ADDENDUM

TO THE

CITY OF LOMPOC

SOURCE REDUCTION & RECYCLING ELEMENT

APRIL 1995

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INTRODUCTION

The City of Lompoc (City) has implemented several successful recycling programs since it adopted its Source Reduction and Recycling Element (SRRE) in 1992. The aggressive approach that the City has taken to develop its programs has been guided by a strong commitment to meeting State diversion mandates and keeping costs to a minimum. This addendum will show that the City is achieving its 1995 waste diversion requirements (Public Resources Code (PRC) Section 41780) by successfully implementing an integrated waste management program that meets the objectives outlined in its 1992 SRRE. The addendum is developed within the authority of PRC Section 41770.5 which provides that a City may amend its SRRE at any time to incorporate new or revised data, to give descriptions of new or revised source reduction, recycling or composting programs, or to make other changes that are necessary to comply with the diversion requirements of PRC Section 41780.

The purpose of this Addendum is to update the City’s SRRE to include additional waste generation data and a description of the current activities related to the short and medium-term diversion programs. The addendum is also intended to assist the California Integrated Waste Management Board (CIWMB) in its review of the City’s SRRE (PRC Section 41825).

I. REVISED WASTE GENERATION DATA

The 1992 SRRE Solid Waste Generation Analysis (SWGA) was based solely on information developed in the Solid Waste Generation Study (SWGS). The SWGS followed the California Code of Regulation (CCR) Section 187221 (1), (Quantitative Field Analysis) which collected material measurements in the field (i.e., at the landfill). Because the SWGS field analysis sampling schedule did not coincide with the delivery of a special waste type, a significant amount of waste was overlooked and not shown in the City’s 1990 waste generation calculations.

Specifically, water treatment plant sludge was being landfilled while the SWGS was conducted. It was not recorded in the SWGS because its quarterly delivery schedule failed to coincide with the SWGS sampling schedule. Therefore, the purpose of this section is to identify the amount of water treatment plant sludge being landfilled in 1990, as provided in CCR Section 18722.1.(3) (Jurisdiction-Specific Data) and combine this data with SWGS information so that the SRRE SWGA reflects complete 1990 waste generation calculations.

A. 1990 WATER TREATMENT PLANT SLUDGE DISPOSAL

As provided in CCR Section 18722.1.(3), a jurisdiction can use existing published data to estimate the amount of solid wastes specific to its jurisdiction, e.g., sludge’s, which cannot be easily sampled or estimated by another methodology within the section. It is within these parameters that the City is quantifying and including in its 1990 waste generation calculations the amount of water treatment plant sludge it disposed in 1990.

For the last several years the City has contracted with V&J Rock Transport Incorporated (V&J) to transport its water treatment plant sludge to the landfill. V&J has provided the City with
quarterly documentation indicating the amount of water treatment plant sludge that has been hauled to the landfill between 1990 and 1994. Using these figures, the City has determined that approximately 14,930 cubic yards were delivered and disposed in 1990. Furthermore, the City calculates that 1 cubic yard of sludge is equal to 1 ton. Therefore, approximately 14,930 tons of water treatment plant sludge was landfilled in 1990 and should be included in the SRRE SWGA.

B. REVISED SOLID WASTE GENERATION ANALYSIS DATA

When combining the 1990 water treatment plant sludge disposal information (as previously identified) with the SWGS figures, a revised set of data can be determined. The following table summarizes this revised set of data by showing the quantities of materials being diverted from disposal in 1990 and those being disposed in 1990:

<table>
<thead>
<tr>
<th>SOLID WASTE</th>
<th>QUANTITY DISPOSED</th>
<th>QUANTITY DIVERTED</th>
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<tbody>
<tr>
<td>Paper</td>
<td>27,399</td>
<td>846</td>
</tr>
<tr>
<td>Plastics</td>
<td>5,365</td>
<td>29</td>
</tr>
<tr>
<td>Glass</td>
<td>2,062</td>
<td>474</td>
</tr>
<tr>
<td>Metals</td>
<td>3,421</td>
<td>3,638</td>
</tr>
<tr>
<td>Yard Waste</td>
<td>4,251</td>
<td>2,355</td>
</tr>
<tr>
<td>Other Organics</td>
<td>3,707</td>
<td>181</td>
</tr>
<tr>
<td>Other Wastes</td>
<td>5,736</td>
<td>103</td>
</tr>
<tr>
<td>WTP Sludge</td>
<td>14,930</td>
<td>-0-</td>
</tr>
<tr>
<td>TOTAL</td>
<td>66,870tpy</td>
<td>7,626tpy</td>
</tr>
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It should be recognized that water treatment plant sludge has been classified as Special Waste. Furthermore, water treatment plant sludge has the potential to be diverted from landfill as an alternative daily cover material (see Section II.D.6 of this Addendum).

As is evident from the above information, the estimated 1990 waste generation (waste disposed + waste diverted = waste generation) in the city of Lompoc was found to be 74,496 tons per year.

II. STATUS OF PROGRAMS IDENTIFIED IN THE SRRE

The City has implemented several programs to achieve the State diversion requirements (PRC Section 41780) and goals and objectives contained in its SRRE. While the City has found it
necessary to make some programmatic changes, the vast majority of short-term goals and objectives contained within the SRRE have been achieved.

A summary of activities as they relate to the SRRE components is provided. Each of the SRRE's selected programs are identified, followed by a general description of the City's current program or activity that supports the designated action. Additionally, new programs and objectives have been identified and described where applicable. These new programs are easily identified as they begin with an *.

A. SOURCE REDUCTION COMPONENT

Selected Short-Term Programs:

1. Promote backyard composting to increase on-site management of food and yard waste.

   Current Activity: A voluntary backyard composting program was instituted that offered all residents the opportunity to participate. More than 100 residences requested and received the start-up package that included a choice of composting bins and several instructional/educational materials. Additionally, mailings were provided through this program to participants who have questions or additional residents wishing to join the program. A newsletter on composting activities is provided twice per year.

2. Adopt a City procurement policy to encourage increased purchase of products with source reduction attributes (such as copy machines that make two-sided copies).

   Current Activity: A policy has been instituted whereby materials having recycled content receive a five percent price preference when purchased by the City. Additionally, the City utilizes copy machines that make two-sided copies.

3. Develop and disseminate source reduction education materials.

   Current Activity: A source reduction kit was developed by the City as part of a countywide "Consumer Waste Prevention Program" and is available to all City residents. More than 100 kits have been distributed.

4. Establish an awards campaign to recognize significant local reduction achievements.

   Current Activity: In conjunction with the County of Santa Barbara, the City has established an awards campaign. The City makes applications available for local businesses and nominates outstanding businesses for applicable awards.

5. Provide technical assistance to government and commercial facilities, helping them establish reduction and recycling programs.
Current Activity: Technical assistance is provided to interested businesses. Source reduction kits are available to residents. The City contracts with Art From Scrap to increase awareness of reuse and promotes CALMAX at civic presentations. Additionally, the City is working to develop commercial recycling programs.

6. Study the feasibility of establishing variable can rates for residential generators, once recycling and composting alternatives have been made available and promoted.

Current Activity: The City has analyzed several model variable can rates and has worked extensively to design and implement a collection rate structure that best meets the needs of the residents and commercial establishments. The City currently offers its residents a two-tiered structure for varying levels of service.

Detailed rate setting procedures have also been established whereby the City holds public hearings as necessary to establish appropriate and acceptable structures to meet all of the City's requirements (i.e., diversion levels).

7. Support establishment of a pilot drop-off area for recoverable (reusable/repairable) items at the landfill.

Current Activity: None. An evaluation was conducted and it was determined that such a program would be ineffective, cost prohibitive, and unsafe due to issues of public health and safety.

8. Study the feasibility of reducing or waiving business licenses fees for "source reduction" businesses.

Current Activity: The City has determined that it may waive business license fees within the parameters of the Regional Recycling Market Development Zone.

Selected Medium-Term Programs:

1. Readjustment of diversion goals for source reduction.

Planned Activity: A readjustment will be made if necessary.

2. Continually improving monitoring and quantification methods.

Planned Activity: Ongoing efforts will be made as necessary.

B. RECYCLING COMPONENT
Selected Short-Term Programs:

1. **Expand the existing automated commingled curbside recycling collection program**
   to include all single-family homes in the City and evaluate expanding collection to multi-
   family housing during the short-term planning period.

   **Current Activity:** This program has not been expanded as alternative materials (green and
   wet wastes) have been targeted for diversion.

2. **Expand existing source separated collection to service commercial and industrial
   generators.**

   **Current Activity:** This program has not yet been expanded as alternative materials (green and
   wet wastes) have been targeted for diversion. Additional studies will be conducted to determine the viability of this option.

3. **Develop a yard waste collection program to serve residential and commercial
   generators.**

   **Current Activity:** This program is in the early stages of development where waste
   characterization data has been analyzed and tonnage has been estimated. A generator and route analysis is planned to obtain additional information
   and develop an implementation strategy for the medium-term planning period.

4. **Develop a wet waste collection program for residential and commercial generators.**

   **Current Activity:** Similar to the yard waste program, wet waste collection will be
   implemented in the medium-term in conjunction with a composting operation.

5. **Establish a wood waste mulching operation at the landfill.**

   **Current Activity:** This program is currently operational and may be continued in conjunction
   with the planned composting facilities (see Section C.2).

6. **Participate in the development of a facility with mixed waste processing and intermediate
   processing capabilities, servicing the City of Lompoc, Vandenberg Air Force Base and the
   surrounding unincorporated area.** This facility should be able to add yard waste, co-
   composting, and mixed organics composting capabilities in the medium-term.

   **Current Activity:** The City recently completed a Solid Waste Management Alternatives
   Analysis which concluded that yard and wet waste composting operations are the only facility(s) necessary for achieving 50% diversion. Various
   implementation activities (i.e., engineering feasibility analysis, pilot composting program, etc.) are now being considered and it is expected that
such activities will support the development/operation of the facility(s) in the medium term.

7. Participate in local and regional recyclable materials market development activities by applying to be part of a designated market development zone, supporting content legislation, participating in the Southern California Markets Roundtable, implementing recycled content procurement policies, and encouraging private sector activities which expand secondary materials markets.

Current Activity: The City, in conjunction with the County of Santa Barbara and other Cities within the County has submitted an application and been approved as a CIWMB Recycling Market Development Zone (RMDZ). The City also works through the League of Cities to support appropriate legislation and is a member of the Solid Waste Association of North America Legislative Task Force.

Selected Medium-Term Programs:

1. Continued operations of existing recycling programs including buyback/drop-off centers, curbside collection, and commercial/industrial collections. Wood waste mulching will also continue through the medium-term. Add multi-family housing recycling collection service if necessary.

Planned Activity: Buyback/drop-off centers will continue, however, other recycling programs may be replaced with organics recycling programs. Wood waste mulching may continue if compatible with composting operations (see Section C.2 below).

2. Continue operation of the mixed waste processing activities at the Lompoc IDF.

Planned Activity: No longer applicable (see discussion above).

3. Continue participation in local and regional recyclable materials market development activities.

Planned Activity: Continued participation is expected.

C. COMPOSTING COMPONENT

Selected Short-Term Programs:

1. Participate with other jurisdictions in the region in the planning of a regional yard waste/mixed organics composting facility to serve the City of Lompoc, Vandenberg Air Force Base, and the surrounding County Unincorporated area. This facility would become operational in the medium-term and could be part of the solid waste processing facility
selected for implementation in the Recycling Component of this plan.

Current Activity: As previously stated, the City has recently completed a Solid Waste Management Alternatives Analysis which concluded that yard and wet waste composting operations are the only facility(s) necessary for achieving 50% diversion. Therefore, composting facility(s) will be implemented in the medium-term however will not be part of a solid waste processing facility.

Various implementation activities (i.e., engineering feasibility analysis, pilot composting program, etc.) are now being considered and it is expected that these activities will support the development of a facility(s) in the medium-term.

Finally, the City continues to work closely with Vandenberg Air Force Base and the County of Santa Barbara and has planned for the inclusion of each respective waste stream.

2. Continue operation of recently established drop-off site at the Lompoc Landfill for yard and wood waste. In the short-term, this drop-off will only be used to collect materials for mulch and fuel production; in the medium-term it would also collect materials for the composting facility(s).

Current Activity: The wood waste drop-off site at the landfill will continue to collect materials for mulch and fuel production until the planned composting facility(s) is operational. If this operation is compatible with the composting operations it may continue.

3. Develop fee incentives to encourage commercial, agricultural, and residential generators from all participating jurisdictions to bring clean loads of yard, agricultural, and wood waste segregated from other wastes to the Lompoc Landfill drop-off site.

Current Activity: Fee incentives may be instituted in conjunction with composting operations as necessary.

4. Conduct a local compost product market development program emphasizing landscape and agricultural uses of the municipally produced compost product.

Current Activity: The City is considering a pilot composting program that would be capable of producing compost products similar to the planned large-scale operation. It is anticipated that these products would be utilized in a market development effort that could target landscapers, agricultural interests, and other potential end users.

Selected Medium-Term Programs:

1. *Implement a curbside yard waste collection program* for all single family households
and begin compost facility operations.

**Planned Activity:** This program is in the early stages of development where the waste characterization data has been analyzed and tonnages have been estimated. A generator and route analysis is under consideration to obtain additional information and develop an implementation strategy for the medium-term planning period.

This program will be implemented in conjunction with a composting operation.

2. *Implement a wet waste collection program for residential and commercial generators.*

**Planned Activity:** Similar to the yard waste program, wet waste collection may be implemented in conjunction with a composting operation.

**D. SPECIAL WASTE COMPONENT**

**Selected Short and Medium-Term Programs:**

**Tires**

1. Continue current handling of tires through commercial businesses until such time that feasible technological alternatives are developed for recycling and/or reusing.

**Current Activity:** There has been no change in handling procedures since the adoption of the SRRE in 1992. However, the City has applied for a grant from the CIWMB to assist with the development of a tire shredding and recycling program at the landfill.

**Biosolids**

2. *Continue handling sewage sludge using current methods* which comply with applicable regulations until feasible alternative methods for recycling, reuse, reduction and/or composting are developed.

**Current Activity:** There has been no change in handling procedures since the adoption of the SRRE in 1992.

3. Continue monitoring and evaluating technological developments for methods to recycle, reuse, and/or compost sewage sludge, and if possible, implement such methods.

**Current Activity:** As previously stated, the City is considering composting these materials in the planned composting facility(s). An engineering feasibility study will
likely be performed as part of the facility implementation process and will address the technological capabilities of different systems as they relate to handling these materials.

**Medical Waste**

4. Continue landfill load check program to ensure that all medical waste loads, including small quantity amounts, have been properly treated to render the medical waste a solid waste.

*Current Activity:* Ongoing. There has been no change in this program since the adoption of the SRRE in 1992.

5. Support the County of Santa Barbara implementation of the **small quantity generator program**.

*Current Activity:* The City supported the implementation of the County of Santa Barbara small quantity generator program by establishing the household hazardous waste collection program which collects conditionally exempt small quantity generator wastes.

**Other Special Waste**


*Current Activity:* An ADC program was developed and approved as delineated in California Integrated Waste Management Board revised Solid Waste Facilities Permit No. 42-AA-0017. This program is expected to continue indefinitely as it is cost effective and the only viable option available for diverting water treatment plant sludge from landfill. The City is also considering composting this material in the planned composting facility.

**E. EDUCATION AND PUBLIC INFORMATION COMPONENT**

The City, in conjunction with the County of Santa Barbara, has supported and implemented the general countywide approach outlined in the SRRE. As a result, all of the short and medium term objectives (listed below) have been accomplished. While some objectives may be unnecessary to accommodate new medium-term programs, others will remain unchanged.

**Selected Short and Medium-Term Objectives:**

1. To increase awareness of and participation in recycling by City residents, which will result in an increase in the number of people recycling in the City.
Current Activity: This objective has been accomplished for existing programs. Due to the planned changes in the collection system (i.e., collection of green and wet waste) this objective will remain unchanged.

2. To increase the number of commodities residents recycle, as well as the overall amount of commodities recycled, to result in an increased level of recycling in the City.

Current Activity: This objective has been accomplished for existing programs. However due to the changes being considered in the collection system (i.e., deletion of curbside collection of commingled recyclables and addition of green and wet waste) this objective may no longer be required. Specifically, by targeting the organic waste stream, an increased level of diversion should be achieved.

3. To increase the awareness of and participation in source reduction and composting methods among City residents, which will result in an increase in the number of people practicing source reduction and composting methods in the City.

Current Activity: This objective has been accomplished. Several educational and technical assistance programs have been implemented and are ongoing to increase awareness and participation in source reduction and on-site composting methods among City residents (see Section A above).

4. To coordinate with and actively participate in the Countywide Education and Public Information Campaign.

Current Activity: This objective has been accomplished in the short-term and will continue throughout the medium-term.

F. FUNDING COMPONENT

Although not specifically required by regulation, the following objectives were included in this component to guide the future development of program implementation funding mechanisms. Similar to the Education and Public Information Component, all of the objectives are being accomplished.

Selected Short and Medium-Term Objectives

1. To establish funding mechanisms sufficient for program implementation.

Current Activity: This objective has been accomplished for existing programs and will remain applicable for all future programs.

2. To use funding mechanisms that promote resource recovery activities such as source reduction, recycling, and composting.
Current Activity: This objective has been accomplished for existing programs and will remain applicable for all future programs.

3. To use funding mechanisms to encourage and promote the development of local activities and industries that contribute to the attainment of the City's diversion targets.

Current Activity: This objective has been accomplished and will remain ongoing through the medium-term.