



## Summary of Proposals

### Definitions

- **Aerated Static Pile:** a composting system where positive or negative air pressure draws air through piles of compost feedstock in aerobic conditions favorable for decomposition of organic material by microorganisms. Aerated Static Piles generally undergo an active compost phase with forced aeration and a curing phase with or without further aeration to produce finished compost.
- **Anaerobic Digestion:** the controlled digestion of organic material without the presence of oxygen to produce methane and liquid and solid digestate with the potential to be further refined into soil amendments.
- **Bee Reactor:** a proprietary aerobic composting system incorporating many features of aerated static pile system and in vessel composting using a reverse-flow bio-reactor forcing air alternatively into and drawn from batches of organic material controlling moisture and bio-degradation.
- **Biomass Gasification:** a technology to convert typically high carbon material to biochar (soil amendment) and a flammable gas which can be combusted to create electricity.
- **Circular Turned Aerated Pile Composting:** an aerated static pile process arranged in concentric rings in which compostable material is moved progressively inward through the active composting and curing processes.
- **Commercial Food Waste:** food waste separated from garbage and green waste generated from non-residential sources (restaurants, grocery stores, food manufacturers, institutions, offices, etc.)
- **In vessel Composting:** decomposition of organic material within a container (tanks, bunkers, etc.). In vessel systems can be both aerobic if used in combination with aerated static piles and anaerobic if methane production is desired.
- **Master Operating Agreement (MOA):** a certain agreement between the County of Sonoma and Republic Services covering, among other issues, Republic's operation of the County-owned waste system. Topics include the resumption of landfilling activities at the Central Disposal Site, construction of a Material Recovery Facility to increase material diversion, transfer of liability for site activities, and establishment of a commercial food recycling program.
- **TPY:** tons per year
- **Turtle Q-Ring:** a propriety covered aerated static pile system used for both active composting and curing of organic materials with exhaust air treated in a dedicated biofilter cover.
- **Waste Delivery Agreements (WDA):** agreements between Sonoma County cities (excluding the City of Petaluma) and Republic Services committing the flow of specified material to Republic Services operated facilities. Committed materials exclude green waste, wood waste, and comingled residential food waste, but include commercial source-separated food waste.

### Summary

Twelve (12) proposals were received by the submission deadline; however, one (1) proposal was retracted on January 25, 2018. The remaining eleven (11) proposals were reviewed for an initial pass/fail evaluation. These proposals were received from the following companies:

1. BioMRF Technologies, Inc.
2. Cold Creek Compost, Inc. & Stage Gulch Organics

3. Entsorga
4. Hitachi Zosen | Inova
5. Napa Recycling & Waste Services
6. Recology Hay Road dba Jepson Prairie Organics
7. Renewable Sonoma
8. Sacyr Environment USA, LLC
9. StormFisher Biogas
10. Vision Recycling
11. Waste Management – Redwood Landfill, Inc. dba Redwood Landfill & Recycling Center

The criteria for the evaluation mirrored the requirements set forth in the RFP documents released on May 31, 2017 and revised through Addendum 4 on November 21, 2017.

Missing or incomplete information was requested from all proposers on January 22, 2018 to be provided no later than January 25, 2018. All proposers provided the requested information by the due date.

Since January 16, 2018, the evaluation team has been evaluating the proposals and seeking clarification on key items in each proposal. The evaluation team met to discuss each proposer's qualifications, feasibility, compatibility with SCWMA's overall needs, quality of finished product, tipping rates and financial stability, based on the criteria set forth in the RFP.

The following is a summary of the proposals reviewed by the evaluation team. These are separated by the term length proposed by each of the proposers.

### **Short Term Options**

There were four (4) short term proposals received. None of the proposed options offered an in-County facility short-term. Organic Materials collected by franchised haulers (excluding the City of Petaluma) are flow controlled to the Sonoma County Transfer Stations, with the exception of commercial source separated food scraps. Commercial source separated food scraps are currently handled by Republic Services through their Master Operating Agreement (MOA) with the County of Sonoma.

Below is a summary of all four (4) short term proposals received.

#### **Cold Creek Compost, Inc.**

Cold Creek Compost, Inc. (CCC) is a Limited Liability Company (LLC). The proposed location is an existing facility located near Ukiah, CA. CCC has proposed a term of 3-, 15- and/or 20-years in length using aerated static pile composting technology. The facility proposed will accept all Organic Materials, except food ware and biosolids. The proposed facility has available capacity for 17,000 tons per year (TPY) to address the SCWMA's immediate needs. CCC is currently in the process of increasing the facility's annual tonnage from 50,000 TPY to 200,000 TPY. Upon completion of the proposed facility expansion, additional capacity will be made available for the proposed 15- or 20-year term. CCC proposed to accept 80,000 to 100,000 TPY.

#### **Napa Recycling & Waste Services**

Napa Recycling & Waste Services (NRWS) is an LLC. The proposed location is an existing facility located in American Canyon, CA. NRWS is under contract with the City of Napa to operate the Napa Materials Diversion Facility. The proposed term length is 3-, 10-, 15-, or 20-years using an aerated static pile for the 3-year term. As a long-term solution, NRWS is planning to add additional technologies including covered aerated static pile composting, organics de-packaging, anaerobic digestion, and biomass gasification technologies. NRWS has available capacity to accept between 26,000 and 46,800 TPY. The facility proposed will accept all Organic Materials, except biosolids.

### Recology Hay Road dba Jepson Prairie Organics

Recology Hay Road dba Jepson Prairie Organics (Recology JPO) is a corporation. The proposed location is an existing facility located in Vacaville, CA using an aerated static pile composting technology. Recology JPO has proposed a 3-year term length and will accept mixed organic materials (residential) only. The facility has capacity to available to take 40,000 TPY of SCWMA mixed organic materials.

### Waste Management Redwood Landfill, Inc. dba Redwood Landfill & Recycling Center

Waste Management Redwood Landfill, Inc., dba Redwood Landfill & Recycling Center (WM Redwood) is a corporation. The proposed location is an existing facility located in Novato, CA using a covered aerated static pile composting technology. WM Redwood has proposed a 3- and/or 20-year term length. The facility will accept wood waste, green waste, and mixed organic materials (green waste and residential food waste) only. The facility has capacity to available to take 66,000 TPY of SCWMA mixed organic materials.

### Long Term Options

There were ten (10) long term proposals received. Of the proposed options, two (2) proposed facilities out of County and eight (8) proposed facilities located in Sonoma County including five (5) proposals siting a facility on the City of Santa Rosa's site adjacent to the waste water treatment plan. Below is a summary of all ten (10) long term proposals received.

### BioMRF Technologies

BioMRF Technologies (BioMRF) is a corporation. The proposed location is a new facility located on Santa Rosa property using in vessel and aerated static pile composting technology. BioMRF has proposed a 20-year term length. The facility will accept all organic materials. The facility has capacity to available to take 66,000 – 80,000 TPY of SCWMA organic materials.

### Cold Creek Compost, Inc., & Stage Gulch Organics

Cold Creek Compost, Inc., & Stage Gulch Organics (CCC & SGO) is an LLC. The proposed location is a new facility located in Petaluma, CA. CCC & SGO has proposed a term of 15- and/or 20-years in length using circular turned aerated pile composting technology. The facility proposed will accept all Organic Materials, except service ware, manure, and biosolids. The proposed facility will have available capacity for 60,000 – 100,000 TPY of SCWMA organic materials.

### Enstorga

Enstorga is a corporation. The proposed location is a new facility located in the City of Santa Rosa on Todd Road. Enstorga proposed to use a Bee Reactor and Turtle Q-Ring System (Option 1) or the turtle Q-Ring System (Options 2). The proposed term length is 20-years. The facility will accept all organic materials, except manure and biosolids. The facility will have 68,640 TPY of available capacity of SCWMA organic materials, if Option 1 is selected. There will be 44,844 TPY of available capacity of SCWMA organic materials if Option 2 is selected.

### Hitachi Zosen | INOVA

Hitachi Zosen | INOVA (Hitachi) is a corporation. The proposed location is a new facility located on the City of Santa Rosa's property using a Kompogas anaerobic digestion composting technology. Hitachi has proposed a term of 20-years in length. The facility proposed will accept all Organic Materials, except wood waste, manure, and biosolids. The proposed facility will have available capacity for 70,000 TPY of SCWMA organic materials.

### Renewable Sonoma

Renewable Sonoma is an LLC. The proposed location is a new facility located on the City of Santa Rosa's property using a covered aerated static pile and anaerobic digestion composting technologies. Renewable Sonoma has proposed a term of 20-years in length. The facility proposed will accept all Organic Materials, except food ware. The proposed facility will have available capacity for 60,000 – 140,000 TPY of SCWMA organic materials.

### Sacyr Environmental USA, LLC

Sacyr Environmental USA, LLC (Sacyr) is an LLC. The proposed location is a new facility located on the City of Santa Rosa's property using an in-vessel composting technology. Sacyr has proposed a term of 20-years in length. The facility proposed will accept Green Waste, Mixed Organics without Food Ware (residential) and Biosolids. The proposed facility will have available capacity for 95,811 – 110,782 TPY of SCWMA organic materials.

### StormFisher Biogas

StormFisher Biogas (StormFisher) is a corporation. The proposed location is a new facility located on the City of Santa Rosa's property using an anaerobic digester and in-vessel composting technologies. StormFisher has proposed a term of 20-years in length. The facility proposed will accept all Organic Materials, except Manure and Biosolids. The proposed facility will have available capacity for 60,000 – 80,000 TPY of SCWMA organic materials.

### Vision Recycling

Vision Recycling (Vision) is a corporation. The proposed location is a new facility located in the City of Santa Rosa on Piner Road. Vision proposed to use an aerated static pile composting technology. The proposed term length is 10- or 15-years. The facility will accept all organic materials, except Biosolids. The facility will have 10,000 – 60,000 TPY of available capacity of SCWMA organic materials.

On May 17, 2018, Vision Recycling retracted their proposal.