



**Integrated Solid Waste Management Plan Update Task Force Minutes**  
Thursday, May 25, 2023, 9am-12pm (HST)  
2827 Waimano Home Road, Pearl City, HI 96782 and on Microsoft Teams

## MINUTES

### 1. Introduction (PBR) (7:20 – 15:20)

- Consultant team, taskforce, and public introduced themselves.
  - i. See “[Attendees](#)” at bottom of document for full roster.

A recording of the meeting is available online at : <https://youtu.be/TDS0KrXmYyw>

### 2. Purpose of Taskforce and Plan Update (DOH) (16:40 – 21:40)

- Department of Health (DOH) reviewed the current Integrated Solid Waste Management Plan (ISWMP) and introduced the role of the taskforce in updating the ISWMP.
- Consultants introduced Sunshine Law guidelines and implementation in the meeting process.

### 3. Ice Breaker Exercise (PBR) (23:07 -26:30)

- Consultant team had task force participate in a brief exercise which asked participants to respond to the question of, “In the future, what would the front page of the newspaper say about how we manage tire waste?”
- Responses have been summarized below:
  - i. *Nicole Chatterson (Taskforce) — Excellent public transit and pedestrian pathways have decreased driving and tire wear by 70%.*
  - ii. *Ahmad Sadri (Taskforce) — Have zero tire waste and reduction of tire production.*
  - iii. *Ruta (Public) — Hawai'i roads are permeable because of tires being used to construct roads.*
  - iv. *Joaquin Wright (Public) — All used tires are now used for beneficial purposes in our infrastructure!*

### 4. Topic Introduction & State and County Existing Conditions — Tires (TetraTech) (26:50 -50:54)

- Consultant team presented findings on tire waste generation, regulation and programs, as well as existing conditions for tire waste in Hawai'i.

### 5. Challenge Identification Activity (Task Force) (50:58- 1:03:20)

- Task force members were asked if there are any gaps in existing plans that they observed.
- Responses and answers have been summarized below:
  - i. *Allison Fraley (Taskforce) — Data in presentation is what they've collected from residents, not from tires in retail. Illegal dumping is not a known problem in Kauai. The County provides enough opportunities for*



*public to recycle or get rid of tires so no illegal dumping occurs. The County does believe mismanagement occurs, however.*

ii. *Nicole Chatterson (Taskforce) — What types of vehicles and tires are being included in the studies?*

1. *Answer — Passenger vehicles evaluated only at this time. Passenger vehicle tires will be most of the tires being managed by this plan. The plan only covers residential and passenger vehicles and does not include rental fleets.*

iii. *Kimo Frankel (Taskforce Proxy) — How were the numbers in the presentation calculated?*

1. *Answer — How we calculated anticipated number of tires that need to be replaced annually due to wear is we took the number of tires that can be managed in State multiplied by weight of tire and divided by 2,000.*

2. 
$$\frac{718,000 \text{ tires} * 20 \text{ lb per tires}}{2,000 \text{ tons}} = 7,180$$

3. *Assumption that four tires will be replaced per vehicle.*

**6. Speaker: Joaquin Wright, Sustainable Resource Engineer for GHD Inc. (1:03:25 – 1:32:30)**

- Joaquin Wright, an industry expert, discussed pathways for end-of-life tires (ELT)
- Questions and answers are briefly noted below:
  - i. *Kimo Frankel (Taskforce Proxy) — If burning tires poses a problem to air quality, does using tire materials in the ground cause any water quality problems?*
    - 1. *Answer — Precipitous metals still remain in the material. These metals are captured at the bottom of the soil table, but they don't migrate or spread widely.*
  - ii. *Catie Cullison (PBR) — Are studies aggregated online?*
    - 1. *Answer — Tire industry projects are not really aggregated. CalRecycle has California data and management plans. Chico State University also has a tire management site.*
  - iii. *Nicole Chatterson (Taskforce) — Concerned about the suite of chemicals used in the vulcanization process used to create rubber. What happens to the soil that is capturing the problematic constituents? How is it considered recycling when Hawai'i sends tires to California and Nevada?*
    - 1. *Answer — It is best to manage tires, so you know where they are and where they're going. Take the production stream and evaluate alternatives. Then, decide what to do with tire waste.*

**7. Comparative Analysis (TetraTech) (1:42:30 - 2:02:15)**

- The consultant team presented information on extended producer responsibility (EPR), government programs and subsidies, potential solution and alternatives.



## 8. Feedback Activity (Task Force) (2:02:44 – 2:30:15)

- Task force members were asked to share which solution presented most promise and other thoughts on the material.
- Feedback is summarized below:
  - i. *Allison Fraley (Taskforce)* — *There is potential for legislation to create solutions. As of now, there is no mechanism to reduce tire waste.*
  - ii. *Kimo Frankel (Taskforce Proxy)* — *What are we trying to solve: illegal dumping, tires going to landfill, improper collection of tires, not repurposing of tires, meaningless re-usual of tires?*
    1. *Answer — All the above. Trying to better track everything, data wise is key as well.*
  - iii. *Ruta (Public)* — *Support for reusing tires rather than shipping out of state. This can be supported through creating legislation that mandates this.*
  - iv. *Taskforce Member* — *Would it be helpful to collect data on retailer charges? This might inform legislative processes.*
    1. *Answer — The consultant team considered this, but the process is currently beyond the scope of the project. Further, retailers are not interested in sharing proprietary information. This is the information that is missing to inform better decision making.*
  - v. *Nicole Chatterson (Taskforce)* — *How to balance the need for information for public good and company proprietary information?*
    1. *Proprietary is defined in Hawai'i Revised Statutes. Data is aggregated but not given out for individual businesses. For decision making purposes or data requests, aggregated data is used.*

## 9. Opportunity for Public Comment (2:32:30 – 2:55:25)

- Public members attending the meeting were allowed time to present their thoughts or comments
- Comments are noted below:
  - i. *Ruta (Public)* — *Clarification of purpose of meeting.*
    1. *Answer — This meeting, team introduced the topic to the task force and sought feedback. A Permitted Interaction Group, which can further discuss and delve into details on tires, is allowed and potential meeting dates have been identified.*
    2. *Consultant team has identified potential solutions but defers to the State on when solutions will be solidified. The proposed solutions will be more regulation oriented rather than policy oriented.*

## 10. Chat Comments

- Virtual attendees posted comments throughout the meeting and a summary is presented below:



- i. *Kimo Frankel (Taskforce Proxy)* — *Adjusting how data is presented would be helpful in understanding scope of problem. Such as percentages vs total amount of tires.*
- ii. *Kimo Frankel (Taskforce Proxy)* — *A clarification on if DOH receives information from facilities that accept used tires was requested.*
- iii. *Nicole Chatterson (Taskforce)* — *Questions to address in the plan:*
  1. *Are commercial tires subject to the same state/municipal regs as passenger vehicles?*
  2. *Do we have a list of the entities on the continent that receive Hawai'i ELTs for recycling? Is there transparency in this value chain? How do we validate the receiving entities are recycling vs. landfilling our waste tires?*
  3. *What are the negative externalities associated with ELT processing and how do we weigh these (in addition to the economics we already consider)? What are the environmental and social impacts of re-treading vs TD fuel vs landfilling vs TD product?*
- iv. *Melanie Hahn (Public)* — *Haulers should be required to register. They are the ones illegally dumping the most and are collecting from retailers. Hawai'i should charge for dumping. State of Hawai'i is unique that there is no reuse for the tires and alternatives should be explored like road paving and engineering applications.*
- v. *Nicole Chatterson (Taskforce)* — *How to differentiate between aggregated data and proprietary data so this doesn't become a barrier to public transparency?*



## ATTENDEES

Name	Association	Present?
Ahmad Sadri	City and County of Honolulu, Dept. of Environmental Services — Task Force	X
Allison Fraley	County of Kaua'i, Dept. of Public Works — Task Force	X
Dominic Henriques	RRR Recycling Services — Task Force	X
Glenn Haae	Dept. of Health, Solid Waste Section — Task Force	X
Joe Hernandez	PVT Land Co	No
Kristine Kubat	Recycle Hawai'i	No
Nicole Chatterson	Zero Waste O'ahu — Task Force	X
Ramzi Mansour	County of Hawai'i, Department of Environmental Management — Task Force	by Proxy
Chris Chance	County of Hawai'i — Proxy	X
Robert Schmidt	County of Maui, Department of Environmental Management — Task Force	X
Wayne Tanaka	Sierra Club — Task Force	by Proxy
Kimo Frankel	Sierra Club — Proxy	X
Joaquin Wright	GHD — Guest Speaker	X
Chris Takeno	Dept. of Transportation	X
Ruta Jordans	Zero Waste Kaua'i	X
Craig Kawaguchi	County of Hawai'i	X
JM	Public	X
Mihoko Ito	Public	X
Barry Nakamoto	Public	X
Melanie Hahn	Public	X
Katelyn Asato	Public	X
Lane Otsu	Dept. of Health	X
Michael Burke	Dept. of Health	X
Marienna Jimenez	Dept. of Health	
Cesar Leon	TetraTech	X
Christian Ferguson	TetraTech	X
Christine Arbogast	TetraTech	X



ISWMP Tires Task Force Minutes  
Department of Health

Jisela Herrera	TetraTech	X
Catie Cullison	PBR Hawaii	X
Sunny Rosario	PBR Hawaii	X