



CITY OF SACRAMENTO

DEPARTMENT OF PUBLIC WORKS JUN 12 3 34 PM '85

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CITY OF SACRAMENTO

22

ENGINEERING DIVISION

June 7, 1985

THOMAS M. FINLEY
Engineering Division Manager

City Council
Sacramento, California

Honorable Members in Session:

CITY MANAGER'S OFFICE
RECEIVED
JUN 11 1985

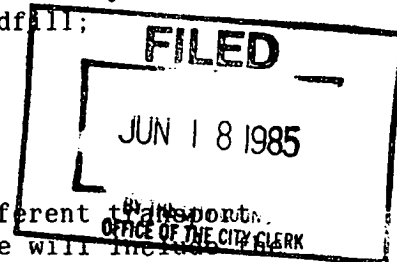
SUBJECT: Landfill Alternatives Study

SUMMARY

Attached is a report on the above referenced subject which was submitted to the Transportation and Community Development Committee for discussion at their meeting of Wednesday, June 5, 1985. The City Council has approved a study with Jones and Stokes Associates to conduct a preliminary evaluation of landfill alternatives and to prepare an environmental assessment of preferred site options. The study is designed to evaluate a range of reasonable site alternatives for policy, economic, and environmental impacts in conformance with the California Environmental Quality Act requirements. Upon completion of the alternative study, staff will recommend those alternatives (no more than four) which should be evaluated in detail during the environmental assessment period.

Based upon the attached staff report and discussions with the Transportation and Community Development Committee, the following site location alternatives are proposed to be evaluated:

1. East Sacramento Site (Granite Quarry);
2. Two or three additional sites within the boundaries of the City of Sacramento, in the northern and southern sectors of the City. Staff and the consultant will evaluate whether reasonable alternatives for land disposal are available within the City limits;
3. New site owned by the City, but located outside of the City limits within Sacramento County in the vicinity of the County Landfill;
4. Yolo County Regional Landfill; and
5. Sacramento County Landfill.



In order to properly evaluate these landfill alternatives, different transfer stations and disposal technology options must also be considered. These will include the following:

- a. New transfer station;
- b. Conversion of County owned transfer stations, located near McClellan AFB and on Fruitridge Road, to accept all City wastes;

- c. Direct haul to Landfill;
- d. Conventional Landfill; and
- e. Bale fill (for comparison with conventional landfilling practices).

These alternatives will be compared based on the evaluation factors listed on the attached Alternatives Evaluation Matrix. Included as major evaluation factors are compatibility with materials, resource, and energy recovery. It is anticipated that staff will present results of the study to the City Council within a time frame of about four (4) months.

This Landfill Alternatives Study is one component of a comprehensive waste management alternatives evaluation process on which City staff is embarking. In parallel with this landfill alternatives evaluation, staff will be presenting waste-to-energy and other waste management alternatives to the Council for review and evaluation. This will be achieved by issuing two requests for proposal: a) Waste-to-energy projects; and b) More broadly-based waste management alternatives. Both requests for proposal are expected to be issued during the month of July, with responses due by October. Therefore, information on a wide range of alternatives will be available by October for development into a comprehensive waste management program for the City.

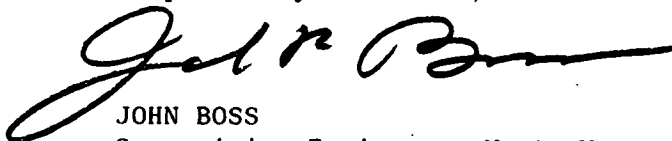
FINANCIAL

Council has authorized expenditure of \$135,000 for the landfill alternatives study and environmental impact report.

RECOMMENDATION

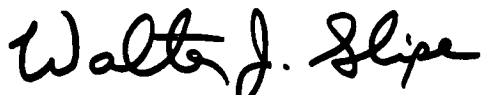
It is recommended that this report be received by the Council for information and filed.

Respectfully submitted,



JOHN BOSS
Supervising Engineer - Waste Management

Recommendation Approved:



WALTER J. SLIPE
City Manager

Approved:



MELVIN H. JOHNSON
Director of Public Works

JRB:vr
JRB108Cvr

Attachment

June 18, 1985
All Districts



CITY OF SACRAMENTO

DEPARTMENT OF PUBLIC WORKS

22

ENGINEERING DIVISION

THOMAS M. FINLEY
Engineering Division Manager

May 24, 1985

Transportation and Community Development Committee
Sacramento, California

Honorable Members In Session:

SUBJECT: Solid Waste Disposal Planning

CITY OF SACRAMENTO
R E G I S T E R E D
MAY 28 1985

SUMMARY

The City Council has approved a study with Jones and Stokes to conduct technical studies evaluating long-term solid waste disposal site options, prepare environmental assessments of the preferred site option and reasonable site alternatives. The study is designed to generate a solution to the City's disposal site problem which would be available in the short-term, and would be consistent with an overall long-term solution and using various technologies. Public Works, Planning and the City Attorney's staff have developed a study management plan, an objectives statement and numerous evaluation criteria for the Solid Waste Disposal Feasibility Study and Environmental Impact Report. The technical studies have begun.

This report presents the major features of the study plan and outlines Committee feedback that is requested. The Committee is requested to review and endorse the study objectives, the alternatives to be studied and a rating matrix.

Concurrently, staff will be soliciting proposals from the private sector for waste-to-energy, transfer, alternative waste processing, and other innovative waste management options. The solicitation process will be separate from, but coordinated with, the Jones and Stokes/Cooper Engineers effort. Land-based disposal capacity to be identified in this study must be a component of any waste management system.

BACKGROUND

The City's current landfill expansion will provide a relatively short term answer to the City's solid waste disposal needs. Staff has been instructed to develop an alternative disposal solution which is responsive to the short term objective of closing the 28th Street landfill, and is consistent with a comprehensive long-term waste management strategy. Council has approved a consultant, Jones and Stokes Associates, Inc., for this study. The study, which will identify and study alternative sites, is a necessary first step in delivering a long-term overall solution to solid waste management. In preparation for developing a detailed scope of services for the agreement, staff has held several meetings with Jones and Stokes. Members of Public

Works, Planning and City Attorney's staff have participated. The study includes a focused feasibility investigation and environmental assessment for alternative land disposal options.

It is recognized that any long term alternative, including waste-to-energy, will require a disposal site. This study will evaluate alternate disposal sites, transport options and disposal technologies. A recommended alternate will be chosen for detailed design, environmental assessment and eventual implementation (permits, design, and construction).

OBJECTIVES STATEMENT

The objectives statement is intended to provide overall study guidance and direct initial evaluation and screening of potential alternatives. Council concurrence in these objectives is requested. The solid waste land disposal solution should:

- * Provide a long-term (20+ years) solution for land disposal of City solid waste or process residues.
- * Be available as a short-term (3-5 years) solution in the plan.
- * Provide a new disposal site to replace the 28th Street landfill.
- * Closure of the 28th Street landfill at the end of its useful life.
- * Provide flexibility to accommodate alternative technologies.
- * Minimize environmental and social impacts.
- * Minimize user cost.
- * Minimize City financial risk.
- * Minimize loss of productive land; contribute to land reclamation if possible after final closure.

STUDY MANAGEMENT PLAN

The study management team has jointly developed a process to assure the study leads to the timely availability of a solid waste solution. John Boss, Supervising Engineer - Waste Management, will have primary responsibility for managing this study within the Public Works Department, Engineering Division. Assistance will be provided by the Solid Waste Division, Planning Division and City Attorney's Office. Significant features of the study management plan are:

- * Bring all known or potentially delaying issues to City management, Council and public attention early in the process to avoid later delays or retracing of steps.
- * Keep Council informed through frequent written reports.
- * Obtain Council guidance to focus on near-term and far-term objectives, narrow the range of alternatives and crystallize policy directions as early as possible consistent with CEQA, legal, and policy requirements.
- * Keep interested public groups and individuals informed on study progress and major decisions with frequent information bulletins to mailing list. Hold several well publicized public meetings.

PROJECT SCHEDULE

The attached study and project implementation schedule is the shortest possible time frame within which a new landfill can be brought into operation, assuming absolutely no delays in the decision making process. The schedule calls for beginning the East Area Landfill Site Technical Study at the same time as the Alternatives Feasibility Study (AFS). This will allow early technical evaluation of the Granite Pit site feasibility. A major decision point by the Council will occur at the end of the AFS, when the Council will be asked to select a limited number of preferred alternatives for more detailed environmental evaluation. At that time, preparation of an EIR will be initiated for the designated alternatives. This schedule may provide an operational facility at the end of 24 months.

ALTERNATIVES AND RATING MATRIX

It is important to broadly evaluate a wide range of possible landfill and related alternatives, and then to determine as quickly as possible a limited number of alternatives which are feasible and merit more detailed evaluation. The attached list of alternatives represents those alternatives that City staff and the consultant feel are reasonable and whose initial feasibility merits study. The factors and criteria listed in the rating matrix are intended to ensure the addressing of significant social, environmental and economic impacts, and will serve as a tool to identify the feasible alternatives.

FINANCIAL

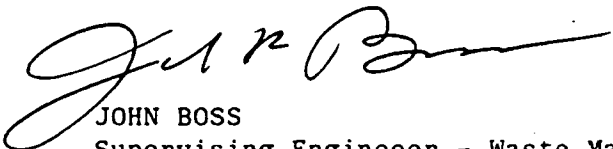
Council has authorized expenditure of \$135,000 for the feasibility study and environmental impact report.

Transportation and Community Development Committee
Solid Waste Disposal Planning
May 24, 1985
Page 4

RECOMMENDATION

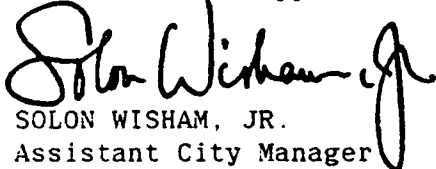
It is recommended that the Committee endorse the project objectives, alternatives and matrix.

Respectfully submitted,



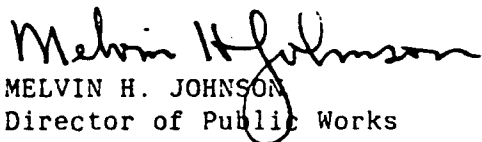
JOHN BOSS
Supervising Engineer - Waste Management

Recommendation Approved,



SOLON WISHAM, JR.
Assistant City Manager

Approved:



MELVIN H. JOHNSON
Director of Public Works

HB:eh
HB105Ceh

Attachment

LOCATION OPTIONS - WHERE?
 East Sacramento (Granite) Site
 North Sacramento Site
 South Sacramento Site
 Yolo County Regional Landfill
 Sacramento County Landfill
 New Site in County

TRANSPORT OPTIONS - HOW?
 Direct Haul
 Transfer Station(s)

DISPOSAL/REUSE TECHNOLOGY - HOW?
 Loose Fill
 Bale Fill

EVALUATION CRITERIA

PROJECT OBJECTIVES

- o Provide long-term (20+ years) solid waste solution
- o Ensure short-term implementability (1987)
- o Provide new disposal site to replace existing site in 2-3 years
- o Accommodate alternative technologies when appropriate
- o Minimize environmental impacts
- o Minimize user costs
- o Minimize City financial risk
- o Minimize loss of productive land

- o Promotes objective
- o Neutral
- o Detracts from objective
- † Not evaluated
- NA Not applicable

POLICY CONFORMITY

- o Minimize non-city involvement
- o Maximize longevity of solution
- o Minimize delivery time
- o Maximize consistency with land use plans
- o Maximize consistency with COSLMP
- o Maximize compatibility with materials recovery and recycling
- o Maximize compatibility with waste to energy

- o Consistent
- o Marginally consistent
- o Inconsistent
- † Not evaluated
- NA Not applicable

ECONOMIC CHARACTER

- o Capital expenditure
- o User rate change
- o Operation and maintenance
- o Financibility

ENGINEERING CHARACTER

- o Proven Technology
- o Reliability
- o Flexibility
- o Ease of permitting
- o Transport distance
- o Geotechnical setting
- o Hydrologic setting
- o Ease of operation
- o Ability to use existing equipment
- o Site access
- o Availability of cover material

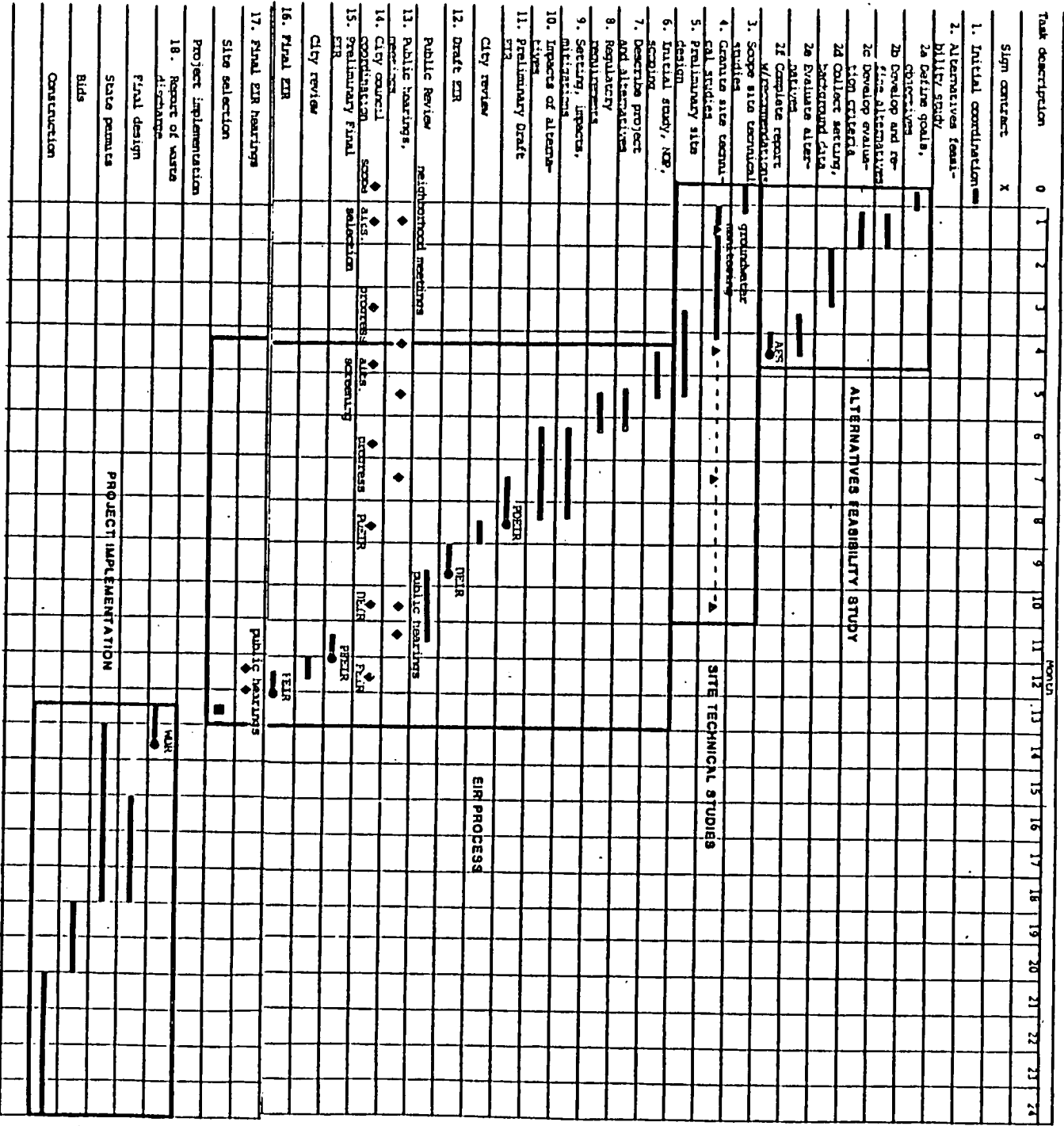
- o Good
- o Adequate
- o Poor
- † Not evaluated
- NA Not applicable

ENVIRONMENTAL IMPACT

- o Seismic hazard
- o Soil resource
- o Air quality
- o Surface water hydrology
- o Surface water quality
- o Flooding
- o Groundwater hydrology
- o Groundwater quality
- o Biological resources
- o Noise
- o Land use conversion
- o Land use compatibility
- o Housing
- o Traffic
- o Circulation
- o Public services
- o Energy conservation
- o Public health
- o Cultural resources
- o Aesthetics
- o Growth inducement

- o No impact
- o Minor adverse impact
- o Major adverse impact
- † Not evaluated
- NA Not applicable

SOLID WASTE MANAGEMENT IMPLEMENTATION SCHEDULE



LEGEND

- Reports
- ▲ Monitoring dates
- ◆ Meetings
- Site selection

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4/15/85