



Design Advisory Group Meeting 4 South County Recycling and Transfer Station May 28, 2020

## Welcome and Introductions



#### **Project Description - Services to be Provided**





#### **Project Description - Additional Project Elements**



Stream

Mitigation



Road Relocation Improvements and Wetlands

Storm water management



Green Building



**Public Art** 



2021-06-23

#### **General Project Updates**

- 1. Conducted online and in-person community engagement
- 2. Continued sustainability and equity and social justice activities
- 3. Completed Value Engineering (VE) Study
- 4. Update site layout per VE recommendations and employee input
- 5. Prepared visualization and traffic queuing models
- 6. Completed draft reports on wetland and stream delineations, noise, geotechnical analysis, tree assessment, and biological assessment
- 7. Continued work related to critical areas mitigation
- 8. Call for artists closed on April 30, first panel meeting May 14<sup>th</sup>

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## Community Engagement – What We Heard

#### **Top Community Concerns**







#### Traffic

#### Odor

#### Wetlands and Stream



## Community Engagement – What We Heard Top Community Benefits Sought







# Job training and apprenticeships

#### Walking trail

Environmental education feature



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## Sustainability and Equity and Social Justice



Add educational exhibits at SCRTS with focus on environmental topics



Work with a local non-profit to provide green apprenticeship opportunities



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#### Site Layout Used for VE Study



#### Visualization Model



#### **VE Recommendations**

- New site layout developed adds more onsite queuing, more self-haul unloading space, improves traffic flow
- Use pre-engineered metal building for transfer building
- County to purchase compaction equipment in lieu of contractor
- Add yellow blinking warning light at Iowa Drive to alert drivers to trucks entering roadway



## Site Layout for Final 30% Design



Geotechnical Analyses and Recommendations
Potential liquefaction exists at the northeast portion of the site and will be improved with aggregate piers prior to placement of structural fill

- Transfer building and other structures will be constructed on structural fill using shallow spread footings
- A tie-back supported soldier pile wall will be used for the entrance to the site, other walls will be cast-in-place or mechanically stabilized earth walls
- Install drainage systems on west slope



#### Site Retaining Walls





## **Traffic Updates**

- Collected traffic counts on West Valley Highway South at location of existing Algona Transfer Station
- Predicted future transfer station traffic based on 2018 transactions

• Forecasted future land uses at the existing transfer station to estimate potential traffic levels

#### Traffic Model



#### Traffic Revisions Along West Valley Highway







## Noise Study

Collected sound data in March 2019

 Regulatory Criteria – Cities of Algona and Auburn, King County Code, and Noise Impact Code developed by EPA

 Sound level limits – Commercial: 60 dBA Residential: 57 dBA daytime 47 dBA nighttime

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#### Noise Study – Modeling





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#### **Biological Assessment**

- No rare, threatened, or endangered plant species are known to be on or near the site.
- No high-quality ecosystems were observed during environmental field investigations.
- Threatened species may have habitat in the project vicinity. None are located in the SCRTS action area and project is determined to have <u>no effect</u> on critical habitat.
- Rerouted Algona Creek Tributary 09.0054A will improve fish habitat with potential long-term benefits to Coho Salmon migration and rearing.
- Best management practices will be used to limit sediment in runoff that could impact Coho Salmon.



#### Wetland Update

Updated Wetland and Stream Delineation Report based on Jurisdictional Determination from United States Army Corps of Engineers

Wetland	Size (Ac)	Category	Creation / Reestablishment Ratio	Rehabilitation Ratio	Enhancement Ratio
А	0.29		2 : 1	4 : 1	8 : 1
В	0.09		2 : 1	4 : 1	8 : 1
D	0.57	IV	1.5 : 1	3 : 1	6:1

Wetland	Impacts (Ac)	Creation / Reestablishment Acreage Need	Rehabilitation Acreage Need	Enhancement Acreage Need
A, B, & D	0.93	1.61	3.23	6.46

#### **Restored Stream and Fish Passage Culverts Plan**

- Restored stream channel and buffer
- Stream profile and grading needs
- WDFW stream simulation countersunk culverts
- Roughened channel with boulders/pools
- Large woody debris habitat material





## Schedule



#### **DAG Schedule and Virtual Open House**

- Virtual Open House in Summer 2020 to give project update and invite public comment. Send notice of virtual public event via US mail and GovDelivery.
- DAG Meeting 5
  - Fall 2020, exact date TBD
  - Design review at 60% design, public engagement and outreach update, discuss permitting process, describe next steps for project





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# Adjourn



