# County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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JOHN A. FANTHAM
DIRECTOR OF PUBLIC WORKS

**AGENDA: JUNE 22, 1999**

June 10, 1999

SANTA CRUZ COUNTY BOARD OF SUPERVISORS
701 Ocean Street
Santa Cruz, CA 95060

SUBJECT: BUENA VISTA LANDFILL SOIL MANAGEMENT PROJECT

Members of the Board:

On December 8, 1998, the California Coastal Commission directed the County to consider utilizing the Watsonville City Landfill expansion site as an alternative soil storage facility for the Buena Vista Landfill. On May 18, 1999, your Board conducted deliberations on the Coastal Commission's mandate and directed staff to formally pursue discussions with the City of Watsonville regarding the use of the Watsonville City Landfill site for the Buena Vista Landfill Soil Management Project, On May 25, 1999, your Board provided Public Works with a specific set of directives regarding development of the soil storage alternative including: initiation of engineering and permitting; entering into formal negotiations with the City of Watsonville; and advising the Coastal Commission of the County's intent to pursue their recommended Watsonville City Site alternative as opposed to the County's original proposal to utilize the adjacent Rocha property, Your Board went on to further clarify and declare the County's intent to pursue the Watsonville site alternative and defer any further actions on the Rocha site.

As a follow up to this decision, your Board also requested a report back in one month on the status of negotiations and project implementation. Staff has been in close contact with Watsonville City staff. Meetings are being scheduled for later this month to begin outlining the necessary agreements. However, before we can complete any agreements, initiate the environmental review process, or prepare an implementation schedule, preliminary engineering for this project alternative needs to be completed. Preliminary engineering will include: a biological assessment of the impact area within the Biotic Conservation Easement, location of a new mitigation site and evaluation of the existing mitigation site for the Watsonville Landfill expansion; an updated geotechnical investigation and slope stability analysis; a noise and air quality analysis; conveyor routing and design analysis; analysis and design of on-site and off-site drainage structures; review and coordination of soil site operations and Watsonville City Landfill expansion plans; and completion of formal design drawings for the soil storage project.

We are estimating the preliminary design work will take three months to complete, at which time we will have all the necessary information to complete negotiations with the City of Watsonville, initiate environmental review and permitting, and accurately define an implementation schedule. This contract amendment also includes a small task for review of conceptual landfill development alternatives in the event a soil storage facility cannot be sited in the limited time available for completion of this project.

Attached for your approval is an amendment to the 1998/99 Independent Contractor Agreement with CH2M Hill, Inc. This amendment will provide for the technical services and engineering support necessary to complete preliminary design and related work for the Buena Vista Landfill Soil Storage Project on the Watsonville City Landfill expansion site. The cost for this preliminary design work will be $238,672.00 for an amended contract not-to-exceed amount of $411,687.00. Sufficient funds have been included in the 1999/2000 CSA-9C Solid Waste Enterprise Fund budget for this purpose.

It is therefore recommended that the Board of Supervisors take the following action:

1. Approve the attached Amendment to Agreement with CH2M Hill for an amended not-to-exceed amount of $411,687.00, pending final Board approval of the 1999/2000 budget.

2. Authorize the Director of Public Works to sign the Amendment to Agreement on behalf of the County.

2. Direct Public Works to return with a project schedule and a report on the results of preliminary engineering and negotiations with the City of Watsonville on or before October 5, 1999.

Yours truly,

For Charlie A James Jr
JOHN A. FANTHAM
Director of Public Works

RPM:bbs
Attachments

RECOMMENDED FOR APPROVAL:

County Administrative Officer

copy to: California Coastal Commission
David Koch, City of Watsonville
Ana Demorest, CH2M Hill
Dana McRae, County Counsel
Kim Tschantz, Planning Department
Fred Magaard, Public Works

**AMENDMENT TO AGREEMENT**

The parties hereto agree to amend Agreement number 8 1757 dated December 15, 1998, by and between the COUNTY OF SANTA CRUZ and CH2M HILL, INC.. The purpose for amendment is to: increase the contract not-to-exceed amount to $411,687.00 for required preliminary engineering services associated with relocation of the Buena Vista Landfill Soil Management Project to the Watsonville City Landfill Expansion Site and completion of conceptual landfill development plan revisions.

All other provisions of said agreement shall remain the same.

Dated: _____

COUNTY OF. SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS

_____
DIRECTOR OF PUBLIC WORKS

Contractor:

CH2M HILL, INC.

By: David I Anderson

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P.O. Box 12681
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Approved as to form:

D. McRae 6-11-99
Asst. County Counsel

DISTRIBUTION: County Administrative Office
Auditor-Controller
County Counsel
Ana Demorest, CH2M Hill

RPM:rpm

amndagr2.wpd

# SCOPE OF WORK

## CONSULTANT ENGINEERING SERVICES

## BUENA VISTA LANDFILL – SOIL STORAGE PROJECT

## WATSONVILLE LANDFILL EXPANSION SITE

# Task 1.3 Conceptual Landfill Development Alternatives

## Project Understanding

We understand that the County would like to evaluate, on a conceptual level, an alternative landfill development plan. CH2M HILL has prepared this scope of work for conceptual design of alternative landfill development.

## Proposed Scope of Work

The following preliminary evaluations and design activities will be performed to develop a conceptual alternative design will include:

- Access road and alternative design limits
- Base elevation and grades
- Sump configuration and location
- Excavation and fill grades
- Storm water drainage controls (drainage ditches and interim sedimentation basin)
- Calculation of airspace, including estimating excavation and fill quantities

The Conceptual Alternative Design will include a design memorandum describing the design assumptions and design criteria and a conceptual grading plan.

# Task 4 Soil Site Noise Impact Evaluation

## Project Understanding

Based on a preliminary noise evaluation performed for this project, it appears that noise impacts may limit the footprint of the Soil Management Area. Because noise limitations may influence stockpile layout and phasing, a more in-depth noise assessment will be required. The purpose of the noise assessment will be to determine the impacts of the stockpiling operations on nearby sensitive receptors, and recommend methods to mitigate those impacts. The assessment will include review of applicable noise regulations, field sampling of background noise levels and equipment noise levels, and noise analyses.

## Proposed Scope of Work

### Task 4.1 Noise Assessment Preparation

CH2M HILL will review the noise regulations of concern, which will be identified by County of Santa Cruz (County) staff, with respect to off site noise impacts at the closest residential receptor. During this phase, it is important to identify if the acceptable increase is based on Leq or L90's and the averaging time period (minimum hourly, eight-hour average).

In addition, CH2M HILL shall conduct a reconnaissance of the project study area to determine the distance from the closest residential receiver to the noise area and identify acoustically significant topographic features.

### Task 4.2 Field Noise Measurements

Sampling noise measurements will be conducted at the closest residential receiver. An unattended monitor shall be set to record noise levels over a 36-hour period at the closest receptor. Two daytime periods (7 a.m. to 7 p.m.) shall be monitored. Leq, L10 and L90 shall be presented in 10 minute and hourly averages. If possible, we will schedule the filed measurements so that measurements are taken for two scenarios: 1) the grinding and baling operations are not occurring, and 2) at least one of the grinding or baling operations. The County shall ensure that 24 hour access to this location is provided (and that any dogs are kept inside during the monitoring period – preferably). A minimum of three 20-minute samples will be taken at three additional locations. These additional readings will be used to validate the 24-hour data and identify significant noise sources (i.e. traffic on Buena Vista Road, agricultural equipment, etc).

### Task 4.3 Noise Analyses

The sound level generated from the site shall use the data presented in the previous EIR. A noise attenuation model (similar to that used in the conceptual report) shall be used to determine the combined impact and set back requirement such that a 5-dBA increase over the measured ambient background level is not exceeded.

A technical memo presenting the background sampling data and summarizing the impact on the closest residential receiver will be prepared as part of this task.

# Task 5 Soil Transport Routing Options

## Project Understanding

CH2M HILL will perform an "independent" evaluation of the alternatives available for transporting the surplus soils between Buena Vista Sanitary Landfill (Buena Vista Landfill) and the proposed Soil Management Area on the City of Watsonville Landfill (Watsonville Landfill) expansion site. This task will be performed by CH2M HILL staff with expertise in landfill operations and earthworks who have not been involved in the project to date. This task includes performing an alternatives study of transport options to establish which one best minimizes adverse impacts to the community while still meeting the needs of the County in a cost-effective and technically feasible manner.

## Proposed Scope of Work

### Task 5.1 Development of Transport Alternatives and Evaluation Criteria

CH2M HILL will develop a list of feasible alternatives for transporting the soil to the proposed Soil Management Area. These alternatives will be developed based on an evaluation of the soil transport needs, as well as limiting factors including public access, landfill operations, etc. At the same time, criteria for evaluation of the soil transport options will be developed. Examples of criteria include:

- costs;
- ease of implementation;
- ability to implement in phases;
- air quality;
- noise impacts;
- biotic impacts;
- visual impacts;

- Community acceptance/ issues;

Each criterion will be assigned relative weightings (from 1 to 10) that reflect the level of importance for each criterion. For example, the criteria of AIR QUALITY may be determined to be very important. Therefore, it is assigned a weight of 9. Then within each criterion, a scale or rating will be established to evaluate "least acceptable" to "most acceptable" features of those criteria. For AIR QUALITY, these ratings may be:

9- no impact
7- nominal impact
5- average impact
3- significant impact but mitigable
1- unmitigable

These criteria and their relative weight (importance) will be established through discussions with the County.

### Task 5.2 Evaluation of Soil Transportation Alternatives

Each alternative will be ranked according to how well meet the criteria. The ranking will be based on a numerical score based on the importance and impact of each criterion. Because each criterion has a different weight, some criteria will more heavily impact the ranking of the transportation alternatives than others will.

This approach is meant to provide only preliminary conclusions regarding the performance of one alternative relative to another using established, consistent guidelines. The determination of an alternatives' score depends primarily on "judgement" and not on a detailed impacts analysis (such as will be applied in the preparation of an EIR). The results will be forwarded to the County in the form of a technical memorandum.

# Task 6 Soil Management Area/Landfill Expansion Phasing and Development

## Project Understanding

The proposed Soil Management Area must be developed in a matter that incorporates both the short- and long-term development and operational needs of Buena Vista Landfill and Watsonville Landfill. The use of the Watsonville Landfill expansion area for the Soil Management Area will likely impact the development of both landfills and require a sharing of resources. Therefore, CH2M HILL will prepare a Phased Development Plan (PDP) for the Soil Management Area. The purpose of the PDP will be to evaluate and reduce impacts to the planned development of both landfills, while developing a technically feasible and cost effective plan to address the soil management needs of Buena Vista Landfill.

The PDP will be conceptual in nature and will serve as a planning tool to identify site-specific design and operational elements that must be considered in the development of the Soil Management Area. As part of the development of the PDP, we will evaluate soil generation and handling for Buena Vista Landfill, and planned operations for both landfills including waste disposal rates, available airspace, and soil usage. In addition, the PDP will address the phased sharing of facilities in the Watsonville Landfill expansion area. The PDP will focus on the following objectives:

- Development of a cost effective and technically feasible solution to the County's soil management issues
- Layout and phasing of the Soil Management Area in a manner that reduces impacts to Watsonville's existing development plans
- Managing excavation and stockpiling to reduce stockpile requirements, haul distance, and handling of soil materials
- Develop a sequence of soil management operations that allows the sharing of resources between the County and the City of Watsonville
- If necessary, modify the phasing of Watsonville Landfill to accommodate a phasing scheme that is practical and technically feasible.

We understand that the County is not seeking to update the master plan for Buena Vista Landfill, or fund the development of a new master plan for the City of Watsonville (City). Therefore, the PDP will be prepared using existing planning documents as a basis. If these plans are not compatible when evaluated based on the resource sharing that will be required as a result of the Soil Management Area project, some changes to the planned phasing of both landfills may be required. In this situation, CH2M HILL would prepare conceptual level phasing plans for the impacted landfills. These phasing plans will be evaluated for basic slope stability, surface water drainage, and airspace volumes; however, these plans will not be developed to the level of detail required for a Master Development Plan.

Existing topographic maps of the Watsonville Landfill Expansion site will be utilized as the base maps for the design drawings. We assume that a recent topographic map of the area, in digital format, will be available for this purpose.

In order to prepare the PDP, the following subtasks are proposed:

- Data Review
- Development of Alternatives
- Phased Development Plan
- Conceptual Design Report

## Proposed Scope of Work

### Task 6.1 Data Review

Preparation of the PDP for the Soil Management Area will begin with a review of available documents for the Watsonville Landfill expansion area and vicinity that may have relevant impact on the development of the plans. We will focus on the conceptual ultimate stockpile configuration already developed by CH2M HILL and the existing Master Development Plan for each landfill. The purpose of the review will be to identify the operational requirements of each landfill, and evaluate what potential conflicts may arise with the implementation of the Soil Management project. In addition, issues resulting from the noise analysis and soil transport options evaluation (Tasks 4 and 5, respectively) will be considered. Specific issues that will be considered consist of

- Permit conditions for the expansion of Watsonville Landfill
- Total stockpile volume requirements based on Buena Vista Landfill's excavation quantities
- Timing and volume of Buena Vista Landfill's soil demand (i.e., when will removal of soil from the stockpile occur)
- Timing and volume of Watsonville Landfill's soil demand (assuming they had planned to excavate soil from the expansion area)

- Timing of Watsonville Landfill's Phase IV and V construction (based on airspace volumes, waste disposal rates, etc.)
- Stockpile/landfill footprint and configuration limitations

We assume that all of the above data will be included in existing documents and the generation of new data will not be required to develop this information.

### Task 6.2 Development of Alternatives

After evaluating the soil needs and operational constraints of each landfill and identifying potential conflicts, CH2M HILL will develop up to three alternatives for managing those issues. We anticipate that the largest conflict will occur between the space needs of the Soil Management Area and the Watsonville Landfill operations. Alternatives that may be considered to remedy the space issue include alternative phasing of Watsonville Landfill and/or Buena Vista Landfill development, trading of airspace between Buena Vista Landfill and Watsonville Landfill, and re-evaluation of stockpile configuration limitations.

An initial strategic planning meeting will be conducted with County and City staff to discuss alternative strategies to remedy the conflicts. CH2M HILL will prepare a memorandum of understanding to document decisions made as a basis for subsequent work. Budget for CH2M HILL's participation in the strategic planning meeting is included in Task 10.

### Task 6.3 Phased Development Plan (PDP)

Once agreement is reached between the City and County on the preferred soil management concept, CH2M HILL will develop a PDP to show how the Soil Management Area will be phased over the life of the soil management project. Conceptual level plans will be prepared for each phase and will show the grades and contours of the proposed stockpile, as well as the proposed expans'ion phases of Watsonville Landfill. Conceptual locations of access roads, erosion control, and drainage facilities will also be presented.

If an alternative is selected that involves modifying the phasing of Watsonville or Buena Vista landfills, we would prepare conceptual drawings for the landfill phasing. These drawings will include excavation grades, temporary drainage facilities, access roads, and module build-out contours. As necessary, calculations for drainage, stability, and airspace will be performed.

If an alternative phase is proposed for the Watsonville Landfill, preliminary slope stability calculations will be performed only for areas that have been changed from the existing Master Development Plan (MDP). All stability calculations will be performed using the same assumptions and soil properties that were used in the MDP prepared by Emcon. It is not within this scope of work to assess the adequacy of the previous geotechnical work. However, if CH2M HILL notes a major discrepancy between soil profiles and properties that we develop for the stockpile stability and the data used by Emcon, we will bring it to the attention of the City of Watsonville.

### Task 6.4 Conceptual Design Report

CH2M HILL will compile the work of this task into a Conceptual Design Report (report) that will present the known existing conditions, assumptions, design criteria, and site constraints that formed the basis of our work. Technical appendices will present the rationale, supporting documentation, and results of all analysis performed. The phasing plans will be included as full-sized (22" x 34") plans.

# Task 7 Conveyor Design

## Project Understanding

If a conveyor system becomes the selected soil transport option, a preliminary design of the conveyor system would be performed. The proposed route for the conveyor would be selected during the evaluation of soil transport options (Task 5). For this scope, we have assumed that the conveyor route will include one bridge over Gallighan Slough and the entrance to the Buena Vista Landfill maintenance area, and a crossing under a Union Pacific rail trestle. The preliminary design would include: an analysis to determine the operational requirements for the conveyor; evaluation of conveyor support/framing system alternatives (i.e. stationary vs. portable); preparation of preliminary plans and cost estimates; geotechnical recommendations regarding bridge foundations and settlement estimates; preliminary structural design for the bridge; and evaluation of electrical supply requirements and potential sources.

## Proposed Scope of Work

### Task 7.1 Basis of Design

Initial analysis to determine average and peak flow rates, feeder alternatives, and discharge/delivery preferences. This will evaluate what the maximum soil delivery rate must be to support the project. It will also address how the conveyor will be loaded (type and size of loading equipment, bucket size, soil type, soil variability, seasonal weather considerations, hours per day, etc.). The discharge arrangement would establish the practical height of any stockpiling, radial stockpiling, and telescoping/radial options. This task would also describe various options such as belt cleaners, tensioners, tracking devices, belt scales, etc. Dust control options would also be evaluated. The results of these analyses will be summarized in a Basis of Design Memorandum.

### Task 7.2 Conceptual Plan and Profile for Conveyor Configuration

A Plan and profile of the conveyor alignment will be prepared to establish optimal section lengths and motor locations. This task would also address the reversing of terminals to change the belt conveyance direction (from soil storage to soil deliver modes). Seismic, settlement, and wind effects will also be addressed in this task. For this scope it has been assumed that plans and profiles will be prepared for one conveyor configuration (with each element identified as stationary, fixed, hybrid, etc.) corresponding to the alignment selected in Task 5.

### Task 7.3 Belt Sizing

An analysis of belt speed vs. belt width for the application should be performed. Wider belt designs offer less potential spillage, less operating cost, and more flexibility to upgrade performance at a later date. However, they cost more initially. For any given rate of delivery, a narrower belt can usually equal a wider belt if the belt speed is increased proportionately. This analysis would show a practical range of reasonable belt speeds and evaluate how each standard belt width would affect the required belt speed. This will then be expressed in approximated capital and operating costs for comparison.

### Task 7.5 Preparation of Preliminary Design Memorandum

A Preliminary Design Memorandum will be prepared which includes:

- a description of the design criteria

- a schematic describing the features of each component in summary
- a conceptual cost estimate for the conveyor system

The memorandum will be submitted to the County in draft form. Based on County comments, the final memorandum will include a recommendation for the preferred alternative design, together with any explanatory notes.

### Task 7.6 Meetings

For the purpose of this scope, we assume that two meetings will be held with the County during the preliminary conveyor design. The purpose of these meetings will be to discuss options and to determine what the optimum configuration would be. We expect the first meeting to be held after the Basis of Design memorandum has been submitted. The second meeting is anticipated to be by conference call, and would occur after conveyor configuration, belt size, and discharge configuration evaluations have been completed.

# Task 8 Design of Soil Management Area

## Project Understanding

The County has requested that CH2M HILL perform a preliminary design for the proposed Soil Management Area at the Watsonville Landfill Expansion Area. The preliminary design will involve the following activities:

- Supplemental geotechnical investigation
- Revise conceptual stockpile configuration and drainage system
- Evaluate and modify (if necessary) Phase IVN Watsonville Landfill's drainage design
- Coordinate preliminary stockpile design with Phase IVN ancillary facilities (i.e., sound berm, access roads, etc.)
- Design of erosion controls for stockpile and disturbed areas

## Proposed Scope of Work

### Task 8.1 Geotechnical Investigation

A geotechnical investigation will be performed to supplement the existing geotechnical data available for the proposed Soil Management Area. Our proposed scope of work for this task includes the following:

- Review existing information including available geotechnical reports, design drawings, utility plans, and as-built drawings for the site and nearby facilities.
- Perform the limited field investigation at the site. We propose that the investigation include two to three borings to approximately 30 feet. We are anticipating that access may be difficult in some areas, and that an all-terrain drill rig may be required. The borings will be sampled at 5-foot intervals.

- Perform engineering and index property tests on selected representative soil samples. We anticipate that the laboratory testing program will include Atterberg Limits, soil gradation, moisture content, and shear strength testing.

### Task 8.2 Revise Conceptual Stockpile Configuration and Drainage System

The preliminary stockpile configuration and drainage system will be based on the conceptual design prepared by CH2M HILL in March 1999. The conceptual design considered the Watsonville property lines, biotic easements, required setback from the closest adjacent residence to mitigate noise impacts, preliminary slope stability and surface water drainage. Development of the conceptual stockpile plan was focused on accommodating the required soil stockpile volume (approximately 1.05 million cubic yards). Future facilities and limits of the City of Watsonville Landfill were not included in the conceptual design criteria. Assumptions for the conceptual design were very preliminary. CH2M HILL will modify the assumptions with the outcome of the noise evaluation performed as part of Task 4 and the Project Development (Task 6). The preliminary stockpile design will consider the City of Watsonville landfill design. The design of the soil stockpile plan will consider location, limits of Phase IV and V, filling and operations of Phase IV and V. Slope stability analyses will be performed for the preliminary stockpile configuration to confirm the grades and height of the stockpile is adequately stable. Interim stages of the stockpile will also be evaluated for slope stability.

### Task 8.3 Evaluate and Modify Watsonville Landfill's Phase IV/V Drainage Design

The proposed location of the Buena Vista Sanitary Landfill soil stockpile is proposed at the location of the City of Watsonville Landfill's Phase IV and V areas. To avoid permitting conflicts and interference with the development, the soil stockpiling drainage system will be coordinated with the proposed Phase IVN drainage system. As much as possible CH2M HILL shall accommodate the City of Watsonville Landfill's proposed drainage design including the configuration and location of the drainage ditches and sedimentation basin. CH2M HILL shall confirm drainage system capacities of the soil stockpile are consistent with the City of Watsonville's Landfill drainage system. For example, if permanent facilities are proposed as part of the Phase IV and V phases, the drainage facilities will be designed to accommodate the 100, 24-hour storm event per Title 27 requirements. Otherwise, a 25-year, 24 hour storm event will be the criteria for the temporary conditions per the County of Santa Cruz, Design Criteria.

### Task 8.4 Coordinate preliminary stockpile design with Phase IV/V ancillary facilities

As part of the soil stockpile design, CH2M HILL will consider ancillary facilities proposed as part of the Phase IV and V development. These facilities will include those associated facilities required in order to construct Phase IV and V or respond to environmental issues as part of the City of Watsonville Landfill permitting requirements. These facilities include the sound berm and possibly access into the Phase IV and V area. The design and location of the sound berm will be based on the results of the noise evaluation performed in Task 4.

### Task 8.5 Design of Erosion Controls for Stockpile and Disturbed Areas

Since much of the area will be covered with barren soil and impacted by construction activities such as drainage facilities and sound berm construction, a determination of the appropriate erosion controls shall be performed. Depending on the exposure, temporary and/or long-term, appropriate erosion controls will be evaluated and recommended.

# Task 9 Bridge and Trestle Crossing Design

## Project Understanding

If the conveyor system is selected for transporting soil, at least one conveyor bridge will need to be designed. This bridge, which will likely be over 300 feet long, will span Gallighan Slough and the access road to the Buena Vista Landfill Maintenance area. Both abutments for the bridge will be founded in refuse.

In addition to the conveyor bridge, structural engineering will be required for potential improvement to an existing Union Pacific rail trestle. The scope of the improvements is not known at this time; however, for the purposes of this scope of work, we have made some level-of-effort assumptions.

This task includes preliminary structural design of the conveyor bridge and the trestle improvements. In addition, a level-of-effort scope for potential geotechnical engineering support has been included.

## Proposed Scope of Work

### Task 9.1 Conveyor Bridge

Our proposed scope of work for the conveyor bridge design includes data gathering and review, defining the bridge concept, performing preliminary calculations to size members and foundations, and performing preliminary design.

The data gathering will include the following:

- Work with conveyor designer and manufacturers to obtain sizes loads and any design constraints and considerations for trestle.
- Obtain preliminary foundation information from geotechnical engineer
- Contact pre-fabricated bridge manufacturers
- Obtain owners ideas as to what they want the bridge to look like. (Are there any aesthetic considerations.)
- Obtain site data to establish bridge height, length, and citing

Data review will include:

- Defining the site
- Defining bridge type, material, foundation
- Identifying non-structural issues that will require further study

Once data collection and review had been performed, a bridge concept that includes geometry, site, height, length, materials, foundations, and approach spans (if necessary) will be developed. Structural design criteria (i.e. dead load, live load, wind, seismic, vibration) will also be identified. A technical memorandum summarizing the design concept will be prepared. Preliminary sketches will be provided in the memorandum for County review.

Once we obtain approval of the design concept from the County, preliminary engineering and design will be performed.

### Task 9.2 Trestle Improvements

Our proposed scope of work for the trestle improvements includes data gathering and review, performing preliminary calculations for modifications, and performing preliminary design.

Data gathering is anticipated to include the following:

- Contact Railroad to obtain necessary design parameters
- Work with Civil Engineers to define needs for equipment traffic
- Work with geotechnical engineers to obtain foundation requirements (should they be necessary)
- Obtain site data to establish bridge height, length, and citing

Data review will include the following:

- Determine if trestle modifications are feasible
- Define extent of modifications
- Identify non-structural issues that will require further study

If required modifications are feasible, preliminary calculations and modification design will be performed. A technical memorandum will be prepared that includes design criteria and‘preliminary sketches. Because the scope of the potential modifications is unknown, we have made a level-of-effort assumption for this scope. The scope of this task should be reviewed once modifications are better defined.

### Task 9.3 Retaining Walls

Our proposed scope of work for the preliminary design of potential retaining walls includes data gathering and review, defining retaining wall type, and performing preliminary analyses and design.

We anticipate that the data gathering will include the following:

- Work with Civil Engineers to define needs for retaining walls
- Work with geotechnical engineers to obtain foundation requirements
- Obtain site data to establish height, length, and extent

Data review will include the following:

- Determine is trestle modifications are feasible
- Define extent of modifications
- Identify non-structural issues that will require further study

Once the data gathering and review have been completed, a technical memorandum will be prepared that describes the proposed retaining wall type. The memorandum will also include structural and geotechnical design criteria and preliminary sketches. Preliminary design of the retaining walls will be performed once we have obtained the County’s approval of the proposed retaining wall type.

### Task 9.4 Geotechnical Support

A geotechnical investigation will be performed to supplement the existing geotechnical data available. Our proposed scope of work for this task includes the following:

- Review existing information including available geotechnical reports, design drawings, utility plans, and as-built drawings for the site and nearby facilities.

- Perform the limited field investigation at the site. For this scope, we have assumed that the investigation includes no more than one day of field work. It is also assumed that no drilling through refuse will be required. Laboratory testing will be performed, as appropriate.

# Task 10 Interjurisdictional and Permitting Coordination

## Project Understanding

The proposed Soil Management Area is located in the expansion area for the Watsonville Landfill. Therefore, coordination with the City of Watsonville will be an integral part of the conceptual design of the Soil Management Area. We do not anticipate that the implementation of the Soil Management project will impact the final build-out of Watsonville Landfill; however, changes in landfill phasing may be required. In addition, coordination will be required to ensure that the design of shared facilities meets the needs of both the City of Watsonville and the County.

Potential conveyor and equipment routes must cross the Union Pacific Rail line to move between Buena Vista Landfill and the proposed Soil Management Area. Therefore, coordination with Union Pacific will be required to obtain approval of crossings through their right-of-way.

## Proposed Scope of Work

### Task 10.1 Coordination with the City of Watsonville

We anticipate that this task may include the following:

- Meeting with Watsonville and the County to discuss alternative strategies for implementation of the Soil Management Project
- Coordination with the City of Watsonville regarding phasing options for their landfill development.
- Coordination with Watsonville regarding design/implementation of elements required in the City's landfill permit, including perimeter drainage installation, biotic mitigation, and sound berm construction.
- Coordination with Watsonville regarding planning for shared use of facilities, including drainage facilities, access roads, etc., once Watsonville has begun expansion activities.
- Review of Watsonville's landfill expansion designs to determine if there are any other facilities or activities proposed in the vicinity of the stockpile location, such as additional groundwater monitoring wells, landfill gas probes, etc.

For this task, we have assumed 60 hours of labor.

### Task 10.2 Coordination with Union Pacific

For the purpose of this scope, we have assumed that this task may include the following:

- Coordination regarding a land-crossing for equipment,
- Coordination regarding a conveyor undercrossing below one of the two nearby rail trestles
- Coordination regarding trestle improvements for the conveyor undercrossing. Additional improvements may be necessary if small vehicles also use the trestle for access to the Soil Management Area.

For this task, we have assumed 32 hours of labor.

### Task 10.3 CEQA Review

A senior environmental planner with significant California Environmental Quality Act (CEQA) experience will review the design and mitigation documents (prepared under this contract amendment) to determine if there are issues related to CEQA that need to be addressed prior to preparation of the environmental document. This review will focus on identifying any "red flags" that might be raised when the general public becomes aware of the project. It will also help ensure that the County is conducting the appropriate studies to provide sufficient information in the environmental document. The review will not be a comprehensive analysis of whether the document contains sufficient information to prepare the EIR, nor will it determine whether the information provided is legally adequate under CEQA. We estimate that this review, along with a brief summary report will take no more than 24 hours.

# Task 11 Biological Assessment

## Project Understanding

The County of Santa Cruz (County) needs to create a new soil management area for its continuing operation of the Buena Vista Landfill. The site under consideration is the expansion area for Watsonville Landfill (Phases IV and V). The existing Coastal Zone Permit 96-02 16 requires an amendment of the Watsonville Landfill Expansion permit with the Commission's approval before the County can use the expansion area. Other permit approvals must likely be obtained from the Army Corps of Engineers, CDFG, Regional Water Quality Control Board for loss of biotic habitat, and an acceptable mitigation plan must be submitted.

The development of the proposed soil management area would involve the removal of a 2.1 -acre riparian finger. In addition, access to the soil management area will require clearing an approximate 0.5 acre section of the Biotic Conservation Easement, located between the Buena Vista Landfill and the proposed soil management area. Mitigation plans for the riparian finger were developed in conjunction with permitting activities and are included Watsonville Landfill Mitigation Plan.

It is our understanding that preliminary biotic surveys need to be conducted in the Finger area as well as in the Biotic Conservation Easement and adjacent riparian setback prior to commencing any activity associated with landfill operations. At the County's request CH2M HILL prepared a scope of work for conducting the required surveys. This scope of work is presented below.

## Proposed Scope of Work

### Task 11.1 Review and Update of Available Documentation

CH2M HILL will review the environmental documents that were prepared in association with the development and operation of the Buena Vista Landfill. Such documents would include: the Development/Coastal Zone Permit, the Streambed Alteration Agreement; EIR; correspondence related to special status species to and from US Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG); Santa Cruz long-toed salamander survey reports; rare plant survey reports; Watsonville Landfill Expansion Mitigation and Habitat Management Plan, etc.

CH2M HILL will conduct a RAREFIND search of the California Natural Diversity DataBase (CDFG, 1999), review recent environmental documents, and request and review lists of special-

status species from agencies such as CDFG and the USFWS. Based on the information collected, a list of special-status species potentially present in the project area will be developed.

### Task 11.2 Reconnaissance Site Visit

CH2M HILL biologists will conduct a field reconnaissance survey of the Finger area, the Biotic Conservation Easement (including the riparian setback), and the Finger mitigation area. Observations will be noted regarding habitat types and potential habitat value and reported in a technical memorandum (see Task 3). A preliminary survey of potential mitigation sites located within the Watsonville landfill development area will also be conducted.

A preliminary habitat assessment for biological field surveys will be conducted in conjunction with the field visit. We are assuming that no U.S. Army Corps of Engineers (Corps) jurisdictional waters or wetlands are present on the site. However, we will conduct a waters and wetlands determination to assess the need for a formal wetland delineation of the study area. No delineation of Corps jurisdictional areas is included in this scope of work. The reconnaissance level surveys will identify dominant vegetation types, qualitatively characterize wildlife habitat, determine the potential presence of typical wildlife species, and assess potential presence of special-status species habitat.

### Task 11.3 Biological Studies Technical Memorandum

A Biological Studies Technical Memorandum will be prepared to discuss biological survey methods, results, and potential project impacts. CDFG jurisdictional area, including riparian vegetation present and potential impacts to these areas will be included. This technical memorandum will include a list of typical wildlife species expected to occur in the project area and a list of plant species observed during reconnaissance field surveys. Vegetation types will be classified by Sawyer and Keeler-Wolf (1995) vegetation series. The potential presence of special-status plant and wildlife species will be discussed. Vegetation types and CDFG jurisdictional area will be mapped on a base map and/or aerial photograph.

The existing Coastal Zone Permit 96-0216 required that site-specific biotic survey for the federal and state endangered Santa Cruz long-toed salamander *(Ambystoma macrodactylum croceum)* be conducted during the months of March to April. The salamander was surveyed in 90-91 and 91-92 and the survey concluded that the Santa Cruz long-toed salamander was not utilizing the site. If new surveys are required for the Santa Cruz long-toed salamander or if any other special-status species survey efforts are required based on agency requests or as detailed in any special-status species assessment protocols, CH2M HILL will prepare a separate scope of work for approval by the County.

# Task 12 Biological Mitigation Plans

## Project Understanding

This scope of work was prepared to assist the County with project siting; to review existing preliminary mitigation plans and to prepare conceptual mitigation plans for areas impacted by the project. Planning-level mitigation cost estimates will be prepared after mitigation plans have been reviewed and/or are completed. It is understood that mitigation (2: 1 mitigation ratio) will be required by resource agencies for filling and clearing of vegetation within the proposed development area.

At the County's request CH2M HILL prepared a scope of work for preparing a conceptual mitigation plan and conceptual cost estimate for biological mitigation for the proposed Soil Management Project at the Watsonville Landfill expansion area. This scope of work is presented below.

## Proposed Scope of Work

### Task 12.1 Conceptual Mitigation Plan

CH2M HILL will complete the 4.2-acre Watsonville biotic mitigation and habitat management plan at a conceptual level for cost estimating purposes. It is our understanding that that a preliminary mitigation and habitat management plan has been prepared by the Habitat Restoration Group in 1990, but more detailed information is required to get meaningful cost estimates.

In addition, CH2M HILL will develop a conceptual mitigation plan for creating a 0.5-acre transportation corridor through the Biotic Conservation Easement (and associated riparian area) for cost estimating purposes. The conceptual mitigation plan will be prepared with the assumption that a 2: lmitigation ratio is required (to be verified prior to plan preparation). Based on this information, the potential mitigation site for the development of the Biotic Conservation Easement and Riparian Setback (if required) would require a maximum of 1 .O acres.

CH2M HILL will review potential mitigation sites with County representatives and develop a conceptual mitigation site based on the assumptions cited above. The mitigation site plans will be depicted on an existing topographical base supplied by the County.

The Mitigation Plan will include the following sections:

- Existing Conditions (Soils, Vegetation, Wildlife Habitats, Special Status Species)
- Site Preparation (Conceptual grading plans, etc.)
- Planting Plan (Sources of Plants/Propagules, Propagules/Type of Planting Stock, Plant Installation, Fertilizing, Plant Protection, Irrigation Plan, Water Sources and Water Quality)
- Site Maintenance
- Monitoring

### Task 12.2 Cost estimate

Planning level cost estimates will be prepared based on the Conceptual Mitigation plans prepared for the Watsonville expansion area and the transportation corridor through the Biotic Conservation Easement developed under Task 12.1.

Services will be provided to complete the scope of work on a time and materials basis. A summary of total costs, including labor and expenses, is provided in Table Al.

**Table A1**
**Summary Cost Table**

| Task | Cost |
|---|---|
| Task 1.3 – Conceptual Landfill Development Alternatives | $9,840 |
| Task 4 – Soil Site Noise Impact Evaluation | $9,929 |
| Task 5 – Soil Transport Routing Options | $8,933 |
| Task 6 – Soil Management Area/Landfill Expansion Phasing and Development | $38,415 |
| Task 7 – Conveyor Design | $32,495 |
| Task 8 – Design of Soil Management Area | $28,841 |
| Task 9 – Bridge and Trestle Crossing Engineering | $64,250 |
| Task 10 – Interjurisdictional and Permitting Coordination | $16,613 |
| Task 11 – Biological Assessment | $12,215 |
| Task 12 – Biological Mitigation Plans | $17,151 |
| TOTAL | $238,672 |

# ACORD. CERTIFICATE OF INSURANCE

901622 454

DATE (MM/DD/YY) 04/22/99

PRODUCER

J&H MARSH & McLENNAN
1225 17TH STREET SUITE 2100
DENVER CO 80202

ATTN PAULA DELEON
15114-01234 SFO2M SFO

PUBLIC WORKS DEPT. APR 26 1999 SANTA CRUZ, CA

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**COMPANIES AFFORDING COVERAGE**

COMPANY A: ZURICH AMERICAN INSURANCE COMPANY

COMPANY B: NATIONAL UNION FIRE INSURANCE COMPANY

COMPANY C:

COMPANY D:

ISURED
CH2M HILL. INC.
1111 BROADWAY
SUITE 1200
OAKLAND, CA 94607-4046

RPM add file

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO TR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | | |
|---|---|---|---|---|---|---|---|
| | **GENERAL LIABILITY** | | | | GENERAL AGGREGATE | $ | 2,000,000 |
| A | [X] COMMERCIAL GENERAL LIABILITY | GLO8378563-04 | 05/0 1199 | 05/01/00 | PRODUCTS - COMP/OP AGG | $ | 2,000,000 |
| | [ ] CLAIMS MADE [X] OCCUR | | | | PERSONAL & ADV INJURY | $ | 750,000 |
| | [ ] OWNER'S & CONTRACTOR'S PROT | | | | EACH OCCURRENCE | s | 750,000 |
| | [X] $250,000 SIR | | | | FIRE DAMAGE (Any one fire) | $ | 750,000 |
| | | | | | MED EXP (Any one person) | $ | |
| A | **AUTOMOBILE LIABILITY** | | | | COMBINED SINGLE LIMIT | $ | 1,000,000 |
| | [X] ANY AUTO | BAP8378516-04 (AOS) | 05/01199 | 05/01/00 | | | |
| | [ ] ALL OWNED AUTOS | TAP8378560-04 (TX) | 05101199 | 05/01/00 | BODILY INJURY (Per person) | s | |
| | [ ] SCHEDULED AUTOS | BAP8378561-04 (VA) | 05101199 | 05/01/00 | | | |
| | [ ] HIRED AUTOS | MAP8378562-04 (MA) | 05101 /99 | 05/01/00 | BODILY INJURY (Per accident) | $ | |
| | [ ] NON-OWNED AUTOS | | | | PROPERTY DAMAGE | $ | |
| | **GARAGE LIABILITY** | | | | AUTO ONLY - EA ACCIDENT | $ | |
| | [ ] ANY AUTO | | | | OTHER THAN AUTO ONLY: | | |
| | | | | | EACH ACCIDENT | $ | |
| | | | | | AGGREGATE | $ | |
| B | **EXCESS LIABILITY** | | | | EACHOCCURRENCE | s | 2,000,000 |
| | [X] UMBRELLA FORM | BE701 1399 | 05/01/99 | 05/01/00 | AGGREGATE | s | 2,000,000 |
| | [ ] OTHER THAN UMBRELLA FORM | | | | | $ | |
| | **WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** | | | | [X] STATUTORY LIMITS | | |
| A | | WC8378566-05 | 05/01/99 | 05/01/00 | EACH ACCIDENT | s | 1,000,000 |
| A | THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [X] INCL [ ] EXCL | WC8378565-04 | 05/01/99 | 05/01/00 | DISEASE. POUCY LIMIT | $ | 1,000,000 |
| | | | | | DISEASE - EACH EMPLOYEE | $ | 1,000,000 |
| | **OTHER** | | | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/ HICLES/SPECIAL ITEMS (LIMITS MAY BE S BJECT TO RETENTIONS)

PROJECT NO. 136056 CLIENT SERVICE MANAGER: ANA DEMOREST/SFO.
DESCRIPTION: PROFESSIONAL AND TECHNICAL SERVICES PERFORMED FOR BEUENA VISTA AND BEN LOMOND LANDFILLS.
COUNTY OF SANTA CRUZ, ITS OFFICIALS, AGENTS, EMPLOYEES AND VOLUNTEERS AND NAMED AS ADDITIONAL INSURED AS THEIR INTEREST NAY APPEAR AS PER BLANKET ENDORSEMENT TO THE GENERAL LIABILITY POLICY. (SEE ATTACHED)

**CERTIFICATE HOLDER**

COUNTY OF SANTA CRUZ
ATTN PATRICK MATHEWS
701 OCEAN STREET ROOM 410
SANTA CRUZ CA 95060-4070

48

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Raymond A. Leonard

# ADDITIONAL INFORMATION

ISSUE DATE (MM/DD/YY)
04/22/99

PRODUCER
J&H MARSH & McLENNAN
1225 17TH STREET SUITE 2100
DENVER CO 80202

ATTN PAULA DELEON

15114-01234 SFO2M SFO

CERTIFICATE HOLOER
COUNTY OF SANTA CRUZ
ATTN PATRICK MATHEWS
701 OCEAN STREET ROOM 410
SANTA CRUZ CA 95060-4070

455

INSURED
CH2M HILL, INC.
1111 BROADWAY
SUITE 1200
OAKLAND, CA 946074046

TEXT

THE COUNTY OF SANTA CRUZ, ITS OFFICIALS, EMPLOYEES, AGENTS AND VOLUNTEERS ARE ADDED AS ADDITIONAL INSUREDS, AS THEIR INTEREST MAY APPEAR, AS RESPECTS THE OPERATIONS AND ACTIVITIES OF, OR ON BEHALF OF, THE NAMED INSURED PERFORMEND UNDER AGREEMENT WITH THE COUNTY OF SANTA CRUZ. COVERAGE PROVIDED BY THE ABOVE POLICIES SHALL BE PRIMARY.

48

450

# ACORD. CERTIFICATE OF INSURANCE

901623

DATE (MM/DD/YY) 04/22/99

PRODUCER
VAN GILDER INSURANCE CORPORATION
700 BROADWAY, SUITE 1000
DENVER, COLORADO 80203

RPM acct File

15114-00005 SFO SFO

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY A: SECURITY INSURANCE CO OF HARTFORD

COMPANY B:

COMPANY C:

COMPANY D:

PUBLIC WORKS DEPT. APR 26 1999 SANTA CRUZ, CA

INSURED
CH2M HILL, INC.
1111 BROADWAY
SUITE 1200
OAKLAND, CA 94607-4046

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO TR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | |
|---|---|---|---|---|---|---|
| | GENERAL LIABILITY | | | | GENERAL AGGREGATE | $ |
| | COMMERCIAL GENERAL LIABILITY | | | | PRODUCTS - COMP/OP AGG | $ |
| | CLAIMS MADE OCCUR | | | | PERSONAL & ADV INJURY | $ |
| | OWNER'S & CONTRACTOR'S PROT | | | | EACH OCCURRENCE | $ |
| | | | | | FIRE DAMAGE (Any one fire) | $ |
| | | | | | MED EXP (Any one person) | $ |
| | AUTOMOBILE LIABILITY | | | | COMBINED SINGLE LIMIT | $ |
| | ANY AUTO | | | | | |
| | ALL OWNED AUTOS | | | | BODILY INJURY (Per person) | $ |
| | SCHEDULED AUTOS | | | | | |
| | HIRED AUTOS | | | | BODILY INJURY (Per accident) | $ |
| | NON-OWNED AUTOS | | | | | |
| | | | | | PROPERTY DAMAGE | $ |
| | GARAGE LIABILITY | | | | AUTO ONLY - EA ACCIDENT | $ |
| | ANY AUTO | | | | OTHER THAN AUTO ONLY: | |
| | | | | | EACH ACCIDENT | $ |
| | | | | | AGGREGATE | $ |
| | EXCESS LIABILITY | | | | EACH OCCURRENCE | $ |
| | UMBRELLA FORM | | | | AGGREGATE | $ |
| | OTHER THAN UMBRELLA FORM | | | | | $ |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | STATUTORY LIMITS | |
| | THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: INCL / EXCL | | | | EACH ACCIDENT | $ |
| | | | | | DISEASE - POLICY LIMIT | $ |
| | | | | | DISEASE - EACH EMPLOYEE | $ |
| A | OTHER PROFESSIONAL LIABILITY* | SPL701338 | 05/01/99 | 05/01/00 | $1,000,000 EACH CLAIM AND IN THE AGGREGATE | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS (LIMITS MAY BE SUBJECT TO RETENTIONS)

PROJECT NO. 102544. CLIENT SERVICE MANAGER: ANA DEMOREST/SFO.
DESCRIPTION: PROFESSIONAL AND TECHNICAL SERVICES PERFORMED FOR BEUENA VISTA AND BEN LOMA LANDFILLS.
*FOR PROFESSIONAL LIABILITY COVERAGE, THE AGGREGATE LIMIT IS THE TOTAL INSURANCE AVAILABLE FOR CLAIMS PRESENTED WITHIN THE POLICY PERIOD FOR ALL OPERATIONS OF THE INSURED. THE LIMIT WILL BE REDUCED BY PAYMENTS OF INDEMNITY AND EXPENSE.

CERTIFICATE HOLDER

COUNTY OF SANTA CRUZ
ATTN PATRICK MATHEWS
701 OCEAN STREET
SANTA CRUZ CA 95060-4070

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ~~ENDEAVOR TO MAIL~~ 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, ~~BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY~~ OF ~~ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.~~

AUTHORIZED REPRESENTATIVE

48

# COUNTY OF SANTA CRUZ

## REQUEST FOR APPROVAL OF AGREEMENT

99-00
457

TO: **Board of Supervisors**
**County Administrative Officer**
**County Counsel**
**Auditor-Controller**

FROM: PUBLIC WORKS (Dept.)
(Signature) 6-10-99 (Date)

**The Board of Supervisors is hereby requested to approve the attached agreement and authorize the execution of the same.**

1. **Said agreement is between the** COUNTY OF SANTA CRUZ **(Agency)**

and, CH2M HILL, P. 0. BOX 12681, OAKLAND, CA 94604-2681 **(Name & Address)**

2. **The agreement will provide** FOR CONSULTING ENGINEERING SERVICES FOR THE BUENA VISTA LANDFILL SOIL MANAGEMENT PROJECT

3. **The agreement is needed** BECAUSE THE WORK CAN BE PERFORMED MOST EXPEDITIOUSLY BY CONTRACT.

4. **Period of the agreement is from** BOARD APPROVAL **to** June 30, 2000

5. Anticipated ~~cost~~ increase is $238,672.00 **(Fixed amount; Monthly rate; Not to exceed)**

6. Remarks: CONTRACT $411,687.00; OVERHEAD 7% $28,818.09; TOTAL $440,505.09

6/22/99 Agenda

7. **Appropriations are budgeted in** 625110 !51054 6610! $228,832.00 6610
625110 !51032 6610! $103,405.00 6610
625110 !513223590! $ 79,450.00 (Index#) 3590 (Subobject)

**NOTE: IF APPROPRIATIONS ARE INSUFFICIENT, ATTACH COMPLETED FORM AUD-74**

Appropriations ~~are~~ / are not available and ~~have been~~ will be encumbered.* Contract No. 991757 Date 6/10/99

* SUBJECT TO THE APPROVAL OF THE 1999-2000 BUDGET

GARY A. KNUTSON, Auditor - Controller
By Ronald J. Silva Deputy.

**Proposal reviewed and approved. It is recommended that the Board of Supervisors approve the agreement and authorize the** Director of Public Works **to execute the same on behalf of the** Department of Public Works **(Agency).**

**Remarks:**

**(Analyst)**

County Administrative Officer
By _____ Date 6/14/99

**Agreement approved as to form. Date** _____

RPM:bbs

**Distribution:**
Bd. of Supv. • White
**Auditor-Controller • Blue**
**County Counsel • Green •**
Co. Admin. Officer • Canary
Auditor-Controller • Pink
**Originating Dept. • Goldenrod**

**To Orig. Dept. if rejected.**

ADM 29 (6/95) A

**State** of California )
County of Santa Cruz ) ss

I _____ ex-officio Clerk of the Board of Supervrsors of the County of Santa Cruz, State of California, do hereby certify that the foregoing request for approval of agreement was approved by said Board of Supervisors as recommended by the County Administrative Officer by an order duly entered in the minutes of said Board on _____ 19 ____

County Administrative Officer
By _____ Deputy Clerk

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