves on several advisory boards, including the national Organic Farmers Association; the CDFA Science Advisory Panel; as a Commissioner on the Capay Valley Fire Protection District and on the Advisory Board of California Climate and Agriculture Network. Pre-Covid, Full Belly was home to many educational programs for kids and adults as well as events and activities for the community like the Hoes Down Harvest Festival, all of which are close to Judith's heart!



Dr. Miguel Garcia is the Sustainable Ag Program Manager for the Napa Resource Conservation District. He provides on-farm technical assistance and planning related to soil health, nutrient management, soil erosion prevention, carbon sequestration, and irrigation management. He also designs educational programs in Spanish aiming at providing vineyard farm workers with valuable information on various topics related to sustainable agriculture. Miguel is a certified crop adviser and has a PhD in Environmental Sciences and a B.S. in Chemistry from UC Riverside.

10:00AM – 11:00AM | Compost Use in the City:

Discussion on BMPs for municipalities to procure and use compost to support a variety of goals such as soil restoration, stormwater management and erosion control.



Peter Schultze-Allen, CPSWQ, QSP/QSD, ReScape QP, LEED AP, Master Composter

Peter Schultze-Allen is a Senior Scientist at EOA Inc., Peter has extensive experience in the fields of green stormwater infrastructure, litter reduction, zero waste, climate action, complete and green streets, regenerative landscaping, and urban forestry practices. He previously managed the environmental programs for the City of Emeryville from 2002 to 2013 including the implementation of the City's award-winning dense, urban and Bay-Friendly GSI program. Since joining EOA in 2013, he has been providing technical assistance and program support to municipal staff around the Bay Area. He became one of the first Master Composters in the US in 1990 and ran his vermicompost company, Community Composters, from 1989-1996 in Berkeley and Kiel, Germany



David Franklin is a nationwide presenter and award-winning landscape professional with over 40 years of experience in the Green Industry, including 25 years in construction site erosion control and industrial stormwater quality sectors. He has worked on stormwater issues as a consultant, specifier, contractor, sampling technician and inspector on projects including vineyards, mines & quarries, river restoration, freeway & railroad, and home construction as well as industrial facilities for petroleum transportation, waste transfer stations, marinas and national laboratories.

11:00AM – 12:00PM | Compost Use for Urban Landscapes:

Discussion on how to incorporate compost into urban landscape planning, meeting State requirements, case studies and the benefits compost application provides.



Sarah Gronquist, Secretary - ReScape Board of Directors, Landscape Architect, California Sustainable Design

Sarah Gronquist is particularly interested in places where people live, whether the site is a private residential garden exquisitely tailored to the owners, or a multi-unit housing development that creates space for an entire community to grow. Recently Sarah has been passing her experience on to the next generation of landscape architects through intensive review courses for LARE candidates preparing for the licensure exam. A strong sense of personal responsibility, plus a pragmatic, solutions-oriented approach to project management are hallmarks of Sarah's professional style.



Cielo Sichi, ReScape Lead Instructor, ReScape Board of Directors

Cielo Sichi is the owner of and Principal Landscape Architect of Landfour Landscape Architecture. He has been professionally designing and building landscapes with a focus on sustainability since 2003. He has extensive experience with landscapes of all sizes and types, including single and multifamily residential, commercial, institutional and recreational projects. Cielo holds a BS in Environmental Horticultural Science from California Polytechnic State University, San Luis Obispo. Cielo is ReScape Lead Instructor, and Chair of the Horticulture Department at American River College where he teaches the landscape and irrigation design and construction courses.