

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

Revised - Proposal Summaries-

April 2, 2007

The proposal summaries are updated as of April 2, 2007 based upon information submitted by the proposer. Changes are shown in redline/strike out format. If no new information was received or if a response to the March 13, 2007 Committee question regarding projects need for commitment of funding or feedstock, it is so noted.

Biogas Energy

No Response to Committee Request

Biogas Energy proposes to augment any composting facility approved by the Authority with anaerobic digestion capabilities. Biogas Energy has proven high solids, warm temperature anaerobic digestion technology that has been developed principally for manure and food processing residuals. Methane produced is consumed in compression or turbine engines for the production of electricity and heat.

City of Hayward – WWTP

No Response to Committee Request

No information has been provided about this site other than it is adjacent to the City of Hayward waste water treatment plant.

East Bay Municipal Utility District - Anaerobic Digestion

Changes noted in strikeout and underlined italics

Proposal is to partner with the Authority to further develop the anaerobic digestion capabilities at the EBMUD Wake Ave, Oakland, waste water treatment plant. The 170 million gallon EBMUD WWTP has 84 million gallons of excess processing capacity and proposes to utilize this capacity for the benefit of its rate payers through the production of energy. The plant is currently is processing approximately 20 tons per day of commercial food waste and high strength liquid waste and producing sufficient energy to meet the plant needs and sell excess energy to the grid. The facility would process ~~clean~~ commercial food waste only (*this includes some paper and some level of contamination*).

- Proposed capacity – 400 ~~200~~ tpd
- Access to the site - Wake Avenue, Oakland
- Source of water at the site – Secondary Water from WWTP
- Size of the parcel – Not specified – existing facility
- Current use at the site – WWTP 20 tpd anaerobic digestion
- Zoning and GP designation – Not specified
- Proximity to neighbors and type of neighbors – Industrial/commercial adjacent
- Site ownership / control by the operator – EBMUD owner operator
- Infrastructure / Cost to develop remaining – Existing 84 million gallon excess secondary anaerobic digestion capacity

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

- Type of composting – No composting
- Products / Marketing / Markets – Energy and biosolids / Electricity product to grid, destination not specified for biosolids
- Time table for project development – Not specified, depends on scope of ultimate project.
- Capital requirements and financial structure – \$1 million to cover a portion of the capital expenses necessary for expansion of pilot activity. if feedstock is delivered preprocessed/ not specified for non-preprocessed material .
- Proposer needs / public partner benefits – Sorting technology, pretreatment, waste stream sourcing and capital investment / Green energy, utilization of existing infrastructure, reduced transportation of organics.
- Does project increase or decrease GHG emissions Not specified / methane capture and burned for energy. A net decrease in Greenhouse gas emissions because facility will be a net producer of energy which could offset some fossil fuel use.
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Commitment of funding only (\$1 million).

Material Recovery Industries (MRI) with Biosolids Recycling Inc. at Jess Ranch

Changes noted in strikeout and underlined italics

This proposal is to develop a 1,000 ton per day composting facility using aerated static pile composting with emissions treated in a biofilter on a 30 acre site of a 600 acre parcel. Biosolids Recycling, Inc has a 30 year lease of the site from the property owner Joseph Jess. ~~MRI would have a transferable sub-lease.~~ A separate and independent project which would lime stabilize biosolids would be co-located at the facility adjacent to the compost facility and would utilize some common infrastructure (roads, scales, retention basin). The facility would accept residential and commercial green waste, food scraps, contaminated paper, wood waste and sheet rock. ~~The principal of MRI has designed several composting facility and has operated the Newby Is. composting facility.~~ Recently, MRI decided not to enter into an agreement to operate the proposed Jess Ranch composting facility due to uncertainty of whether the site will be chosen by the Authority during the selection process. Although MRI is reluctant at this time to commit to formally commit to the site, they remain interested in the Jess Ranch site if the Authority selects the site for funding or commitment of feedstock. Options for developing the site include Biosolids Recycling operating site with third party, Lease the permitted facility to a third-party operator, or Lease the permitted facility to the ACWMA.

- Proposed capacity – 1,000 tpd 1,500 peak
- Access to the site - Grant Line Rd. off Fwy 580
- Source of water at the site – Wells, CA Aqueduct, onsite water recycling
- Size of the parcel – Parcel = 600 acres, compost facility = 30 acres
- Current use at the site – Grazing – biosolids land application
- Zoning and GP designation – Zoned A-B-E / GP –Large parcel Agriculture
- Proximity to neighbors and type of neighbors – Approximately 1 mile – residences; conservancy
- Site ownership / control by the operator – Joseph Jess owns / long-term lease 30 years/sublease to ACWMA

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

- Infrastructure / Cost to develop remaining – Power is available / Approximately 8.5-9 million
- Type of composting – ~~In-vessel~~ Aerated Static Pile with biofilter with a water-proof breathable membrane tarp cover.
- Products / Marketing / Markets – Retail & Wholesale Landscaping and Agriculture
- Time table for project development – 18-24 months
- Capital requirements and financial structure – 8.5-9 million / Grant with performance requirements
- Proposer needs / public partner benefits – Infrastructure financing and /or Flow commitment / Long term composting capacity, contractual control, ~~Reduced risk by partnering with an experienced operator and marketer.~~
- Does project increase or decrease GHG emissions 800% GHG reduction over land-filling.
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Not responsive to this specific question.

MRI at North Flynn Road

Changes noted in ~~strikeout~~ and underlined italics

This proposal is to develop a 1,000 ton per day composting facility using Aerated Static Pile composting at the Authority owned property off of North Flynn Rd. The facility would accept green waste, food scraps and wood waste from the residential and commercial sectors. The property is 1,600 acres of which approximately 40 would be developed for composting. The principal of MRI has designed several composting facility and has operated the Newby Is. composting facility.

- Proposed capacity – 1,000 tpd
- Access to the site - North Flynn Rd off of Fwy 580
- Source of water at the site – Existing wells, ~~Zone 7~~ and reclaimed contact water
- Size of the parcel – Parcel = 1,600 acres, compost facility = 40 acres
- Current use at the site – Grazing wind farm
- Zoning and GP designation – Zoned ABE - Large parcel Agriculture
- Proximity to neighbors and type of neighbors – Authority tenants - residences
- Site ownership / control by the operator – ACWMA / proposes exclusive operator agreement
- Infrastructure / Cost to develop remaining – Well water and power available / 8.8 - 9.8 million
- Type of composting – Aerated Static Composting with bio-filter
- Products / Marketing / Markets – Compost and mulches / Retail & Wholesale Landscaping and Agriculture
- Time table for project development – 19 months after Authority approval is granted (12 months for permitting + 7 month construction = 19 months)
- Capital requirements and financial structure – 8.8-9.8 million / Authority to provide property and fund infrastructure improvements /MRI would fund rolling stock. Agreement consistent with previously negotiated operator contract for Sunol project.
- Proposer needs / public partner benefits – Authority investment in permitting and infrastructure development. / Know partner, already agreed to contract terms, long term

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

capacity available to member agencies, experienced partner with proven technology and marketing ability.

- Does project increase or decrease GHG emissions 800% GHG reduction over land-filling
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Either option is agreeable. If funding = 8.8-9.8 million. If feedstock 700-900 tpd.

MRI at San Joaquin Co. Property

Changes noted in strikeout and underlined italics

This proposal is to develop a 1,000 ton per day composting facility using Aerated Static Pile composting at site located in San Joaquin County off Patterson Pass Rd. The facility would accept green waste, food scraps and wood waste from the residential and commercial sectors. The property is 267 acres of which approximately 40 would be developed for composting. The principal of MRI has designed several composting facility and has operated the Newby Is. composting facility.

- Proposed capacity – 1,000 tpd
- Access to the site - Midway Rd off Patterson Pass Rd.
- Source of water at the site – Reclaimed water from Musco olive, CA Aqueduct, onsite wells
- Size of the parcel – Parcel = 267 acres, compost facility = 40 acres
- Current use at the site – Grazing, power lines
- Zoning and GP designation – Zoned A - Large parcel Agriculture
- Proximity to neighbors and type of neighbors – 4 residences under 1 mile, PG&E substation
- Site ownership / control by the operator – Privately held offered for sale / proposal is for ACWMA to own with MRI as exclusive operator agreement
- Infrastructure / Cost to develop remaining – Water well and power available / 8.4 - 9.4 million
- Type of composting – Aerated Static Composting with bio-filter
- Products / Marketing / Markets – Compost and mulches / Retail & Wholesale Landscaping and Agriculture
- Time table for project development – 18-24 months after Authority approval is granted (12-18 months for permitting + 6 month construction = 24 months)
- Capital requirements and financial structure – 8.4-9.4 million / Authority to provide property and fund infrastructure improvements /MRI would fund rolling stock. Agreement consistent with previously negotiated operator contract for Sunol project.
- Proposer needs / public partner benefits – Authority investment in permitting and infrastructure development. / Know partner, already agreed to contract terms, long term capacity available to member agencies, experienced partner with proven technology and marketing ability.
- Does project increase or decrease GHG emissions 800% GHG reduction over land-filling
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Either option is agreeable. If funding = 8.4-9.4 million. If feedstock 700-900 tpd.

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

MRI at Mulqueeney Ranch Property

Changes noted in strikeout and underlined italics

The property is offered by its trustee to the Authority for development of a composting facility. Material Recovery Industries Inc. is in discussion with the principals of the Mulqueeney Ranch Property and will be representing this property before the Authority as an option for development.

- Proposed capacity – ~~Not specified~~ 1,000 tons per day
- Access to the site - ~~Feedstock via rail-haul, and~~ employees via Patterson Pass Rd off Hwy 580.
- Source of water at the site – Water not currently available. Proposes use of reclaimed water from the City of Tracy which plans to extend a pipeline to the Tesla Power Plant (status unknown) which borders the property. Short-term water would be trucked from the City of Tracy Treatment Plant.
- Size of the parcel – 4,700 acres, 40 acres for composting
- Current use at the site – Cattle grazing and wind-farms
- Zoning and GP designation – ~~Not specified~~ Zoned ABE – Large Parcel Agriculture.
- Proximity to neighbors and type of neighbors – Tesla power plant
- Site ownership / control by the operator – Mulqueeney Ranch Property / long-term lease (>30 years) to either MRI or Authority ~~Not specified~~
- Infrastructure / Cost to develop remaining – Rail tracks, unimproved roads, possible electricity / \$8.2 to \$9.2 million ~~Not specified~~
- Type of composting – Aerated Static Pile with Bio-filter ~~Not specified.~~
- Products / Marketing / Markets – Compost and Mulches/ Retail and Wholesale Landscaping and Agriculture ~~Not specified~~
- Time table for project development – 18-24 months after Authority Approval for development of facility. Long term water source unknown timetable. ~~Not specified~~
- Capital requirements and financial structure – \$8.2-9.2 million for facility not including long term water source capital requirements. ~~Not specified~~
- Proposer needs / public partner benefits – Complete project development, entitlements, construction, feedstock, operations and marketing / reduced traffic/emissions by delivery of feedstock via rail.
- Does project increase or decrease GHG emissions 800% GHG reduction over land-filling. ~~Not specified/unknown – Proposer suggests possible reduction from movement of feedstock and products via rail.~~
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Either option is agreeable. If funding = 8.2-9.2 million. If feedstock 700-900 tpd.

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

NORCAL at North Flynn Road

Changes noted in strikeout and underlined italics

This proposal is to develop a 600 ton per day composting facility using GORE Cover System composting technology at the Authority owned property off of North Flynn Rd. The facility would accept green waste and food scraps from the residential and commercial sectors. The property is 1,600 acres of which approximately 50-60 would be developed for composting. NORCAL has several existing successful composting facilities and an experience marketing staff. Suggesting a 2-step project with anaerobic digestion as the 2nd step.

- Proposed capacity – 600 tpd
- Access to the site - North Flynn Rd off of Fwy 580
- Source of water at the site – Moisture from feedstock, existing wells
- Size of the parcel – Parcel = 1,600 acres, compost facility = 50-60 acres
- Current use at the site – Grazing wind farm
- Zoning and GP designation – Large parcel Agriculture
- Proximity to neighbors and type of neighbors – Authority tenants - residences
- Site ownership / control by the operator – ACWMA / proposes exclusive operator agreement
- Infrastructure / Cost to develop remaining– Power / Proposal quotes previous estimate to develop a co-composting at site of 10-12 million
- Type of composting – GORE Cover System composting Technology
- Products / Marketing / Markets – Compost and mulches / Retail & Wholesale Landscaping and Agriculture
- Time table for project development – 24 months for entitlements + 8 month construction = 32 months
- Capital requirements and financial structure – *Option A Low price (low tip fee) market facility Authority responsible for cost of site development and infrastructure/equipment for operations = \$26 to \$35 million. A minimum level of feedstock is desired. Option B High price (high tip fee) less competitive facility. Authority responsible for costs of site development and shares in cost of infrastructure/equipment for operations, \$22-\$25 million (NORCAL share = \$7-\$10 million). Commitment of feedstock desired for either scenario. 10-20 million / Phased approach as size dictates. Authority would fund permanent infrastructure improvements, NORCAL fund rolling stock, non permanent infrastructure amortized over the term of agreement. Authority would assist in securing feedstock commitments from member agencies.*
- Proposer needs / public partner benefits – Authority investment in permitting and infrastructure development, Support in obtaining guaranteed clean and reliable feedstock from member agencies, excess capacity allocated to out of county sources. / Reduced risk by partnering with an operator experienced composting food scraps and product marketing,

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

proven technology partner with GORE Cover Systems, partner with organizational background in recycling/composting, Access to patented processes for managing organics.

- Does project increase or decrease GHG emissions 990% GHG reduction over land-filling
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? Both is desired. Funding = \$26-\$35 million. Feedstock minimum 100 tpd to 600 tpd tpd.

Delta Composting / Pellegrini Marine Transfer

The response was non-responsive to the questions in regards to the proposed marine transfer facility in Alameda County but provided details of the proposed composting operations in the delta.

This proposal is to develop a marine transfer facility in Alameda County either within the Port of Oakland or on private property to barge organics to one of three potential sites in the delta for composting and/or transformation. The proponent suggests marine transport will reduce truck traffic on regional freeways thereby reduce emissions and congestion. The facility would accept greenwaste, food scraps and contaminated paper from the residential and commercial sectors. The proponent has indicated that he has narrowed his selection to one identified three different potential composting sites which could accommodate barge transport of feedstock. Cost and location information has not been provided. The proponent states with a 10-15 year commitment of 1,000 tons per day no public financing would be required.

Information below is specific to composting site and does not respond to transfer site.

- Proposed capacity – 1,150 tpd, 1,500 peak
- Access to the site - Access to composting Facility by Marine transfer - barge
- Source of water at the site – Proposed ground water wells
- Size of the parcel – 200 acres of a 1,500 acre parcel various from 138-450 acres
- Current use at the site – Grazing Land
- Zoning and GP designation – A-160 Agriculture
- Proximity to neighbors and type of neighbors – ~~3-2~~ 3.5 miles to nearest town possible residences closer.
- Site ownership / control by the operator – ~~One site outright purchase, two sites by long term lease~~ 20+ years.
- Infrastructure / Cost to develop remaining – Power available at one site. All other infrastructure would need to be developed at other sites. Cost to develop site not specified.
- Type of composting – ~~Not specified / open for discussion~~ Simple composting Windrow or Static pile.
- Products / Marketing / Markets – Compost “Highest volume at the highest quality supported by available markets”
- Time table for project development – 2.5-3 years
- Capital requirements and financial structure – Not specified. Incentives sought for jurisdictions that commit feedstock / No public financing

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

- Proposer needs / public partner benefits – required with a 10-20 year commitment of 1,000 tons per day.
- Does project increase or decrease GHG emissions – Authority to secure marine transfer site at the Port of Oakland and guarantee a 10-15 year contract for feedstock / High quality compost products, long term regional composting capacity, possible reduced GHG emissions/congestion.
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? *Both are desired. Funding = Incentives to jurisdictions. Feedstock minimum 1,000 tpd. Less than 1,000 tpd relegates early project success to marginal status. Minimum start-up tonnage = to 500 tpd.*

Waste Management at Altamont Landfill

Company representative stated no response would be provided.

This proposal is to develop a standard permit level composting facility at the Altamont landfill. The facility would accept green waste and food scraps from the residential sector. Commercial food waste would not be a feedstock. The proposal is for a two stage process whereby they would continue to develop a registration level composting facility in a one or two year timeframe once the disposal cell is at final grade, then develop a larger facility north of the closed landfill as the second stage. The proposal would be for the Authority to provide upfront grant funding for site development (permitting and construction). In addition, once the facility operational, the proposal seeks a grant/subsidy payment for product meeting a performance standard on a per ton basis.

- Proposed capacity – 400 tpd,
- Access to the site - Altamont Pass Rd
- Source of water at the site – South Bay Aqueduct
- Size of the parcel – 30 on closed landfill or 75 on non landfill area
- Current use at the site – Closed landfill or open space depending on location
- Zoning and GP designation – Agriculture
- Proximity to neighbors and type of neighbors – 1 mile to residences on Dyer Rd.
- Site ownership / control by the operator – Waste Management owns and controls
- Infrastructure / Cost to develop remaining – Roads, scales, water, employee facilities, fuel storage, equipment maintenance and power available. / Cost to develop composting \$6 to \$8 million
- Type of composting – Aerated Static Pile
- Products / Marketing / Markets – Bulk Compost / landscaping and agriculture
- Time table for project development – 2-3 years permitting + 6 months to construct

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

- Capital requirements and financial structure – Not specified / Grant for site development and a per ton subsidy paid for compost product meeting an agreed standard
- Proposer needs / public partner benefits – Grant funding, promotion of in-county composting, promotion of compost use by member agencies, Certification of compost product, subsidy payment similar to Davis St MRF deal/ Site has appropriate zoning, some infrastructure already in place, ease of access, feedstock currently controlled by WM.
- Does project increase or decrease GHG emissions Not specified.
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? No response provided.

Z-Best Transfer

The response provided did not respond to questions regarding the proposed transfer/C&D facility in Alameda County and was specific only to the existing composting operations in south Santa Clara County.

This proposal is to develop a 1,500 ton per day transfer station in Hayward or Union City of which 1,000 tons would be organics and 500 would be C&D material. Z-Best Composting will allocate 500 tons per day of their existing capacity to material from this new transfer facility. The remaining 500 tons of organics and 500 tons of C&D material will be shipped to other destination via transfer trailer. The transfer station would accept residential and commercial green waste and food scraps. The proposal did not specifically identify any locations for the transfer facility. Composting would occur at the existing Z-Best composting facility near Gilroy in South Santa Clara County.

Information below is specific to composting site and does not respond to transfer site.

- Proposed transfer capacity – 1,500 tpd (500 tpd compost, 500 tpd biomass/mulch, 500 tpd C&D material recycling.
- Access to the site - ~~Not specified~~ State Hwy 25 near Gilroy
- Source of water at the site – ~~Not Specified~~ wells
- Size of the parcel – ~~Not specified~~ 157 acres
- Current use at the site – ~~Not Specified~~ Composting Facility
- Zoning and GP designation – ~~Not Specified~~ Zoned A-40
- Proximity to neighbors and type of neighbors – ~~Not Specified~~ Surrounded by A-40 zoned properties primarily row crop
- Site ownership / control by the operator – ~~Not specified~~ Zanker Rd. Resource Management LTD.
- Infrastructure / Cost to develop remaining – ~~Not Specified~~ None for composting facility 500 tons per day of existing processing capacity would be dedicated to Alameda County feedstock
- Type of composting – Windrow and Ag bag.
- Products / Marketing / Markets – Bulk Compost / Agriculture
- Time table for project development – 2+ years

The information below was received from proposers. No Data Has Been Verified and No Environmental Review Has Been Completed

- Capital requirements and financial structure – No upfront capital is required but would reduce the per ton rate charged. Tip fee would be based on a guaranteed flow.
- Proposer needs / public partner benefits – Commitment of feedstock flow over a period of time, grant funding could reduce member agency tipping rate, ACWMA help in Transfer Station in Hayward or Union City / Existing composting capacity dedicated to Alameda County, experienced partner in composting and marketing of products.
- Does project increase or decrease GHG emissions ~~Not specified~~ No specific reduction claimed for composting over land-filling.
- Does your proposal require a commitment of feedstock and/or funding from the Authority or both? A minimum commitment of feedstock is requested of 500 tpd.