

AGENDA

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY CITY OF CRESCENT CITY COUNTY OF DEL NORTE STATE OF CALIFORNIA

**Board of Supervisors Chambers
Flynn Center 981 H Street
Crescent City, CA**

Regular Session Tuesday, June 25, 2013 3:30 PM

+++++
The Solid Waste Management Authority of the City of Crescent City and the County of Del Norte, State of California, is now meeting in Regular Session. Only those items that indicate a specific time will be heard at the assigned time. All items may be taken out of sequence to accommodate public and staff availability.

+++++
All documents referred to in this agenda are available at the Office of the Del Norte Solid Waste Management Authority at 1700 State Street in Crescent City, between the hours of 8AM and 5PM Monday through Friday OR online at www.recycledelnorte.ca.gov

For more information call 465-1100 or email dnswwma@recycledelnorte.ca.gov

3:30 PM CALL MEETING TO ORDER

PLEASE NOTE: The Board will hold closed Sessions (if scheduled and necessary) at the end of the open portion of the meeting.

PUBLIC COMMENTS:

3:30 PM ANY MEMBER OF THE PUBLIC MAY ADDRESS THE SOLID WASTE MANAGEMENT AUTHORITY ON ANY MATTER ON OR OFF THE AGENDA. After receiving recognition from the Chair, please give your name and address for the record. Comments will be limited to three minutes.

1. REPORT FROM THE SOLID WASTE TASK FORCE

2. CONSENT AGENDA

- 2.1 Approve minutes, Regular Session, Tuesday May 28, 2013 **
- 2.2 Approval of addendum to agreement with Smith and Newell for preparation of the Annual Audit for Fiscal Year 2013/2014. **

END CONSENT AGENDA

3. DIRECTORS REPORT

The following agenda items are provided for information only

- 3.1 Treasurer/Controller Report for April 2013 **
- 3.2 Claims approved by Director for May 2013 **
- 3.3 Monthly Cash and Charge Reports for May 2013 **
- 3.4 Earned Revenue Comparisons between FY11/12 and FY12/13 **
- 3.5 Annual audit for Fiscal Year 2011/2012 prepared by Smith and Newell. **

END DIRECTORS REPORT

DISCUSSION/ACTION ITEMS

4. LANDFILL POSTCLOSURE

- 4.1 Discussion and possible action regarding the status of landfill repairs and results of the (6/24/13) inspection by Gino Yetka of CalRecycle. **
- 4.2 Discussion and possible action regarding status of work by EBA Engineering, including a waste in place analysis, assessment of landfill gas generation and application for a five year update of our Solid Waste Facility Permit for the closed Landfill. **
- 4.3 Discussion and possible action regarding the Groundwater Investigation Work Plan for the Crescent City Landfill, to justify a reduction in the Threat/Complexity rating for this facility from a 1A to 2A. **
- 4.4 Discussion and possible action regarding approval of well drilling contract with Fisch Drilling in the amount of \$9837 for ground water investigation work at the Landfill. **

- 4.5 Discussion and possible action regarding research of the possibility to acquire landfill liability insurance. **

5. COLLECTIONS FRANCHISE

- 5.1 Discussion and possible action regarding a request from Recology Del Norte to change current green waste collection service days (Monday – Friday) to one day per week on Wednesdays. **

6. TRANSFER STATION

- 6.1 Discussion and possible action regarding the first reading and introduction of Ordinance No.2013-01 establishing rates to provide public scale services at the Del Norte County Transfer Station and schedule a public hearing at 3:45PM on July 23rd for final adoption. **
- 6.2 Discussion and possible action regarding approval of Change Order 1 to the Agreement with Clean Harbors Environmental Services for Household Hazardous Waste and Conditionally Exempt Small Quantity Generator Collection events, implementing CPI based rate adjustments, Term Extension, Paint Management. **
- 6.3 Discussion and possible action regarding Change Order 17 for the Contract with Hambro/WSG authorizing an agreement with Paint Care to provide free recycling of architectural coatings at the Del Norte County Transfer Station. **
- 6.4 Discussion and possible action regarding a request from Wes White, CEO Hambro/WSG for a modification of the contract requirements for a performance bond. **

7. GENERAL SOLID WASTE AUTHORITY MATTERS

PUBLIC HEARING 3:45PM

- 7.1 Discussion and possible action regarding a public hearing on the proposed FY2013/2014 Budget and final adoption of the budget. **
- 7.2 Discussion and possible action regarding an Executive Summary prepared by Martha Rice regarding the Lease Agreements with the California Infrastructure and Economic Development Bank (I-Bank) and report from a sub-committee discussing available options to execute the responsibilities currently administered by the Del Norte Solid Waste Management Authority. **

- 7.3 Discussion and possible action regarding approval of a Budget Revision to transfer \$2400.00 from Contingency (Budget # 81000) to Professional Services (Budget #20231). **
- 7.4 Discussion and possible action regarding approval of contract with Karen Phillips to provide services as Recording Secretary for the Board. **
- 7.5 Discussion and possible action regarding approval to make an annual contribution to the California Employee's Benefit Trust in the amount of \$11,125 to fund Other Post Employment Benefits (OPEB). **
- 7.6 CLOSED SESSION
PUBLIC EMPLOYEE DISCIPLINE/RELEASE/DISMISSAL
(Government Code Section 54957).

**** Asterisk next to Agenda Item indicates an associated attachment**

DEL NORTE SOLID WASTE TASK FORCE

Agenda

Thursday, June 13, 2013, 5:30 - 7:30 PM
Ocean View Inn
270 Hwy 101 South
Crescent City, CA

The Del Norte Solid Waste Task Force is now meeting in Regular Session. Only those items that indicate a specific time will be heard at the assigned time. All other items may be taken out of sequence to accommodate public and staff availability.

ITEMS FOR DISCUSSION:

1. Call to order
2. Discussion and possible action regarding approval of minutes of May 9, 2013 Del Norte Task Force Meeting**
3. Public comment
4. Discussion and continued overview of the status of compliance with the Countywide Integrated Waste Management Plan, and planned update of the Household Hazardous Waste Element.
5. Discussion and review of the status of the review of DNSWMA Ordinances 2008-01, 2008-02, 2008-03 by the City of Crescent City and Del Norte County code enforcement officers.
6. Discussion and possible action regarding the meeting attended by Andy Larson on 12 June 2013 regarding options available to execute the responsibilities currently administered by the Authority.
7. Members items of interest or of concern to the 2013 Del Norte Solid Waste Task Force. Any new items requiring action will be scheduled on the next agenda.
8. Adjournment. The next meeting of the Del Norte Solid Waste Task Force is scheduled for July 11, 2013.

** indicates attachments

DEL NORTE SOLID WASTE TASK FORCE
Minutes
Thursday, May 9, 2013, 5:30 – 7:30 PM

Ocean View Inn
270 Hwy 101 South
Crescent City, CA

Present: Wes Nunn, Chair
Richard Miles
Brad Cass
Ray Martell
Karen Sanders
Joel Wallen
Ralph Dickey
Mary Wilson
Pat Black

Absent: Andrew Larson x
Dave Mason x

Also Present: Kevin Hendrick, Authority Director
Tedd Ward, Authority Program Manager

ITEMS FOR DISCUSSION:

1. Chair Wes Nunn called the meeting to order at 5:34 P.M.
2. On a motion by Brad Cass, seconded by Wes Nunn, the minutes of April 11, 2013 Del Norte Task Force Meeting were approved by an unanimously vote with Ralph Dickie abstaining.
3. Public comment. Director Hendrick thanked the three Local Task Force members who applied to be the Public member of the Authority, with congratulations to Mary Wilson in her selection and ratification by the Crescent City Council to serve as the public member of the Authority Board.
4. Director Hendrick summarized the May 2, 2013 letter from CalRecycle regarding review and affirmation of the Del Norte Solid Waste Management Authority's compliance with the requirements of the California Integrated Waste Management Act as amended (AB9393) for the period 2007 – 2011, reporting that the Authority's 2011 annual report was accepted.

Andy Larson arrives at 5:46 P.M.

Program Manager Ward and Director Hendrick discussed education and public information programs and activities regarding waste prevention, reuse, recycling, composting, solid waste, special waste and household hazardous waste in Del Norte County. Program Manager Ward invited everyone to the free composting workshop on May 11 at 1 PM. Discussion followed. Mary Wilson suggested that some Task Force members might be interested in helping with outreach during the Fair or at other community events, and that displays be more interactive. Joel Wallen suggested using televisions as a visual display promoting free TV recycling, with a flat panel giveaway. Richard Miles suggested that the Authority increase outreach to the Hmong community.

Ralph Dickie leaves meeting at 6:25 PM

6. Chair Nunn reviewed the status of the review of DNSWMA Ordinances 2008-01, 2008-02, 2008-03 by the City of Crescent City and Del Norte County code enforcement officers. Mary Wilson said she called the City Mayor, who said that there had been one meeting between the Code Enforcement Officers, that the City hired a new building inspector, and that this item may be discussed at the join City-County meeting on May 21. Director Hendrick said he understood that City manager Gene Palazzo directed City Code Enforcement Officer Erik Taylor to meet with County Code Enforcement Officer Dave Mason, but he was not aware of any meetings since then. Director Hendrick suggested that he could provide information to the Task Force members about the current City, County and Authority ordinances that are relevant to this discussion so opportunities for making these consistent can be identified. Ray Martell suggested that the Chair invite the Code Enforcement Officers to the next Task Force meeting.
7. Regarding items of interest or of concern to the 2013 Del Norte Solid Waste Task Force, Richard Miles suggested that they review priorities at the next meeting. Mary Wilson suggested that the Task Force discuss the update of the Household Hazardous Waste Element.
8. Chair Nunn adjourned meeting at 7:24 P.M.

Respectfully submitted,

Tedd Ward
serving as Solid Waste Task Force Recording Secretary

Program Manager
Del Norte Solid Waste Management Authority

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Minutes of 28 May 2013
Del Norte County Board of Supervisors Chambers

PRESENT: Commissioner Rich Enea, Chair
Commissioner Rick Holley
Commissioner Mike Sullivan
Commissioner Roger Gitlin
Commissioner Mary Wilson

Legal Counsel Martha Rice
Director Kevin Hendrick
Program Manager and Clerk Tedd Ward
Treasurer/Controller Richard Taylor

ABSENT: None

ALSO PRESENT: Tom Sparrow, Recology Del Norte
Wes White, Hambro/WSG
Eugene Palazzo, Crescent City Manager
Brian McNalley, Del Norte County Environmental Health
Wes Nunn, Del Norte Solid Waste Task Force
Andrea Wadsworth, Del Norte Solid Waste Management
Authority Employees Union, SEIU Local 1021
Kathryn Murray, Crescent City Councilperson

The meeting was called to order by Chair Enea at the hour of 3:32 P.M., with all parties present as heretofore designated.

PUBLIC COMMENTS:

The Chair called for public comments at 3:33 P.M. The following people addressed the Board:

Elizabeth Henry, County resident, addressed the Board regarding the need for correct information issued to the public, and incorrect information reported on KIEM TV regarding comparing Authority rates to other facilities in the region. She also commented on landfill insurance.

Richard Miles, City resident, addressed the Board regarding the recent joint City-County meeting, self-haulers, and franchise fees.

Eileen Evermore, Gasquet resident, addressed the Board regarding her satisfaction with the current rates and services.

Donna Thompson, County resident, addressed the Board regarding support for and satisfaction with the current services and joint powers authority.

The Chair closed public comment at 3:42 P.M.

REPORT FROM THE SOLID WASTE TASK FORCE 200101

Wes Nunn addressed the Board on this item. He reported that the Solid Waste Task Force would like to see revisions to the City and County Code to incorporate relevant sections from the Authority Ordinances for uniformity of enforcement.

CONSENT AGENDA

Minutes, Regular Session, Tuesday April 23, 2013

Approve payment of invoice from EBA Engineering in the amount of \$5727.50 for Landfill Environmental Services.

Approve payment of invoice from Smith and Newell in the amount of \$8850 for annual audit for Fiscal Year 2012/2013.

On a motion by Commissioner Gitlin, seconded by Commissioner Holley, by a polled vote the consent agenda was approved unanimously.

END OF CONSENT AGENDA

DIRECTOR'S REPORT

Director Hendrick discussed the following topics within the Director's report:

- Treasurer/Controller Report for April 2013
- Claims approved by Director for April 2013
- Monthly Cash and Charge Reports for April 2013
- Earned Revenue Comparisons between FY11/12 and FY12/13
- Letter to the Department of Resources Recycling and Recovery (CalRecycle) requesting a Reduction in Post-Closure Financial Assurance Multiplier for the Crescent City Landfill

END DIRECTORS REPORT

DISCUSSION / ACTION ITEMS:

WATER MONITORING & ANALYSIS 011801

Program Manager Ward addresses the Board regarding Change Order 1 for the contract with North Coast Laboratories for laboratory analysis of water samples from the Crescent City Landfill.

On a motion by Commissioner Sullivan, seconded by Commissioner Gitlin, and approved by a unanimously polled vote, the Board approved Change Order 1.

SOLID WASTE AUTHORITY BUDGET 022102

Director Hendrick addressed the Board regarding the proposed FY2013/2014 Budget and schedule a public hearing on June 25 for final adoption. Discussion followed. Commissioner Wilson asked for a column of 'actual expenses to date' to be included in final budget prior to adoption.

By consensus, the Board directed staff to set a public hearing for this budget for June 25, 2013.

SOLID WASTE JOINT POWERS AUTHORITY 101503

Director Hendrick addressed the Board regarding continued discussion and evaluation of alternatives to the Del Norte Solid Waste Management Authority, including possible withdrawal or privatization. Director Hendrick identified several questions that should be posed to the I-Bank, who holds the bond-financed lease agreement, about what options may be available to the County and City should either or both withdraw from the Authority. Counsel Rice offered to provide an executive summary of the four I-Bank lease documents, though she said some questions related to these agreements that only I-Bank will be able to answer. Commissioner Holley asked what problem is to be fixed by this process, and suggested that a management audit might be a prudent first step. Commissioner Gitlin expressed concerns about costs to the public. Commissioner Sullivan expressed his concerns about the structure of the JPA, versus the service which he thinks is satisfactory. Discussion followed.

Andrea Wadsworth, Richard Miles, Elizabeth Henry, Bill Longsdale (who submitted a written letter), City Councilmember Kathryn Murray, Andy Larson,

Karen Rath, Eileen Evermore, and Tom Sparrow of Recology Del Norte addressed the Board on this issue.

Commissioner Sullivan moved that a City Commissioner, a County Commissioner, the Authority Director and Program Manager meet with representatives from Recology Del Norte, Hambro/WSG, the City Manager and the County CAO, plus Authority legal counsel and a representative from the Del Norte Solid Waste Task Force meet to discuss what options are available to execute the responsibilities currently administered by the Authority. Commissioner Gitlin seconded the motion. Discussion followed.

Elizabeth Henry addressed the Board on this motion, asking what problem was to be addressed. Richard Miles addressed the Board on the motion.

The motion passed by a unanimous polled vote.

Commissioners Gitlin and Sullivan leave the meeting at 4:50 P.M.

As all other action items require at least one County vote for passage, and many of the informational items pertain to the County-owned landfill, the Chair tabled all remaining agenda items to the next regular Authority meeting.

The Del Norte Solid Waste Management Authority adjourned at the hour of 4:51 P.M., to reconvene in Regular Session, on June 25, 2013, at the hour of 3:30 P.M., at the Board of Supervisors Chambers, Flynn Center, 981 "H" Street, Crescent City, California.

_____ Date / /
Richard Enea, Chair
Del Norte Solid Waste Management Authority

ATTEST:

_____ Date / /
Tedd Ward, Clerk and Program Manager
Del Norte Solid Waste Management Authority

May 17, 2013

Del Norte Solid Waste Management Authority
391 Front Street
Crescent City, CA 95531

Enclosed is our Addendum to Agreement for Auditing Services for the Del Norte Solid Waste Management Authority for the year ended June 30, 2014.

If this addendum meets with your understanding of the engagement, please sign both copies and return one to me.

If you want to discuss this proposal or have any questions, please give me a call.

Sincerely,


Marilee Smith, CPA
Partner

2.2

ADDENDUM TO AGREEMENT FOR AUDITING SERVICES

THIS CONTRACT ADDENDUM for additional professional services is entered into by and between the DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY ("Authority"), and, SMITH & NEWELL CPAS, ("Consultant") this ____ day of _____, 2013 and affects Scope of Services Required of the original contract dated June 9, 2011 (Copy attached).

This contract is hereby amended as follows:

WHEREAS, Authority desires to enter into an agreement to audit the fiscal records of the Del Norte Solid Waste Management Authority for the fiscal year ending June 30, 2014 in accordance with the duties imposed upon it as set forth in the original contract.

COMPENSATION: Authority shall pay to Auditor for services described herein a sum not to exceed Eight Thousand Eight Hundred and Fifty Dollars (\$8,850) for the year ended June 30, 2014.

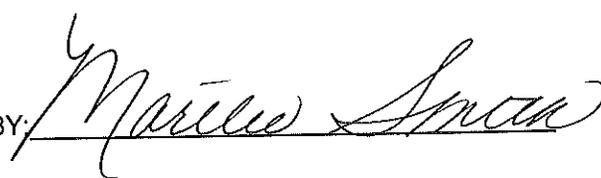
All other sections of this Contract remain unchanged and in full force and effect.

IN WITNESS THEREOF, the parties hereto have signed this Agreement as of the day and year herein first above written.

DEL NORTE SOLID WASTE:

SMITH & NEWELL CPA'S:

BY: _____

BY:  _____

June 9, 2011

Del Norte Solid Waste Management District
391 Front Street
Crescent City, CA 95531

AUDIT OF FINANCIAL STATEMENTS FOR THE YEARS ENDING JUNE 30, 2011, 2012 AND 2013

We are pleased to submit our proposal to audit the financial statements of Del Norte Solid Waste Management District for the years ending June 30, 2011, 2012 and 2013.

Audit Approach

Our audit will be made in accordance with generally accepted auditing standards as defined in the Statement on Auditing Standards of the American Institute of Certified Public Accountants and Governmental Auditing Standards issued by the Comptroller General of the United States.

Audit Objectives

The objective of our audit is the expression of an opinion as to whether your financial statements are fairly presented, in all material respects, in conformity with U.S. generally accepted accounting principles and to report on the fairness of the additional information referred to in the first paragraph when considered in relation to the financial statements taken as a whole. The objective also includes reporting on:

- Internal control related to the financial statements and compliance with laws, regulations, and the provisions of contracts or grant agreements, noncompliance with which could have a material effect on the financial statements in accordance with Government Auditing Standards.

The report on internal control and compliance will include a statements that the report is intended for the information and use of the audit committee, management, specific legislative or regulatory bodies, and if applicable, pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.

Our audit will be conducted in accordance with U.S. generally accepted auditing standards; the standards for financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States; and other procedures we consider necessary to enable us to express such an opinion and to render the required reports. If our opinion on the financial statements is other than unqualified, we will fully discuss the reasons with you in advance. If for any reason, we are unable to complete the audit or are unable to form or have not formed an opinion, we may decline to express an opinion or to issue a report as a result of this engagement.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of the physical existence of inventories, and direct confirmation of receivables and certain other assets and liabilities by correspondence with selected individuals, creditors, and financial institutions. We will request written representation from your attorneys as part of the engagement, and they may bill you for responding to this inquiry. At the conclusion of our audit, we will also require certain written representation from you about the financial statements and related matters.

Audit Procedures - Internal Controls

In planning and performing our audit, we will consider the internal control sufficient to plan the audit in order to determine the nature, timing, and extent of our auditing procedures for the purpose of expressing our opinions on the District's financial statements.

We will obtain an understanding of the design of the relevant controls and whether they have been placed in operation, and we will assess control risk. Tests of controls may be performed to test the effectiveness of certain controls that we consider relevant to preventing and detecting errors and fraud that are material to the financial statements and to preventing and detecting misstatements resulting from illegal acts and other noncompliance matters that have a direct and material effect on the financial statements. Our tests, if performed, will be less in scope than would be necessary to render an opinion on internal control and, no opinion will be expressed in our report on internal control issued pursuant to Government Auditing Standards.

An audit is not designed to provide assurance on internal control or to identify reportable conditions. However, we will inform the governing body or audit committee of any matters involving internal control and its operation that we consider to be a reportable condition under standards established by the American Institute of Certified Public Accountants. Reportable conditions involve matters coming to our attention relating to significant deficiencies in the design or operation of the internal control that, on our judgment, could adversely affect the entity's ability to record, process, summarize, and report financial data consistent with the assertions of management in the financial statements.

Audit Procedures - Compliance

Our audit will be conducted in accordance with the standards referred to in the section titled Audit Objectives. As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the District's compliance with applicable laws and regulations and the provisions of contracts and agreements, including grant agreements. However, the objective of those procedures will not provide an opinion on overall compliance and we will not express such an opinion in our report on compliance issued pursuant to Government Auditing Standards.

Audit Coordination

The audit of the financial operations of the District will be a task requiring a close-working, cooperative relationship between the District and our firm. Prompt identification and resolution of accounting and auditing problems related to your financial activities is required to ensure timely issuance of our report.

In order to expedite the audit process, we propose to provide the District with a detailed list of items needed for the audit. We will send you a detailed list of all financial and compliance items required for the audit. We will ask that you return the items on the list to the Auditor Controller's office prior to our scheduled fieldwork.

notice of its intent to terminate this Agreement, and in the event the District elects at any time to terminate this Agreement, or any portion thereof, the District shall be obligated to pay the Auditors for all services rendered by the Auditors to the date of termination.

This contract may be terminated before the automatic termination date set forth above as follows:

- a. By mutual consent of the parties;
- b. At any time on a material breach of any of the provisions hereof; or,
- c. By the District on delivery of written notice thereof to Auditors for any or no reason, whatsoever, including, but not limited to, the failure by the Board to appropriate funds for this contract or any portion hereof.

Modifications

This agreement may only be modified by a written amendment hereto, executed by both parties.

Non-Discrimination

In the performance of the work authorized under this agreement, we shall not discriminate against any worker because of race, creed, color, ancestry, religion, marital status, medical condition, age (over 40), physical or mental handicaps, veteran or non-veteran status, sex, or national origin.

Attorneys' Fees

If any action at law or in equity is necessary to enforce or interpret the terms of this contract, the prevailing party shall be entitled to reasonable attorneys' fees, costs, and necessary disbursements in addition to any other relief to which such party may be entitled.

Conflict of Interest

We hereby covenant that, at the time of the execution of this agreement, we have no interest and shall not acquire any interest in the future, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under this agreement. We also covenant that in the performance of this work, no person having any such interest shall be employed.

Taxpayer Identification

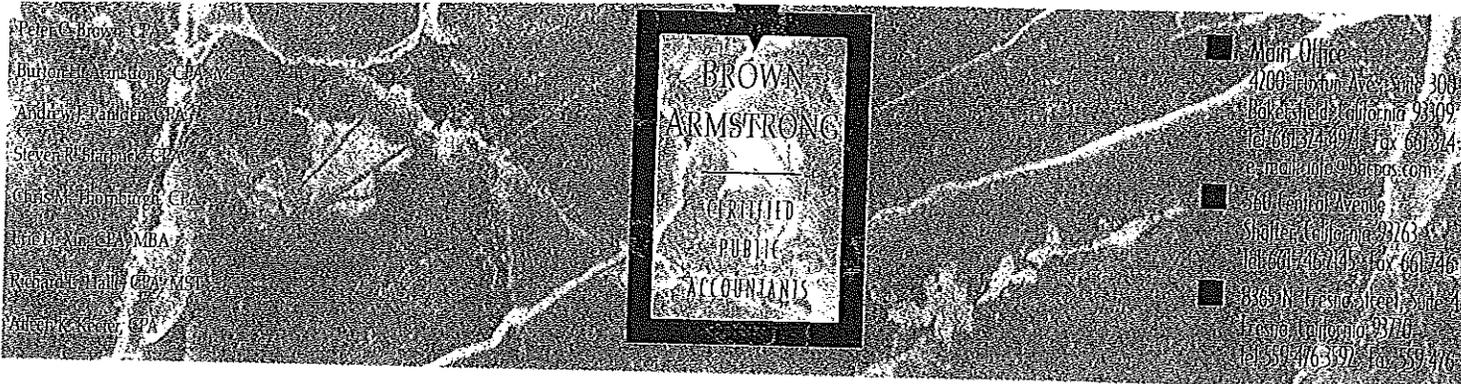
Auditors' taxpayer identification number is 68-0141969.

Hold Harmless

To the fullest extent permitted by law, we shall indemnify and hold harmless the District, its agents, officers, and employees against and from any and all claims, lawsuits, actions, liability, damages, losses, expenses, and costs (including but not limited to attorneys' fees), brought for, or on account of, injuries to or death of any person or persons, including employees, or injuries to or destruction of property, including the loss of use thereof, arising out of, or alleged to arise out of, or results from, the performance of the work described herein, provided that any such claim, lawsuit, action, liability, damage, loss, expense, or cost is caused in whole or in part by any negligence or intentional act or omission of Smith & Newell, CPAs, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, regardless of whether or not it is caused by the passive negligence of a party indemnified hereunder.

This agreement shall be governed by the laws of the State of California. It constitutes the entire agreement between

APPENDIX



SYSTEM REVIEW REPORT

November 10, 2009

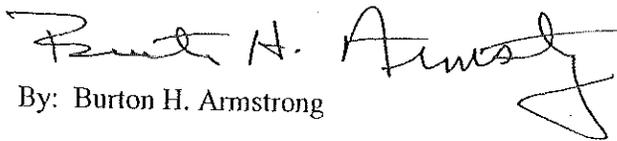
To the Owners of
Smith & Newell
and the Peer Review Committee of the California Society of CPA's

We have reviewed the system of quality control for the accounting and auditing practice of Smith & Newell (the firm) in effect for the year ended May 31, 2009. Our peer review was conducted in accordance with the Standards for Performing and Reporting on Peer Reviews established by the Peer Review Board of the American Institute of Certified Public Accountants. The firm is responsible for designing a system of quality control and complying with it to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Our responsibility is to express an opinion on the design of the system of quality control and the firm's compliance therewith based on our review. The nature, objectives, scope, limitations of, and the procedures performed in a System Review are described in the standards at www.aicpa.org/prsummary.

As required by the standards, engagements selected for review included engagements performed under the *Government Auditing Standards*.

In our opinion, the system of quality control for the accounting and auditing practice Smith & Newell in effect for the year ended May 31, 2009 has been suitably designed and complied with to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Firms can receive a rating of *pass*, *pass with deficiency(ies)*, or *fail*. Smith & Newell has received a peer review rating of *pass*.

BROWN ARMSTRONG
ACCOUNTANCY CORPORATION



By: Burton H. Armstrong

Solid Waste
Balance Sheet
April 30, 2013

Unaudited

ASSETS

422 010 00000	Cash Solid Waste	629,694.53
422 010 00300	Imprest Cash	100.00
422 010 01100	Accounts Receivable	4,713.51
422 010 03200	Land	493,000.00
422 010 03300	Transfer Station	3,266,990.64
422 010 03400	Equipment	158,443.55
422 010 03410	Buildings & Improvements	141,638.89
422 010 03440	Accum Depr Equipment	(148,798.00)
422 010 03450	Accum Depr Bldg & Improv	(61,906.24)
422 010 03460	Accum Depr Transfer Station	(592,144.00)
	Total Assets	<u>3,891,732.88</u>

LIABILITIES AND FUND EQUITY

422 010 05103	A/P Services	126.94
422 010 05210	Sublease Payable	3,205,118.55
422 010 05300	Compensated Absences Payable	52,329.88
422 010 05400	Deferred Revenue	4,839.35
422 010 05500	Post Closure Liability	2,650,636.00
422 010 06900	Designated for Lease Debt Service	150,000.00
422 010 07100	Fund Balance	(2,857,215.34)
422 010 09600	Investment in Capital Assets net of related debt	531,748.00
	Revenue	2,195,748.59
	Expenditure	(2,041,599.09)
	Total Liabilities and Fund Equity	<u>3,891,732.88</u>

3.1

Solid Waste

Statement of Revenues and Expenditures
10 Months Ended 4/30/2013

	CURRENT MONTH ACTUAL	YTD ACTUAL	YTD BUDGET	YTD VARIANCE	% EXPENDED
Revenues:					
422-421-90153 Franchise Fees	20,547.00	181,691.00	257,000.00	(75,309.00)	70.70%
422-421-90210 Code Enforcement	0.00	0.00	1,000.00	(1,000.00)	0.00%
422-421-90300 Interest - Solid Waste	326.84	907.87	2,000.00	(1,092.13)	45.39%
422-421-91003 Gate Tipping Fees	141,561.91	1,297,639.63	1,760,000.00	(462,360.37)	73.73%
422-421-91004 Authority Service Fees	76,144.02	697,719.11	912,246.00	(214,526.89)	76.48%
422-421-91121 Misc Reimbursements	0.00	207.97	1,000.00	(792.03)	20.80%
422-421-91124 Misc Revenue	0.00	20.40	0.00	20.40	0.00%
422-421-90650-060 Oil Grant 12/13	15,000.00	15,000.00	15,000.00	0.00	100.00%
422-421-90650-074 Oil Grant - 11/12	0.00	0.00	13,608.00	(13,608.00)	0.00%
422-421-91003-099 Gate Tipping Fees - Prior Yr	102.64	1,704.91	0.00	1,704.91	0.00%
422-421-91004-099 DNSWMA Tipping Fees - Prior Yr	51.63	857.70	0.00	857.70	0.00%
422-421-91129-067 DOC Grant - 12/13	0.00	0.00	15,000.00	(15,000.00)	0.00%
422-421-91129-069 DOC Grant 11/12	0.00	0.00	10,247.00	(10,247.00)	0.00%
Total Revenues	253,734.04	2,195,748.59	2,987,101.00	(791,352.41)	73.51%
Expenses:					
422-421-10010 Payroll	22,815.36	231,222.75	290,207.00	58,984.25	79.68%
422-421-10012 Overtime	190.03	484.09	1,000.00	515.91	48.41%
422-421-10015 Part-time/Temp	0.00	23,920.50	24,300.00	379.50	98.44%
422-421-10020 Retirement	6,074.42	63,976.09	84,965.00	20,988.91	75.30%
422-421-10030 Employee Benefits	6,878.23	69,028.91	59,155.00	(9,873.91)	116.69%
422-421-10033 Employee Life Insurance	19.20	238.40	332.00	93.60	71.81%
422-421-10035 Management Life Insurance	105.33	1,056.59	1,299.00	242.41	81.34%
422-421-10040 Worker's Compensation	2,483.13	24,831.30	29,798.00	4,966.70	83.33%
Total Salaries and Benefits	38,565.70	414,758.63	491,056.00	76,297.37	84.46%
422-421-20121 Communications	119.31	1,844.94	2,200.00	355.06	83.86%
422-421-20140 Household Expense	340.04	3,183.05	3,500.00	316.95	90.94%
422-421-20150 Insurance-Office	6,136.00	6,136.00	6,136.00	0.00	100.00%
422-421-20151 Liability Insurance	0.00	0.00	2,500.00	2,500.00	0.00%
422-421-20152 Vehicle Insurance	203.00	1,440.80	1,450.00	9.20	99.37%
422-421-20155 Liability Insurance	0.00	2,145.75	2,573.00	427.25	83.39%
422-421-20171 Maintenance-Vehicles	0.00	146.27	500.00	353.73	29.25%
422-421-20175 Maintenance-Computers	0.00	0.00	139.00	139.00	0.00%
422-421-20180 Maint-Structures/Improvements & TS M	1,075.00	1,075.00	1,075.00	0.00	100.00%
422-421-20200 Memberships	0.00	7,400.00	7,450.00	50.00	99.33%
422-421-20221 Printing	0.45	5.62	400.00	394.38	1.41%
422-421-20223 Postage	56.03	1,107.39	1,400.00	292.61	79.10%
422-421-20224 Office Supplies	305.54	4,251.15	7,000.00	2,748.85	60.73%
422-421-20227 Books/Subscriptions	0.00	0.00	399.00	399.00	0.00%
422-421-20230 Prof Serv-Co/City	2,808.00	3,563.74	20,000.00	16,436.26	17.82%
422-421-20231 Prof Serv	0.00	156.84	32,396.00	32,239.16	0.48%
422-421-20232 Prof Serv-Well Monitoring	0.00	24,174.00	27,111.00	2,937.00	89.17%
422-421-20233 Audit	0.00	0.00	8,850.00	8,850.00	0.00%
422-421-20234 Legal Counsel	1,321.43	6,539.12	12,000.00	5,460.88	54.49%
422-421-20235 Treasurer	750.00	3,375.00	4,500.00	1,125.00	75.00%
422-421-20236 Security	0.00	734.75	1,500.00	765.25	48.98%
422-421-20237 Credit Card Service Fees	623.97	5,478.05	4,000.00	(1,478.05)	136.95%
422-421-20238 TS Collection	1,802.80	19,253.00	27,000.00	7,747.00	71.31%
422-421-20239 Transfer Station Operations	125,019.44	1,185,214.86	1,800,000.00	614,785.14	65.85%
422-421-20240 Advertising/Publications	66.80	66.80	1,000.00	933.20	6.68%
422-421-20250 Lease of Equipment	249.41	2,825.94	3,500.00	674.06	80.74%
422-421-20251 Lease - Gasquet Transfer Station	0.00	635.63	700.00	64.37	90.80%
422-421-20270 Minor Equipment	0.00	4,074.38	5,100.00	1,025.62	79.89%
422-421-20280 Delivery Service	0.00	403.50	600.00	196.50	67.25%
422-421-20281 Household Hazardous Waste Event	0.00	31,384.00	32,000.00	616.00	98.08%
422-421-20283 Community Clean-up	429.71	3,867.39	5,000.00	1,132.61	77.35%
422-421-20285 Special Dept Expense	0.00	3,202.97	3,389.00	186.03	94.51%
422-421-20286 Cash Over/Under	(49.70)	439.10	182.00	(257.10)	241.26%
422-421-20288 City Collections	1,481.74	13,340.66	17,000.00	3,659.34	78.47%
422-421-20290 Travel	210.89	2,036.71	3,000.00	963.29	67.89%
422-421-20297 Vehicle Fuel	126.94	1,470.81	1,500.00	29.19	98.05%
422-421-20301 State Fees	0.00	25,519.00	25,519.00	0.00	100.00%
422-421-20221-060 Printing-Oil Grant - 12/13	0.00	0.00	1,000.00	1,000.00	0.00%
422-421-20221-067 Printing-DOC Grant 12/13	0.00	0.00	400.00	400.00	0.00%
422-421-20239-001 Post Closure Maintenance	0.00	5,623.94	8,000.00	2,376.06	70.30%
422-421-20240-060 Advertising Oil Grant - 12/13	0.00	0.00	3,050.00	3,050.00	0.00%
422-421-20240-067 Advertising - DOC Grant 12/13	0.00	0.00	2,600.00	2,600.00	0.00%
422-421-20240-069 Advertising - DOC Grant 11/12	0.00	720.00	3,123.00	2,403.00	23.05%
422-421-20240-074 Advertising - Oil Grant 11/12	570.00	7,003.80	7,500.00	496.20	93.38%

Solid Waste

Statement of Revenues and Expenditures
10 Months Ended 4/30/2013

	CURRENT MONTH ACTUAL	YTD ACTUAL	YTD BUDGET	YTD VARIANCE	% EXPENDED
422-421-20285-060 Spec Dept Exp-Oil Grant - 12/13	0.00	0.00	6,500.00	6,500.00	0.00%
422-421-20285-067 Spec Dept Exp-DOC Grant 12/13	0.00	0.00	6,000.00	6,000.00	0.00%
422-421-20285-069 Spec Dept Exp - DOC Grant 11/12	90.00	875.00	1,205.00	330.00	72.61%
422-421-20285-074 Spec Dept Exp - Oil Grant 11/12	0.00	613.75	3,558.00	2,944.25	17.25%
422-421-20290-060 Travel-Oil Grant - 12/13	0.00	0.00	1,000.00	1,000.00	0.00%
422-421-20290-067 Travel DOC Grant 12/13	0.00	0.00	2,000.00	2,000.00	0.00%
422-421-20290-069 Travel - DOC Grant 11/12	0.00	1,919.48	1,920.00	0.52	99.97%
Total Services and Supplies	143,836.80	1,383,248.19	2,120,425.00	737,176.81	65.23%
422-421-30490 Depreciation Expense	0.00	0.00	110,267.00	110,267.00	0.00%
Total Other Charges	0.00	0.00	110,267.00	110,267.00	0.00%
Total Fixed Assets	0.00	0.00	0.00	0.00	0.00%
422-421-70800 ARC Payment OPEB	0.00	0.00	11,125.00	11,125.00	0.00%
422-421-81000 Contingency	0.00	0.00	2,400.00	2,400.00	0.00%
422-421-70530-025 Interfund-Repayment to County	0.00	203,322.27	203,500.00	177.73	99.91%
422-421-70530-199 Interfund-Cost Plan	4,027.00	40,270.00	48,328.00	8,058.00	83.33%
Total Intrafund Transfers	4,027.00	243,592.27	265,353.00	21,760.73	91.80%
Total Expenses	186,429.50	2,041,599.09	2,987,101.00	945,501.91	68.35%
Revenues Over (Under) Expenditures	67,304.54	154,149.50	0.00	154,149.50	0.00%

**DNSWMA
GRAND TOTALS
May 2013**

	Amount to 422-421 91003 66.53%	Amount to 422-421 91004 33.47%	TOTAL AMOUNT
DNCTS Cash Total	28,088.33	14,130.72	42,219.05
DNCTS Charge Total	111,709.73	56,199.08	167,908.81
DNCTS Credit/Debit	11,548.86	5,810.01	17,358.87
DNCTS Totals	151,346.92	76,139.81	227,486.73
Klamath Cash Total		3,625.23	3,625.23
Klamath Charge Total		81.74	81.74
Klamath Totals		3,706.97	3,706.97
Gasquet Cash Total		1,115.54	1,115.54
Gasquet Charge Total		13.95	13.95
Gasquet Totals		1,129.49	1,129.49
Adjustments			
GRAND TOTALS	151,346.92	80,976.27	232,323.19

3.3

8:41 AM

06/07/13

Del Norte Solid Waste Management Authority
A/R Aging Summary
 As of May 31, 2013

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Abandoned Vehicle Abatement	212.77	772.21	473.80	0.00	0.00	1,458.78
Adventures in Hair	12.43	9.67	0.00	0.00	-0.02	22.08
Affordable Home & Rental Rep.	12.43	0.00	0.00	0.00	0.00	12.43
Agricultural Commission	6.90	35.91	41.44	62.16	169.82	316.23
Aladdin Realty	3.11	0.00	0.00	0.00	0.00	3.11
Babich Construction	6.91	0.00	0.00	0.00	0.00	6.91
Bad Checks/Co Collector	0.00	0.00	0.00	0.00	43.78	43.78
Bart Kast Builders	79.72	0.00	0.00	0.00	0.00	79.72
BCM Consturction Company	154.74	0.00	0.00	0.00	0.00	154.74
Benner Mini Storage	31.77	0.00	0.00	0.00	0.00	31.77
Bommelyn / Hartley Construction	627.48	150.59	547.11	0.00	0.00	1,325.18
Bommelyn Construction	0.00	0.00	11.05	0.00	0.00	11.05
Borges Dairy	38.69	64.94	0.00	0.00	0.00	103.63
Borgeson Wally	486.33	0.00	0.00	0.00	0.00	486.33
Brown, Hector	441.52	310.14	0.00	0.10	0.00	751.76
C.A.R.R.E. / Full - Spectrum	135.40	0.00	0.00	0.00	0.00	135.40
Cal-Ore LIFE FLIGHT	85.66	0.00	0.00	0.00	0.00	85.66
Cal-Trans	0.00	36.35	0.00	0.00	0.00	36.35
California Auto Image	355.07	0.00	0.00	0.00	0.00	355.07
California Construction Co.	45.21	0.00	0.00	0.00	0.00	45.21
California Dept. of Fish & Game	30.40	26.25	0.00	0.00	0.00	56.65
California Dept. Parks & Rec.	424.12	281.83	0.00	0.53	0.00	706.48
California Used Oil Recycling	0.00	0.00	-15,000.00	0.00	0.00	-15,000.00
Calvary Chapel	0.00	0.00	0.00	0.00	0.00	0.00
CASH	0.00	-63.12	0.00	0.00	0.00	-63.12
Castal Rock Countertop's	12.43	0.00	0.00	0.00	0.00	12.43
Certified Plumbing Co.	6.90	0.00	0.00	6.90	0.00	13.80
Cetnar Construction Inc.	60.79	0.00	0.00	0.00	0.00	60.79
Charter Communication	0.00	0.00	0.00	0.00	22.11	22.11
Chimney Kraft	13.04	0.00	0.00	0.00	0.00	13.04
City of Crescent City.	474.95	0.04	0.00	-12.67	0.00	462.32
College of the Redwoods	134.73	74.40	0.00	67.70	-84.28	192.55
Combined Maintance Services	482.37	-44.11	0.00	0.00	0.00	438.26
Corner Stone Assembly of God	20.72	0.00	0.00	0.00	0.00	20.72
Cory, Charles	0.00	0.00	0.00	0.00	576.49	576.49
Crescent Ace Hardware.	227.96	0.00	0.00	0.00	0.00	227.96
Crescent City KOA	221.24	0.00	0.00	0.00	0.01	221.25
Crescent City Nursing & Rehab	5.32	21.30	28.07	0.00	0.00	54.69
Crescent City, Harbor	0.00	0.00	0.00	0.00	0.01	0.01
Crescent Fire Protection Dist.	24.04	27.84	1.01	17.61	0.77	71.27
Crescent Senior Estates	26.62	0.00	0.00	0.00	0.00	26.62
DEBIT	0.00	0.00	0.00	0.00	190.46	190.46
Del Norte County Road Dept.	0.00	41.88	234.54	15.80	368.48	660.70
Del Norte Parks & Recreation	556.44	504.33	223.90	532.88	3,483.58	5,301.13
Del Norte Realty	34.82	0.00	0.00	0.00	0.00	34.82
Del Norte Roofing	168.56	63.55	0.00	0.00	0.00	232.11
Del Norte Solid Waste Mngmt	2.76	507.05	6.21	18.64	1,984.02	2,518.68
Del Norte Storage	26.25	0.00	0.00	0.00	0.00	26.25
Direct TV	0.00	0.00	0.00	0.00	6.91	6.91
DN Fire Safe Council	0.00	0.00	0.00	37.30	0.00	37.30
DN Unified School District	413.55	0.00	0.00	0.00	0.00	413.55
DNC Building Maintenance	19.34	0.00	6.90	24.86	109.23	160.33
DNC Code Enforcement - Blight	0.00	0.00	0.00	1,127.61	0.00	1,127.61
DNC Public Nuisance Abatement	0.00	0.00	0.00	7,638.12	0.00	7,638.12
Dutra Materials	0.00	0.00	0.00	0.00	9.67	9.67
Elk Valley Casino	0.00	0.00	0.00	21.92	-16.39	5.53
Elk Valley Rancheria	4.46	0.00	-154.27	24.55	129.72	4.46
Elk Valley Storage	22.10	13.82	0.00	0.00	-33.14	2.78
Ellers Fort Dick Market	245.92	360.60	0.00	0.50	0.00	607.02
Extra Muscle - Joel Johnson	0.00	0.00	0.00	0.00	-39.81	-39.81
FRANKLIN	158.87	0.00	0.00	0.00	0.00	158.87
Franklin's Plumbing	0.00	0.00	0.00	31.78	13.81	45.59
G. H. Outreach	255.63	0.00	43.75	0.00	-43.75	255.63
Gasquet Mobile Home Park	136.78	0.00	0.00	0.00	0.00	136.78
Golden State Construction	705.47	0.00	0.00	0.30	-0.30	705.47
GR Construction	56.64	236.87	0.00	0.00	0.00	293.51

8:41 AM

06/07/13

Del Norte Solid Waste Management Authority
A/R Aging Summary
 As of May 31, 2013

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Green Scapes	756.60	276.70	0.00	0.00	0.00	1,033.30
Griffin's Furniture Outlet	70.48	199.48	0.00	0.00	-0.10	269.86
Hambro/Waste Solutions Group	0.00	0.00	0.00	0.00	0.00	0.00
Hank's Hauling	338.62	0.00	0.00	0.00	0.00	338.62
HASP / Jordan Recovery Centers	391.62	0.00	0.00	0.00	0.00	391.62
Hemmingsen Contracting Company	55.26	0.00	0.00	0.00	0.00	55.26
Hintz Construction	0.00	0.00	0.00	0.00	127.60	127.60
Humane Society Of Del Norte	0.00	0.00	0.00	0.00	0.00	0.00
Humboldt Moving & Storage	55.02	0.00	0.00	0.00	0.00	55.02
Investment Realty	366.91	0.00	0.00	0.00	0.00	366.91
Jacob R. Crager	1,742.20	0.00	0.00	44.00	0.00	1,786.20
Klamath Transfer Station	0.00	0.00	0.00	60.47	0.00	60.47
Larson Services	71.09	20.72	29.01	0.00	0.00	120.82
Lehman Property Management	0.00	0.00	0.00	0.00	1,885.22	1,885.22
Lighthouse Community Church	71.84	0.00	0.00	23.49	0.00	95.33
Lighthouse Repertory Theatre	0.00	58.03	0.00	0.00	0.00	58.03
LNL Design and Construction	62.18	0.87	0.00	0.00	0.00	63.05
Loren Stonebrink's Const.	129.87	0.00	0.00	0.00	0.00	129.87
Lucky 7 Casino	16.13	0.00	0.00	0.00	0.17	16.30
Mark Wooding Construction	0.00	0.00	0.00	0.00	-120.00	-120.00
Mastaloudis Homes Inc.	96.72	48.74	154.75	0.00	0.00	300.21
Ming Tree Real Estate	0.00	0.00	0.00	0.00	-16.10	-16.10
Moen Investments	0.00	0.00	0.00	0.00	0.00	0.00
Mountain Power Tree Co.	75.99	-18.53	0.00	0.00	-0.35	57.11
Mow Blow and Go	6.22	0.00	0.00	0.00	0.00	6.22
Murray Construction	474.63	0.00	0.00	0.00	0.00	474.63
Newey, Harold L.	0.00	0.00	13.95	0.00	0.00	13.95
Niehoff Construction	0.00	0.00	17.91	485.55	304.25	807.71
Norbury Construction	0.00	0.00	0.00	0.00	296.70	296.70
North Coast Properties	38.68	0.00	0.00	0.00	0.00	38.68
North Woods Realty	58.03	0.00	0.00	0.00	0.00	58.03
Northridge Electric	49.73	0.00	0.00	0.00	0.00	49.73
Pappas Dry Wall	58.03	0.00	0.00	0.00	0.00	58.03
Pelican Bay Evangelical Free Church	13.81	0.00	0.00	0.00	-0.72	13.09
Pelican Bay Roofing Co.	788.86	0.00	0.00	0.00	0.00	788.86
Plunkett's Family Painting	40.69	-1.00	0.00	0.00	0.00	39.69
Ray's Mobile Home Service	70.46	0.00	0.00	0.00	0.00	70.46
Recology Del Norte (Franchise)	106,047.48	0.00	0.00	0.00	0.00	106,047.48
Recology Del Norte (Prison)	11,323.59	0.00	0.00	0.00	0.00	11,323.59
Red Sky Roofing	6,434.13	6,391.91	6,665.48	0.00	0.00	19,491.52
Redwood Coast Vacation Rentals	17.95	0.00	0.00	0.00	0.00	17.95
Redwood Community Action Agency	69.06	0.00	0.00	0.00	0.00	69.06
Redwood National Park	577.62	0.00	0.00	0.00	3,157.92	3,735.54
Reservation Ranch	1,063.84	961.60	0.00	0.00	0.00	2,025.44
Richterich & Jones Const	63.31	0.00	0.00	0.00	0.00	63.31
Rick Parker Construction	88.42	0.00	0.00	0.00	0.00	88.42
Ritchie Homes	19.34	0.00	0.00	0.00	0.00	19.34
Rogers, Luu T.	0.00	0.00	0.00	46.55	0.00	46.55
Ron's Hauling	0.00	0.00	0.00	0.00	-5.00	-5.00
Roy Rook Construction	0.00	312.24	86.25	0.00	0.00	398.49
Ruiz Construction	0.00	103.63	0.00	0.00	0.00	103.63
Rural Human Services	116.37	-3.59	0.00	0.00	-29.88	82.90
Seabreeze Apartments	47.09	0.00	0.00	0.00	0.00	47.09
Seagull Apartments	29.01	0.00	0.00	0.00	0.00	29.01
Seawood Village	9,089.56	0.00	0.00	0.00	0.00	9,089.56
Shangri-la Trailer Court	59.41	0.00	0.00	0.00	0.04	59.45
Smith River Alliance	20.72	0.00	0.00	0.00	0.00	20.72
Smith River Equipment	38.68	6.90	0.00	0.00	0.00	45.58
Smith River Rancheria	1,690.98	-6.29	0.00	0.00	0.00	1,684.69
Sprint Courier Service	120.20	66.42	0.00	0.00	0.00	186.62
Spruce Haven Mobile Home Park	0.00	0.00	0.00	0.00	0.00	0.00
St. Joseph's Parish	2.76	0.00	0.00	0.00	0.00	2.76
St. Vincent de Paul	15.80	0.00	0.00	0.00	0.00	15.80
Stephen F White Gen.Cont. Inc.	56.35	80.77	45.00	0.00	-45.00	137.12
Stone Roofing	5,319.17	0.00	0.00	0.00	0.00	5,319.17
Stremberg Realty	0.00	0.00	0.00	0.00	-0.45	-0.45

8:41 AM

06/07/13

Del Norte Solid Waste Management Authority A/R Aging Summary As of May 31, 2013

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
SWEEP ALOT	0.00	0.00	0.00	0.00	0.00	0.00
Tab & Associates	3,290.42	0.00	0.00	0.00	0.02	3,290.44
Thermo Fluids, Inc. / Outbound OIL	0.00	0.00	0.00	0.00	-45.31	-45.31
Thomas Gavin Construction	6.91	8.29	0.00	0.00	0.00	15.20
Thrifty Supply	29.01	0.00	0.00	0.00	0.00	29.01
Tim Haban Construction	63.55	63.56	0.00	0.00	0.00	127.11
Totem Villa Apartments	8.29	6.91	0.00	0.00	-14.96	0.24
TRKLA/TRGAS BINS AND LF BINS	5,736.73	4,915.87	5,346.39	9,849.76	28,489.80	54,338.55
U.S. Forest Service-Gasquet CA	0.00	0.00	0.00	0.00	1,120.96	1,120.96
V Primo Construction	0.00	0.00	1,026.53	0.00	0.00	1,026.53
Van Arsdale Construction	881.46	523.63	0.00	0.00	0.00	1,405.09
Van Nocker's Cleaning	15.20	23.48	0.00	0.00	0.00	38.68
VISA	0.00	0.00	0.00	0.00	19.26	19.26
Wigley Contracting	5.54	0.00	0.00	0.00	0.00	5.54
Winn's Maintance Service	0.00	0.00	0.00	0.00	-25.00	-25.00
Your Creation	0.00	0.00	0.00	0.00	1,092.66	1,092.66
Yurok Indian Housing Authority	0.00	0.00	0.00	123.07	-123.07	0.00
Yurok Tribe	519.49	0.00	0.00	0.00	0.00	519.49
TOTAL	<u>166,476.47</u>	<u>17,472.68</u>	<u>-151.22</u>	<u>20,249.48</u>	<u>42,959.84</u>	<u>247,007.25</u>

**MONTHLY SPLIT SHEET
DNSWMA TRANSFER STATION
MONTH: MAY 2013**

Date	Cash	Checks	Cash/Check Total	Visa	Master	Discover	Credit Card Total	Charges	Grand Total	66.53% 91003	33.47% 91004	20286	Total
1	\$ 1,301.71	\$ 395.16	\$ 1,696.87	\$ 531.38	\$ 68.84		\$ 600.22	\$ 7,186.13	\$ 9,483.22	\$ 1,128.93	\$ 567.94	(\$9.87)	\$ 1,687.00
2	\$ 855.09	\$ 190.65	\$ 1,045.74	\$ 624.20	\$ 81.52		\$ 705.72	\$ 5,525.41	\$ 7,276.87	\$ 695.73	\$ 350.01	(\$1.03)	\$ 1,044.71
3	\$ 1,410.39	\$ 310.68	\$ 1,721.07	\$ 562.86	\$ 38.68		\$ 601.54	\$ 6,844.34	\$ 9,166.95	\$ 1,145.03	\$ 576.04	(\$1.15)	\$ 1,719.92
4	\$ 1,273.46	\$ 317.86	\$ 1,596.32	\$ 1,042.61	\$ 25.72		\$ 1,168.33	\$ 436.05	\$ 3,200.70	\$ 1,062.03	\$ 534.29	\$0.01	\$ 1,596.33
5	\$ 1,435.14	\$ 264.30	\$ 1,699.44	\$ 924.28	\$ 52.63		\$ 976.91	\$ 114.88	\$ 2,791.23	\$ 1,130.64	\$ 568.80	\$0.07	\$ 1,699.51
6	\$ 1,539.78	\$ 382.46	\$ 1,922.24	\$ 468.65	\$ 183.55		\$ 652.20	\$ 6,960.66	\$ 9,535.10	\$ 1,278.87	\$ 643.37	(\$2.00)	\$ 1,920.24
7	\$ 880.74	\$ 394.87	\$ 1,275.61	\$ 417.69	\$ 16.58		\$ 434.27	\$ 7,181.93	\$ 8,891.81	\$ 848.66	\$ 426.95	\$0.19	\$ 1,275.80
8	\$ 1,139.85	\$ 381.68	\$ 1,521.53	\$ 392.21	\$ 38.68		\$ 430.89	\$ 7,259.08	\$ 9,211.50	\$ 1,012.27	\$ 509.26	(\$0.04)	\$ 1,521.49
9	\$ 1,085.17	\$ 223.04	\$ 1,308.21	\$ 238.80		\$ 129.40	\$ 1,007.74	\$ 6,538.01	\$ 8,085.02	\$ 870.35	\$ 437.86		\$ 1,308.21
10	\$ 1,075.84	\$ 311.11	\$ 1,386.95	\$ 878.34			\$ 939.42	\$ 5,575.36	\$ 7,970.05	\$ 922.74	\$ 464.21		\$ 1,386.95
11	\$ 1,513.50	\$ 383.40	\$ 1,896.90	\$ 762.57	\$ 176.85		\$ 453.75	\$ 354.61	\$ 3,190.93	\$ 1,262.01	\$ 634.89	(\$0.09)	\$ 1,896.81
12	\$ 767.02	\$ 175.87	\$ 942.89	\$ 453.75			\$ 453.75	\$ 287.37	\$ 1,684.01	\$ 627.30	\$ 315.59	(\$0.01)	\$ 942.88
13	\$ 960.55	\$ 154.05	\$ 1,114.60	\$ 339.72	\$ 13.81	\$ 27.63	\$ 381.16	\$ 8,890.70	\$ 10,386.46	\$ 741.54	\$ 373.06	\$1.02	\$ 1,115.62
14	\$ 782.67	\$ 417.46	\$ 1,200.13	\$ 479.69			\$ 479.69	\$ 8,759.93	\$ 10,439.75	\$ 798.45	\$ 401.68	(\$3.00)	\$ 1,197.13
15	\$ 907.28	\$ 282.67	\$ 1,189.95	\$ 533.74	\$ 31.78		\$ 565.52	\$ 9,152.85	\$ 10,908.32	\$ 791.67	\$ 398.28	(\$0.06)	\$ 1,189.89
16	\$ 695.34	\$ 249.02	\$ 944.36	\$ 402.25	\$ 16.94		\$ 419.19	\$ 6,690.82	\$ 8,054.37	\$ 628.28	\$ 316.08		\$ 944.36
17	\$ 1,012.31	\$ 278.98	\$ 1,291.29	\$ 544.24	\$ 116.49		\$ 660.73	\$ 8,955.92	\$ 10,907.94	\$ 859.10	\$ 432.19	(\$0.01)	\$ 1,291.28
18	\$ 1,446.24	\$ 165.60	\$ 1,611.84	\$ 781.27	\$ 146.52		\$ 927.79	\$ 162.28	\$ 2,701.91	\$ 1,072.36	\$ 539.48	\$0.06	\$ 1,611.90
19	\$ 1,253.46	\$ 183.48	\$ 1,436.94	\$ 939.38			\$ 939.38	\$ 135.77	\$ 2,512.09	\$ 956.00	\$ 480.94	\$0.22	\$ 1,437.16
20	\$ 1,233.29	\$ 163.74	\$ 1,397.03	\$ 643.25			\$ 643.25	\$ 10,548.82	\$ 12,589.10	\$ 929.44	\$ 467.59		\$ 1,397.03
21	\$ 555.53	\$ 63.43	\$ 618.96	\$ 198.69	\$ 11.05		\$ 209.74	\$ 6,533.78	\$ 7,362.48	\$ 411.79	\$ 207.17		\$ 618.96
22	\$ 716.53	\$ 659.78	\$ 1,376.31	\$ 253.46			\$ 253.46	\$ 6,856.54	\$ 8,486.31	\$ 915.66	\$ 460.65	\$0.01	\$ 1,376.32
23	\$ 1,028.82	\$ 129.13	\$ 1,157.95	\$ 274.37	\$ 119.54		\$ 393.91	\$ 5,866.82	\$ 7,418.68	\$ 770.38	\$ 387.57		\$ 1,157.95
24	\$ 1,020.49	\$ 229.98	\$ 1,250.47	\$ 370.82	\$ 20.71		\$ 391.53	\$ 6,104.11	\$ 7,746.11	\$ 831.94	\$ 418.53		\$ 1,250.47
25	\$ 1,481.77	\$ 478.24	\$ 1,960.01	\$ 612.67	\$ 88.53		\$ 701.20	\$ 534.67	\$ 3,195.88	\$ 1,303.99	\$ 656.02	(\$0.85)	\$ 1,959.16
26	\$ 978.78	\$ 251.97	\$ 1,230.75	\$ 332.65			\$ 332.65	\$ 301.20	\$ 1,864.60	\$ 818.82	\$ 411.93	(\$0.01)	\$ 1,230.74
27			\$ -				\$ -		\$ -	\$ -	\$ -		\$ -
28	\$ 963.67	\$ 245.91	\$ 1,209.58	\$ 538.79	\$ 27.62		\$ 566.41	\$ 9,284.04	\$ 11,060.03	\$ 804.73	\$ 404.85	\$0.01	\$ 1,209.59
29	\$ 910.48	\$ 470.34	\$ 1,380.82	\$ 469.84	\$ 37.65		\$ 507.49	\$ 7,890.58	\$ 9,778.89	\$ 918.66	\$ 462.16		\$ 1,380.82
30	\$ 873.04	\$ 668.80	\$ 1,541.84	\$ 326.04	\$ 20.93		\$ 346.97	\$ 8,455.75	\$ 10,344.56	\$ 1,025.79	\$ 516.05		\$ 1,541.84
31	\$ 1,712.80	\$ 579.65	\$ 2,292.45	\$ 383.06	\$ 29.01	\$ 16.94	\$ 429.01	\$ 8,520.40	\$ 11,241.86	\$ 1,525.17	\$ 767.28	-0.97	\$ 2,291.48
TOTAL	\$32,815.74	\$9,403.31	\$42,219.05	\$15,721.27	\$1,463.63	\$173.97	\$17,358.87	\$167,908.81	\$227,486.73	\$28,088.33	\$14,130.72	\$(17.50)	\$42,201.55

DNSWMA

GASQUET TRANSFER STATION - CASH

May 2013

Date	Amount to 422-421- 91004	TOTAL CASH AMOUNT
May 4, 2013	261.73	261.73
May 11, 2013	367.62	367.62
May 18, 2013	268.65	268.65
May 25, 2013	217.54	217.54
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
TOTALS	1,115.54	1,115.54

DAILY TICKET REPORT				
DNSWMA TRANSFER STATION				
MONTH: May 1 - 31, 2013				
			VOIDED	TICKET
	BEGIN	END	TICKETS	COUNT
Date				
1	700245	700424	1	179
2	700425	700573		149
3	700574	700755		182
4	700756	700936		181
5	700937	701109	1	172
6	701110	701297	1	187
7	701298	701449	1	151
8	701450	701610	2	159
9	701611	701746	1	135
10	701747	701902	1	155
11	701903	702092		190
12	702093	702197		105
13	702198	702352		155
14	702353	702501	1	148
15	702502	702649	3	145
16	702650	702773		124
17	702774	702945		172
18	702946	703103	2	156
19	703104	703273		170
20	703274	703451	1	177
21	703452	703548	1	96
22	703549	703670		122
23	703671	703823	1	152
24	703824	703981		158
25	703982	704161		180
26	704162	704281	1	119
27	704282	704281		0
28	704282	704477		196
29	704478	704628		151
30	704629	704797	2	167
31	704798	704991	1	193
TOTAL			21	4726

AUTHORITY REVENUE REPORT May 2013

Source 2011/2012 2012/2013
 Authority Actual Annual
 Service Fees \$ 987,823.58

	2011/2012		2012/2013	
	Actual	Budget	Actual	Budget
Service Fees	\$ 987,823.58	\$ 912,246.00	\$ 76,020.00	\$ 912,246.00

	Comparison		Actual/Month	Over Budget
	FYE12	FYE13		
July	\$ 91,316.00	\$ (3,907.19)	\$ 87,408.81	\$ 11,388.81
August	\$ 98,511.00	\$ (5,878.00)	\$ 92,633.00	\$ 16,613.00
September	\$ 90,294.02	\$ 2,634.92	\$ 92,928.94	\$ 16,908.00
October	\$ 81,444.29	\$ 1,303.28	\$ 82,747.57	\$ 6,727.57
November	\$ 68,955.61	\$ 2,002.53	\$ 70,958.14	\$ (5,061.86)
December	\$ 79,561.48	\$ (9,646.60)	\$ 69,914.88	\$ (6,105.12)
January	\$ 86,911.76	\$ (10,597.74)	\$ 76,314.02	\$ 294.00
February	\$ 72,975.87	\$ (5,811.49)	\$ 67,164.38	\$ (8,855.62)
March	\$ 78,875.22	\$ (3,508.16)	\$ 75,367.06	\$ (652.94)
April	\$ 73,724.03	\$ 5,748.05	\$ 79,472.08	\$ 3,452.08
May	\$ 83,672.34	\$ (2,696.07)	\$ 80,976.27	\$ 4,956.27
June	\$ 81,581.96			
Total	\$ 987,823.58		\$ 875,885.15	\$ 39,664.19

Projected Annual Total \$ 955,511.04 \$ 43,270.00

3.4

AUTHORITY REVENUE REPORT May 2013

2011/2012		2012/2013		Budget/Year	
Actual Annual		Actual/Month		Budget/Month	Budget/Year
Source				\$ 21,417.00	\$ 257,000.00
Franchise Fee	\$ 186,660.00				
		Comparison		Actual/Month	Over/Under Budget
		FYE12 & FYE13			
July	\$ 22,426.00	\$ (3,371.00)	July	\$ 19,055.00	\$ (2,362.00)
August	\$ 22,303.00	\$ (1,945.00)	August	\$ 20,358.00	\$ (1,059.00)
September	\$ 25,998.00	\$ (4,784.00)	September	\$ 21,214.00	\$ (203.00)
October	\$ 21,885.00	\$ (1,320.00)	October	\$ 20,565.00	\$ (852.00)
November	\$ 23,761.00	\$ (3,778.00)	November	\$ 19,983.00	\$ (1,434.00)
December	\$ 21,986.00	\$ (2,093.00)	December	\$ 19,893.00	\$ (1,525.00)
January	\$ 20,201.00	\$ (1,036.00)	January	\$ 19,165.00	\$ (2,252.00)
February	\$ 20,548.00	\$ 363.00	February	\$ 20,911.00	\$ (506.00)
March	\$ 19,236.00	\$ 1,311.00	March	\$ 20,547.00	\$ (870.00)
April	\$ 19,547.00	\$ 54.00	April	\$ 19,601.00	\$ (1,816.00)
May	\$ 20,211.00	\$ (528.00)	May	\$ 19,683.00	\$ (1,734.00)
June	\$ 19,510.00		June		
Total	\$ 257,612.00		Total	\$ 220,975.00	\$ (15,941.00)

Projected Annual Total \$ 241,064.00

**DEL NORTE SOLID WASTE
MANAGEMENT AUTHORITY,
CALIFORNIA**

**REQUIRED COMMUNICATION AND MANAGEMENT REPORT
FOR THE YEAR ENDED
JUNE 30, 2012**

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Required Communication And Management Report
For the Year Ended June 30, 2012

Table of Contents

	Page
Transmittal Letter	1-2
Required Communication	3-4
Schedule of Findings and Recommendations	5-7
Status of Prior Year Recommendations	8-9

THIS PAGE INTENTIONALLY LEFT BLANK

To the Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

In planning and performing our audit of the financial statements of Del Norte Solid Waste Management Authority as of and for the year ended June 30, 2013, in accordance with auditing standards generally accepted in the United States of America, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing our audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control. We have issued a separate report on Internal Control Over Financial Reporting and on Compliance and Other Matters Required by Government Auditing Standards dated June 7, 2013.

Our consideration of internal control was for the limited purpose described in the first paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that were not identified. However, as discussed below, we identified certain deficiencies in internal control that we consider to be significant deficiencies.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. We did not identify any deficiencies in internal control that we consider to be material weaknesses.

A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. We consider deficiency 12-FS-01 and 12-FS-02 in the Authority's internal control to be a significant deficiency. These findings are presented in the separate report referred to above and also in the Schedule of Findings and Recommendations that accompanies this letter.

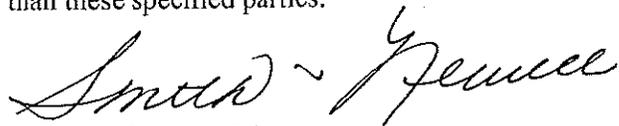
During our audit we noted certain matters involving internal controls and other operational matters that are presented for your consideration in this report. Our comments and recommendations, all of which have been discussed with appropriate members of management, are not intended to be all-inclusive, but rather represent those matters that we considered worthy of your consideration. Our comments and recommendations are submitted as constructive suggestions to assist you in strengthening controls and procedures. We will review the status of these comments during our next audit engagement. These comments and recommendations are presented in the Schedule of Findings and Recommendations that accompanies this letter.

The Authority's written response to the findings identified in our audit have not been subjected to the audit procedures applied in the audit of the financial statements and, accordingly, we express no opinion on them.

To the Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

Following this letter, we have included a report on communications as required by auditing standards generally accepted in the United States of America.

This communication is intended solely for the information and use of management, the Board of Commissioners and others within the entity and is not intended to be and should not be used by anyone other than these specified parties.

A handwritten signature in cursive script, appearing to read "Smith & Newell".

Smith & Newell, CPAs
Yuba City, California
June 7, 2013

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Required Communication
For the Year Ended June 30, 2012

We have audited the financial statements of the proprietary fund of Del Norte Solid Waste Management Authority for the year ended June 30, 2012. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards and Government Auditing Standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you during the planning of our audit. Professional standards also require that we communicate to you the following information related to our audit.

SIGNIFICANT AUDIT FINDINGS

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the Authority are described in the notes to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during the year ended June 30, 2012. We noted no transactions entered into by the government unit during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the Authority's financial statements are depreciation of capital assets, net OPEB obligation and postclosure liability.

Management's estimate of depreciation is based on estimated or actual historical cost and the useful lives of such assets. We evaluated the key factors and assumptions used to develop the Authority's estimates in determining that they are reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. The most sensitive disclosures affecting the financial statements were the disclosure of employee retirement plan and post employment benefits other than pensions.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. Management has agreed to correct all such misstatements. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to each opinion unit's financial statements taken as a whole.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Required Communication
For the Year Ended June 30, 2012

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the governmental unit's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Authority's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Management Report
Schedule of Findings and Recommendations
For the Year Ended June 30, 2012

12-FS-01 Deficit Net Assets (Significant Deficiency)

Condition

The charges for services were not sufficient to cover post closure liability and debt service requirements and the Authority had a net asset deficit. This is a repeat of a prior year finding.

Cause

The Authority's rates charged to customers were not adequate to cover post closure costs and debt service requirements.

Criteria

Prudent management of Authority resources requires that charges for services be adequate to cover the cost of providing the service.

Effect of Condition

The Authority had inadequate reserves to settle the estimated accrued liabilities.

Recommendation

We recommend that the Authority consider all expenses including depreciation and post closure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.

Corrective Action Plan

Transfer Station Rates were increased in July 2011 to provide adequate revenue to fund operating expenses, including depreciation and transfer station finance payments.

During FYE 2012, Post-Closure Liability was reduced from \$2,733,362 to \$2,277,802. This was accomplished by submitting a request to CalRecycle and securing approval for a 5 year reduction in our remaining post-closure maintenance period. In FYE 2013 we have secured further reduction of one year to reflect the remaining 24 years of Post-Closure Maintenance. Current Post-Closure Liability has been reduced an additional \$92,752 to a remaining balance of \$2,226,050.

The Del Norte Solid Waste Management Authority has a post-closure liability funding mechanism, approved by CalRecycle, which allows for a Pledge of Revenue from the transfer station to pay for expenses related to post-closure maintenance. This is a legally approved method for funding post-closure maintenance.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Management Report
Schedule of Findings and Recommendations
For the Year Ended June 30, 2012

12-FS-02 Revenue Collections (Significant Deficiency)

Condition

At the time of our fieldwork we noted that approximately \$27,000 collected in July 2012 was reported as collected in June to cover shortages and also included in the accounts receivable accrual for June 30, 2012.

Cause

Weak internal controls and lack of review of cash handling procedures allowed inappropriate cash handling to occur.

Criteria

Cash collections should be reported intact and in the period in which it is received.

Effect of Condition

Accounts receivable and revenues were overstated approximately \$27,000 at June 30, 2012.

Recommendation

We recommend that cash collections be deposited intact and in the period in which it was received.

Corrective Action Plan

An adjustment was made in October 2012 to write off the difference between cash on hand and collections in prior periods. Deposits are now made whole, intact and in a timely manner.

12-MC-01 Insurance (Other Matter)

Condition

During our audit we noted the Authority did not have insurance coverage for the landfill. This is a repeat of a prior year finding.

Cause

The Authority did not have adequate insurance coverage.

Criteria

Insurance coverage should be maintained in order to minimize the risk of loss.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Management Report
Schedule of Findings and Recommendations
For the Year Ended June 30, 2012

12-MC-01 Insurance (Other Matter) (Continued)

Effect of Condition

The Authority is exposed to increased loss without insurance coverage for the landfill.

Recommendation

We recommend that the Authority Maintain insurance coverage for the landfill to minimize the risk of loss.

Corrective Action Plan

Options for landfill liability insurance have been provided to the Authority Board and funds have been budgeted in Fiscal Year 2013/2014, should the Board elect to procure this insurance.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Management Report
Status of Prior Year Recommendations
For the Year Ended June 30, 2012

<u>Audit Reference</u>	<u>Status of Prior Year Audit Recommendations</u>
11-FS-01	<p>Restricted Net Assets</p> <p>Recommendation</p> <p>We recommend that the authority and County of Del Norte review the facility lease and reserve requirements to determine the proper entity to hold the reserve fund and fund the reserve accordingly.</p> <p>Status</p> <p>The County and Authority are resolving this finding.</p>
11-FS-02	<p>Deficit Net Assets</p> <p>Recommendation</p> <p>We recommend that the Authority consider all expenses including depreciation and post closure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.</p> <p>Status</p> <p>Not Implemented</p>
11-FS-03	<p>Retiree Benefit Payments</p> <p>Recommendation</p> <p>We recommend that the Authority and County of Del Norte review the retiree medical payments and determine the proper entity to pay the retiree benefits.</p> <p>Status</p> <p>Implemented</p>

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Management Report
Status of Prior Year Recommendations
For the Year Ended June 30, 2012

<u>Audit Reference</u>	<u>Status of Prior Year Audit Recommendations</u>
11-MC-01	<p>Insurance</p> <p>Recommendation</p> <p>We recommend that the Authority maintain insurance coverage for the landfill to minimize the risk of loss.</p> <p>Status</p> <p>Not Implemented</p>

**DEL NORTE SOLID WASTE
MANAGEMENT AUTHORITY,
CALIFORNIA**

**FINANCIAL STATEMENTS
TOGETHER WITH
INDEPENDENT AUDITOR'S REPORT
FOR THE YEAR ENDED
JUNE 30, 2012**

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Annual Financial Report
For the Year Ended June 30, 2012

Table of Contents

	Page
INTRODUCTORY SECTION	
Members of the Board	i
FINANCIAL SECTION	
Independent Auditor's Report	1-2
Basic Financial Statements:	
Fund Financial Statements:	
Statement of Net Assets	3
Statement of Revenues, Expenses, and Changes in Net Assets	4
Statement of Cash Flows	5
Notes to Basic Financial Statements	6-18
Required Supplementary Information (Unaudited):	
Schedule of Funding Progress - Other Postemployment Benefits (OPEB)	19
OTHER REPORT AND SCHEDULES	
Independent Auditor's Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards	20-21
Schedule of Findings and Recommendations	22-23
Status of Prior Year Recommendations	24

THIS PAGE INTENTIONALLY LEFT BLANK

INTRODUCTORY SECTION

- Members of the Board

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Board of Commissioners
For the Year Ended June 30, 2012

Kathryn Murray	Commissioner
Martha McClure	Commissioner
Leslie McNamer	Commissioner
Richard Holley	Commissioner
Kelly Schellong	Commissioner
Michael Sullivan	Commissioner
Dona Westfall	Commissioner
Gerry Hemmingsen	Commissioner
David Finnigan	Commissioner
Rich Enea	Commissioner

THIS PAGE INTENTIONALLY LEFT BLANK

FINANCIAL SECTION

- **Independent Auditor's Report**
- **Basic Financial Statements**
- **Required Supplementary Information**

THIS PAGE INTENTIONALLY LEFT BLANK

INDEPENDENT AUDITOR'S REPORT

To The Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

We have audited the accompanying financial statements of the proprietary fund of Del Norte Solid Waste Management Authority, Crescent City, California (Authority) as of and for the year ended June 30, 2012, which collectively comprise the Authority's basic financial statements as listed in the table of contents. These financial statements are the responsibility of the Authority's management. Our responsibility is to express opinions on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinions.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the proprietary fund of the Authority as of June 30, 2012, and the respective changes in financial position and where applicable, cash flows, thereof for the year then ended in conformity with accounting principles generally accepted in the United States of America.

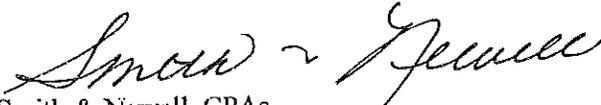
In accordance with Government Auditing Standards, we have also issued our report dated June 7, 2013, on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be considered in assessing the results of our audit.

To The Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

Accounting principles generally accepted in the United States of America require that the Schedule of Funding Progress as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Management has omitted the Management Discussion and Analysis that accounting principles generally accepted in the United States of America require to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. Our opinion on the basic financial statements is not affected by this missing information.

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Authority's financial statements as a whole. The introductory section is presented for purposes of additional analysis and is not a required part of the financial statements. The introductory section has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and, accordingly, we do not express an opinion or provide any assurance on it.


Smith & Newell, CPAs
Yuba City, California
June 7, 2013

Basic Financial Statements

- **Fund Financial Statements**

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Statement of Net Assets
June 30, 2012

	<u>Solid Waste</u>
ASSETS	
Current Assets:	
Cash and investments	\$ 433,232
Accounts receivable	206,422
Total Current Assets	<u>639,654</u>
Noncurrent Assets:	
Capital assets:	
Non-depreciable	493,000
Depreciable, net	2,764,226
Total Noncurrent Assets	<u>3,257,226</u>
Total Assets	<u>3,896,880</u>
LIABILITIES	
Current Liabilities:	
Accounts payable	184,324
Compensated absences payable	41,813
Sublease payable	95,464
Total Current Liabilities	<u>321,601</u>
Noncurrent Liabilities:	
Compensated absences payable	10,517
Sublease payable	2,927,831
Postclosure	2,277,802
Net OPEB obligation	86,006
Total Noncurrent Liabilities	<u>5,302,156</u>
Total Liabilities	<u>5,623,757</u>
NET ASSETS	
Invested in capital assets, net of related debt	531,748
Restricted for debt service	150,000
Unrestricted	(2,408,625)
Total Net Assets	<u>\$ (1,726,877)</u>

The notes to the basic financial statements are an integral part of this statement.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Statement of Revenues, Expenses,
And Changes in Net Assets
For the Year Ended June 30, 2012

	<u>Solid Waste</u>
OPERATING REVENUES	
Charges for services	\$ 2,753,624
Other revenue	14,127
	<hr/>
Total Operating Revenues	2,767,751
	<hr/>
OPERATING EXPENSES	
Salaries and benefits	567,016
Professional services	267,366
Printing	526
Postage	1,596
Advertising	17,908
Travel	5,235
Office supplies	14,882
Insurance	12,345
Special department expense	22,878
Telephone and utilities	2,382
Maintenance and repairs	12,160
Subscriptions and memberships	7,298
Rent	3,771
Commissioner fees	7,575
Landfill postclosure	(399,340)
Hazardous waste clean-up	39,418
Landfill operation fees	1,847,202
State fees	55,415
Waste collection fees	30,820
Other expenses	22,322
Depreciation	101,364
	<hr/>
Total Operating Expenses	2,640,139
	<hr/>
Operating Income (Loss)	127,612
	<hr/>
NON-OPERATING REVENUES (EXPENSES)	
Interest income	1,173
Intergovernmental revenue	181,486
Franchise fees	257,619
Interest expense	(111,254)
	<hr/>
Total Non-Operating Revenues (Expenses)	329,024
	<hr/>
Change in Net Assets	456,636
	<hr/>
Total Net Assets - Beginning	(2,183,513)
	<hr/>
Total Net Assets - Ending	\$ (1,726,877)
	<hr/> <hr/>

The notes to the basic financial statements are an integral part of this statement.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Statement of Cash Flows
June 30, 2012

	<u>Solid Waste</u>
CASH FLOWS FROM OPERATING ACTIVITIES	
Receipts from customers	\$ 2,868,538
Payment to suppliers	(2,517,161)
Payments to employees	(516,791)
	<u> </u>
Net Cash Provided (Used) by Operating Activities	<u> (165,414)</u>
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES	
Grants and other receipts	181,486
Franchise fees	257,619
	<u> </u>
Net Cash Provided (Used) by Noncapital Financing Activities	<u> 439,105</u>
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES	
Principal paid on debt	(92,396)
Interest paid on debt	(111,254)
	<u> </u>
Net Cash Provided (Used) by Capital and Related Financing Activities	<u> (203,650)</u>
CASH FLOWS FROM INVESTING ACTIVITIES	
Interest and dividends	1,173
	<u> </u>
Net Cash Provided (Used) by Investing Activities	<u> 1,173</u>
Net Increase (Decrease) in Cash and Cash Equivalents	71,214
Balances - Beginning of the Year	<u>362,018</u>
Balances - End of the Year	<u><u>\$ 433,232</u></u>
 RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH PROVIDED (USED) BY OPERATING ACTIVITIES	
Operating income (loss)	127,612
Adjustments to reconcile operating income to net cash provided by operating activities:	
Depreciation	101,364
Decrease (increase) in:	
Accounts receivable	100,787
Increase (decrease) in:	
Accounts payable	(146,062)
Compensated absences payable	3,125
Post closure	(399,340)
Net OPEB obligation	47,100
	<u> </u>
Net Cash Provided (Used) by Operating Activities	<u><u>\$ (165,414)</u></u>

The notes to the basic financial statements are an integral part of this statement.

THIS PAGE INTENTIONALLY LEFT BLANK

Basic Financial Statements

- **Notes to Basic Financial Statements**

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The basic financial statements of Del Norte Solid Waste Management Authority (Authority) have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to governmental agencies. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the Authority's accounting policies are described below.

A. Reporting Entity

The Del Norte Solid Waste Management Authority (Authority) was formed September 21, 1992, and is a Joint Powers Authority between the County of Del Norte and the City of Crescent City.

The purpose of the Authority is to administer the siting, development, construction and operation of solid waste facilities for the collection, reduction, recycling, composting, and disposal of discards generated within the City's and County's territorial boundaries. Under the terms of the Joint Powers Agreement, either the County or the City may withdraw and thereby dissolve the Authority. The County and City then would each reassume their respective responsibilities for waste management matters.

As required by GAAP, these financial statements present the Authority and its component units, entities for which the government is considered to be financially accountable.

Reporting for component units on the Authority's financial statements can be blended or discretely presented. Blended component units are, although legally separate entities, in substance part of the Authority's operations and, therefore, data from these units are combined with data of the primary government. Discretely presented component units, on the other hand, would be reported in a separate column on the government-wide financial statements to emphasize it is legally separate from the government.

Based on the application of the criteria set forth by the Governmental Accounting Standards Board, management has determined that there are no component units of the Authority.

B. Basis of Presentation

Fund Financial Statements

Fund financial statements of the Authority are organized into one fund, which is considered to be a separate accounting entity. The fund is accounted for by providing a separate set of self-balancing accounts that constitute its assets, liabilities, net assets, revenues, and expenses. The fund of the Authority is organized into the proprietary category and is treated as a major fund. A fund is considered major if it is the primary operating fund or meets the following criteria:

- Total assets, liabilities, revenues or expenses of the individual enterprise fund are at least 10 percent of the corresponding total for all funds of that category or type, and
- Total assets, liabilities, revenues or expenses of the individual enterprise fund are at least 5 percent of the corresponding total for all funds combined.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

B. Basis of Presentation (Continued)

Fund Financial Statements (Continued)

The Authority reports the following major proprietary fund:

- The Solid Waste Fund is an enterprise fund used to account for solid waste management, transfer station operations and landfill closure and post closure.

C. Basis of Accounting and Measurement Focus

The proprietary fund financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded at the time liabilities are incurred, regardless of when the related cash flows take place. Nonexchange transactions, in which the Authority gives (or receives) value without directly receiving (or giving) equal value in exchange, include revenues from grants, entitlements, and donations. Revenues from grants, entitlements and donations are recognized in the fiscal year in which all eligibility requirements have been satisfied.

Private sector standards of accounting and financial reporting issued prior to December 1, 1989, generally are followed for the proprietary fund financial statements to the extent that those standards do not conflict with or contradict guidance of the Governmental Accounting Standards Board (GASB). Governments also have the option of following subsequent private-sector guidance for their business-type activities and enterprise funds, subject to the same limitation. The Authority has elected not to follow subsequent private-sector guidance.

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenues of enterprise funds are charges to customers for services. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation of capital assets. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

D. Cash, Cash Equivalents, and Investments

Cash and investments consist of cash on hand and cash pooled in the Del Norte County Treasurer's pool. The Authority pools all cash and investments, other than imprest cash, with the County of Del Norte. The Del Norte County Treasury is an external investment pool for the Authority and the Authority is considered an involuntary participant. The Treasurer invests on behalf of most funds of the County and external participants in accordance with the California State Government Code and the County's investment policy.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

D. Cash, Cash Equivalents, and Investments (Continued)

Participant's equity in the investment pool is determined by the dollar amount of participants deposits, adjusted for withdrawals and distributed investment income. Investment income is determined on the amortized cost basis. Amortized premiums and accreted discounts, accrued interest, and realized gains and losses, net of expenses, are apportioned to pool participants each quarter based on the participant's average daily cash balance at quarter end in relation to the total pool investments. This method differs from the fair value method used to value investments in these financial statements. In these financial statements, the fair value of the Authority's investments in the pool was based on unaudited quoted market values as provided by the County Treasurer. The pool has not provided or obtained any legally binding guarantees during the period to support the value of the investments.

Funds deposited in the Del Norte County Treasurer's pool are invested in accordance with the California State Government Code and the County investment policy. The County has established a treasury oversight committee to monitor and review the management of public funds maintained in the investment pool in accordance with Article 6 Section 27131 of the California Government Code and the County investment policy. The oversight committee and the Board of Supervisors review and approve the investment policy annually. The County Treasurer prepares and submits a comprehensive investment report to the members of the oversight committee and the Board of Supervisors every month. The report covers the type of investments in the pool, maturity dates, par value, actual cost and fair value.

Required disclosure information regarding categorization of investments and other deposit and investment risk disclosures can be found in the County's financial statements. The County of Del Norte's financial statements may be obtained by contacting the County of Del Norte Auditor Controller's office at 981 H Street, Suite 140, Crescent City, CA 95531.

For purposes of the accompanying Statement of Cash Flows, the Authority considers all highly liquid investments with a maturity of three months or less when purchased, and their equity in the County of Del Norte investment pool, to be cash equivalents.

E. Receivables

Accounts Receivable

Accounts receivable consist mainly of amounts due from customers for services and amounts due from grant activities. These amounts are not shown net of an allowance for doubtful accounts. Any doubtful accounts at June 30, 2012 were not considered material and therefore were not recorded.

F. Inventory

Inventory items are recorded as an expense at the time individual items are purchased rather than when consumed. Records are not maintained of inventory and supplies on hand, although these amounts are not considered material.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

G. Capital Assets

Capital assets, which include property, plant, equipment, and infrastructure are recorded at historical cost or estimated historical cost if actual historical cost is unavailable. The Authority defines capital assets as assets with an individual cost of more than \$2,000 and an estimated useful life in excess of one year. Donated capital assets are valued at their estimated fair value at the date of donation. Major outlays for capital assets and improvements are capitalized as projects are constructed. Interest incurred during the construction phase is not included as part of the capitalized value.

Capital assets used in operations are depreciated or amortized using the straight line method over the estimated useful life. The range of estimated useful lives by type of asset is as follows:

<u>Depreciable Assets</u>	<u>Estimated Lives</u>
Equipment	5-20 years
Structures and improvements	10-20 years

Maintenance and repairs are charged to operations when incurred. Betterments and major improvements which significantly increase values, change capacities or extend useful lives are capitalized. Upon sale or retirement of capital assets, the cost and related accumulated depreciation are removed from the respective accounts and any resulting gain or loss is included in the results of operations.

H. Compensated Absences

It is the Authority's policy to permit employees to accumulate a limited amount of earned but unused vacation and sick leave which vests with the employee and will be paid upon separation from Authority service. The liability for these compensated absences is recorded as long-term debt in the financial statements. The current portion of this debt is estimated based on historical trends. In the fund financial statements, proprietary funds report the liability as it is incurred. The Authority includes its share of social security and medicare taxes payable on behalf of the employees in the accrual for compensated absences.

I. Grant Revenues

Certain grant revenues are recognized when specific related expenditures have been incurred. In other grant programs, monies are virtually unrestricted as to purpose of expenditure and are only revocable for failure to comply with prescribed compliance requirements. These revenues are recognized at the time of receipt or earlier if susceptible to accrual criteria is met. Cash received prior to incurrence of the related expenditure is recorded as unearned revenue.

J. Estimates

The preparation of basic financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 2: STEWARDSHIP, COMPLIANCE, AND ACCOUNTABILITY

A. Deficit Net Assets

The Solid Waste fund had a net asset deficit of \$1,726,877, caused by the post closure liability. This liability is expected to be eliminated in future years through possible surcharges to future landfill users.

NOTE 3: CASH AND INVESTMENTS

A. Financial Statement Presentation

As of June 30, 2012, the Authority's cash and investments consisted of the following:

Cash:	
Cash on hand	\$ <u>100</u>
Total Cash	<u>100</u>
Investments:	
Del Norte County Treasurer's Pool	<u>433,132</u>
Total Investments	<u>433,132</u>
Total Cash and Investments	<u>\$ 433,232</u>

B. Cash

Custodial Credit Risk for Deposits - Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or collateral securities that are in the possession of an outside party. The Authority and the County comply with the requirements of the California Government Code. Under this code, interest bearing deposits of more than \$250,000 must be collateralized at 105 percent to 150 percent of the value of the deposit to guarantee the safety of the public funds. The Authority does not have a formal investment policy that further limits its deposits.

At year end the Authority had no deposits outside the Del Norte County Treasury.

C. Investments

Under the provisions of the County's investment policy and the California Government Code, the County may invest or deposit in the following:

- Bankers' Acceptances
- Commercial Paper
- Local Agency Investment Fund
- Mutual Funds
- Medium Term Corporate Notes
- Money Market Funds
- Negotiable Certificates of Deposit
- Repurchase Agreements/Reverse Repurchase Agreements
- Securities of the Federal Government or its Agencies

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 3: CASH AND INVESTMENTS (CONTINUED)

C. Investments (Continued)

Interest Rate Risk - Interest rate risk is the risk of loss due to the fair value of an investment falling due to interest rates rising. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the County manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturity evenly over time as necessary to provide the cash flow and liquidity needed for operations. The Authority and County limit its exposure to interest rate risk inherent in its portfolio by limiting individual maturities to 5 years or less.

Credit Risk - Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. State law and County investment policy limit investments in commercial paper to the rating of A1 or better by Standard & Poor's or P-1 or better by Moody's Investor's Service; and corporate bonds to the rating of A or better by both Standard & Poor's and Moody's Investor's Service. The Authority does not have a formal investment policy that would further limit its investment choices.

Custodial Credit Risk for Investments- Custodial credit risk for investments is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or collateral securities that are in the possession of an outside party. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investments in securities through the use of mutual funds or government investment pools.

Concentration of Credit Risk - Concentration of credit risk is the risk of loss attributed to the magnitude of the Authority's investment in a single issuer of securities. When investments are concentrated in one issuer, this concentration presents a heightened risk of potential loss. State law and the investment policy of the County contain limitations on the amount that can be invested in any one issuer. All investments of the Authority are in the County investment pool which contains a diversification of investments.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 4: CAPITAL ASSETS

Capital assets activity for the year ended June 30, 2012, was as follows:

	<u>Balance</u> <u>July 1, 2011</u>	<u>Additions</u>	<u>Retirements</u>	<u>Balance</u> <u>June 30, 2012</u>
Capital Assets, Not Being Depreciated:				
Land	\$ 493,000	\$ -	\$ -	\$ 493,000
Total Capital Assets, Not Being Depreciated	<u>493,000</u>	<u>-</u>	<u>-</u>	<u>493,000</u>
Capital Assets, Being Depreciated				
Equipment	158,444	-	-	158,444
Structures and Improvements	<u>3,408,629</u>	<u>-</u>	<u>-</u>	<u>3,408,629</u>
Total Capital Assets, Being Depreciated	<u>3,567,073</u>	<u>-</u>	<u>-</u>	<u>3,567,073</u>
Less Accumulated Depreciation For:				
Equipment	(141,932)	(6,868)	-	(148,800)
Structures and Improvements	<u>(559,551)</u>	<u>(94,496)</u>	<u>-</u>	<u>(654,047)</u>
Total Accumulated Depreciation	<u>(701,483)</u>	<u>(101,364)</u>	<u>-</u>	<u>(802,847)</u>
Total Capital Assets, Being Depreciated, Net	<u>2,865,590</u>	<u>(101,364)</u>	<u>-</u>	<u>2,764,226</u>
Capital Assets, Net	<u>\$ 3,358,590</u>	<u>(\$ 101,364)</u>	<u>\$ -</u>	<u>\$ 3,257,226</u>

Depreciation

Depreciation expense of \$101,364 was charged to operations.

NOTE 5: LONG-TERM LIABILITIES

The following is a summary of changes in long-term liabilities for the year ended June 30, 2012:

	<u>Balance</u> <u>July 1, 2011</u>	<u>Additions/</u> <u>Adjustments</u>	<u>Retirements/</u> <u>Adjustments</u>	<u>Balance</u> <u>June 30, 2012</u>	<u>Amounts</u> <u>Due Within</u> <u>One Year</u>
Compensated Absences	\$ 49,205	\$ 36,313	\$ 33,188	\$ 52,330	\$ 41,813
Sublease Payable	3,115,691	-	92,396	3,023,295	95,464
Post Closure	2,677,142	-	399,340	2,277,802	-
Net OPEB Obligation	<u>38,906</u>	<u>66,734</u>	<u>19,634</u>	<u>86,006</u>	<u>-</u>
Total Long Term Liabilities	<u>\$ 5,880,944</u>	<u>\$ 103,047</u>	<u>\$ 544,558</u>	<u>\$ 5,439,433</u>	<u>\$ 137,277</u>

Individual issues of debt payable outstanding at June 30, 2012, are as follows:

Sublease Payable:

County of Del Norte Facility Sublease issued May 1, 2004 in the amount of \$3,535,000, due in annual installments of \$78,475 to \$183,454, with an interest rate of 3.32% and maturity of August 1, 2033. The sublease was used to finance the construction of the transfer station

\$ 3,023,295

Total Sublease Payable

\$ 3,023,295

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 5: LONG-TERM LIABILITIES (CONTINUED)

Following is a schedule of debt payment requirements of the business-type activities, excluding compensated absences that have indefinite maturities, postclosure which is reported in Note 6 and Net OPEB obligation which is reported in Note 9.

Year Ended June 30	Sublease Payable		
	Principal	Interest	Total
2013	\$ 95,464	\$ 98,789	\$ 194,253
2014	98,633	95,567	194,200
2015	101,908	92,238	194,146
2016	105,291	88,798	194,089
2017	108,787	85,245	194,032
2018-2022	600,568	368,648	969,216
2023-2027	707,105	260,342	967,447
2028-2032	832,542	132,823	965,365
2033-2037	372,997	12,485	385,482
Total	<u>\$ 3,023,295</u>	<u>\$ 1,234,935</u>	<u>\$ 4,258,230</u>

NOTE 6: POSTCLOSURE

The Authority is responsible for one closed solid waste landfill site. State and federal laws and regulations require the Authority to perform certain maintenance and monitoring functions at the landfill site for thirty years after closure. GASB Statement No. 18 requires a portion of these postclosure care costs be reported as an operating expense in each period based on landfill capacity used as of each statement of net assets date. Since the landfill is no longer accepting waste, the entire estimated expense and liability have been reported.

As of June 30, 2012, the Authority's estimated remaining liability for post closure maintenance costs was \$2,277,802. This amount is based on the amount that would be paid if all equipment, facilities, and services required to monitor the landfill were acquired as of June 30, 2012. Actual costs may be higher due to inflation, change in technology, or changes in regulations. For the year ended June 30, 2012, the Authority received authorization from CalRecycle, pursuant to Section 22111, to reduce the landfill postclosure maintenance multiplier from 30 to 25 times the approved annual postclosure maintenance cost estimate. This reduction in the multiplier resulted in an overall reduction in the postclosure liability of \$399,340.

The Authority is required by the California Code of Regulations to provide financial assurance that appropriate resources will be available to finance postclosure costs in the future. The Authority intends to fund the post-closure liability through a pledge of revenue from the new transfer station/materials recovery facility. The Authority expects that future inflation costs will be paid from interest earnings on these annual contributions. However, if interest earnings are inadequate or additional post-closure requirements are determined (due to changes in technology or applicable laws and regulations or modification in design, for example), these costs may need to be funded through surcharges to future landfill users or from future tax revenues.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 7: NET ASSETS

Net assets are categorized as invested in capital assets (net of related debt), restricted, and unrestricted.

- Invested in capital assets, net of related debt - Consists of capital assets including restricted capital assets, net of accumulated depreciation and reduced by the outstanding balances of any bonds, mortgages, notes or other borrowings that are attributable to the acquisition, construction or improvement of those assets.
- Restricted net assets - Consists of net assets with constraints placed on the use either by (1) external groups such as creditors, grantors, contributors or laws or regulations of other governments; or (2) law through constitutional provisions or enabling legislation.
- Unrestricted net assets - All other net assets that do not meet the definition of “restricted” or “invested in capital assets, net of related debt.”

Net Asset Flow Assumption

When a government funds outlays for a particular purpose from both restricted and unrestricted resources, a flow assumption must be made about the order in which the resources are considered to be applied. When both restricted and unrestricted net assets are available, it is considered that restricted resources are used first, followed by the unrestricted resources.

NOTE 8: EMPLOYEE BENEFITS

A. Employee’s Retirement Plan

The Authority employee’s are covered under the retirement plan of the County of Del Norte.

The County contributes to the California Public Employees Retirement System (PERS), an agent multiple-employer public employee defined benefit plan. PERS provides retirement and disability benefits, annual cost of living adjustments, and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State of California. Benefit provisions and all other requirements are established by statute. Copies of PERS’ annual financial report may be obtained from their executive office – 400 Q Street, Lincoln Plaza East, Sacramento, CA 95811.

Required disclosure information regarding employee’s retirement plan can be found in the County’s audited financial statements.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 9: OTHER POSTEMPLOYMENT BENEFITS (OPEB)

Plan Description

The Authority provides medical and dental benefits for retired employees and their dependents through a self-insured trust administered by Del Norte County. The Authority recently made dental-only coverage available to retirees at age 65 and over. Composite premium rates as of the valuation date are as follows:

Coverage	Employee Only	Employee +1	Employee +2 or more
Medical and Dental	565.61	1,091.62	1,379.41
Post 65 Dental Only	60.00	115.00	165.00

The Authority pays partial premiums for retirees based on years of service with the Authority. For retirees under age 65 with at least 10 years of Authority service (those hired prior to 2007 need only five years of service with the Authority in order to be eligible to receive the discounted premium rates), the Authority covers between 25% and 100% of the premium for the retiree as well as between 25% and 75% of the dependent premiums. Retirees over the age of 65 also receive the benefit of a discounted premium. The following table illustrates the premiums paid by retirees as of the valuation date, with the balance of the premiums paid by the Authority:

Medical Plan Rates Charged to Retiree Effective January 1, 2008						
	Under 65			65 and over		
Years of Service required (if hired after 1/1/2007)	Retiree Only	Retiree & 1 Dep.	Retiree & Family	Retiree Only	Retiree & 1 Dep.	Retiree & Family
Less than 10	Cobra coverage for up to 18 months					
At least 10, but less than 16	\$386.06	\$748.89	\$1,127.20	\$225.00	\$439.91	\$555.15
At least 16, but less than 21	\$257.25	\$559.76	\$875.02	\$200.00	\$414.91	\$530.15
At least 21, but less than 25	\$128.68	\$343.59	\$458.83	\$175.00	\$389.91	\$505.15
At least 25 or more	\$0.00	\$214.91	\$344.50	\$150.00	\$364.91	\$408.15

Funding Policy

As required by GASB 45, an actuary will determine the Authority's Annual Required Contributions (ARC) at least once every two fiscal years. The ARC is calculated in accordance with certain parameters, and includes (1) the Normal Cost for one year, and (2) a component for amortization of the total unfunded actuarial accrued liability (UAAL) over a period not to exceed 30 years.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 9: OTHER POSTEMPLOYMENT BENEFITS (OPEB) (CONTINUED)

Funding Policy (Continued)

In accordance with the Authority's budget, the annual required contribution (ARC) is to be funded by (a) making payments for retiree benefit premiums, (b) making payments for retiree claims and (c) prior to fiscal year end, depositing the remaining amount of the ARC, if any, to the OPEB trust. Concurrent with implementing Statement No. 45, the Authority Board of Commissioners passed a resolution to participate in the California Employers Retirees Benefit Trust (CERBT), an irrevocable trust established to fund OPEB. CERBT is administered by CalPERS, and is managed by an appointed board not under the control of the Authority. This Trust is not considered a component unit of the Authority and has been excluded from these financial statements. Separately issued financial statements for CERBT may be obtained from CALPERS at P.O. Box 942709, Sacramento, CA 94229-2709.

Annual OPEB Cost and Net OPEB Obligation

The following table shows the components of the Authority's annual OPEB costs for the year, the amount actually contributed to the plan, and changes in the Authority's net OPEB obligation.

	Fiscal Year Ending June 30, 2012
Annual required contribution	\$ 66,578
Interest on net OPEB obligation	2,140
ARC adjustment	(1,984)
Annual OPEB cost	66,734
Contributions Made:	
Pay as you go contribution	19,634
Change in net OPEB obligation	47,100
Net OPEB Obligation - Beginning of Year	38,906
Net OPEB Obligation - End of Year	\$ 86,006

The Authority's Annual OPEB Cost, the percentage of Annual OPEB cost contributed to the plan, and the Net OPEB Obligation for the year ended June 30, 2012 is as follows:

Fiscal Year Ended	Annual OPEB Cost	Actual Contribution	Percentage of Annual OPEB Cost Contributed	Net OPEB Obligation/ (Asset)
June 30, 2010	\$ 44,810	\$ 44,810	100%	\$ 0
June 30, 2011	46,266	7,360	16%	38,906
June 30, 2012	66,734	19,634	29%	86,006

Funded Status and Funding Progress

As of July 1, 2010, the most recent actuarial valuation date, the plan was 10.14 percent funded. The actuarial accrued liability for benefits was \$496,317 and the actuarial value of assets was \$50,349, resulting in an unfunded actuarial accrued liability (UAAL) of \$445,968. The covered payroll (annual payroll of employees covered by the plan) was \$304,393, and the ratio of the UAAL to the covered payroll was 68.25 percent.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 9: OTHER POSTEMPLOYMENT BENEFITS (OPEB) (CONTINUED)

Funded Status and Funding Progress (Continued)

Actuarial valuations of an ongoing plan involve estimates of the value of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Actuarial amounts determined regarding the funded status of the plan and the Annual Required Contributions of the Authority are subject to revision at least biannually as actual results are compared with past expectations and new estimates are made about the future. The Schedule of Funding Progress, presented as required supplementary information following the notes to the financial statements, presents multi-year trend information (as it becomes available) that shows whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

Actuarial Methods and Assumptions

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

The most recent valuation was performed as of July 1, 2010. The assumptions used for this valuation are in accordance with CalPers' "OPEB Assumption Model", which describes guidelines to be used for retiree healthcare valuations for plans intending to pre-fund benefits through California Employers' Retiree Benefit Trust (CERBT).

In the July 1, 2010 actuarial valuation, the entry age normal actuarial cost method was used. The actuarial assumptions included a 7.50% investment rate of return, payroll increases of 3.25%, and assumed health inflation of 10% graded down to 5.0% over 10 years. The OPEB plan's unfunded actuarial liability is being amortized over a closed, 27-year amortization period and level percent of pay basis beginning in the 2011/12 fiscal year.

NOTE 10: RISK MANAGEMENT

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Authority purchases coverage from a private insurance company. In addition, they participate in the County liability program. Settled claims have not exceeded this commercial coverage in any of the past three fiscal years. As of June 30, 2012, the Authority did not have landfill insurance.

NOTE 11: RELATED PARTY TRANSACTIONS

The Authority has related party transactions with the County of Del Norte. During the year ended June 30, 2012, the Authority paid the County \$2,573 for liability insurance and \$56,000 for health insurance.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Notes to Basic Financial Statements
For the Year Ended June 30, 2012

NOTE 12: OTHER INFORMATION

A. Subsequent Events

Management has evaluated events subsequent to June 30, 2012 through June 7, 2013, the date on which the financial statements were available for issuance. Management has determined no subsequent events requiring disclosure have occurred.

THIS PAGE INTENTIONALLY LEFT BLANK

Required Supplementary Information
(Unaudited)

THIS PAGE INTENTIONALLY LEFT BLANK

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Required Supplementary Information
For the Year Ended June 30, 2012

SCHEDULE OF FUNDING PROGRESS - OTHER POSTEMPLOYMENT BENEFITS (OPEB)

The Schedule of Funding Progress - Other Postemployment Benefits (OPEB) presents a consolidated snapshot of the Authority's ability to meet current and future liabilities with the plan assets. Of particular interest to most is the funded status ratio. This ratio conveys a plan's level of assets to liabilities, an important indicator to determine the financial health of the OPEB plan. The closer the plan is to a 100% funded status, the better position it will be in to meet all of its future liabilities.

The table below shows a one year analysis of the actuarial value of assets as a percentage of the actuarial accrued liability and the unfunded actuarial accrued liability as a percentage of the annual covered payroll as of July 1, 2010 for the Authority Other Postemployment Benefit Plan. As additional years are available, a three year trend analysis will be presented.

Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Liability (AAL) Entry Age	Unfunded AAL (UAAL)	Funded Ratio	Covered Payroll	UAAL as a Percentage Of Covered Payroll
July 1, 2008	\$ -	\$ 316,913	\$ 316,913	-	\$ 259,431	81.86%
July 1, 2010	50,349	496,317	445,968	10.14%	304,393	68.25%

THIS PAGE INTENTIONALLY LEFT BLANK

OTHER REPORT AND SCHEDULES

- **Other Report**
- **Schedule of Findings and Recommendations**
- **Status of Prior Year Recommendations**

THIS PAGE INTENTIONALLY LEFT BLANK

INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

To the Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

We have audited the financial statements of the proprietary fund of the Del Norte Solid Waste Management Authority, Crescent City, California (Authority), as of and for the year ended June 30, 2012, which collectively comprise the Authority's basic financial statements and have issued our report thereon dated June 7, 2013. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States.

Internal Control Over Financial Reporting

Management of the Authority is responsible for establishing and maintaining effective internal control over financial reporting. In planning and performing our audit, we considered the Authority's internal control over financial reporting as a basis for designing our auditing procedures for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control over financial reporting.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented or detected and corrected on a timely basis.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be deficiencies, significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above. However, we identified certain deficiencies in internal control over financial reporting, described in the accompanying Schedule of Findings and Recommendations that we consider to be significant deficiencies in internal control over financial reporting. (12-FS-01 and 12-FS-02) A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

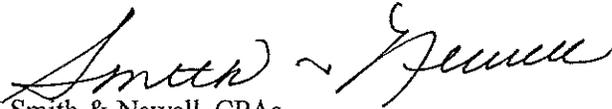
To the Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under Government Auditing Standards.

The Authority's responses to the findings identified in our audit are described in the accompanying Schedule of Findings and Recommendations. We did not audit the Authority's responses, and accordingly, we express no opinion on them.

This report is intended solely for the information and use of management, the Board of Commissioners, others within the entity, and federal awarding agencies and pass through entities and is not intended to be and should not be used by anyone other than these specified parties.



Smith & Newell, CPAs
Yuba City, California
June 7, 2013

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Schedule of Findings and Recommendations
For the Year Ended June 30, 2012

12-FS-01 Deficit Net Assets (Significant Deficiency)

Condition

The charges for services were not sufficient to cover post closure liability and debt service requirements and the Authority had a net asset deficit. This is a repeat of a prior year finding.

Cause

The Authority's rates charged to customers were not adequate to cover post closure costs and debt service requirements.

Criteria

Prudent management of Authority resources requires that charges for services be adequate to cover the cost of providing the service.

Effect of Condition

The Authority had inadequate reserves to settle the estimated accrued liabilities.

Recommendation

We recommend that the Authority consider all expenses including depreciation and post closure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.

Corrective Action Plan

Transfer Station Rates were increased in July 2011 to provide adequate revenue to fund operating expenses, including depreciation and transfer station finance payments.

During FYE 2012, Post-Closure Liability was reduced from \$2,733,362 to \$2,277,802. This was accomplished by submitting a request to CalRecycle and securing approval for a 5 year reduction in our remaining post-closure maintenance period. In FYE 2013 we have secured further reduction of one year to reflect the remaining 24 years of Post-Closure Maintenance. Current Post-Closure Liability has been reduced an additional \$92,752 to a remaining balance of \$2,226,050.

The Del Norte Solid Waste Management Authority has a post-closure liability funding mechanism, approved by CalRecycle, which allows for a Pledge of Revenue from the transfer station to pay for expenses related to post-closure maintenance. This is a legally approved method for funding post-closure maintenance.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Schedule of Findings and Recommendations
For the Year Ended June 30, 2012

12-FS-02 Revenue Collections (Significant Deficiency)

Condition

At the time of our fieldwork we noted that approximately \$27,000 collected in July 2012 was reported as collected in June to cover shortages and also included in the accounts receivable accrual for June 30, 2012.

Cause

Weak internal controls and lack of review of cash handling procedures allowed inappropriate cash handling to occur.

Criteria

Cash collections should be reported intact and in the period in which it is received.

Effect of Condition

Accounts receivable and revenues were overstated approximately \$27,000 at June 30, 2012.

Recommendation

We recommend that cash collections be deposited intact and in the period in which it was received.

Corrective Action Plan

An adjustment was made in October 2012 to write off the difference between cash on hand and collections in prior periods. Deposits are now made whole, intact and in a timely manner.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
Status of Prior Year Recommendations
For the Year Ended June 30, 2012

<u>Audit Reference</u>	<u>Status of Prior Year Audit Recommendation</u>
11-FS-01	<p>Restricted Net Assets</p> <p>Recommendation</p> <p>We recommend that the Authority and County of Del Norte review the facility lease and reserve requirements to determine the proper entity to hold the reserve fund and fund the reserve accordingly.</p> <p>Status</p> <p>The County and Authority are resolving this finding.</p>
11-FS-02	<p>Deficit Net Assets</p> <p>Recommendation</p> <p>We recommend that the Authority consider all expenses including depreciation and post closure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.</p> <p>Status</p> <p>Not Implemented</p>
11-FS-03	<p>Retiree Benefit Payments</p> <p>Recommendation</p> <p>We recommend that the Authority and County of Del Norte review the retiree medical payments and determine the proper entity to pay the retiree benefits.</p> <p>Status</p> <p>Implemented</p>

THIS PAGE INTENTIONALLY LEFT BLANK



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

Staff Report

Date: 17 June 2013
To: Commissioners of the Del Norte Solid Waste Management Authority
From: Tedd Ward, Program Manager *Tedd*
Subject: Erosion Repairs at the Crescent City Landfill

Recommendation: Status report, no action required.

Background: At the March 2013 Authority meeting, staff reported on the erosion sustained at the Crescent City Landfill this past winter, and the need to repair this damage. All repairs were completed in May 2013. Gino Yekta of the California Department of Resources, Recycling and Recovery (CalRecycle) inspected the landfill and these repairs on 24 June 2013

Analysis: Authority staff, in coordination with County Engineer Jim Barnts, developed the attached Staff Report regarding Maintenance and Repair Strategies, and submitted that to concerned staff from CalRecycle and the North Coast Regional Water Quality Control Board. Eric Lauchstedt of the County Engineering Department produced the As-built drawings.

These repairs have been completed and the exposed areas seeded with a mixture of grasses. Grass is growing. No further action is required at this time.

Program Manager Ward and Eric Laughstedt intend to inspect the landfill again during a major storm after the ground is saturated with water to observe how these new drainage structures perform under such severe conditions.

Fiscal Impact: The total cost for these repairs, not including Authority staff time, was \$12,129.01. This includes \$8,987.75 for equipment and labor from the Road Department, \$2,916.12 for assistance from the Engineering and Surveying Department, and \$225.14 for supplies like grass seed and straw.

Attachments:

1. **As-Built Drawings of Drainage Failure Repair**
2. **Authority Staff Report of 10 May 2013 regarding Maintenance and Repair Strategies at the Crescent City Landfill**

13 January 2012

1 Printed on >30% post-consumer recycle
~~I:\Tedd\LANDFILL\Post-Closure\Maintenance-Records\20130617 Repairs-Complete.doc~~

A Joint Powers Authority of

the City of Crescent City and County of Del Norte

& member, North Coast Recycling Market Development Zone

4.1


100% recycled paper



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

Staff Report

Date: 10 May 2013

To: Gina Morrison, RWQCB, North Coast Region
Gino Yekta, CalRecycle

cc: Commissioners of the Del Norte Solid Waste Management Authority

From: Jim Barnts, Del Norte County Engineer
Tedd Ward, DNSWMA Program Manager *Tedd*

Subject: Maintenance and Repair Strategies at the Crescent City Landfill

As you are aware, heavy rainfall has resulted in significant erosion on the northeastern slopes of the Crescent City Landfill, exposing areas of drainage geomesh and damaging subsurface and surface drainage structures. The purpose of this Staff Report is to inform you of our plans to repair these structures, to re-establish functional surface and sub-surface drainage systems, regrading the sideslope and top-deck berms, and revegetating the graded areas.

As County Engineer, I do not feel we have adequate information at this time to design and engineer additional drainage structures for this facility, and so our approach to this repair this summer will be enhanced maintenance. I understand that erosion issues in these areas have been increasingly severe in recent winters, but observations of flows during downpours when cover soils at the landfill are saturated is essential information before additional drainage structures (if any are required) can be designed. So my general approach will be to repair the landfill to the design of the approved Closure Plan, and to make sure we observe the landfill during such storm conditions this coming winter. We intend to restore the landfill drainage structures and grades as described in the Crescent City Landfill Closure and Post-closure Maintenance Plan (Closure Plan), with much of the work to be completed this month.

13 January 2012

1 Printed on >30% post-consumer recycled paper

I:\Tedd\LANDFILL\Post-Closure\Maintenance Records\20130510 Repair Approach JB.doc

A Joint Powers Authority of

the City of Crescent City and County of Del Norte
& member, North Coast Recycling Market Development Zone

Printed on minimum
30% post-consumer



100% recycled paper

Our construction sequence will be to repair the sub-surface drainage structures, to replace the eroded vegetative layer soils, regrade the side slopes including the drainage berms on the sideslopes, reposition and/or replace the support blocks for surface drain pipes inlets and connections, repair the surface drain pipes, and reseed with a mix of grasses.

In an effort to impede such erosion events in future, I am directing the Road Department crews to use materials eroded from the landfill vegetative layer and excavated from the settling basins to re-establish the grades described in the Closure Plan.

For re-establishing the berms at the shoulder point, directing surface water runoff flows to drop inlets to the surface downdrains, I am directing our crews to re-establish crest berms (see drawing) using soils with a higher clay content to reduce the potential for breaching of these berms by burrowing animals and/or stormwater flows. Del Norte County's Engineering Technician Rick Lauchstedt will survey the flow lines to the drop inlets so these berms are placed in a way that avoids ponding. After grading is completed, Rick will prepare as-built drawings, which we will forward to you, for locations (if any) where the repairs deviate from the Closure Plan.

After grading, Authority staff will seed exposed area with a mix of grasses for revegetation.

This coming winter, the Authority's Program Manager and Del Norte County's Engineering Technician are to inspect the landfill during a downpour when soils are saturated to gather information for additional drainage structure design, if needed.



COUNTY OF DEL NORTE
COMMUNITY DEVELOPMENT DEPARTMENT

981 "H" Street, Suite 110
Crescent City, California 95531

Fax (707) 465-0340

Planning
(707) 464-7254

Engineering & Surveying
(707) 464-7229

Roads
(707) 464-7238

Building Inspection
(707) 464-7253

Environmental Health
(707) 465-0426

May 22, 2013

Mr. Tedd Ward
Program Manager
Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

Re: Landfill Drainage Failure Repair

Dear Tedd,

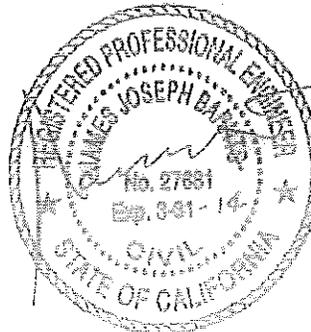
I was directly responsible for the remediation work that was necessary after the failure of many drainage features at the Del Norte County Landfill. That remediation work was carried out under my direction and in accordance with the Final CPCMP and corresponding specification.

Having been directly involved in the remediation work I can certify that the integrity of the liner was not compromised during that remediation effort. The scope of our work did not include removing the soil cover, from the areas that experienced settlement, and inspecting the membranes. Since these membranes are designed to move with the settlement we believe that they are still sound. It is my professional opinion that removing the cover and inspecting the membranes endangers the integrity of the membranes.

If I can provide any additional information please contact me.

Sincerely,

James Barnis
County Engineer



APPLICATION FOR SOLID WASTE FACILITY PERMIT/WASTE DISCHARGE REQUIREMENTS

CIWMB E-1-77 (Rev. 8-04)

NOTE: This form has been developed for multiple uses. It is the transmittal sheet for documents required to be submitted to the appropriate agency. Please refer to the attached instructions for definitions of terms and for completing this application form in a complete and correct manner.

FOR OFFICIAL USE ONLY

SWIS NUMBER:	FILING FEE:	RECEIPT NUMBER:	DATE RECEIVED:
DATE ACCEPTED:	DATE REJECTED:	ACCEPTANCE DATE OF INCOMPLETE APPLICATION:	DATE DUE:

Part 1. GENERAL INFORMATION

A. ENFORCEMENT AGENCY: County of Del Norte, Community Development Department

B. COUNTY: Del Norte

C. TYPE OF APPLICATION (Check one box only):

1. NEW SWFP and/or WDRS

2. REVISION OF SWFP and/or WDRS

3. EXEMPTION and/or WAIVER

4. PERMIT REVIEW

5. AMENDMENT OF APPLICATION

6. RFI/ROWD/JTD AMENDMENTS

Part 2. FACILITY DESCRIPTION

A. NAME OF FACILITY: Crescent City Landfill

B. LOCATION OF FACILITY:

1. PHYSICAL ADDRESS OR LOCATION AND ZIP CODE: End of Hights Access Road off Old Mill Road, Crescent City, CA 95531

2. LATITUDE AND LONGITUDE: 41.79444 and -124.23056

3. LEGAL DESCRIPTION OF PERMITTED BOUNDARY BY SECTION, TOWNSHIP, RANGE, BASE, AND MERIDIAN, IF SURVEYED: Section 7, Township 16 North (T16N), Range 1 West (R1W), Humbolt Baseline and Meridian

C. TYPE OF ACTIVITY: (Check applicable boxes):

1. DISPOSAL

2. COMPOSTING

3. TRANSFORMATION

4. TRANSFER/PROCESSING FACILITY

5. OTHER (describe): Closed Class III Landfill

a. TYPE: _____

a. TYPE: _____

CHECK HERE IF RECYCLABLE MATERIALS ARE RECOVERED PRIOR TO TRANSFER/PROCESSING.

D. CONFORMANCE FINDING INFORMATION (CIWMP):

1. FACILITY IS IDENTIFIED IN (Check one):

SITING ELEMENT DATE OF DOCUMENT March 1998 PAGE # 7

NONDISPOSAL FACILITY EL DATE OF DOCUMENT _____ PAGE # _____

2. FACILITY IS NOT REQUIRED TO BE IDENTIFIED IN SITING ELEMENT OR NONDISPOSAL FACILITY ELEMENT

E. TYPE OF PERMITTED WASTES TO BE RECEIVED: (Check applicable boxes):

1. AGRICULTURAL

2. ASBESTOS Friable Non-friable

3. ASH

4. AUTO SHREDDER

5. COMPOSTABLE MATERIAL (describe): _____

6. CONSTRUCTION/DEMOLITION

7. CONTAMINATED SOILS

8. DEAD ANIMALS

9. INDUSTRIAL

10. INERT

11. LIQUIDS

12. MIXED/MUNICIPAL SOLID WASTE

13. SEWAGE SLUDGE

14. TIRES

15. OTHER (describe): Not Applicable (Closed Landfill)

4.2

Part 3. FACILITY INFORMATION

A. PROPOSED CHANGE (Check applicable box(es)):

- 1. DESIGN (describe): _____
- 2. OPERATION (describe): _____
- 3. OWNER, OPERATOR, ADDRESS, AND/OR FACILITY NAME CHANGE (describe): _____
- 4. OTHER (describe): No changes proposed. Application is for permit review purposes only.

B. FACILITY INFORMATION:

1. INFORMATION APPLICABLE TO ALL FACILITIES:

- a. PEAK DAILY TONNAGE OR CUBIC YARDS Not Applicable (Closed Landfill)
 - 1) DISPOSAL/TRANSER (unit) _____
 - 2) OTHER (unit) _____
- b. DAILY DESIGN TONNAGE (TPD) Not Applicable (Closed Landfill)
- c. FACILITY SIZE (acres) 23 acres
- d. PEAK TRAFFIC VOLUME PER DAY (vpd) Not Applicable (Closed Landfill)
- e. DAYS AND HOURS OF OPERATION Not Applicable (Closed Landfill)

2. ADDITIONAL INFO. REQUIRED FOR COMPOSTING FACILITIES ONLY:

- a. SITE STORAGE CAPACITY (cu yds) _____

3. ADDITIONAL INFORMATION REQUIRED FOR LANDFILLS ONLY:

- a. AVERAGE DAILY TONNAGE (TPD) Not Applicable (Closed Landfill)
- b. SITE CAPACITY CURRENTLY PERMITTED (Airspace) (cu yds) Not Applicable (Closed Landfill)
- c. SITE CAPACITY PROPOSED (Airspace) (cu yds) Not Applicable (Closed Landfill)
- d. SITE CAPACITY USED TO DATE (Airspace) (cu yds) Not Applicable (Closed Landfill)
- e. SITE CAPACITY REMAINING (Airspace) (cu yds) Not Applicable (Closed Landfill)
- f. DATE OF CAPACITY INFORMATION (Date) (See Instructions): Not Applicable (Closed Landfill)
- g. LAST PHYSICAL SITE SURVEY (Date) January 2, 2011
- h. ESTIMATED CLOSURE DATE (month and year) Stopped receiving waste in March 2005. Final closure completed in February 2006.
- i. DISPOSAL FOOTPRINT (acres) 23 acres
- j. SITE CAPACITY PLANNED (cu yds) Not Applicable (Closed Landfill)
- k. 1. (i) IN-PLACE WASTE DENSITY (lbs of waste per cu yd of waste) 750 to 1,100 pounds per cubic yard
AND
(ii) WASTE-TO-COVER RATIO (Estimated) (v:v) _____
OR
2. AIRSPACE UTILIZATION FACTOR (tons of waste per cu yd of landfill airspace) 0.38 tons of waste per cubic yard

Part 4. SOURCE OF WATER SUPPLY(Check applicable boxes)

Not Applicable (Closed Landfill)

- A. MUNICIPAL OR UTILITY SERVICE: _____
- B. INDIVIDUAL (wells): _____
- C. SURFACE SUPPLY:
 - 1. NAME OF STREAM, LAKE, ETC. : _____
 - 2. TYPE OF WATER RIGHTS:
 - RIPARIAN
 - APPROPRIATION
 - 3. STATE PERMIT OR LICENSE NUMBER , IF APPLICABLE: _____

Part 5. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)Check applicable boxes)

- A. CHECK BOX(ES) IF ENVIRONMENTAL DOCUMENT WAS OR WILL BE PREPARED FOR THIS PROJECT AND PROVIDE THE STATE CLEARINGHOUSE NUMBER (SCH#):

ENVIRONMENTAL IMPACT REPORT (EIR) SCH# _____

NEGATIVE DECLARATION (ND)/MITIGATED NEGATIVE DECLARATION (MND) SCH# 99032023

ADDENDUM TO (Identify environmental document) _____ SCH# _____

B. IF ENVIRONMENTAL DOCUMENT(S) WAS NOT PREPARED, PLEASE PROVIDE THE FOLLOWING INFORMATION:

CATEGORICAL/STATUTORY EXEMPTION (CE/SE)
EXEMPTION TYPE _____ GUIDELINE # _____

Part 6. LIST OF ATTACHMENTS (Fill in the date for each document checked)

A. REQUIRED WITH ALL APPLICATION SUBMITTALS:

<input type="checkbox"/> RFI/JTD _____	<input checked="" type="checkbox"/> ENVIRONMENTAL DOCUMENT(S):
<input type="checkbox"/> LOCAL USE/PLANNING PERMITS _____	<input type="checkbox"/> EIR _____
<input checked="" type="checkbox"/> LOCATION MAP <u>See Attached</u>	<input type="checkbox"/> MND/ND <u>SCH# 99032023</u>
<input type="checkbox"/> MITIGATION MONITORING IMPLEMENTATION SCHEDULE _____	<input type="checkbox"/> EXEMPTION _____
	<input type="checkbox"/> ADDENDUM _____

B. ADDITIONAL REQUIRED DOCUMENTS FOR LANDFILLS ONLY:

<input type="checkbox"/> OPERATING LIABILITY FINANCIAL MECHANISM <u>Not Applicable</u>	<input checked="" type="checkbox"/> FINANCIAL RESPONSIBILITY DOCUMENTATION <u>Resolution No. 2008-04</u>
<input checked="" type="checkbox"/> CLOSURE/POST CLOSURE MAINTENANCE PLAN	<input type="checkbox"/> LANDFILL CAPACITY SURVEY RESULTS (see instructions) <u>Not Applicable</u>
<input type="checkbox"/> PRELIMINARY _____	
<input type="checkbox"/> FINAL <u>June 19, 2013 (Final Postclosure Maintenance Plan, Updated)</u>	

C. IF APPLICABLE:

Not Applicable

<input type="checkbox"/> REPORT OF WASTE DISCHARGE _____	<input type="checkbox"/> DEPT. OF HEALTH SERVICES PERMIT _____
<input type="checkbox"/> CONTRACT AGREEMENTS _____	<input type="checkbox"/> SWAT (Air and water) _____
<input type="checkbox"/> STORMWATER PERMIT APPLICATION _____	<input type="checkbox"/> WETLANDS PERMITS _____
<input type="checkbox"/> NPDES PERMIT APPLICATION _____	<input type="checkbox"/> VERIFICATION OF FIRE DISTRICT COMPLIANCE _____
<input type="checkbox"/> OTHER _____	

Part 7. OWNER INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:	
<input type="checkbox"/> SOLE PROPRIETORSHIP	<input type="checkbox"/> PARTNERSHIP
<input type="checkbox"/> CORPORATION	<input checked="" type="checkbox"/> GOVERNMENT AGENCY
OWNER(S) OF LAND (Name): <u>County of Del Norte</u>	SSN OR TAX ID # <u>94-2254126</u>
ADDRESS, CITY, STATE, ZIP <u>981 H Street, Suite 110, Crescent City, CA 95531</u>	TELEPHONE #: <u>(707) 464-7229</u>
	FAX #: <u>(707) 465-0340</u>
	E-MAIL ADDRESS: <u>jbarnts@co.del-norte.ca.us</u>
	CONTACT PERSON (Print Name): <u>Jim Barnts, County Engineer</u>

Part 8. OPERATOR INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:	
<input type="checkbox"/> SOLE PROPRIETORSHIP	<input type="checkbox"/> PARTNERSHIP
<input type="checkbox"/> CORPORATION	<input checked="" type="checkbox"/> GOVERNMENT AGENCY
FACILITY OPERATOR(S)	SSN OR TAX ID #

(Name):

Del Norte Solid Waste Management Authority

94-2254126

ADDRESS, CITY, STATE, ZIP

1700 State Street, Crescent City, CA 95531

TELEPHONE #:

(707) 465-1100

FAX #:

(707) 465-1300

E-MAIL ADDRESS:

kevin@recycledelnorte.ca.gov

CONTACT PERSON (Print Name):

Kevin Hendrick, Director

ADDRESS WHERE LEGAL NOTICE MAY BE SERVED:

Del Norte Solid Waste Management Authority, 1700 State Street, Crescent City, CA 95531

Part 9. SIGNATURE BLOCK

Owner: County of Del Norte

I certify under penalty of perjury that the information I provided for this application and for any attachments is true and accurate to the best of my knowledge and belief. I am aware that the operator intends to operate a solid waste facility at the site specified above pursuant to this application and understand that I may be responsible for the site should the operator fail to meet applicable requirements.

SIGNATURE (LAND OWNER OR AGENT):

PRINTED NAME:

Jim Barnts

TITLE: County Engineer

DATE:

Operator: Del Norte Solid Waste Management Authority

I certify under penalty of perjury that the information contained in this application and all attachments are true and accurate to the best of my knowledge and belief.

SIGNATURE (FACILITY OPERATOR OR AGENT):

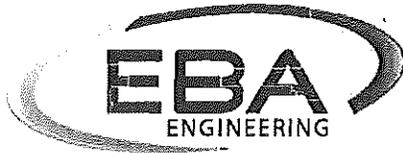
PRINTED NAME:

Kevin Hendrick

TITLE: Director

DATE:

Part 10. OTHER (Attach additional sheets to explain any responses that need clarification).



June 19, 2013

Mr. Tedd Ward, Program Manager
Del Norte Solid Waste Management Authority (Authority)
1700 State Street
Crescent City, CA 95531

**RE: FINAL POSTCLOSURE MAINTENANCE PLAN UPDATE
CRESCENT CITY LANDFILL, DEL NORTE COUNTY, CALIFORNIA
EBA JOB No. 13-1902 (TASK A3)**

Dear Mr. Ward:

EBA Engineering (EBA) has reviewed the existing Final Postclosure Maintenance Plan (FPMP) and associated amendment prepared by Brown, Vence & Associates (BV&A) dated November 1995 and May 2005, respectively, for the Crescent City Landfill (Landfill) as part of the permit review process mandated by the Del Norte County Local Enforcement Agency (LEA) and California Department of Resources Recycling and Recover (CalRecycle). The purpose of EBA's review was to evaluate the existing plans to determine the need for potential modifications and/or additions based on current site conditions and requirements set forth in Title 27 of the California Code of Regulations (27CCR). Findings from EBA's review found the existing documents to be generally compliant with the postclosure maintenance requirements stipulated in 27CCR and revealed no basis for substantive changes, with the exception of updating miscellaneous monitoring and contact information that has changed since the previous submittals and to bring current the postclosure maintenance cost estimate. The following sections summarize the noted revisions.

WATER MONITORING

The existing FPMP was developed under Monitoring and Reporting (M&RP) No. 94-135 as issued by the California Regional Water Quality Control Board, North Coast Region (RWQCB) on December 8, 1994. That permit has since been replaced by M&RP No. 97-90. Since adoption of M&RP No. 97-90, the groundwater monitoring network has increased from ten to 17 monitoring wells. Conversely, the monitoring and reporting frequency has been reduced from quarterly to semi-annual. Minor changes have also occurred for leachate, surface water, and storm water monitoring. Please refer to Figure 1 (Attachment 1) for an updated site plan illustrating the various water monitoring locations. Table 1 (Attachment 2), in turn, provides an updated monitoring schedule that summarizes the respective monitoring and reporting frequencies and scope of field/laboratory testing required under M&RP No. 97-90.

GAS MONITORING

Since preparation of the existing FPMP, the gas monitoring network has been expanded to include 17 gas monitoring points (GMP-1 through GMP-17), in addition to eight gas compliance wells. The gas compliance wells are monitored and reported on a quarterly basis in accordance with 27CCR, §20933 and §20934. Although the gas monitoring points are not part of the Landfill's 27CCR monitoring network, they are monitored in the same manner and at the same frequency as the gas compliance wells. Please refer to Figure 2 (Attachment 1) for an updated site plan illustrating the various gas monitoring locations and Table 1 (Attachment 2) for the corresponding monitoring schedule that summarizes the respective monitoring and reporting frequencies.

In addition to the aforementioned gas monitoring network, the Landfill is equipped with a passive gas collection system. This system consists of 47 surface vents that are interconnected via an underground conveyance piping network. The locations of the respective surface vents are shown on Figure 3 (Attachment 1).

INSPECTIONS

An updated inspection schedule is presented as Table 2 (Attachment 2). This schedule integrates the inspections currently described in the existing FPMP with the required inspections and frequencies stipulated in M&RP No. 97-90. The updated schedule also provides descriptions for the various types of inspections and the corresponding reporting frequencies.

CONTACT INFORMATION

Table 3 (Attachment 2) provides updated contact information for the various references outlined in the existing FPMP and the associated Emergency Response Plan (ERP). The nature of the information provided includes responsible parties, emergency response contacts and notifications for fires, explosions and/or other qualifying incidents, and regulatory notifications. Also provided are names and telephone numbers for the acquisition of emergency response equipment.

POSTCLOSURE MAINTENANCE COST ESTIMATE

The postclosure maintenance cost estimate presented in the existing FPMP was reviewed and updated as appropriate to account for any changes that have occurred and to generate costs for implementation in 2013 dollars. Costs were developed based on relevant experience, recently bid projects of similar scope, cost quotations from vendors, and RS Means[®] cost data (2013). An Eastin Bill cost estimate worksheet and supporting spreadsheet are enclosed in Attachment 3. As presented in Attachment 3, the updated annual cost for postclosure maintenance is \$96,225, which equates to a total postclosure maintenance cost of \$2,213,185 for the remaining 23 years of the postclosure maintenance period. The updated annual cost is approximately \$23,300 per

year less than the previous annual cost estimate of \$88,299 when adjusted for inflation (\$119,530). The reason for the decrease can be attributed primarily to the reduction in groundwater level monitoring from weekly to semi-annual, and groundwater sampling from quarterly to semi-annual.

CLOSING

EBA appreciates the opportunity to be of service to the Authority on this project. If you should have any questions regarding the information contained herein, please do not hesitate to contact our office at (707) 544-0784.

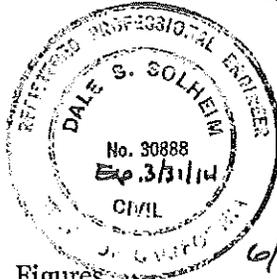
Sincerely,
EBA ENGINEERING



Mike Delmanowski, C.E.G., C.Hg.
Senior Hydrogeologist



Dale Solheim, P.E.
Principal Engineer



Enclosures: Attachment 1 - Figures
Attachment 2 - Tables
Attachment 3 - Postclosure Maintenance Cost Estimate

6/19/13

REFERENCES

Brown, Vence & Associates, November 1995, *Crescent City Landfill Final Closure and Postclosure Maintenance Plan*; Prepared for Del Norte Waste Management Authority by Brown, Vence & Associates, Roseville, California.

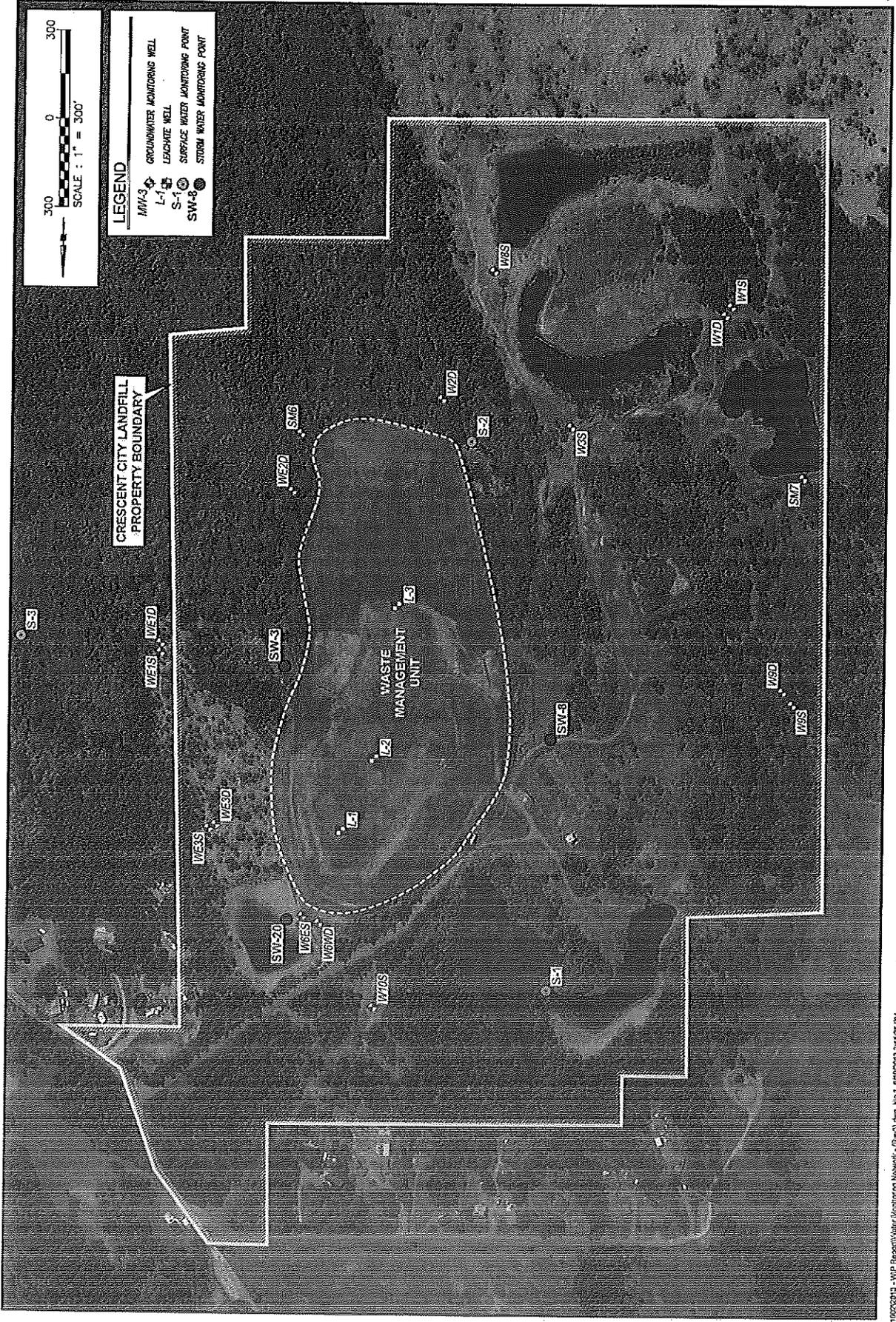
Brown, Vence & Associates, May 9, 2005, *Crescent City Landfill Final Closure and Postclosure Maintenance Plan, Amendment One*; Prepared for Del Norte Waste Management Authority by Brown, Vence & Associates, Roseville, California.

RS Means®, 2013, *Site Work & Landscape Cost Data*, 32nd Annual Edition.

ATTACHMENT 1

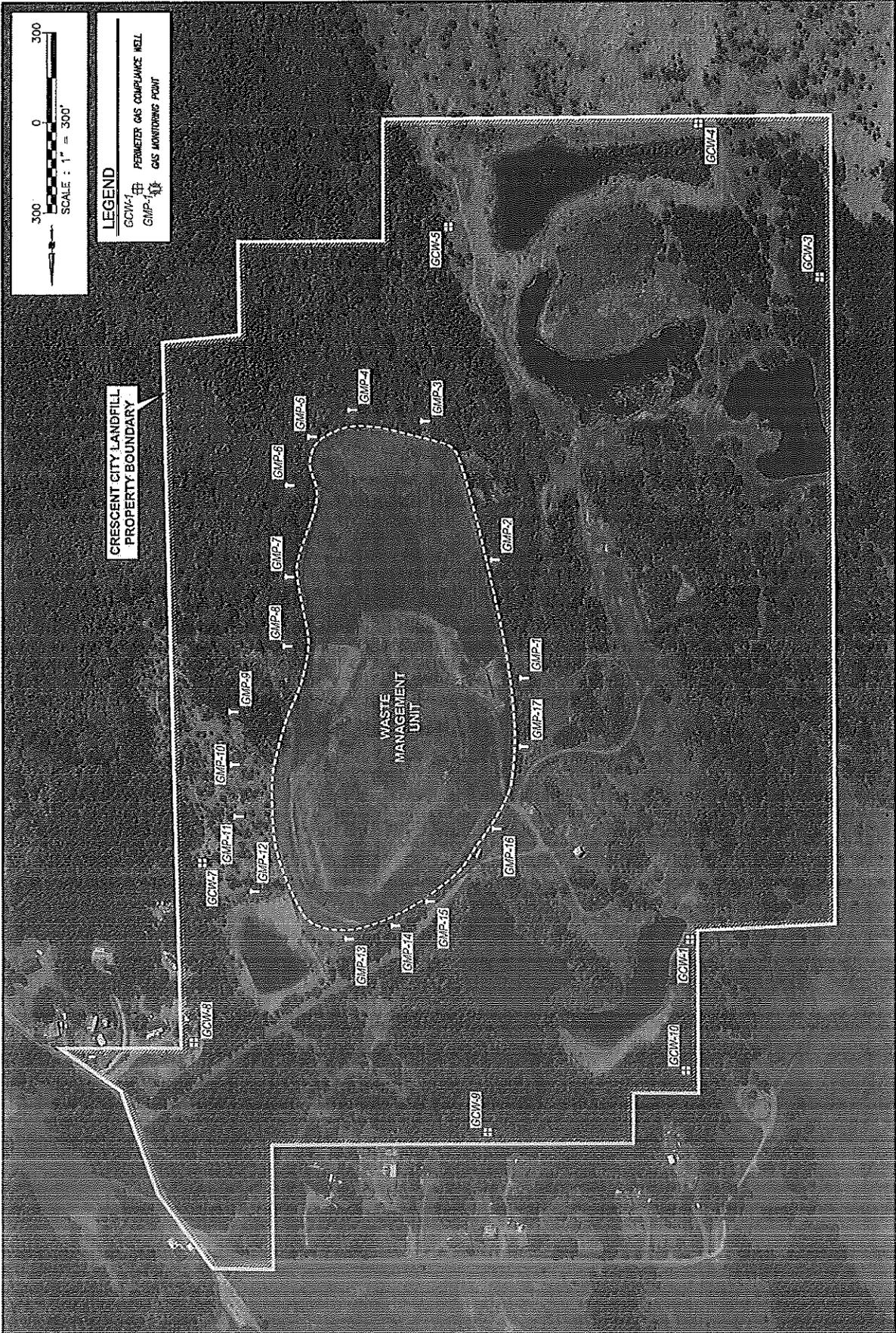
FIGURES

WATER MONITORING NETWORK
CRESCENT CITY LANDFILL
DEL NORTE COUNTY, CALIFORNIA



GAS MONITORING NETWORK
CRESCENT CITY LANDFILL
DEL NORTE COUNTY, CALIFORNIA

FIGURE
2
13-1902



PASSIVE GAS COLLECTION SYSTEM



ATTACHMENT 2

TABLES

TABLE 1
FINAL POSTCLOSURE MAINTENANCE
ENVIRONMENTAL MONITORING SCHEDULE
CRESCENT CITY LANDFILL

<i>Groundwater⁽¹⁾</i>			
<i>Identification</i>	<i>Monitoring Frequency</i>	<i>Field / Laboratory Testing</i>	<i>Reporting Frequency</i>
<i>Shallow Wells:</i> W1S, W3S, W6ES, W8S, W9S, W10S, WB1S, WE3S, SM7	Semi-Annual	<i>Depth to Water:</i> All Wells (shallow, marsh layer and deep)	Semi-Annual
<i>Marsh Layer Wells:</i> SM6, W6WD	Semi-Annual	<i>Laboratory Testing:</i> All Wells (shallow, marsh layer and deep) Volatile Organic Compounds, Chemical Oxygen Demand, Total Dissolved Solids, ICAP Metals, Nitrate, Bicarbonate Alkalinity, Carbonate Alkalinity, ph, Hardness, Specific Conductance, Calcium, Potassium, Fluoride, Total Alkalinity, Sulfate	Semi-Annual
<i>Deep Wells:</i> W1D, W2D, W9D, WB1D, WE2D, WE3D	Semi-Annual		Semi-Annual
<i>Surface Water⁽²⁾</i>			
<i>Identification</i>	<i>Monitoring Frequency</i>	<i>Field / Laboratory Testing</i>	<i>Reporting Frequency</i>
S-1, S-2, S-3	N / J / M / A	Turbidity, pH, Chemical Oxygen Demand, Acetone, Total Petroleum Hydrocarbons, Settleable Solids, Flowrate, Nitrate-Nitrogen, ICAP Metals	Semi-Annual
<i>Storm Water⁽²⁾</i>			
<i>Identification</i>	<i>Monitoring Frequency</i>	<i>Field / Laboratory Testing</i>	<i>Reporting Frequency</i>
SW-3, SW-8, SW-20	N / J / M	Turbidity, pH, Chemical Oxygen Demand, Settleable Solids, Flowrate, Nitrate-Nitrogen	Semi-Annual
<i>Leachate</i>			
<i>Identification</i>	<i>Monitoring Frequency</i>	<i>Field / Laboratory Testing</i>	<i>Reporting Frequency</i>
L-1, L-2, L-3	Semi-Annual	<i>Depth to Water:</i> L-1, L-2, L-3 <i>Laboratory Testing:</i> L-3 Volatile Organic Compounds, Chemical Oxygen Demand, Total Dissolved Solids, ICAP Metals, Nitrate, Bicarbonate Alkalinity, Carbonate Alkalinity, ph, Hardness, Specific Conductance, Calcium, Potassium, Fluoride, Total Alkalinity, Sulfate	Semi-Annual
<i>Landfill Gas⁽²⁾</i>			
<i>Identification</i>	<i>Monitoring Frequency</i>	<i>Field Monitoring</i>	<i>Reporting Frequency</i>
<i>Perimeter Gas Compliance Wells:</i> GCW-1, GCW-3, GCW-4, GCW-5, GCW-7 through GCW-10	Quarterly	Methane	Quarterly
<i>Gas Monitoring Points:</i> GMP-1 through GMP-17	Quarterly	Methane	Quarterly

ICAP: Inductively Coupled Argon Plasma
 N / J / M / A: November, January, March, August
 (1): Per Monitoring and Reporting Program No. 97-90.
 (2): Per Title 27, Sections 20932, 20933 and 20934.

TABLE 2
FINAL POSTCLOSURE MAINTENANCE
INSPECTION SCHEDULE
CRESCENT CITY LANDFILL

<i>Type of Inspection</i>	<i>Inspection Frequency ⁽¹⁾</i>	<i>Description</i>	<i>Reporting Frequency ⁽²⁾</i>
Leachate Seeps	Monthly ⁽³⁾	Inspect for evidence of leachate seeps.	Semi-Annual
Final Cover Integrity / Grades	Monthly ⁽³⁾	Inspect final cover to identify areas of the cap damaged by settlement, subsidence, and/or erosion. Also identify areas susceptible to ponding.	Semi-Annual
Drainage System	Monthly ⁽³⁾	Inspect drainage system components to identify structural damages that require repair, determine need for removal of sediment and large debris from drainage channels and sedimentation basins, and evaluate mowing and trimming needs for grass-lined ditches.	Semi-Annual
Vegetated Layer	Annual ⁽⁴⁾	Inspect the vegetated layer to identify areas that require reseeding. Also identify fugitive plant species with deep root systems that require removal to protect final cover.	Annual
Groundwater Monitoring Wells	Semi-Annual	Inspect the condition of groundwater monitoring wells and identify the need for any repairs. Perform inspections as part of routine sampling events.	Semi-Annual
Gas Monitoring Wells	Quarterly	Inspect the condition of gas monitoring points and gas compliance wells and identify the need for any repairs. Perform inspections as part of routine monitoring events.	Quarterly
Passive Gas Vents	Annual	Inspect the condition of passive gas vents and identify the need for any repairs.	Annual
Provisional - Storm Events	Weekly	Inspect landfill for damages at least once per week during storm periods.	Semi-Annual
Provisional - Seismic Activity	Per Event	Inspect landfill for damages following seismic activity.	Semi-Annual

- (1): Per Monitoring and Reporting Program No. 97-90 and/or Final Postclosure Maintenance Plan.
(2): Monthly between October and April.
(3): Monthly between October and April, and once during dry season.
(4): Annually prior to the rainy season.

TABLE 3
FINAL POSTCLOSURE MAINTENANCE
RESPONSIBLE PARTIES AND EMERGENCY CONTACT INFORMATION
CRESCENT CITY LANDFILL

FPMP Document Reference	Contact Information
Section 4.1 - Responsible Parties	Del Norte Solid Waste Management Authority Kevin Hendrick, Director 1700 State Street Crescent City, CA 95531 (707) 465-1100
ERP Document Reference	Contact Information
Section 1.0 - Introduction	<i>ERP Location:</i> Del Norte Solid Waste Management Authority 1700 State Street Crescent City, CA 95531
Section 2.2 - Fires	Fire Department: (707) 464-2421
Section 2.3 - Explosions	Fire Department: (707) 464-2421 Sheriff: (707) 464-4191
Section 3.0 - Response Procedures	<i>Notifications:</i> Kevin Hendrick, Director Del Norte Solid Waste Management Authority (707) 465-1100 (business hours) (707) 464-2254 (non-business hours) Maria Isabel Valdez, Administrative Assistant (707) 465-1100 (business hours) (707) 954-9096 (non-business hours) Fire Department: (707) 464-2421 Sheriff: (707) 464-4191
Section 3.1 - Availability of Emergency Response Equipment	Del Norte County Road Department: (707) 464-7238 Hemmingsen Construction: (707) 464-3659 Ace Hardward Rentals: (707) 465-5865
Section 3.2 - Regulatory Notification	County of Del Norte, Community Development Department: (707) 464-7229 Fire Department: (707) 464-2421 Sheriff: (707) 464-4191 State of California, Department of Toxic Substances Control Toxic Substances Control Program Region 2 Site Mitigation Unit 700 Heinz Avenue, Suite 200 Berkeley, CA 94710-2721 (510) 540-2122 State of California, Department of Resources Recycling and Recovery 1001 "I" Street, P.O. Box 4025 Sacramento, CA 95812-4-25 (916) 322-4027 State of California, Regional Water Quality Control Board, North Coast Region 5550 Skylane Boulevard Santa Rosa, CA 95403 (707) 576-2220

FPMP: Final Postclosure Maintenance Plan
ERP: Emergency Response Plan

ATTACHMENT 3
POSTCLOSURE MAINTENANCE
COST ESTIMATE

**FINAL POSTCLOSURE MAINTENANCE
COST ESTIMATE WORKSHEET**

CRESCENT CITY LANDFILL

PREPARED BY: EBA ENGINEERING

GENERAL SITE INFORMATION

Name of Solid Waste Landfill: Crescent City Landfill
Solid Waste Facilities Permit Number: 08-AA-0006
Facility Operator: Del Norte Solid Waste Management Authority
Site Owner: County of Del Norte
Site Location: Section 7, Township 16 North, Range 1 West,
Humbolt Baseline and Meridian
Assessors Parcel Number: 110-020-08, 110-020-043 and 110-020-069
Site Address: End of Hights Access Road off Old Mill Road,
Crescent City, CA 95531

Size of Waste Mangement Unit (WMU): 23 acres

FINAL POSTCLOSURE MAINTENANCE COSTS

Revegetation

37. Planting/Fertilizing/Mulching

- | | |
|---|---------|
| a. Area (acres) | 2.3 |
| Assumes 10 percent of WMU area will require annual hydroseeding and revegetation. | |
| b. Type of vegetation/fertilizer/mulch | |
| Grass/Wildflower Seed + N-K-P Fertilizer + Mulch. | |
| c. Unit cost (\$/acre/yr) | \$1,783 |
| See "Supporting Calculations Worksheet" for cost basis. | |
| d. Planting/fertilizing/mulching cost (\$/yr) | \$4,101 |
| (Line 37a x Line 37c) + Management Labor (from "Supporting Calculations Worksheet") | |

38. Irrigation

- a. Type of irrigation system Not Applicable
No irrigation of site is performed or required.
- b. Quantity (gallon/day)
- c. Unit cost (\$/gallon) \$0.00
- d. How many irrigation days per week?
- e. Annual irrigation costs (\$/yr) \$0
{(Line 38b x Line 38c) x Line 38d} x 52 wk/yr
- f. Annual maintenance costs (\$/yr) \$0
- g. Irrigation costs (\$/yr) \$0
(Line 38e + Line 38f)
39. Revegetation Cost Subtotal (\$/yr) \$4,101
(Line 37d + Line 38g)

Leachate Management

40. Does the solid waste disposal site have a liner? No
41. Does the landfill have a leachate collection/removal system?
(e.g., leachate barrier and recovery system, dendritic system) No
- If YES,
- a. What type of system? Not Applicable
- b. Annual cost of operation and maintenance of system \$0
42. List types of leachate (including leachate-affected water and landfill gas condensate) treatment used and that will continue to be used during closure and postclosure maintenance (e.g., discharge to sewer, on-site or off-site management).
- a. Type of treatment (On-Site) Not Applicable
- b. Volume/unit frequency (gallons/day)
- c. Unit cost of treatment (\$/gallon) \$0.00
- d. Annual costs of on-site treatment (\$/yr) \$0.00

43. Type of Treatment (Off-Site)	Not Applicable
a. Volume/unit frequency (gallons/day)	0
b. Unit cost of treatment (\$/gallon)	\$0.00
c. Annual costs of off-site treatment (\$/yr)	\$0.00
d. Other (explain)	
44. Leachate Sampling and Testing	
a. Number of samples/round	1
WMU contains three (3) leachate monitoring wells. Only one well (L-3) used for sampling purposes.	
b. Sampling costs/round (\$)	\$150
See "Supporting Calculations Worksheet" for cost basis.	
c. Frequency of sampling per year	2
Semi-Annual	
d. Annual sampling costs (\$/yr) (Line 45b x Line 45c)	\$300
e. Testing costs/sample (\$)	\$547
See "Supporting Calculations Worksheet" for cost basis.	
f. Annual testing costs (\$/yr) (Line 45a x Line 45c x Line 45e)	\$1,094
g. Annual sampling/testing cost subtotal (\$) (Line 45d + Line 45f)	\$1,394
45. Leachate Management Cost Subtotal (\$/yr) (Line 41b + Line 42d + Line 43c + Line 44g)	\$1,394

Environmental Monitoring

46. Gas Monitoring Systems

a. Monitoring device(s) of principal gases

 Portable Landfill Gas (LFG) Meter

b. Frequency of monitoring (e.g., daily, weekly, monthly)

 Quarterly

4

c. On-site annual monitoring and reporting costs for principal gases (\$/yr)	\$7,320
See "Supporting Calculations Worksheet" for cost basis.	
d. Annual sampling costs for trace gases (\$/yr)	\$0
Not Applicable. Trace gas testing not required as part of monitoring program.	
e. Annual testing costs for trace gases (\$/yr)	\$0
f. Assumed replacement frequency, of probes, in years.	20
g. Number of probes	25
Eight (8) gas compliance wells and 17 gas monitoring points.	
h. Installation unit cost of probes (\$)	\$1,045
Based on average well/point completion depth of 5 feet below ground surface (BGS). See "Supporting Calculations Worksheet" for cost basis.	
i. Annual replacement costs (\$) (Line 46g x Line 46h) / Line 46f	\$1,306
j. Annual maintenance costs (\$/yr)	\$250
See "Supporting Calculations Worksheet" for cost basis.	
k. Gas monitoring subtotal (\$/yr) (Line 46c + Line 46d + Line 46e + Line 46i + Line 46j)	\$8,876
47. Unsaturated Zone Monitoring	
Is the unsaturated zone monitored at this landfill?	No
If YES,	
a. What type of monitoring procedures and equipment are utilized? (e.g., vacuum/pressure lysimeter)	
b. How many monitoring devices are utilized?	
c. Annual sampling costs (\$/yr)	\$0
d. Annual testing costs (\$/yr)	\$0
e. Assumed replacement frequency, of devices, in years.	Not Applicable
f. Installation unit cost of devices. (\$)	\$0
g. Annual replacement cost (\$/yr) (Line 47b x Line 47f) / Line 47e	\$0

h. Annual maintenance costs (\$/yr)	Not Applicable
i. Unsaturated zone monitoring subtotal (\$/yr) (Line 47c + Line 47d + Line 47g + Line 47h)	\$0
48. Groundwater Monitoring	
a. Number of wells	17
b. Frequency of monitoring, per year Semi-Annual	2
c. Analytical methods Per Monitoring & Reporting Program No. 97-90.	
d. Number of samples/round per well	1
e. Testing costs/sample (\$) See "Supporting Calculations Worksheet" for cost basis.	\$547
f. Annual groundwater testing costs (\$/yr) (Line 48a x Line 48b x Line 48d x Line 48e)	\$18,598
g. Annual monitoring and reporting costs (\$/yr) See "Supporting Calculations Worksheet" for cost basis.	\$10,500
h. Assumed replacement frequency, of wells, in years.	15
i. Installation unit cost of wells (\$) Based on 2" well with average completion depth of 35 feet BGS. See "Supporting Calculations Worksheet" for cost basis.	\$5,785
j. Annual replacement cost (\$/yr) (Line 48a x Line 48i) / Line 48h	\$6,556
k. Annual maintenance costs (\$/yr) See "Supporting Calculations Worksheet" for cost basis.	\$2,700
l. 5-year groundwater monitoring cost (\$) See "Supporting Calculations Worksheet" for cost basis.	\$17,745
m. 5-year groundwater monitoring normalized cost per year (\$/yr)	\$3,858
n. Groundwater monitoring subtotal (\$/yr) (Line 48f + Line 48g + Line 48j + Line 48k + 48m)	\$42,212

49. Surface Water Monitoring	3
a. Number of locations	4
b. Frequency of monitoring, per year	
November, January, March and August	
c. Analytical methods	
Per Monitoring & Reporting Program No. 97-90.	1
d. Number of samples/round per location	
e. Testing costs/sample (\$)	\$458
See "Supporting Calculations Worksheet" for cost basis.	
f. Annual surface water testing costs (\$/yr) (Line 49a x Line 49b x Line 49d x Line 49e)	\$5,496
g. Annual monitoring and reporting costs (\$/yr)	\$2,280
See "Supporting Calculations Worksheet" for cost basis.	
h. Surface water monitoring subtotal (\$/yr) (Line 49f + Line 49g)	\$7,776
50. Environmental Monitoring Cost Subtotal (\$/yr) (Line 46k + Line 47i + Line 48n + Line 49h)	\$58,864
Drainage Maintenance	
51. How often do you anticipate the need to perform maintenance activities (e.g., clear material from runoff surface water conveyances, erosion repair, minor grading, repair of articulated drains; also problems with runoff maintenance and repairs of levees, dikes, protective berms)?	
Semi-annually	
a. Annual Drainage Maintenance Cost Subtotal (\$/yr)	\$11,780
Security	
52. What are the estimated annual maintenance costs to repair/replace fencing, gates, locks, signs, and/or other security equipment at the landfill site? (\$/yr)	\$2,380

Inspection

53. What will be the routine maintenance inspection frequency of the landfill during postclosure (minimum semi-annually)?

Per Monitoring & Reporting Program No. 97-90.

a. Number of inspections per year

12

Monthly during the period of October through April, and once in July.
Weekly during storm periods. Assume four weekly inspections per year.

b. Inspection unit cost (\$)

\$340

c. Annual Inspection Cost Subtotal during the Postclosure Care Period? (\$/yr)

\$4,080

Components that should be inspected include, but are not limited to:

- o Final cover - erosion damage, vegetative impacts, etc.
- o Final grading - ponding caused by settlement
- o Drainage control systems - continuity of articulated drains, sediment choked conduits
- o Passive LFG control system components
- o Security - gates and berms/side slopes
- o Vector and fire control
- o Monitoring equipment

Supplemental Data

54. Itemize annual costs, on additional worksheets, for monitoring and postclosure maintenance procedures, specific to this solid waste disposal site, and attach at the end of this worksheet. Make sure each page is appropriately labeled with site name and SWIS number.

Other- Annual Postclosure Maintenance Costs

\$13,626

See "Supporting Calculations Worksheet" for cost basis.

**SUMMARY OF FINAL POSTCLOSURE COST ESTIMATES
CRESCENT CITY LANDFILL**

Facility Name	Crescent City Landfill	SWIS #	08-AA-0006
Monitoring and Postclosure Maintenance Cost			
Revegetation (Line 39)			\$4,101
Leachate Management (Line 45)			\$1,394
Environmental Monitoring (Line 50)			\$58,864
Drainage Maintenance (Line 51a)			\$11,780
Security (Line 52)			\$2,380
Inspection (Line 53c)			\$4,080
Other (Line 54)			\$13,626
Subtotal			\$96,225
Subtotal x 23 years Postclosure Care			\$2,213,185

**FINAL POSTCLOSURE MAINTENANCE COST ESTIMATE
SUPPORTING CALCULATIONS WORKSHEET**

**CRESCENT CITY LANDFILL
SWEP No. 08-AA-0006**

Note: Unless otherwise noted under "Source / Assumptions" column, prices are based on relevant experience and recently bid projects of similar scope and are representative of current dollars.

REVEGETATION

- Total Acreage of Waste Management Unit (WMD): 23.0 AC
- Annual Percentage Requiring Revegetation: 10 Percent
- Annual Acreage Requiring Revegetation: 2.3 AC

Line 37c: Unit Cost (\$/acre/yr)	Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
	Labor - Field Equipment (hydroseed)	\$700 /AC	1.0	\$700	RSMMeans 2013
	Materials (seed, fertilizer and mulch)	\$518 /AC	1.0	\$518	RSMMeans 2013
		\$565 /AC	1.0	\$565	RSMMeans 2013
			Extended Total:	\$1,783	
	Labor - Coordination and Management	\$85 /hr.	8	\$680	

LEACHATE MANAGEMENT

- Line 44c: Number of samples per round: 3 ea.
- Based on three (3) leachate monitoring wells

Line 44b: Sampling costs/round (\$)	Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
	Labor - Coordination and Management	\$85 /hr.	0	\$0	Included under groundwater monitoring (Line 48g).
	Labor - Sampling (L-3 only)	\$75 /hr.	2	\$150	Mobilization included under groundwater monitoring (Line 48g).
	Monitoring Equipment	\$50 /day	0	\$0	Included under groundwater monitoring (Line 48g).
			Extended Total:	\$150	

Line 44a: Testing costs/sample (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Chemical Oxygen Demand	\$30 ea.	1	\$30	Scope of testing per Monitoring & Reporting Program No. 97-90.
Total Dissolved Solids	\$20 ea.	1	\$20	Prices based on 4/3/13 cost quote from North Coast Laboratories Ltd., Arcata, CA.
ICAP Metals + Mg, Na, Hardness, Ca and K	\$225 ea.	1	\$225	
Nitrate	\$18 ea.	1	\$18	
Total and Speciated Alkalinity	\$0 ea.	1	\$0	No charge. Values are calculated.
Fluoride and Sulfate	\$54 ea.	1	\$54	
Volatile Organic Compounds	\$200 ea.	1	\$200	
		Extended Total:	\$547	

ENVIRONMENTAL MONITORING - GAS

Line 46c: Annual monitoring and reporting costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	4	\$340	
Labor - Mobilization / Sampling	\$75 /hr.	11	\$825	
Monitoring Equipment - Portable LFG Meter	\$100 /day	1	\$100	
Materials	\$50 /LS	1	\$50	
Labor - Report Preparation / Management	\$85 /hr.	4	\$340	
Labor - Report Review / Certification	\$125 /hr.	1	\$125	
Labor - Clerical	\$50 /hr.	1	\$50	
Subtotal per Event:			\$1,830	
Number of Events per Year:		4		
Extended Total:			\$7,320	

Line 46d: Installation unit cost of probes (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Drill Rig - Mobilization / Drilling	\$185 /hr.	3	\$555	Assumes probe completion depth of 5 feet below ground surface (BGS).
Materials	\$100 /LS	1	\$100	
Labor - Geologist (Installation / Management)	\$85 /hr.	4	\$340	
Materials	\$50 /LS	1	\$50	
Extended Total:			\$1,045	

Line 46e: Annual maintenance costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Maintenance	\$75 /hr.	2	\$150	
Materials	\$100 /LS	1	\$100	
Extended Total:			\$250	

ENVIRONMENTAL MONITORING - GROUNDWATER

Line 48c: Testing costs/sample (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Chemical Oxygen Demand	\$30 ea.	1	\$30	Scope of testing per Monitoring & Reporting Program No. 97-90.
Total Dissolved Solids	\$20 ea.	1	\$20	Prices based on 4/3/13 cost quote from North Coast Laboratories Ltd., Arcata, CA.
ICAP Metals + Mg, Na, Hardness, Ca and K	\$225 ea.	1	\$225	
Nitrate	\$18 ea.	1	\$18	
Total and Speciated Alkalinity	\$0 ea.	1	\$0	No charge. Values are calculated.
Fluoride and Sulfate	\$54 ea.	1	\$54	
Volatile Organic Compounds	\$200 ea.	1	\$200	
Extended Total:			\$547	

Line 48g: Annual monitoring and reporting costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Mobilization / Sampling	\$75 /hr.	24	\$1,800	Based on the sampling of 17 wells.
Monitoring Equipment - DTW Sounder + Parameter Meter	\$50 /day	3	\$150	
Materials	\$100 /day	3	\$300	
GeoTracker	\$100 /event	1	\$100	
Subtotal per Event:			\$2,350	
Number of Events per Year:		2		
Sampling Subtotal per Year:			\$4,700	

Labor - Semi-Annual Report Preparation / Management	\$85 /hr.	24	\$2,040
Labor - Semi-Annual Report Review / Certification	\$125 /hr.	2	\$250
Labor - Semi-Annual Clerical	\$50 /hr.	2	\$100
Labor - Annual Report Preparation / Management	\$85 /hr.	36	\$3,060
Labor - Annual Report Review / Certification	\$125 /hr.	2	\$250
Labor - Annual Clerical	\$50 /hr.	2	\$100
Reporting Subtotal per Year:			\$5,800
Extended Total:			\$10,500

Line 48i: Installation unit cost of wells (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Coordination and Permitting	\$500 LS	1	\$500	
Dwell Rig - Mobilization / Drilling	\$185 /hr.	8	\$1,480	Assumes 2" well with completion depth of 35 feet BGS.
Materials	\$30 /ft.	35	\$1,050	
Labor - Installation / Management	\$85 /hr.	12	\$1,020	
Labor - Well Development	\$75 /hr.	6	\$450	
Materials + Equipment	\$100 LS	1	\$100	
Surveying	\$500 LS	1	\$500	
Labor - Reporting	\$85 /hr.	6	\$510	
Labor - Report Review	\$125 /hr.	1	\$125	
Labor - Clerical	\$50 /hr.	1	\$50	
Extended Total:			\$5,785	

Line 48ii: Annual maintenance costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Maintenance	\$75 /hr.	16	\$1,200	
Materials	\$1,500 LS	1	\$1,500	
Extended Total:			\$2,700	

Line 48i: 5-year groundwater monitoring cost (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Semi-Volatile Organic Compounds	\$225 ea.	18	\$4,050	Based on testing of 17 groundwater wells and one leachate well (1-3).
Chlorinated Herbicides	\$150 ea.	18	\$2,700	Sampling costs already included as part of routine monitoring (Lines 44b and 48g).
PCEs	\$135 ea.	18	\$2,430	Prices based on 4/12/13 cost quote from North Coast Laboratories Ltd., Arcata, CA.
Organochlorine Pesticides	\$140 ea.	18	\$2,520	
Organophosphorus Pesticides	\$150 ea.	18	\$2,700	
Total Cyanide	\$80 ea.	18	\$1,440	
Total Sulfide	\$50 ea.	18	\$900	
GeoTracker	\$100 /event	1	\$100	
Testing Subtotal per Event:			\$16,840	
Labor - Additional Report Preparation / Management	\$85 /hr.	8	\$680	
Labor - Additional Report Review	\$125 /hr.	1	\$125	
Labor - Additional Clerical	\$50 /hr.	2	\$100	
Reporting Subtotal per Event:			\$905	
Extended Total:			\$17,745	

Line 48iii: 5-year groundwater monitoring normalized cost per year (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
5-year Groundwater Monitoring Testing and Reporting Cost	\$17,745 /event	5	\$88,725	Quantity based on number of 5-year COC events to be performed during the remaining postclosure maintenance period.
Remaining Postclosure Maintenance Period (years):		23		
Extended Total:			\$3,858	

ENVIRONMENTAL MONITORING - SURFACE WATER

<i>Line 49c: Testing costs/sample (\$)</i>	Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
	Acetone	\$85 ea.	1	\$85	Scope of testing per Monitoring & Reporting Program No. 97-90. Prices based on 4/3/13 cost quote from North Coast Laboratories Ltd., Arcata, CA.
	Chemical Oxygen Demand	\$30 ea.	1	\$30	
	ICAP Metals	\$225 ea.	1	\$225	
	Nitrate-Nitrogen	\$18 ea.	1	\$18	
	Settleable Solids	\$15 ea.	1	\$15	
	Turbidity	\$15 ea.	1	\$15	
	Total Petroleum Hydrocarbons	\$70 ea.	1	\$70	
	<i>Extended Total:</i>			\$458	

Line 49g: Annual monitoring and reporting costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions	
Labor - Coordination and Management	\$85 /hr.	2	\$170	Based on the sampling of 3 locations.	
Labor - Mobilization / Sampling	\$75 /hr.	3	\$225		
Monitoring Equipment - Parameter Meter	\$25 /day	1	\$25		
Materials	\$50 /day	1	\$50		
GeoTracker	\$100 /event	1	\$100		
	Subtotal per Event:		\$570		
	Number of Events per Year:	4			
	<i>Sampling Subtotal per Year:</i>		\$2,280		
Labor - Semi-Annual Report Preparation / Management	\$85 /hr.	0	\$0		Reporting included under groundwater reporting (Line 48g).
Labor - Semi-Annual Report Review / Certification	\$125 /hr.	0	\$0		
Labor - Semi-Annual Clerical	\$50 /hr.	0	\$0		
Labor - Annual Report Preparation / Management	\$85 /hr.	0	\$0		
Labor - Annual Report Review / Certification	\$125 /hr.	0	\$0		
Labor - Annual Clerical	\$50 /hr.	0	\$0		
	<i>Reporting Subtotal per Year:</i>		\$0		
	<i>Extended Total:</i>		\$2,280		

DRAINAGE MAINTENANCE

Line 51c: Annual drainage maintenance costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	8	\$680	Two laborers for two, 8-hour days per event. Local vendor quote on 3/26/13.
Labor - Maintenance	\$65 /hr.	32	\$2,080	
Equipment Rental - T190 Bobcat	\$315 /day	2	\$630	
Materials	\$2,500 /LS	1	\$2,500	
	Subtotal per Event:		\$5,890	
	Number of Events per Year:	2		
	<i>Extended Total:</i>		\$11,780	

SECURITY

Line 52: Annual security costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	4	\$340	
Labor - Maintenance	\$65 /hr.	16	\$1,040	
Materials	\$1,000 /LS	1	\$1,000	
Extended Total:			\$2,380	

INSPECTION

Line 53ii: Inspection unit cost (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor	\$85 /hr.	4	\$340	
Extended Total:			\$340	

SUPPLEMENTAL DATA

Regrading: Annual maintenance costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	20	\$1,700	
Equipment Rental - Grader	\$720 /day	2	\$1,440	RSMMeans 2013
Equipment Rental - Dozer	\$630 /day	2	\$1,260	RSMMeans 2013
Extended Total:			\$4,400	

Erosion Control: Annual maintenance costs (\$/yr)

- Total Acreage of Waste Management Unit (WMU):	23.0 AC			
- Annual Percentage Requiring Erosion Control:	10 percent			
- Annual Acreage Requiring Erosion Control:	2.3 AC			
- Hay Bale / Silt Fence Repair Specification (assumed):	50 LF/AC			
Labor - Coordination and Management	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Hay Bales - Labor	\$85 /hr.	8	\$680	
Hay Bales - Equipment	\$0.40 /LF	115	\$46	RSMMeans 2013
Hay Bales - Materials	\$0.13 /LF	115	\$15	RSMMeans 2013
Silt Fences - Labor	\$10.68 /LF	115	\$1,228	RSMMeans 2013
Silt Fences - Materials	\$0.90 /LF	115	\$104	RSMMeans 2013
Extended Total:			\$2,116	

5-Year Use/Settlement Analysis (\$)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Aerial Topographic Survey	\$3,600 /LS	1	\$3,600	
Labor - Data Reduction / Calculations	\$90 /hr.	16	\$1,440	
Labor - Report Preparation / Management	\$125 /hr.	10	\$1,250	
Labor - Annual Clerical	\$50 /hr.	2	\$100	
Subtotal:			\$6,390	
Frequency Interval:		5		
Extended Total:			\$1,278	

Storm Water: Annual monitoring and reporting costs (\$/yr)

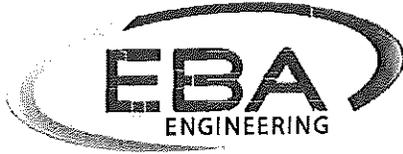
Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	2	\$170	
Labor - Mobilization / Sampling	\$75 /hr.	7	\$525	Based on the sampling of 7 locations.
Monitoring Equipment - Parameter Meter	\$25 /day	1	\$25	
Materials	\$50 /day	1	\$50	
		Subtotal per Event:	\$770	
		Number of Events per Year:	3	
		Sampling Subtotal per Year:	\$2,310	
Chemical Oxygen Demand	\$30 ea.	3	\$90	Scope of testing per Monitoring & Reporting Program No. 97-90.
Nitrate-Nitrogen	\$18 ea.	3	\$54	Prices based on 4/2/13 cost quote from North Coast Laboratories Ltd., Arcata, CA.
Settleable Solids	\$15 ea.	3	\$45	
Turbidity	\$15 ea.	3	\$45	
		Subtotal per Event:	\$234	
		Number of Events per Year:	3	November, January and March
		Laboratory Testing Subtotal per Year:	\$702	Reporting included under groundwater reporting (Line 48g).
Labor - Semi-Annual Report Preparation / Management	\$85 /hr.	0	\$0	
Labor - Semi-Annual Report Review / Certification	\$125 /hr.	0	\$0	
Labor - Semi-Annual Clerical	\$90 /hr.	0	\$0	
Labor - Annual Report Preparation / Management	\$85 /hr.	0	\$0	
Labor - Annual Report Review / Certification	\$125 /hr.	0	\$0	
Labor - Annual Clerical	\$50 /hr.	0	\$0	
		Reporting Subtotal per Year:	\$0	
		Extended Total:	\$3,012	

QA/QC Testing: Annual QA/QC testing costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Volatile Organic Compounds - Groundwater Monitoring	\$200 ea.	1	\$200	Assumes one trip blank per event.
		Number of Events per Year:	2	
		QA/QC Testing Subtotal per Year:	\$400	
		Number of Events per Year:	\$200	Assumes one trip blank per event.
		Number of Events per Year:	4	
		QA/QC Testing Subtotal per Year:	\$800	
		Extended Total:	\$1,200	

Passive LFG Control System: Annual maintenance costs (\$/yr)

Description	Unit Rate	Quantity	Extended Cost	Source / Assumptions
Labor - Coordination and Management	\$85 /hr.	4	\$340	
Labor - Maintenance	\$75 /hr.	8	\$600	Assumes replacement of piping/fittings for one surface vent per year.
Materials - Pipe / Fittings	\$150 /LS	1	\$150	Assumes replacement of valve for one surface vent every other year.
Materials - Valves	\$530 /LS	1	\$530	
		Extended Total:	\$1,620	
		Supplemental Data Total (Line 54):	\$13,626	



June 19, 2013

Mr. Tedd Ward, Program Manager
Del Norte Solid Waste Management Authority (Authority)
1700 State Street
Crescent City, CA 95531

**RE: CORRECTIVE ACTION PLAN COST ESTIMATE
FOR NON-WATER RELEASES
CRESCENT CITY LANDFILL, DEL NORTE COUNTY, CALIFORNIA
EBA JOB No. 13-1902 (TASK A2)**

Dear Mr. Ward:

This report has been prepared to comply with the financial assurance assessment requirements mandated by Title 27 of the California Code of Regulations (27CCR), §22100 to establish costs for initiating and completing known or reasonably foreseeable corrective actions for a non-water release from the Crescent City Landfill (Landfill) associated with a causal event. Causal events include, but are not limited to, earthquakes, flooding, tsunamis, seiches, fire, precipitation and degradation of inadequate containment structures or environmental monitoring or control systems. Per 27CCR, the non-water release corrective action cost estimate can be established using one of three options. These options are: 1) assuming a corrective action cost that is equal to the closure cost estimate for the Landfill; 2) assuming a corrective action cost that is equal to the cost for replacement of the final cover; or 3) development of costs based on a site-specific corrective action plan (CAP). In the case of the Landfill, the cost to implement either Option 1 or 2 would be approximately \$3.5 and \$2.8 million, respectively, in current dollars. In light of the significant cost for both of these options, the corrective action cost estimate was developed based on a site-specific CAP.

This CAP was developed in accordance with the requirements specified in 27CCR, §22102(a) and includes three (3) primary components. These components include the following:

- An assessment of the known or reasonably foreseeable impacts due to causal events and the costs to remediate such impacts. The causal events that were assessed included earthquake, flooding, tsunami, seiche, fire and precipitation;
- An evaluation of the long-term performance of the final cover system to ensure that it will continue to meet the requirements of 27CCR, §21140 without the need for corrective action; and

Non-Water CAP 06.19.13

825 Sonoma Avenue, Suite C • Santa Rosa, California 95404
(707) 544-0784 • FAX (707) 544-0866 • www.ebagroup.com

- Provisions to restore, as applicable, the integrity or establish the adequacy of a damaged or inadequate containment structure or environmental monitoring or control system, to bring the Landfill into compliance with the applicable requirements.

Technical guidance documents prepared by the California Department of Resources Recycling and Recovery (CalRecycle) provide best management practices (BMPs) for use in developing cost estimates for corrective action in the CAP. In general, the BMPs provide criteria for when a causal event is not considered reasonably foreseeable. If site-specific conditions for a particular causal event comply with the corresponding BMP(s), then development of a corrective action cost estimate for that causal event is not required. Conversely, non-compliance with a BMP requires the development of a corrective action cost estimate. The BMPs identified by CalRecycle were used in the development of this CAP and are identified accordingly in the respective subsections presented herein.

As stipulated in 27CCR, §22102(c), the CAP must be prepared and certified by a third party that is not currently employed by the current entity responsible for the design of the landfill in question. In this regard, EBA Engineering (EBA) has not been involved in the design of the Landfill and therefore satisfies this third party requirement.

BACKGROUND INFORMATION

The Landfill is a closed Class III facility located on Hights Access Road approximately 2.25 miles north of Crescent City, California (see Figure 1, Attachment 1). The Landfill's waste management unit (WMU) occupies approximately 23 acres of a 167-acre parcel owned by the County of Del Norte. The Landfill site was previously used as an open burn dump prior to being permitted as a sanitary landfill in 1977. The sanitary landfill operations occurred over the period of 1997 through March 2005. The refuse composition is comprised primarily of household and commercial waste, and construction debris. Other types of waste handled or disposed of at the site include asbestos containing materials, dead animals, clean wood waste, household appliances, seafood processing waste, sewage sludge, commercial sewage (septage), and cheese whey. The Landfill was formally closed in two phases (Phases 1 and 2). Phase 1, which was conducted while the facility was still active, encompassed approximately 9.4 acres in the southern portion of the Landfill and was completed in 1996. Phase 2 encompassed the remaining central and northern portions of the Landfill following the cessation of site operations and was completed in February 2006.

ASSESSMENT OF CAUSAL EVENTS

The following subsections present an assessment of the primary causal events identified in 27CCR, §22100 and §22102. The applicability of each causal event is described based on the BMP criteria developed by CalRecycle. Also provided are corrective action cost estimates for those causal events that are determined to represent reasonably foreseeable occurrences.

Earthquake

The earthquake BMP causal event requires an assessment of damage to the landfill that could occur based on the following criteria:

- The maximum credible earthquake (MCE);
- The landfill is located within a Seismic Hazard Zone; and
- The landfill is located within 200 feet of a Holocene fault.

An earthquake is a reasonably foreseeable causal event for the Landfill. In general, earthquakes are capable of causing damage to landfills and ancillary features due to strong ground shaking, liquefaction and/or fault rupture. Engineering standards and geologic hazard mapping are used to design landfills to withstand strong ground movement and to prevent the building of structures over known active faults. In accordance with 27CCR, a Class III landfill must be designed to withstand the seismic shaking associated with the Maximum Probable Earthquake (MPE). The MPE is defined as the maximum earthquake that is likely to occur within a 100-year period. Class II landfills must be designed to withstand the MCE. The MCE is commonly a larger event than the MPE and is defined as the maximum earthquake capable of occurring under the currently known geologic framework.

As previously noted, the Landfill was closed in two phases. The final cover system for Phase 1 is described by Brown, Vence & Associates, Inc. (BV&A, 1995) as consisting, from top to bottom, (1) 18-inch (side slopes) to 24-inch (top slopes) thick soil cover/vegetated layer, (2) 6-inch thick gravel drainage layer overlain by geotextile filter fabric (side slopes only), (3) 60-mil high-density polyethylene (HDPE) smooth (top area) and double textured (side slopes) geomembrane sheet, and (4) 24-inch thick soil foundation layer. The Phase 2 final cover system as described by Vector Engineering (2005) is generally the same, except a geonet composite drainage layer was installed in lieu of the 6-inch thick gravel drainage layer.

A final cover stability analysis is presented in the Landfill's *Final Closure and Postclosure Maintenance Plan, Amendment One*, dated May 2005 (BV&A, 2005). The stability evaluation was conducted by Vector Engineering (2005). Vector Engineering (2005) reports the Landfill's final cover is designed using seismic standards of a 10 percent probability of exceedance in 50 years resulting in a peak ground acceleration of 0.33g. Strong ground motion is anticipated at the Landfill associated with a magnitude 6 earthquake associated with faults approximately 24 kilometers (km)(15 miles) off shore. Expected permanent displacements of less than 8 centimeters (cm)(3 inches [in]) were calculated for the final cover configuration.

Generally, industry practice considers displacements on the order of 15 cm (6 in) to 30 cm (12 in) to be acceptable for geosynthetic base liners. Because damage to final cover systems from seismic events can be repaired, displacements from 30 cm (12 in) to 90 cm (35 in) are typically considered acceptable (Kavazanjian, 1999).

Vector Engineering (2005) states that the closest faults are located approximately 24 km west of the site. EBA's review of Alquist-Priolo Earthquake Fault Zone Maps confirms the Crescent City Landfill is not located within a Seismic Hazard Zone or within 200 feet of a Holocene fault.

MCE Element

In order to assess the MCE BMP for the Landfill, EBA performed a probabilistic MCE analyses using United States Geological Survey (USGS) 2002 and 2008 procedures.

Probabilistic MCE evaluations using the USGS 2002 method for a return period of two percent in 50 years predicts the Landfill site will experience peak horizontal ground accelerations of 0.64g (see "USGS 2002 Analysis", Attachment 2). A probabilistic MCE analysis using the USGS 2008 method for a return period of two percent in 50 years results in a peak horizontal ground acceleration of 0.71g at the site (see "USGS 2008 Analysis", Attachment 2). These ground accelerations are consistent with the USGS 2008 Probabilistic Seismic Hazard Analysis map for the western United States (Revision III, January 2010, see Attachment 2), which indicates the Landfill site will experience peak horizontal ground accelerations that range from 0.67g to 0.89g. A deterministic evaluation indicates the Cascadia Subduction Zone approximately 25 km (16 miles) west of the site is capable of producing a MCE of a moment magnitude (Mw) 8.0 to Mw 8.5 (Mualchin, 1996).

Based on these data, the MCE will generate peak ground motions at the Landfill site ranging from a low of 0.64g to a high of 0.71g.

EBA analyzed the predicted permanent horizontal displacement in the final cover system using the same approach and methods used by Vector Engineering (2005) but substituting the MCE input values. Input values for the critical cross-section include a yield acceleration (Ky) of 0.21g and a peak horizontal ground acceleration at the site (Kmax value) of 0.71g. The results indicate permanent displacements are predicted to range from 70 cm (28 in) for Mw = 8.0 (median) to 180 cm (71 in) for Mw = 8.0 (16 percent probability of exceedance). We believe the estimated range is reasonable for a MCE event of Mw 8.0 to Mw 9.0 occurring on the Cascadia Subduction Zone.

These displacements are likely to cause significant damage to the final cover system, as well as partial damage to the passive landfill gas (LFG) collection system, drainage system, and perimeter/access roads. Damage to the cover system is likely to be greatest at the top of slopes, as these are areas of greatest stress and have historically been the location of damage at landfill sites due to strong earthquake ground motions. The following considerations and assumptions were used to evaluate corresponding corrective action costs:

- The MCE event will conservatively cause 3,350 lineal feet of tearing to the WMU's geomembrane/geocomposite cover along the entire top slope crest. We have also assumed an average 153 cm (5-foot) displacement along a tear and a minimum of 10 feet of additional repair will be required on each side of the tear. This results in a total of approximately 25 feet of geosynthetic repair per linear foot of tear in the final cover.

Flooding

The BMP for a flooding causal event is an area that is not located within a 500-year flood zone or the lowest elevation of the landfill perimeter is higher than the predicted elevation of the 500-year flood. In this regard, a deterministic flood scenario has not been developed by the Federal Emergency Management Agency [FEMA] for the Landfill area to establish a predicted elevation for a 500-year flood. A copy of the corresponding FEMA Flood Insurance Rate Maps (FIRMs; note that two FIRMs have been combined into a single figure as the Landfill property extends across two separate FIRM panels) for the area is enclosed in Attachment 3. In the absence of published 500-year flood information, a qualitative assessment was performed based on the elevation of the Landfill as compared to the 100-year flood boundary published by FEMA. As shown on the FIRMs (Attachment 3), the Landfill is located approximately 0.3 miles from the closest segment of the flood boundary. Furthermore, the WMU ranges from approximately 17 to 47 feet higher in elevation than the estimated 100-year floodwater elevation (i.e., 30 to 60 feet mean seal level [MSL] versus 13 feet MSL). This elevation difference significantly exceeds floodwater elevations that could reasonably be expected for a 500-year flood event. Based on these circumstances, a corrective action cost estimate was not developed for a flooding scenario as it is not considered to represent a reasonable foreseeable causal event.

Tsunami

The BMP for a tsunami causal event is an area that is not designated to be prone to inundation by a tsunami by the State of California, Department of Conservation (SCDC) or local emergency response agency. A tsunami inundation map maintained on the SCDC website for the Crescent City Quadrangle indicates that susceptible inundation areas do not encompass the Landfill. A copy of this map is enclosed in Attachment 4. As shown on the map, the closest tsunami inundation area encroaches to within approximately 0.3 miles of the Landfill to the northeast. Since the Landfill is not susceptible to inundation by a tsunami, a tsunami is not considered a reasonable foreseeable causal event. Based on this circumstance, a corrective action cost estimate was not developed for this scenario.

Seiche

The BMP for a seiche causal event is an area that is located more than one-half mile from a lake or a landlocked bay. The closest lake near the Landfill corresponds to Dead Lake, which is located approximately one-half mile to the southwest. While this distance is equal to the minimum BMP setback, the lake and Landfill are separated by a series of sand dune deposits that create a topographic ridge. This topographic feature would serve to protect the Landfill against any seiche activity derived from Dead Lake. Lake Earl is located approximately one mile northeast of the Landfill, which exceeds the BMP criterion. However, an adjoining slough could potentially allow the surging of water from Lake Earl to encroach the wetland area east and adjacent to the Landfill. With that being said, the WMU is located at a higher elevation than the adjoining wetland area, thereby minimizing any potential for damage related to a seiche. Finally, Pelican Bay is also situated in proximity of the Landfill to the northwest, but is located at a distance exceeding the BMP criterion and is separated by higher elevations. Based on these

circumstances, a corrective action cost estimate was not developed for a seiche scenario as it is not considered a reasonable foreseeable causal event.

Fire

Fires at a landfill are considered to represent a reasonable foreseeable event and can occur either as a wildfire or subsurface fire. Further details regarding these two types of causal events and associated corrective action costs are presented below.

Wildfire Element

Corrective action costs related to a wildfire causal event were evaluated based on the magnitude of the potential fire threat, wind conditions, physical site features, and the nature of the combustible surface structures within the affected area. Pertinent details regarding these considerations are as follows:

- A fire threat map prepared by the California Department of Forestry and Fire Protection, Fire and Resource Assessment Program (CDF-FRAP) for Del Norte County identifies the Landfill as being located in a “moderate” Fire Hazard Severity Zone. A copy of this map is enclosed in Attachment 5;
- Surface wind records maintained by WeatherSpark.com (2013) indicate that winds in the Crescent City area are from the south-southeast and north-northwest approximately 29 and 25 percent of the time, respectively. Winds are calm approximately 27 percent of the time; and
- Structures/components within and near the WMU that are potentially vulnerable to a wildfire include: surface vents associated with the passive LFG collection system; LFG monitoring points; LFG compliance wells; groundwater monitoring wells; and downslope drains. In addition, vegetative cover material would also be subject to damage.

Based on the predominant wind direction (from the south-southeast), the occurrence of a wildfire along the southern and southeastern portion of the WMU is considered to represent the most plausible scenario for a wildfire incident. Since the Landfill is located in a “moderate” Fire Hazard Severity Zone, the corresponding BMP stipulates a baseline assumption that 25 percent of the combustible surface structures within a 200-foot zone at or near the landfill cell boundaries are destroyed. A map illustrating this area is enclosed in Attachment 5. The corresponding corrective action costs based on this criterion are presented in Table 2. Unit costs used in the estimate are based on a combination of prices provided by local vendors, recent bids from similar projects, and cost data published by RSMeans (2013):

**TABLE 2
CORRECTIVE ACTION COSTS FOR WILDFIRE CAUSAL EVENT**

<i>Description</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Extended Cost</i>
LFG Collection System – Surface Vents	24 each	\$1,400	\$33,600
LFG Monitoring Points (10 probes @ 5 feet)	50 VLF	\$90	\$4,500
LFG Compliance Well (1 well @ 5 feet)	5 VLF	\$90	\$450
Groundwater Monitoring Wells			
- Properly Destroy Damaged 2" Wells (3 wells @ 10-45 feet)	81 VLF	\$120	\$9,720
- Install Replacement 2" Wells (3 well @ 10-45 feet)	81 VLF	\$165	\$13,370
Downslope Drains (12" CMP)	1,410 LF	\$35	\$49,350
Revegetation	9.9 AC	\$4,215	\$41,730
Subtotal:			\$152,720
25 Percent Baseline Assumption:			\$38,180

LFG: Landfill Gas
 CMP: Corrugated Metal Pipe
 VLF: Vertical Lineal Feet
 LF: Lineal Feet
 AC: Acres

Subsurface Fire Element

Subsurface fires are typically caused by the overdraw of a LFG collection system, which introduces excess oxygen into the refuse mass, thereby causing rapid oxidation of the organic waste component. In this regard, the WMU is equipped with a passive LFG collection system, which reduces the potential for significant and/or prolonged influxes of oxygen into the waste. In addition, the geomembrane liner component associated with the WMU's final cover system provides further protection against appreciable oxygen intrusion. Based on these provisions, the likelihood of a subsurface fire occurring at the Landfill is remote. As a result, a corrective action cost estimate was not developed for a subsurface fire scenario as it is not considered a reasonable foreseeable causal event.

Precipitation

The BMP for a precipitation causal event is the 1,000-year, 24-hour storm event. Based on precipitation frequency estimates developed by the National Oceanic and Atmospheric Administration (NOAA), the precipitation total for a 1,000-year, 24-hour storm event in the Landfill area is 12.4 inches. Please refer to Attachment 6 for supporting documentation.

The surface water management systems for the Landfill's final cover are designed and sized to accommodate a 100-year, 24-hour storm event as required by 27CCR, §20365. The corresponding precipitation total for such a storm event is 9.61 inches. Since the BMP for a

precipitation causal event exceeds this design criterion (12.4 inches), it is reasonable to assume that a 1,000-year, 24-hour storm event will induce partial impacts to the final cover and surface water management systems. Impacts would likely be in the form of erosion of the final cover's vegetated layer, as well as siltation and damages to ditches and collection system components. The following criteria were used to estimate the nature and extent of potential impacts:

- Twenty-five percent of the final cover slopes with grades of five percent or less will experience up to two inches of soil loss within the final cover's vegetated layer, while 50 percent of the final cover slopes with grades greater than five percent will experience up to six inches of soil loss. Repairs will require placement, regrading and/or compaction of new vegetated layer soil, and revegetation to comply with the final cover design specifications;
- Restoration of drainage ditches and berms subjected to siltation or erosion will be equivalent to the annual postclosure maintenance cost for drainage maintenance/repair; and
- Replacement of damaged surface drainage system components (i.e., downslope drains, drop inlets, etc.) will be equal to ten percent of the final closure drainage system construction costs in current dollars.

Corrective action costs for implementing the aforementioned provisions are presented in Table 3. Unit costs used in the estimate are based on a combination of prices provided by local vendors, recent bids from similar projects, and cost data published by RSMMeans (2013):

**TABLE 3
CORRECTIVE ACTION COSTS FOR PRECIPITATION CAUSAL EVENT**

<i>Description</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Extended Cost</i>
Final Cover Repair (slopes ≤5 percent)			
- Placement of New Vegetated Layer Soil	645 CY ^(1,2)	\$15 ⁽⁵⁾	\$9,680
- Revegetation	2.4 AC ⁽¹⁾	\$4,215	\$10,120
Final Cover Repair (slopes >5 percent)			
- Placement of New Vegetated Layer Soil	5,160 CY ^(3,4)	\$15 ⁽⁵⁾	\$77,400
- Revegetation	6.4 AC ⁽³⁾	\$4,215	\$26,980
Restoration of Drainage Ditches/Berms	Lump Sum	\$11,100	\$11,100
Replacement of Damaged Collection System Components	Lump Sum	\$16,900	\$16,900
Construction Quality Assurance and Reporting	Lump Sum	\$10,000	\$10,000
Extended Total:			\$162,180

CY: Cubic Yards
AC: Acres

- (1): Area based on 9.5 acres multiplied by 25 percent (i.e., adjusted acreage).
- (2): Volume based on placement of two inches of new vegetated layer soil over adjusted acreage.
- (3): Area based on 12.7 acres multiplied by 50 percent (i.e., adjusted acreage).
- (4): Volume based on placement of six inches of new vegetated layer soil over adjusted acreage.
- (5): Assumes soil will have to be imported from an off-site source.

EVALUATION OF FINAL COVER SYSTEM

The final cover system for the Landfill is comprised of engineered alternatives to the prescriptive standard in accordance with 27CCR. The engineered alternatives were formally approved by the governing regulatory agencies and the corresponding final cover systems installed in 1996 (Phase 1) and 2006 (Phase 2). Based on EBA's review of the final cover system designs presented in the *Final Closure and Postclosure Maintenance Plan* (BV&A, 1995) and *Final Closure and Postclosure Maintenance Plan, Amendment One* (BV&A, 2005), it is EBA's opinion that the designs were performed within the standard of practice at those times, and that the overall design characteristics should promote long term stability. In addition, review of Local Enforcement Agency (LEA) inspection reports made available to EBA by the Authority for periodic inspections conducted since 2009 identified only one "area of concern". This corresponded to a leachate seep on the east side of the Phase 2 fill on June 2, 2009. This concern was no longer identified in subsequent inspections conducted in 2011 and 2012, nor were any other "areas of concern" identified over the same period. While some differential settlement has occurred that requires repair (personal communication with the Authority on March 15, 2013),

the conditions are considered normal for landfill surfaces and will be addressed as part of routine postclosure maintenance. In light of these findings, EBA finds no basis for incorporating additional costs to this CAP for the purpose of enhancing the potential long-term performance of the final cover system.

EVALUATION OF CONTAINMENT & MONITORING/CONTROL SYSTEMS

EBA reviewed available documentation to evaluate the adequacy of the design, capacity and component useful life of the containment/environmental monitoring and control systems. Documentation included the Landfill's *Final Closure and Postclosure Maintenance Plan* (BV&A, 1995) and *Feasibility Study for Corrective Action Program* (Winzler & Kelly Consulting Engineers, 2003). Overall, the Landfill's detection monitoring systems appear to be compliant with 27CCR. In addition, interviews with Authority staff and review of LEA inspection reports indicate that the various system components are generally in satisfactory condition and do not require replacement. While the Authority noted that minor repairs or upgrades are necessary for selected monitoring points (personal communication on March 26, 2013), the types of issues are consistent with regular maintenance and wear that are addressed as part of postclosure maintenance. In regards to containment, the Landfill is not equipped with a leachate collection and removal system (LCRS), so no containment structures are present on-site that require evaluation. Based on these circumstances, EBA finds no basis for incorporating additional costs to this CAP for the purpose of upgrading the Landfill's control and detection monitoring systems.

SUMMARY OF CORRECTIVE ACTION PLAN COST ESTIMATES

As presented in the previous sections, the qualifying causal events for establishing a corrective action cost for a non-water release from the Landfill include an earthquake (MCE), a wildfire, and a 1,000-year, 24-hour precipitation event. The corrective action costs for these causal events range from \$38,180 to \$522,200, with the MCE event representing the highest of the qualifying scenarios. There are no applicable corrective action costs for the remaining causal events as they have been determined not to represent a reasonable foreseeable occurrence. Based on these findings, the amount of \$522,200 should be used as the basis for complying with the corrective action financial assurance requirements for a non-water release.

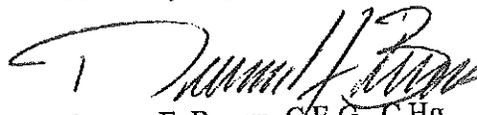
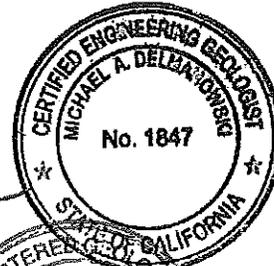
CLOSING

EBA appreciates the opportunity to be of service to the Authority on this project. If you should have any questions regarding the information contained herein, please do not hesitate to contact our office at (707) 544-0784.

Sincerely,
EBA ENGINEERING



Mike Delmanowski, C.E.G., C.Hg.
Senior Hydrogeologist



Damon F. Brown, C.E.G., C.Hg.
President



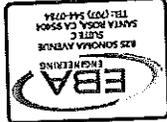
- Enclosures:
- Attachment 1 - Site Plan
 - Attachment 2 - Earthquake Causal Event, Supporting Data
 - Attachment 3 - Flooding Causal Event, Supporting Data
 - Attachment 4 - Tsunami Causal Event, Supporting Data
 - Attachment 5 - Fire Causal Event, Supporting Data
 - Attachment 6 - Precipitation Causal Event, Supporting Data

REFERENCES

- Bray, J.D.; et al.; 1998; *Simplified Seismic Design Procedures for Geosynthetic-Lined, Solid Waste Landfills*; Geosynthetics International; vol. 5; Nos. 1-2; pp. 203-235.
- Brown, Vence & Associates, November 1995, *Crescent City Landfill Final Closure and Postclosure Maintenance Plan*; Prepared for Del Norte Waste Management Authority by Brown, Vence & Associates, Roseville, California.
- Brown, Vence & Associates, May 9, 2005, *Crescent City Landfill Final Closure and Postclosure Maintenance Plan, Amendment One*; Prepared for Del Norte Waste Management Authority by Brown, Vence & Associates, Roseville, California.
- Kavazanjian, E. Jr.; 1999; *Seismic Design of Solid waste containment Facilities* in Proceedings of the Eighth Canadian Conference on Earthquake Engineering, Vancouver, B.C.; pg. 51-89.
- Mualchin, L; 1996; *A Technical Report to Accompany the Caltrans California Seismic Hazard Map 1996 (Based on Maximum Credible Earthquakes)*; California Department of Transportation, Office of Earthquake Engineering; 65pg.
- RS Means®, 2013, *Site Work & Landscape Cost Data*, 32nd Annual Edition.
- United States Geological Survey, 2002, *National Hazard Map for 2 percent probability of Exceedance in 50 years, Mean Return Period 2,475 years*.
- United States Geological Survey, 2008, *National Hazard Map for 2 percent probability of Exceedance in 50 years, Mean Return Period 2,475 years*.
- United States Geological Survey; 2010; *2008 National Hazard Map for 2 percent probability of Exceedance in 50 year, 537m/s Rock*; Revision III, January 2010.
- Vector Engineering; 2005; *Stability Evaluation of the Closure Plan for the Crescent City Landfill*; Vector Engineering, Grass Valley, CA.; May, 2005.
- WeatherSpark, 2013, <http://weatherspark.com/averages/29880/Crescent-City-California-United States>.
- Winzler & Kelly Consulting Engineers, January 2003, *Feasibility Study for Corrective Action Program, Crescent City Landfill, Crescent City, California: Project No. 02-1398-02002*; Prepared for Del Norte Waste Management Authority by Winzler & Kelly Consulting Engineers, Eureka, California.

ATTACHMENT 1

SITE PLAN



CRESCENT CITY LANDFILL
DEL NORTE COUNTY

SITE PLAN

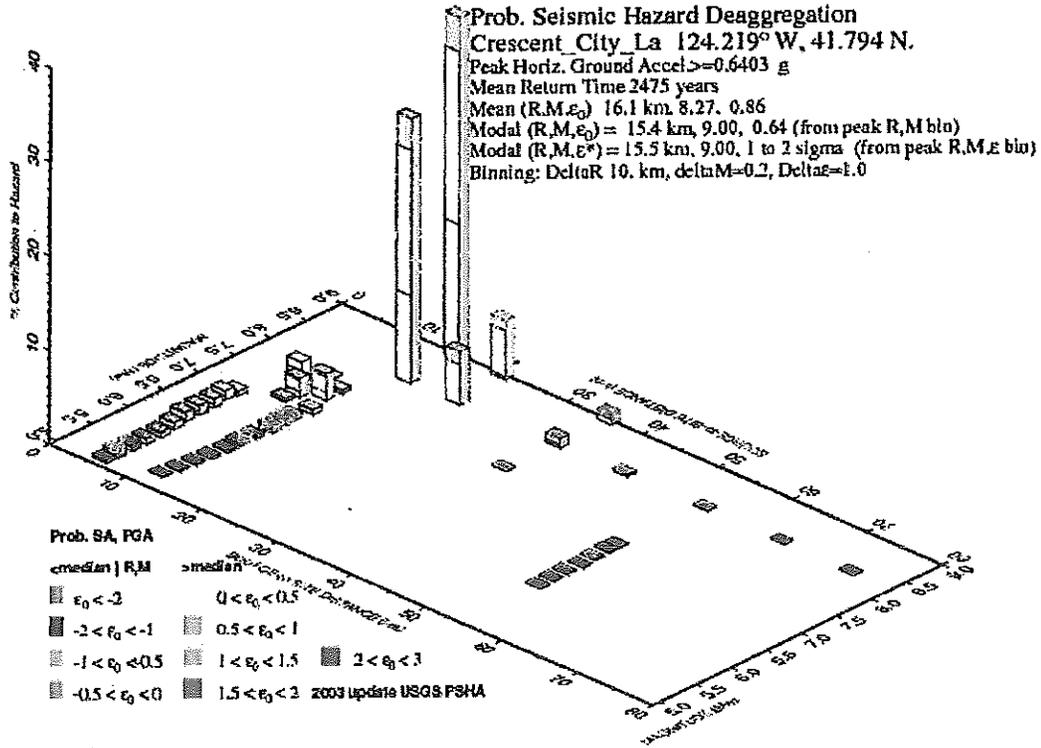
FIGURE
1
13-1902



ATTACHMENT 2
EARTHQUAKE CAUSAL EVENT
SUPPORTING DATA

USGS 2002 ANALYSIS

USGS 2002 Seismic Hazard
 Crescent City Landfill
 EBA: 13-1902



USGS 2002-03 update files and programs. dM=0.2. Site descr:ROCK

*** Deaggregation of Seismic Hazard for PGA & 2 Periods of Spectral Accel. ***
 *** Data from U.S.G.S. National Seismic Hazards Mapping Project, 2002 version ***
 PSHA Deaggregation. %contributions. site: Crescent_City_La long: 124.219 W.,
 lat: 41.794 N.

USGS 2002-03 update files and programs. dM=0.2. Site descr:ROCK
 Return period: 2475 yrs. Exceedance PGA = 0.6403 g.
 #Pr[at least one eq with median motion >= PGA in 50 yrs] = 0.00002

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.8	5.05	0.337	0.196	0.141	0.000	0.000	0.000	0.000
5.8	5.20	0.658	0.335	0.323	0.000	0.000	0.000	0.000
11.8	5.20	0.108	0.108	0.000	0.000	0.000	0.000	0.000
5.9	5.40	0.640	0.251	0.389	0.000	0.000	0.000	0.000
12.1	5.40	0.138	0.138	0.000	0.000	0.000	0.000	0.000
5.9	5.60	0.623	0.191	0.425	0.007	0.000	0.000	0.000
12.3	5.60	0.169	0.166	0.003	0.000	0.000	0.000	0.000
5.9	5.80	0.600	0.148	0.398	0.054	0.000	0.000	0.000

12.5	5.80	0.201	0.176	0.024	0.000	0.000	0.000	0.000
5.6	6.01	0.744	0.131	0.494	0.119	0.000	0.000	0.000
12.7	6.01	0.251	0.198	0.052	0.000	0.000	0.000	0.000
54.4	6.01	0.057	0.057	0.000	0.000	0.000	0.000	0.000
5.3	6.20	1.002	0.133	0.588	0.281	0.000	0.000	0.000
12.6	6.20	0.317	0.211	0.106	0.000	0.000	0.000	0.000
54.3	6.20	0.064	0.064	0.000	0.000	0.000	0.000	0.000
5.3	6.40	1.024	0.112	0.536	0.376	0.000	0.000	0.000
12.7	6.40	0.353	0.194	0.159	0.000	0.000	0.000	0.000
54.1	6.40	0.065	0.065	0.000	0.000	0.000	0.000	0.000
5.3	6.60	0.998	0.095	0.490	0.413	0.000	0.000	0.000
13.0	6.61	0.617	0.339	0.278	0.000	0.000	0.000	0.000
54.3	6.60	0.073	0.067	0.006	0.000	0.000	0.000	0.000
4.9	6.80	0.959	0.077	0.429	0.453	0.000	0.000	0.000
12.8	6.79	0.627	0.280	0.347	0.000	0.000	0.000	0.000
54.0	6.80	0.084	0.068	0.016	0.000	0.000	0.000	0.000
5.2	6.95	0.507	0.040	0.227	0.237	0.002	0.000	0.000
12.7	6.94	0.443	0.180	0.264	0.000	0.000	0.000	0.000
54.0	7.00	0.111	0.071	0.041	0.000	0.000	0.000	0.000
9.4	7.18	0.358	0.039	0.248	0.072	0.000	0.000	0.000
13.2	7.16	0.563	0.164	0.399	0.000	0.000	0.000	0.000
54.0	7.15	0.070	0.034	0.036	0.000	0.000	0.000	0.000
9.7	7.33	2.026	0.195	1.240	0.591	0.000	0.000	0.000
12.0	7.47	2.799	0.296	1.701	0.802	0.000	0.000	0.000
7.6	7.59	2.152	0.133	0.846	1.173	0.000	0.000	0.000
12.2	7.68	0.380	0.031	0.195	0.154	0.000	0.000	0.000
35.0	7.59	0.060	0.060	0.000	0.000	0.000	0.000	0.000
9.4	7.85	0.067	0.004	0.022	0.041	0.000	0.000	0.000
15.5	8.30	28.124	3.372	15.461	9.291	0.000	0.000	0.000
22.1	8.30	5.599	1.322	4.262	0.014	0.000	0.000	0.000
35.3	8.30	0.988	0.687	0.301	0.000	0.000	0.000	0.000
44.2	8.30	0.201	0.175	0.026	0.000	0.000	0.000	0.000
54.8	8.30	0.131	0.131	0.000	0.000	0.000	0.000	0.000
65.0	8.30	0.081	0.081	0.000	0.000	0.000	0.000	0.000
74.4	8.30	0.069	0.069	0.000	0.000	0.000	0.000	0.000
15.4	9.00	36.385	3.693	18.370	14.323	0.000	0.000	0.000
21.5	9.00	6.228	1.055	4.880	0.293	0.000	0.000	0.000
35.5	9.00	1.122	0.528	0.594	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
 Mean src-site R= 16.1 km; M= 8.27; eps0= 0.86. Mean calculated for all sources.

Modal src-site R= 15.4 km; M= 9.00; eps0= 0.64 from peak (R,M) bin

Gridded source distance metrics: Rseis Rrup and Rjb
 MODE R*= 15.5km; M*= 9.00; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 18.370

Modal source dmetric: distance to rupture surface (Youngs et al., SRL, 1997)

Principal sources (faults, subduction, random seismicity having >10% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)
M 9.0 Subduction	43.74	16.8	9.00	0.73
M 8.3 Subduction	35.27	17.8	8.30	0.90
California shallow gridded	10.02	7.1	6.13	1.17

Individual fault hazard details if contrib.>1%:

2 Big Lagoon-Bald Mtn	6.89	9.9	7.47	0.62
2 Big Lagoon-Bald Mtn GR M-dist	2.36	12.3	7.12	1.27

***** Northern California *****

PSHA Deaggregation. %contributions. ROCK site: Crescent_City_La long: 124.219 d
W., lat: 41.794 N.

USGS 2002-2003 update files and programs. Analysis on DaMoYr:25/03/2013

Return period: 2475 yrs. 1.00 s. PSA =0.7492 g.

#Pr[at least one eq with median motion>=PSA in 50 yrs]=0.00003

DIST(km)	MAG(Mw)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.0	6.02	0.099	0.078	0.021	0.000	0.000	0.000	0.000
4.5	6.21	0.202	0.110	0.092	0.000	0.000	0.000	0.000
4.4	6.40	0.287	0.099	0.187	0.000	0.000	0.000	0.000
12.8	6.41	0.073	0.073	0.000	0.000	0.000	0.000	0.000
4.4	6.60	0.375	0.092	0.278	0.005	0.000	0.000	0.000
13.0	6.62	0.166	0.162	0.004	0.000	0.000	0.000	0.000
4.0	6.80	0.465	0.074	0.343	0.048	0.000	0.000	0.000
13.2	6.80	0.261	0.218	0.043	0.000	0.000	0.000	0.000
4.4	6.95	0.285	0.042	0.194	0.049	0.000	0.000	0.000
13.2	6.99	0.283	0.184	0.099	0.000	0.000	0.000	0.000
6.7	7.15	0.203	0.034	0.145	0.025	0.000	0.000	0.000
14.0	7.22	0.364	0.154	0.210	0.000	0.000	0.000	0.000
6.4	7.37	0.897	0.080	0.510	0.307	0.000	0.000	0.000
12.3	7.39	1.356	0.273	1.084	0.000	0.000	0.000	0.000
36.5	7.45	0.199	0.199	0.000	0.000	0.000	0.000	0.000
5.0	7.54	1.528	0.085	0.542	0.901	0.000	0.000	0.000
12.2	7.57	1.667	0.183	1.133	0.350	0.000	0.000	0.000
36.4	7.57	0.135	0.135	0.000	0.000	0.000	0.000	0.000
5.0	7.79	0.134	0.005	0.034	0.085	0.010	0.000	0.000
36.2	7.72	0.158	0.157	0.000	0.000	0.000	0.000	0.000
15.5	8.30	29.516	3.379	12.165	13.973	0.000	0.000	0.000
22.2	8.30	7.515	1.324	4.415	1.776	0.000	0.000	0.000
35.3	8.30	1.872	0.707	1.165	0.000	0.000	0.000	0.000
44.1	8.30	0.382	0.242	0.140	0.000	0.000	0.000	0.000
54.3	8.30	0.189	0.186	0.004	0.000	0.000	0.000	0.000
64.7	8.30	0.063	0.063	0.000	0.000	0.000	0.000	0.000
15.5	9.00	40.336	3.699	16.500	20.136	0.000	0.000	0.000
21.5	9.00	8.473	1.057	4.446	2.970	0.000	0.000	0.000
35.5	9.00	2.143	0.528	1.615	0.000	0.000	0.000	0.000

Summary statistics for above 1.0s PSA deaggregation, R=distance, e=epsilon:
Mean src-site R= 17.1 km; M= 8.56; eps0= 0.66. Mean calculated for all sources.

Modal src-site R= 15.5 km; M= 9.00; eps0= 0.46 from peak (R,M) bin

Gridded source distance metrics: Rseis Rrup and Rjb

MODE R*= 15.4km; M*= 9.00; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 20.136

Modal source dmetric: distance to rupture surface (Youngs et al., SRL,1997)

Principal sources (faults, subduction, random seismicity having >10% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)
M 9.0 Subduction	50.95	17.3	9.00	0.55
M 8.3 Subduction	39.60	18.3	8.30	0.70

Individual fault hazard details if contrib.>1%:

2 Big Lagoon-Bald Mtn	5.20	9.0	7.48	0.72
2 Big Lagoon-Bald Mtn GR M-dist	1.40	11.9	7.22	1.39

***** Northern California *****

PSHA Deaggregation. %contributions. ROCK site: Crescent_City_La long: 124.219 d
W., lat: 41.794 N.

USGS 2002-2003 update files and programs. Analysis on DaMoYr:25/03/2013

Return period: 2475 yrs. 0.20 s. PSA =1.5390 g.

#Pr[at least one eq with median motion>=PSA in 50 yrs]=0.00000

DIST(km)	MAG(Mw)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.9	5.05	0.335	0.196	0.138	0.000	0.000	0.000	0.000
6.0	5.20	0.646	0.335	0.311	0.000	0.000	0.000	0.000
11.9	5.20	0.123	0.123	0.000	0.000	0.000	0.000	0.000
6.0	5.40	0.618	0.256	0.362	0.000	0.000	0.000	0.000
12.2	5.40	0.162	0.162	0.000	0.000	0.000	0.000	0.000
6.0	5.60	0.594	0.192	0.402	0.000	0.000	0.000	0.000
12.5	5.60	0.202	0.198	0.004	0.000	0.000	0.000	0.000
6.0	5.80	0.568	0.146	0.383	0.039	0.000	0.000	0.000
12.7	5.80	0.239	0.211	0.028	0.000	0.000	0.000	0.000
5.6	6.01	0.699	0.133	0.471	0.094	0.000	0.000	0.000
12.9	6.01	0.301	0.238	0.063	0.000	0.000	0.000	0.000
5.3	6.20	0.931	0.135	0.575	0.222	0.000	0.000	0.000
12.8	6.20	0.378	0.252	0.126	0.000	0.000	0.000	0.000
5.2	6.40	0.948	0.115	0.539	0.295	0.000	0.000	0.000
12.8	6.40	0.418	0.228	0.190	0.000	0.000	0.000	0.000
5.2	6.60	0.919	0.096	0.504	0.319	0.000	0.000	0.000
12.7	6.63	0.894	0.409	0.485	0.000	0.000	0.000	0.000
4.9	6.80	0.864	0.077	0.431	0.355	0.000	0.000	0.000
12.8	6.82	0.770	0.311	0.459	0.000	0.000	0.000	0.000
54.0	6.80	0.052	0.051	0.001	0.000	0.000	0.000	0.000
5.4	6.96	0.496	0.045	0.259	0.191	0.000	0.000	0.000
14.6	6.99	0.422	0.208	0.214	0.000	0.000	0.000	0.000
53.9	7.00	0.072	0.063	0.009	0.000	0.000	0.000	0.000
8.5	7.18	0.225	0.024	0.150	0.051	0.000	0.000	0.000
12.8	7.20	0.864	0.185	0.680	0.000	0.000	0.000	0.000
10.5	7.36	2.302	0.267	1.589	0.446	0.000	0.000	0.000
10.3	7.54	3.725	0.341	2.167	1.218	0.000	0.000	0.000
36.7	7.56	0.090	0.090	0.000	0.000	0.000	0.000	0.000
12.2	7.79	0.080	0.005	0.034	0.041	0.000	0.000	0.000
15.5	8.30	28.199	3.375	15.093	9.731	0.000	0.000	0.000
22.1	8.30	5.972	1.323	4.608	0.041	0.000	0.000	0.000
35.3	8.30	1.115	0.761	0.354	0.000	0.000	0.000	0.000
44.1	8.30	0.215	0.198	0.018	0.000	0.000	0.000	0.000
54.7	8.30	0.126	0.126	0.000	0.000	0.000	0.000	0.000
65.0	8.30	0.076	0.076	0.000	0.000	0.000	0.000	0.000
74.4	8.30	0.065	0.065	0.000	0.000	0.000	0.000	0.000
15.5	9.00	36.632	3.696	18.377	14.559	0.000	0.000	0.000
21.5	9.00	6.615	1.056	4.886	0.673	0.000	0.000	0.000
35.5	9.00	1.285	0.528	0.757	0.000	0.000	0.000	0.000

Summary statistics for above 0.2s PSA deaggregation, R=distance, e=epsilon:
 Mean src-site R= 16.0 km; M= 8.29; eps0= 0.87. Mean calculated for all sources.

Modal src-site R= 15.5 km; M= 9.00; eps0= 0.64 from peak (R,M) bin

Gridded source distance metrics: Rseis Rrup and Rjb

MODE R*= 15.5km; M*= 9.00; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 18.377

Modal source dmetric: distance to rupture surface (Youngs et al., SRL,1997)

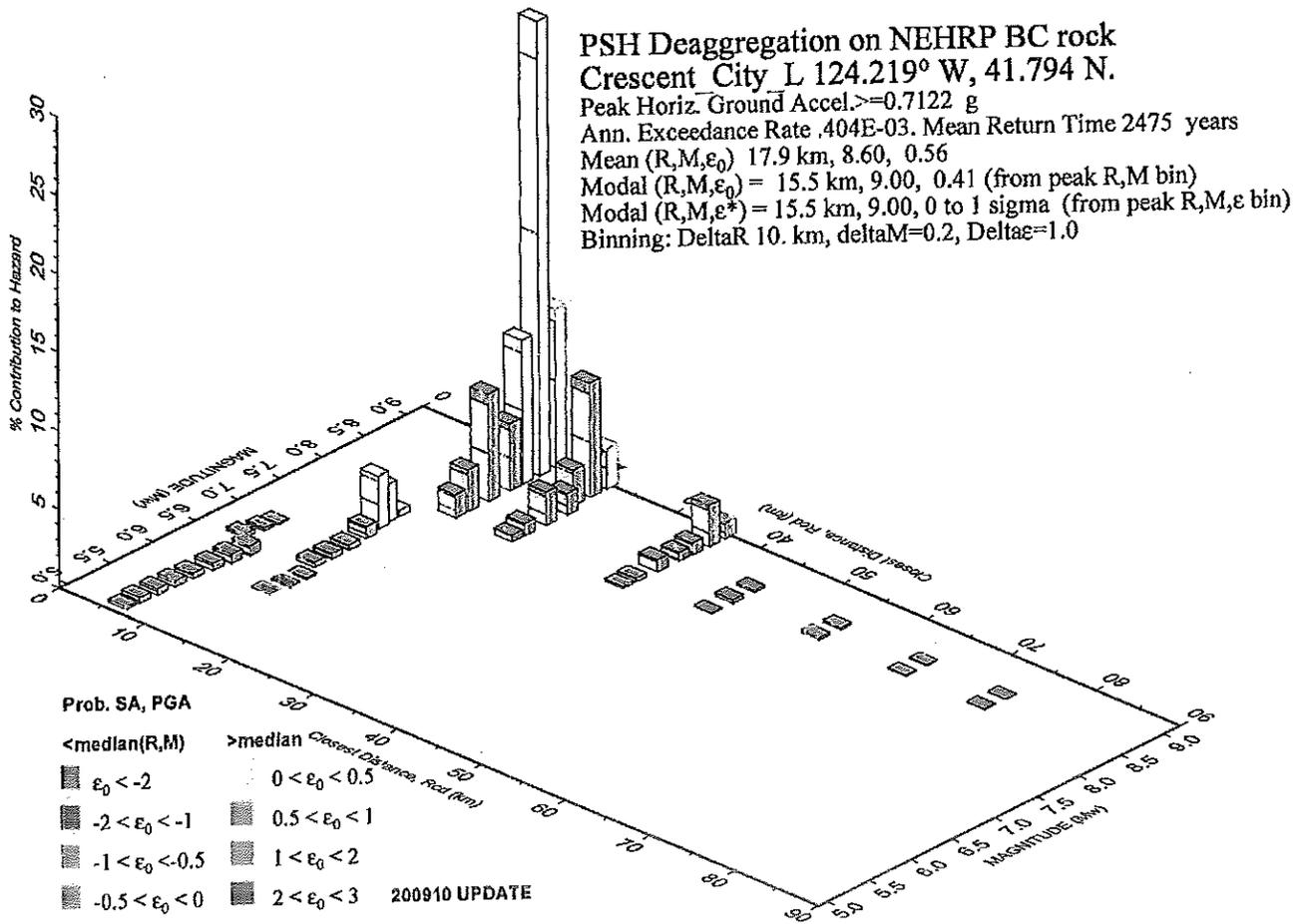
Principal sources (faults, subduction, random seismicity having >10% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)
M 9.0 Subduction	44.53	16.9	9.00	0.73
M 8.3 Subduction	35.84	17.9	8.30	0.89
California shallow gridded	10.01	7.6	6.13	1.27

Individual fault hazard details if contrib.>1%:

2	Big Lagoon-Bald Mtn	5.91	10.2	7.46	0.76
2	Big Lagoon-Bald Mtn GR M-dist	2.52	12.8	7.08	1.32
***** Northern California *****					

USGS 2008 ANALYSIS



USGS 2008 Seismic Hazard
 Crescent City Landfill
 EBA: 13-1902

*** Deaggregation of Seismic Hazard at One Period of Spectral Accel. ***
 *** Data from U.S.G.S. National Seismic Hazards Mapping Project, 2008 version ***
 PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat:
 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
 NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
 Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex
 0.404E-03

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00023
 #This deaggregation corresponds to Mean Hazard w/all GMPEs

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.9	5.05	0.164	0.120	0.044	0.000	0.000	0.000	0.000
6.0	5.20	0.364	0.234	0.131	0.000	0.000	0.000	0.000
6.1	5.40	0.399	0.194	0.206	0.000	0.000	0.000	0.000
6.2	5.60	0.401	0.163	0.220	0.019	0.000	0.000	0.000
6.3	5.80	0.369	0.132	0.203	0.035	0.000	0.000	0.000
6.5	6.01	0.452	0.153	0.265	0.034	0.000	0.000	0.000
13.2	6.00	0.055	0.055	0.000	0.000	0.000	0.000	0.000
6.8	6.20	0.601	0.188	0.363	0.050	0.000	0.000	0.000
13.6	6.20	0.072	0.067	0.005	0.000	0.000	0.000	0.000
7.0	6.40	0.617	0.146	0.383	0.087	0.000	0.000	0.000
13.7	6.40	0.097	0.085	0.012	0.000	0.000	0.000	0.000
4.3	6.60	0.219	0.036	0.118	0.064	0.002	0.000	0.000
12.7	6.60	0.317	0.093	0.191	0.034	0.000	0.000	0.000
4.7	6.80	0.182	0.028	0.099	0.053	0.002	0.000	0.000
12.7	6.80	0.342	0.092	0.197	0.054	0.000	0.000	0.000
4.9	6.95	0.074	0.011	0.040	0.022	0.001	0.000	0.000
12.7	7.00	0.346	0.077	0.187	0.081	0.002	0.000	0.000
12.3	7.24	0.746	0.108	0.363	0.258	0.017	0.000	0.000
11.9	7.43	3.351	0.319	1.491	1.396	0.145	0.000	0.000
11.6	7.56	2.395	0.232	1.025	1.046	0.092	0.000	0.000
11.6	7.71	0.394	0.032	0.159	0.182	0.020	0.000	0.000
15.5	8.00	1.470	0.188	0.801	0.481	0.000	0.000	0.000
22.2	8.00	0.413	0.073	0.292	0.048	0.000	0.000	0.000
35.3	8.00	0.124	0.040	0.084	0.000	0.000	0.000	0.000
15.5	8.15	2.638	0.308	1.332	0.999	0.000	0.000	0.000
22.3	8.15	0.771	0.120	0.494	0.156	0.000	0.000	0.000
35.4	8.15	0.250	0.068	0.181	0.000	0.000	0.000	0.000
44.3	8.15	0.066	0.024	0.041	0.000	0.000	0.000	0.000
15.5	8.40	6.808	0.699	3.093	3.016	0.000	0.000	0.000
22.3	8.40	2.098	0.273	1.156	0.669	0.000	0.000	0.000
35.4	8.40	0.755	0.159	0.580	0.016	0.000	0.000	0.000
44.3	8.40	0.214	0.060	0.154	0.000	0.000	0.000	0.000
54.7	8.40	0.153	0.058	0.095	0.000	0.000	0.000	0.000
64.9	8.41	0.078	0.042	0.036	0.000	0.000	0.000	0.000
74.3	8.41	0.056	0.043	0.013	0.000	0.000	0.000	0.000
15.5	8.65	4.227	0.391	1.767	2.070	0.000	0.000	0.000
22.3	8.65	1.362	0.153	0.662	0.547	0.000	0.000	0.000
35.4	8.65	0.534	0.089	0.362	0.083	0.000	0.000	0.000

44.4	8.65	0.161	0.035	0.124	0.001	0.000	0.000	0.000
54.7	8.65	0.123	0.035	0.088	0.000	0.000	0.000	0.000
65.0	8.65	0.067	0.025	0.042	0.000	0.000	0.000	0.000
74.4	8.65	0.052	0.026	0.026	0.000	0.000	0.000	0.000
15.5	8.80	9.165	0.806	3.679	4.680	0.000	0.000	0.000
21.5	8.80	2.248	0.230	1.012	1.006	0.000	0.000	0.000
35.5	8.80	0.769	0.114	0.471	0.183	0.000	0.000	0.000
15.5	9.00	28.950	2.412	11.129	15.409	0.000	0.000	0.000
21.5	9.00	7.252	0.688	3.069	3.495	0.000	0.000	0.000
35.5	9.00	2.613	0.343	1.434	0.836	0.000	0.000	0.000
15.5	9.20	10.113	0.806	3.756	5.552	0.000	0.000	0.000
21.5	9.20	2.578	0.230	1.038	1.310	0.000	0.000	0.000
35.5	9.20	0.969	0.114	0.487	0.368	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
 Contribution from this GMPE(%): 100.0
 Mean src-site R= 17.9 km; M= 8.60; eps0= 0.56. Mean calculated for all sources.

Modal src-site R= 15.5 km; M= 9.00; eps0= 0.41 from peak (R,M) bin
 MODE R*= 15.5km; M*= 9.00; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 15.409
 Modal-source dmetric: distance to rupture surface (Rrup or Rcd)

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
Cascadia M8.0-M8.2 Floating	5.89	19.7	8.10	0.85
Cascadia M8.3-M8.7 Floating	16.86	21.4	8.50	0.69
Cascadia Megathrust	64.66	18.0	9.00	0.45
WUS Compr crustal gridded	3.68	6.9	5.97	1.31
California B-faults Char	5.42	12.0	7.51	0.40

Individual fault hazard details if its contribution to mean hazard > 2%:

Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src azimuth(d)
Big Lagoon-Bald Mtn Char	5.33	11.6	7.51	0.37	-97.2
Big Lagoon-Bald Mtn GR	2.51	12.6	7.15	0.77	-133.2

*****End of deaggregation corresponding to Mean Hazard w/all GMPEs
 *****#

PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat: 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).

NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below

Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex 0.320E-04

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00000

#This deaggregation corresponds to Youngs et al. 1997

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
53.2	5.41	0.007	0.007	0.000	0.000	0.000	0.000	0.000
53.6	5.60	0.011	0.011	0.000	0.000	0.000	0.000	0.000
53.8	5.80	0.013	0.013	0.000	0.000	0.000	0.000	0.000
61.9	5.81	0.006	0.006	0.000	0.000	0.000	0.000	0.000
53.7	6.01	0.016	0.016	0.000	0.000	0.000	0.000	0.000
62.7	6.01	0.012	0.012	0.000	0.000	0.000	0.000	0.000
53.8	6.20	0.021	0.021	0.000	0.000	0.000	0.000	0.000
63.4	6.20	0.015	0.015	0.000	0.000	0.000	0.000	0.000
53.9	6.40	0.022	0.022	0.000	0.000	0.000	0.000	0.000
64.0	6.40	0.017	0.017	0.000	0.000	0.000	0.000	0.000

74.3	6.40	0.005	0.005	0.000	0.000	0.000	0.000	0.000
53.9	6.60	0.023	0.023	0.000	0.000	0.000	0.000	0.000
64.2	6.60	0.019	0.019	0.000	0.000	0.000	0.000	0.000
74.2	6.60	0.006	0.006	0.000	0.000	0.000	0.000	0.000
53.7	6.80	0.023	0.023	0.000	0.000	0.000	0.000	0.000
64.2	6.80	0.022	0.022	0.000	0.000	0.000	0.000	0.000
74.2	6.80	0.007	0.007	0.000	0.000	0.000	0.000	0.000
84.0	6.81	0.006	0.006	0.000	0.000	0.000	0.000	0.000
53.7	7.00	0.023	0.023	0.000	0.000	0.000	0.000	0.000
63.8	7.00	0.023	0.023	0.000	0.000	0.000	0.000	0.000
74.0	7.00	0.008	0.008	0.000	0.000	0.000	0.000	0.000
84.4	7.00	0.008	0.008	0.000	0.000	0.000	0.000	0.000
53.8	7.15	0.011	0.011	0.000	0.000	0.000	0.000	0.000
63.6	7.15	0.012	0.012	0.000	0.000	0.000	0.000	0.000
74.1	7.15	0.004	0.004	0.000	0.000	0.000	0.000	0.000
84.4	7.15	0.005	0.005	0.000	0.000	0.000	0.000	0.000
15.5	8.00	0.141	0.060	0.081	0.000	0.000	0.000	0.000
22.2	8.00	0.039	0.024	0.016	0.000	0.000	0.000	0.000
35.3	8.00	0.011	0.011	0.000	0.000	0.000	0.000	0.000
15.5	8.15	0.246	0.099	0.147	0.000	0.000	0.000	0.000
22.3	8.15	0.070	0.039	0.031	0.000	0.000	0.000	0.000
35.4	8.15	0.022	0.021	0.000	0.000	0.000	0.000	0.000
44.2	8.15	0.006	0.006	0.000	0.000	0.000	0.000	0.000
15.5	8.40	0.613	0.227	0.386	0.000	0.000	0.000	0.000
22.3	8.40	0.183	0.089	0.094	0.000	0.000	0.000	0.000
35.4	8.40	0.062	0.052	0.011	0.000	0.000	0.000	0.000
44.3	8.40	0.017	0.017	0.000	0.000	0.000	0.000	0.000
54.6	8.40	0.012	0.012	0.000	0.000	0.000	0.000	0.000
64.9	8.41	0.006	0.006	0.000	0.000	0.000	0.000	0.000
15.5	8.65	0.373	0.127	0.245	0.000	0.000	0.000	0.000
22.3	8.65	0.116	0.050	0.066	0.000	0.000	0.000	0.000
35.4	8.65	0.043	0.029	0.013	0.000	0.000	0.000	0.000
44.3	8.65	0.012	0.011	0.001	0.000	0.000	0.000	0.000
54.7	8.65	0.009	0.009	0.000	0.000	0.000	0.000	0.000
64.9	8.65	0.005	0.005	0.000	0.000	0.000	0.000	0.000
15.5	8.80	0.802	0.263	0.539	0.000	0.000	0.000	0.000
21.5	8.80	0.190	0.075	0.115	0.000	0.000	0.000	0.000
35.5	8.80	0.061	0.038	0.023	0.000	0.000	0.000	0.000
15.5	9.00	2.519	0.786	1.733	0.000	0.000	0.000	0.000
21.5	9.00	0.609	0.225	0.385	0.000	0.000	0.000	0.000
35.5	9.00	0.204	0.112	0.092	0.000	0.000	0.000	0.000
15.5	9.20	0.879	0.263	0.616	0.000	0.000	0.000	0.000
21.5	9.20	0.217	0.075	0.141	0.000	0.000	0.000	0.000
35.5	9.20	0.076	0.038	0.038	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
Contribution from this GMPE(%): 7.9

Mean src-site R= 20.4 km; M= 8.74; eps0= 1.55. Mean calculated for all sources.

Modal src-site R= 15.5 km; M= 9.00; eps0= 1.45 from peak (R,M) bin

MODE R*= 15.5km; M*= 9.00; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 1.733
Modal-source dmetric: distance to rupture surface (Rrup or Rcd)

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
Cascadia Megathrust	5.56	17.8	9.00	1.48

*****End of deaggregation corresponding to Youngs et al. 1997
 *****#

PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat: 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
 NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below

Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex
 0.131E-04

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00000
 #This deaggregation corresponds to Boore-Atkinson 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.2	5.05	0.019	0.019	0.000	0.000	0.000	0.000	0.000
5.2	5.20	0.047	0.047	0.000	0.000	0.000	0.000	0.000
5.3	5.40	0.057	0.050	0.007	0.000	0.000	0.000	0.000
5.4	5.60	0.063	0.049	0.014	0.000	0.000	0.000	0.000
5.5	5.80	0.067	0.049	0.018	0.000	0.000	0.000	0.000
5.6	6.01	0.090	0.056	0.035	0.000	0.000	0.000	0.000
5.8	6.20	0.115	0.065	0.050	0.000	0.000	0.000	0.000
13.1	6.21	0.004	0.004	0.000	0.000	0.000	0.000	0.000
6.1	6.40	0.113	0.064	0.049	0.000	0.000	0.000	0.000
13.7	6.40	0.009	0.009	0.000	0.000	0.000	0.000	0.000
3.5	6.60	0.035	0.019	0.016	0.000	0.000	0.000	0.000
12.4	6.60	0.095	0.026	0.058	0.011	0.000	0.000	0.000
4.0	6.80	0.031	0.017	0.014	0.000	0.000	0.000	0.000
12.6	6.80	0.108	0.029	0.062	0.017	0.000	0.000	0.000
23.2	6.80	0.002	0.002	0.000	0.000	0.000	0.000	0.000
4.2	6.95	0.013	0.007	0.006	0.000	0.000	0.000	0.000
12.6	7.00	0.114	0.026	0.063	0.025	0.000	0.000	0.000
22.8	6.99	0.002	0.002	0.000	0.000	0.000	0.000	0.000
38.6	7.07	0.004	0.004	0.000	0.000	0.000	0.000	0.000
12.3	7.24	0.249	0.038	0.133	0.078	0.000	0.000	0.000
22.8	7.21	0.003	0.003	0.000	0.000	0.000	0.000	0.000
35.7	7.24	0.006	0.006	0.000	0.000	0.000	0.000	0.000
11.8	7.45	1.437	0.142	0.730	0.565	0.000	0.000	0.000
31.6	7.44	0.022	0.022	0.000	0.000	0.000	0.000	0.000
11.6	7.60	0.386	0.046	0.196	0.144	0.000	0.000	0.000
31.3	7.58	0.029	0.028	0.001	0.000	0.000	0.000	0.000
11.6	7.71	0.120	0.011	0.058	0.051	0.000	0.000	0.000
31.3	7.71	0.004	0.003	0.001	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
 Contribution from this GMPE(%): 3.2

Mean src-site R= 11.1 km; M= 7.10; eps0= 0.83. Mean calculated for all sources.

Modal src-site R= 11.8 km; M= 7.45; eps0= 0.56 from peak (R,M) bin
 MODE R*= 11.8km; M*= 7.45; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 0.730

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)	Site-to-src azimuth(d)
Individual fault hazard details if its contribution to mean hazard > 2%:	% contr.	Rcd(km)	M	epsilon0	Site-to-src
Big Lagoon-Bald Mtn Char	1.69	11.6	7.50	0.55	-97.2
Big Lagoon-Bald Mtn GR	0.81	12.5	7.15	0.86	-133.2

*****End of deaggregation corresponding to Boore-Atkinson 2008
 *****#

PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat:
 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
 NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
 Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex
 0.101E-04

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00000
 #This deaggregation corresponds to Campbell-Bozorgnia 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
5.7	5.05	0.026	0.026	0.000	0.000	0.000	0.000	0.000
5.9	5.21	0.075	0.071	0.004	0.000	0.000	0.000	0.000
6.1	5.40	0.110	0.089	0.021	0.000	0.000	0.000	0.000
12.1	5.42	0.002	0.002	0.000	0.000	0.000	0.000	0.000
6.3	5.60	0.121	0.094	0.027	0.000	0.000	0.000	0.000
12.4	5.61	0.006	0.006	0.000	0.000	0.000	0.000	0.000
6.4	5.80	0.107	0.079	0.028	0.000	0.000	0.000	0.000
12.6	5.80	0.009	0.009	0.000	0.000	0.000	0.000	0.000
6.6	6.01	0.124	0.093	0.032	0.000	0.000	0.000	0.000
12.9	6.00	0.012	0.012	0.000	0.000	0.000	0.000	0.000
6.9	6.20	0.178	0.122	0.055	0.000	0.000	0.000	0.000
13.2	6.20	0.017	0.017	0.000	0.000	0.000	0.000	0.000
7.0	6.40	0.202	0.115	0.088	0.000	0.000	0.000	0.000
13.4	6.40	0.026	0.026	0.000	0.000	0.000	0.000	0.000
4.5	6.60	0.094	0.033	0.059	0.002	0.000	0.000	0.000
12.8	6.60	0.083	0.033	0.046	0.004	0.000	0.000	0.000
4.9	6.80	0.072	0.026	0.045	0.001	0.000	0.000	0.000
12.8	6.80	0.080	0.031	0.045	0.004	0.000	0.000	0.000
5.0	6.95	0.028	0.010	0.018	0.000	0.000	0.000	0.000
12.7	6.99	0.064	0.023	0.036	0.005	0.000	0.000	0.000
12.1	7.25	0.110	0.029	0.064	0.018	0.000	0.000	0.000
11.8	7.44	0.506	0.084	0.277	0.145	0.000	0.000	0.000
11.6	7.55	0.379	0.089	0.251	0.038	0.000	0.000	0.000
31.3	7.55	0.002	0.002	0.000	0.000	0.000	0.000	0.000
11.6	7.71	0.061	0.011	0.037	0.014	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
 Contribution from this GMPE(%): 2.5
 Mean src-site R= 9.4 km; M= 6.72; eps0= 1.19. Mean calculated for all
 sources.
 Modal src-site R= 11.8 km; M= 7.44; eps0= 0.87 from peak (R,M) bin
 MODE R*= 11.8km; M*= 7.43; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 0.277

Principal sources (faults, subduction, random seismicity having > 3%
 contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)
Individual fault hazard details if its contribution to mean hazard > 2%:				
Fault ID	% contr.	Rcd(km)	M	epsilon0 Site-to-src
azimuth(d)				
Big Lagoon-Bald Mtn Char	0.83	11.6	7.51	0.97 -97.2
Big Lagoon-Bald Mtn GR	0.43	12.5	7.09	1.20 -133.2

*****End of deaggregation corresponding to Campbell-Bozorgnia 2008
 *****#

PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat: 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
 NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
 Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex
 0.261E-04

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00068
 #This deaggregation corresponds to Chiou-Youngs 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
6.1	5.05	0.119	0.102	0.017	0.000	0.000	0.000	0.000
12.0	5.05	0.003	0.003	0.000	0.000	0.000	0.000	0.000
6.2	5.20	0.242	0.201	0.041	0.000	0.000	0.000	0.000
12.2	5.21	0.012	0.012	0.000	0.000	0.000	0.000	0.000
6.3	5.40	0.233	0.178	0.055	0.000	0.000	0.000	0.000
12.5	5.40	0.021	0.021	0.000	0.000	0.000	0.000	0.000
6.5	5.60	0.217	0.142	0.075	0.000	0.000	0.000	0.000
12.8	5.60	0.029	0.029	0.000	0.000	0.000	0.000	0.000
6.6	5.80	0.196	0.114	0.082	0.000	0.000	0.000	0.000
13.1	5.80	0.036	0.036	0.000	0.000	0.000	0.000	0.000
6.9	6.01	0.237	0.138	0.099	0.000	0.000	0.000	0.000
13.4	6.00	0.042	0.042	0.000	0.000	0.000	0.000	0.000
7.2	6.20	0.309	0.171	0.138	0.000	0.000	0.000	0.000
13.8	6.20	0.050	0.050	0.000	0.000	0.000	0.000	0.000
7.3	6.40	0.301	0.140	0.161	0.000	0.000	0.000	0.000
13.8	6.39	0.063	0.060	0.003	0.000	0.000	0.000	0.000
4.4	6.60	0.091	0.033	0.056	0.002	0.000	0.000	0.000
12.8	6.60	0.140	0.036	0.084	0.019	0.000	0.000	0.000
4.8	6.80	0.079	0.027	0.049	0.003	0.000	0.000	0.000
12.8	6.80	0.154	0.037	0.085	0.032	0.000	0.000	0.000
5.0	6.95	0.033	0.010	0.021	0.001	0.000	0.000	0.000
12.8	7.00	0.168	0.031	0.085	0.051	0.002	0.000	0.000
12.4	7.24	0.387	0.040	0.167	0.162	0.017	0.000	0.000
12.0	7.42	1.408	0.092	0.485	0.686	0.145	0.000	0.000
31.3	7.39	0.003	0.003	0.000	0.000	0.000	0.000	0.000
11.6	7.55	1.631	0.098	0.578	0.864	0.092	0.000	0.000
31.3	7.55	0.022	0.022	0.000	0.000	0.000	0.000	0.000
11.6	7.71	0.213	0.011	0.065	0.117	0.020	0.000	0.000
31.3	7.71	0.004	0.004	0.000	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
 Contribution from this GMPE(%): 6.5
 Mean src-site R= 10.4 km; M= 6.86; eps0= 0.63. Mean calculated for all sources.
 Modal src-site R= 11.6 km; M= 7.55; eps0= 0.17 from peak (R,M) bin
 MODE R*= 11.6km; M*= 7.55; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 0.864

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values)	
Individual fault hazard details if its contribution to mean hazard > 2%:					
Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src
azimuth(d)					
Big Lagoon-Bald Mtn Char	2.81	11.6	7.51	0.09	-97.2
Big Lagoon-Bald Mtn GR	1.27	12.6	7.17	0.56	-133.2

*****End of deaggregation corresponding to Chiou-Youngs 2008
 *****#

PSHA Deaggregation. %contributions. site: Crescent_City_L long: 124.219 W., lat: 41.794 N.

Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).

NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below

Return period: 2475 yrs. Exceedance PGA =0.7122 g. Weight * Computed_Rate_Ex 0.322E-03

#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00000

#This deaggregation corresponds to Zhao et al. 2006

DIST(KM)	MAG(MW)	ALL	EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
15.5	8.00	1.322	0.121	0.721	0.481	0.000	0.000	0.000	0.000
22.2	8.00	0.372	0.047	0.277	0.048	0.000	0.000	0.000	0.000
35.4	8.00	0.112	0.028	0.084	0.000	0.000	0.000	0.000	0.000
15.5	8.15	2.382	0.198	1.185	0.999	0.000	0.000	0.000	0.000
22.3	8.15	0.697	0.078	0.463	0.156	0.000	0.000	0.000	0.000
35.4	8.15	0.226	0.045	0.181	0.000	0.000	0.000	0.000	0.000
44.3	8.15	0.060	0.018	0.041	0.000	0.000	0.000	0.000	0.000
15.5	8.40	6.176	0.453	2.707	3.016	0.000	0.000	0.000	0.000
22.3	8.40	1.908	0.178	1.061	0.669	0.000	0.000	0.000	0.000
35.4	8.40	0.689	0.104	0.569	0.016	0.000	0.000	0.000	0.000
44.3	8.40	0.196	0.042	0.154	0.000	0.000	0.000	0.000	0.000
54.7	8.40	0.141	0.046	0.095	0.000	0.000	0.000	0.000	0.000
64.9	8.41	0.072	0.036	0.036	0.000	0.000	0.000	0.000	0.000
74.3	8.41	0.053	0.039	0.013	0.000	0.000	0.000	0.000	0.000
15.5	8.65	3.846	0.255	1.521	2.070	0.000	0.000	0.000	0.000
22.3	8.65	1.243	0.100	0.597	0.547	0.000	0.000	0.000	0.000
35.4	8.65	0.490	0.058	0.349	0.083	0.000	0.000	0.000	0.000
44.4	8.65	0.148	0.024	0.124	0.001	0.000	0.000	0.000	0.000
54.7	8.65	0.114	0.026	0.088	0.000	0.000	0.000	0.000	0.000
65.0	8.65	0.062	0.020	0.042	0.000	0.000	0.000	0.000	0.000
74.4	8.65	0.049	0.022	0.026	0.000	0.000	0.000	0.000	0.000
15.5	8.80	8.345	0.525	3.139	4.680	0.000	0.000	0.000	0.000
21.5	8.80	2.053	0.150	0.897	1.006	0.000	0.000	0.000	0.000
35.5	8.80	0.706	0.075	0.448	0.183	0.000	0.000	0.000	0.000
15.5	9.00	26.379	1.573	9.396	15.409	0.000	0.000	0.000	0.000
21.5	9.00	6.629	0.449	2.685	3.495	0.000	0.000	0.000	0.000
35.5	9.00	2.403	0.225	1.342	0.836	0.000	0.000	0.000	0.000
15.5	9.20	9.217	0.526	3.139	5.552	0.000	0.000	0.000	0.000
21.5	9.20	2.357	0.150	0.897	1.310	0.000	0.000	0.000	0.000
35.5	9.20	0.891	0.075	0.449	0.368	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:

Contribution from this GMPE(%): 79.6

Mean src-site R= 18.8 km; M= 8.85; eps0= 0.42. Mean calculated for all sources.

Modal src-site R= 15.5 km; M= 9.00; eps0= 0.30 from peak (R,M) bin

MODE R*= 15.5km; M*= 9.00; EPS.INTERVAL: 0 to 1 sigma % CONTRIB.= 15.409

Modal-source dmetric: distance to rupture surface (Rrup or Rcd)

Principal sources (faults, subduction, random seismicity having > 3% contribution)

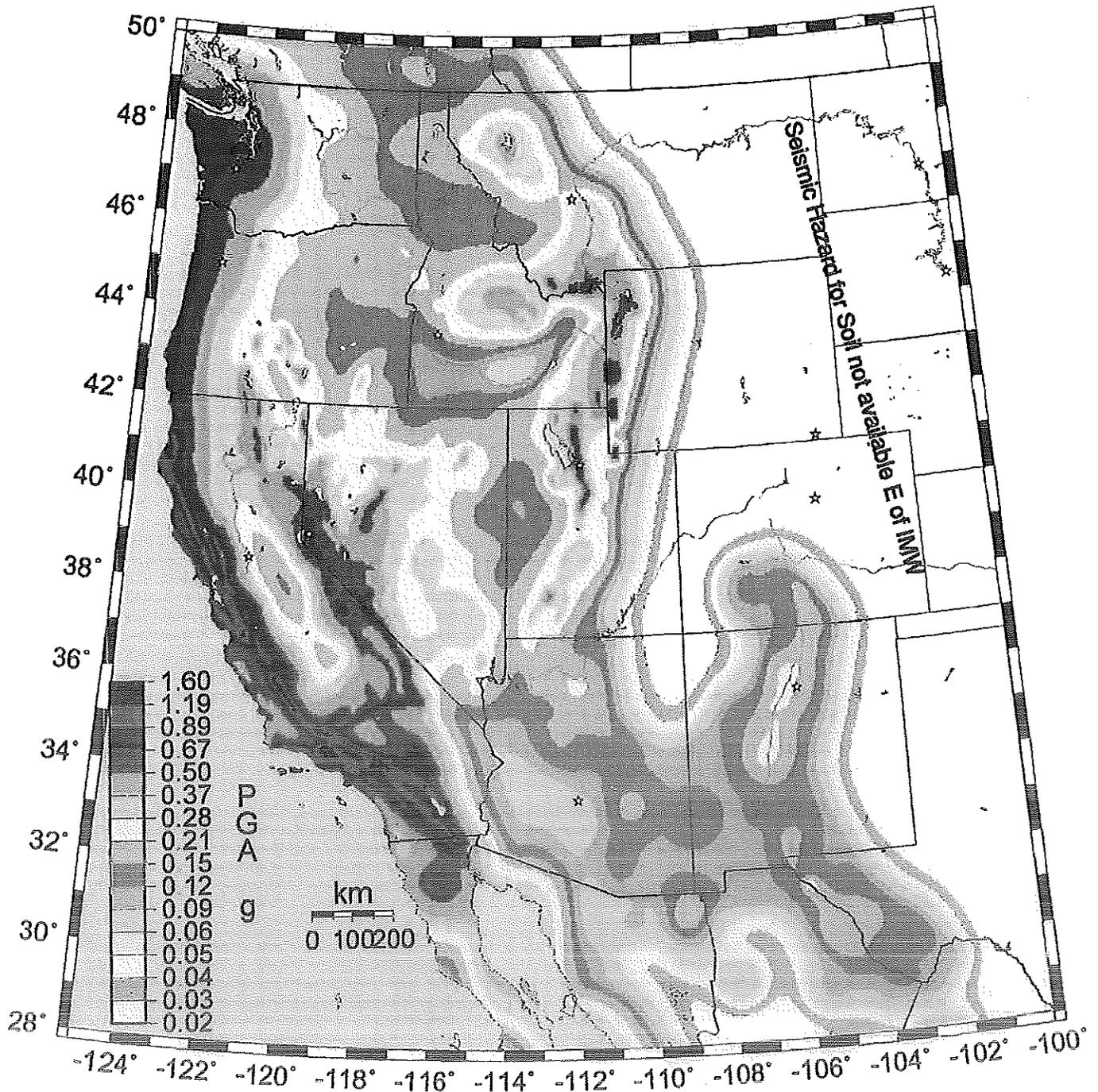
Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
Cascadia M8.0-M8.2 Floating	5.32	19.7	8.10	0.75
Cascadia M8.3-M8.7 Floating	15.35	21.4	8.50	0.60
Cascadia Megathrust	58.98	18.0	9.00	0.35

*****End of deaggregation corresponding to Zhao et al. 2006

*****#

USGS 2010 MAP

SiteClass C, PGA w/2%PE50Yr. 537 m/s Soil

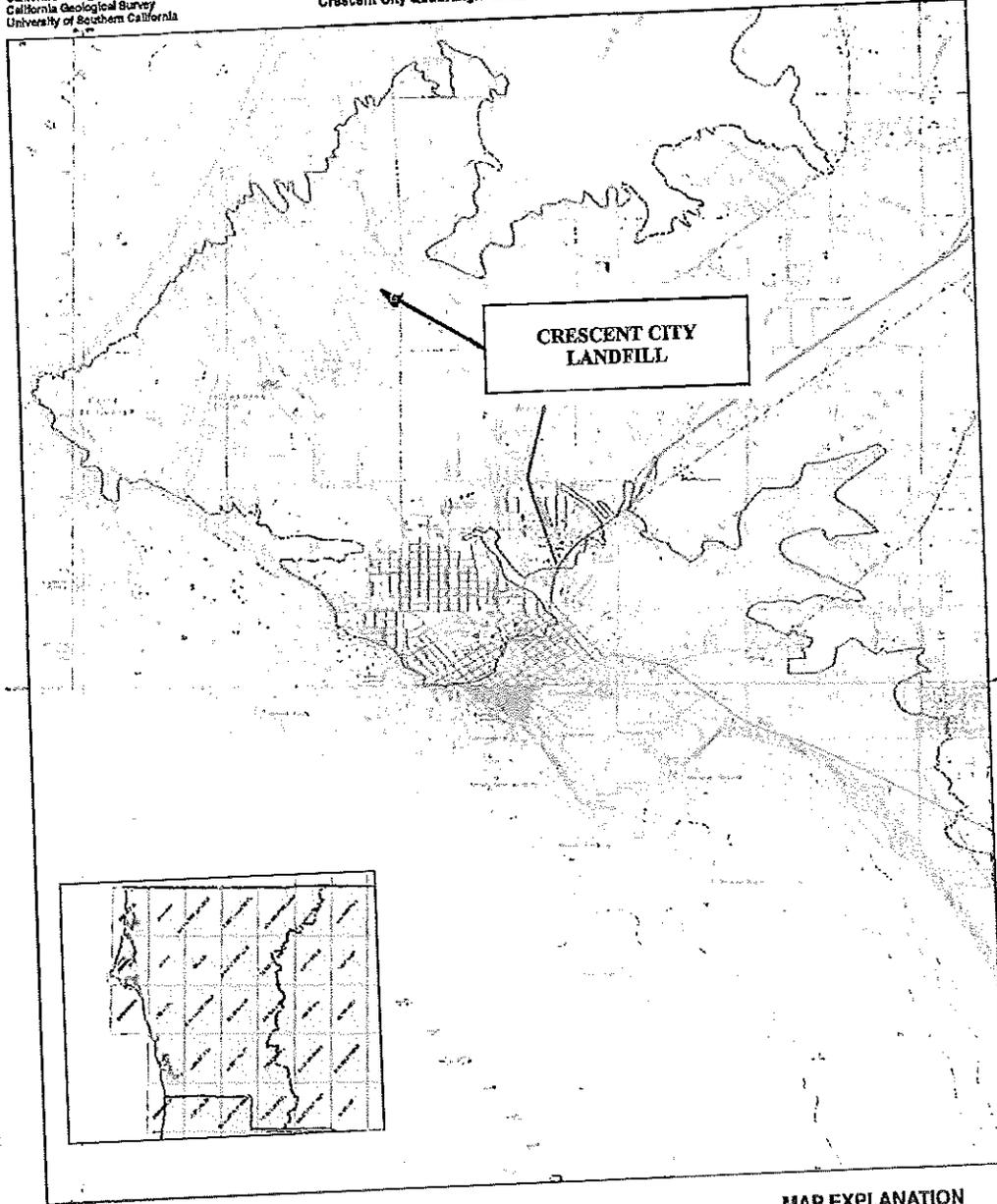


ATTACHMENT 3

**FLOODING CAUSAL EVENT
SUPPORTING DATA**

ATTACHMENT 4

**TSUNAMI CAUSAL EVENT
SUPPORTING DATA**



METHOD OF PREPARATION

In order to prepare this map, the University of Southern California (USC) Tsunami Research Center (TRC) utilized the California Emergency Management Agency (CEMA) and the National Oceanic and Atmospheric Administration (NOAA) in the National Tsunami Hazard Mitigation Program. The TRC received funding from the National Oceanic and Atmospheric Administration (NOAA) to conduct a study of the Crescent City area, which is located on the northern coast of California. The TRC conducted a study of the Crescent City area, which is located on the northern coast of California. The TRC conducted a study of the Crescent City area, which is located on the northern coast of California. The TRC conducted a study of the Crescent City area, which is located on the northern coast of California.

TSUNAMI INUNDATION MAP FOR EMERGENCY PLANNING

State of California ~ County of Del Norte
**CRESCENT CITY QUADRANGLE
SISTER ROCKS QUADRANGLE**
March 30, 2009



Table 1. Tsunami sources modeled by the Del Norte County coastline

Source	Depth (m)	Area (km²)	Distance (km)	Direction
1. Crescent City	1000	100	10	N
2. Crescent City	1000	100	10	S
3. Crescent City	1000	100	10	E
4. Crescent City	1000	100	10	W
5. Crescent City	1000	100	10	NE
6. Crescent City	1000	100	10	SE
7. Crescent City	1000	100	10	NW
8. Crescent City	1000	100	10	SW
9. Crescent City	1000	100	10	ENE
10. Crescent City	1000	100	10	ES
11. Crescent City	1000	100	10	ESE
12. Crescent City	1000	100	10	SSE
13. Crescent City	1000	100	10	SWS
14. Crescent City	1000	100	10	WSW
15. Crescent City	1000	100	10	WNW
16. Crescent City	1000	100	10	NNW
17. Crescent City	1000	100	10	NNW
18. Crescent City	1000	100	10	NNW
19. Crescent City	1000	100	10	NNW
20. Crescent City	1000	100	10	NNW

MAP EXPLANATION

Symbol for tsunami inundation line
Symbol for tsunami inundation line

PURPOSE OF THIS MAP

This map and inundation map were prepared to provide information to emergency responders and the public regarding tsunami inundation. The map is intended to provide information to emergency responders and the public regarding tsunami inundation. The map is intended to provide information to emergency responders and the public regarding tsunami inundation. The map is intended to provide information to emergency responders and the public regarding tsunami inundation. The map is intended to provide information to emergency responders and the public regarding tsunami inundation.

MAP BASE

The map base is derived from the National Oceanic and Atmospheric Administration (NOAA) nautical charts. The map base is derived from the National Oceanic and Atmospheric Administration (NOAA) nautical charts. The map base is derived from the National Oceanic and Atmospheric Administration (NOAA) nautical charts. The map base is derived from the National Oceanic and Atmospheric Administration (NOAA) nautical charts.

DISCLAIMER

The California Emergency Management Agency (CEMA) and the California Geological Survey (CGS) are not responsible for any errors or omissions in this map. The California Emergency Management Agency (CEMA) and the California Geological Survey (CGS) are not responsible for any errors or omissions in this map. The California Emergency Management Agency (CEMA) and the California Geological Survey (CGS) are not responsible for any errors or omissions in this map. The California Emergency Management Agency (CEMA) and the California Geological Survey (CGS) are not responsible for any errors or omissions in this map.

References
California Emergency Management Agency (CEMA) (2008) Tsunami Hazard Mitigation Program. California Geological Survey (CGS) (2008) Tsunami Hazard Mitigation Program. University of Southern California (USC) Tsunami Research Center (TRC) (2008) Tsunami Hazard Mitigation Program. National Oceanic and Atmospheric Administration (NOAA) (2008) Tsunami Hazard Mitigation Program.



ATTACHMENT 5

**FIRE CAUSAL EVENT
SUPPORTING DATA**

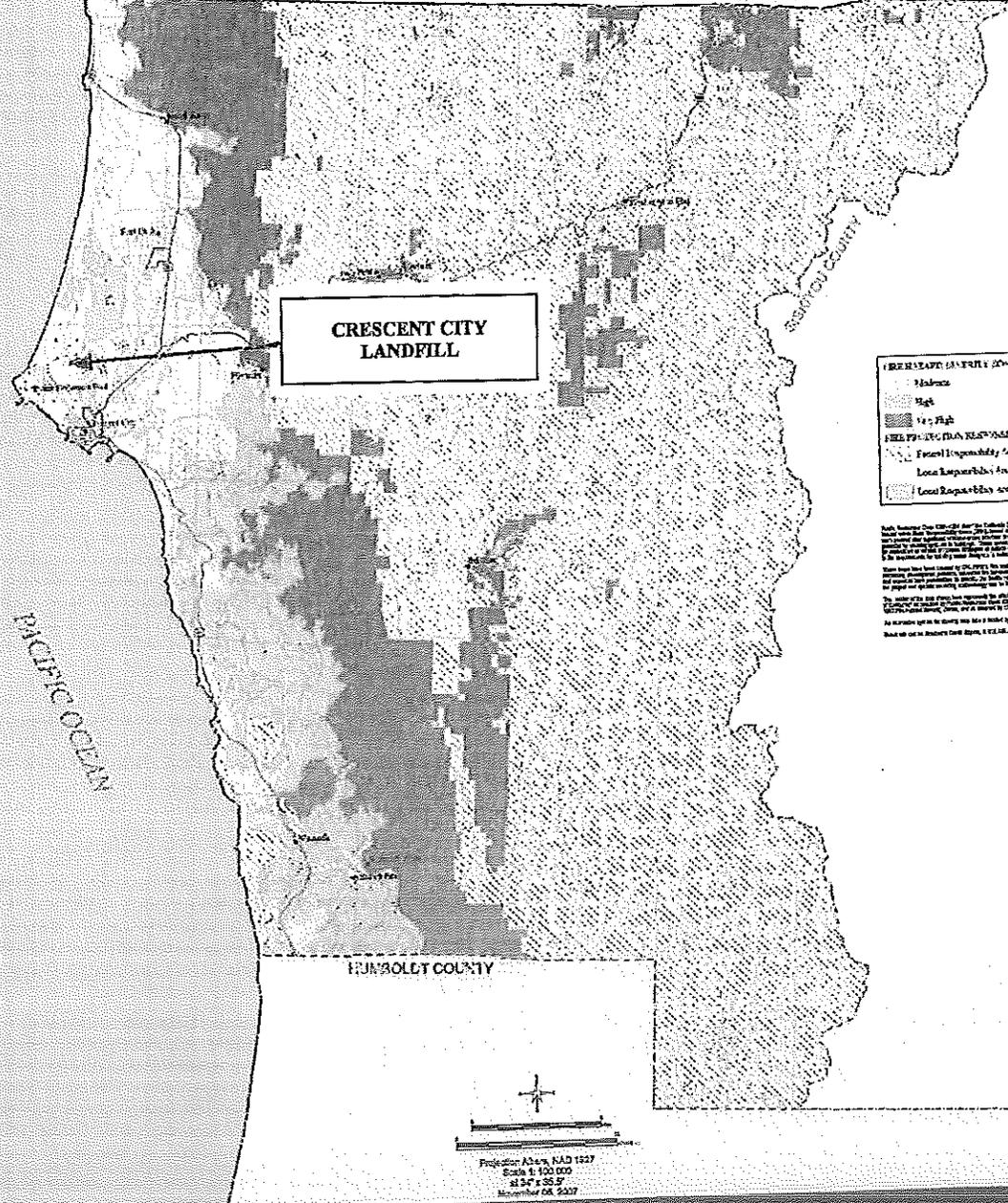


DEL NORTE COUNTY

FIRE HAZARD SEVERITY ZONES IN SRA

Adopted by CAL FIRE on November 7, 2007

OREGON



**CRESCENT CITY
LANDFILL**

FIRE HAZARD SEVERITY (SRA) & Fire Responsibility Area (FRA)

- High
- Very High

FIRE PLANNING RESPONSIBILITY (FPRZ)

- Federal Responsibility Area (FRA)
- Local Responsibility Area (LRA) - Unincorporated
- Local Responsibility Area (LRA) - Incorporated

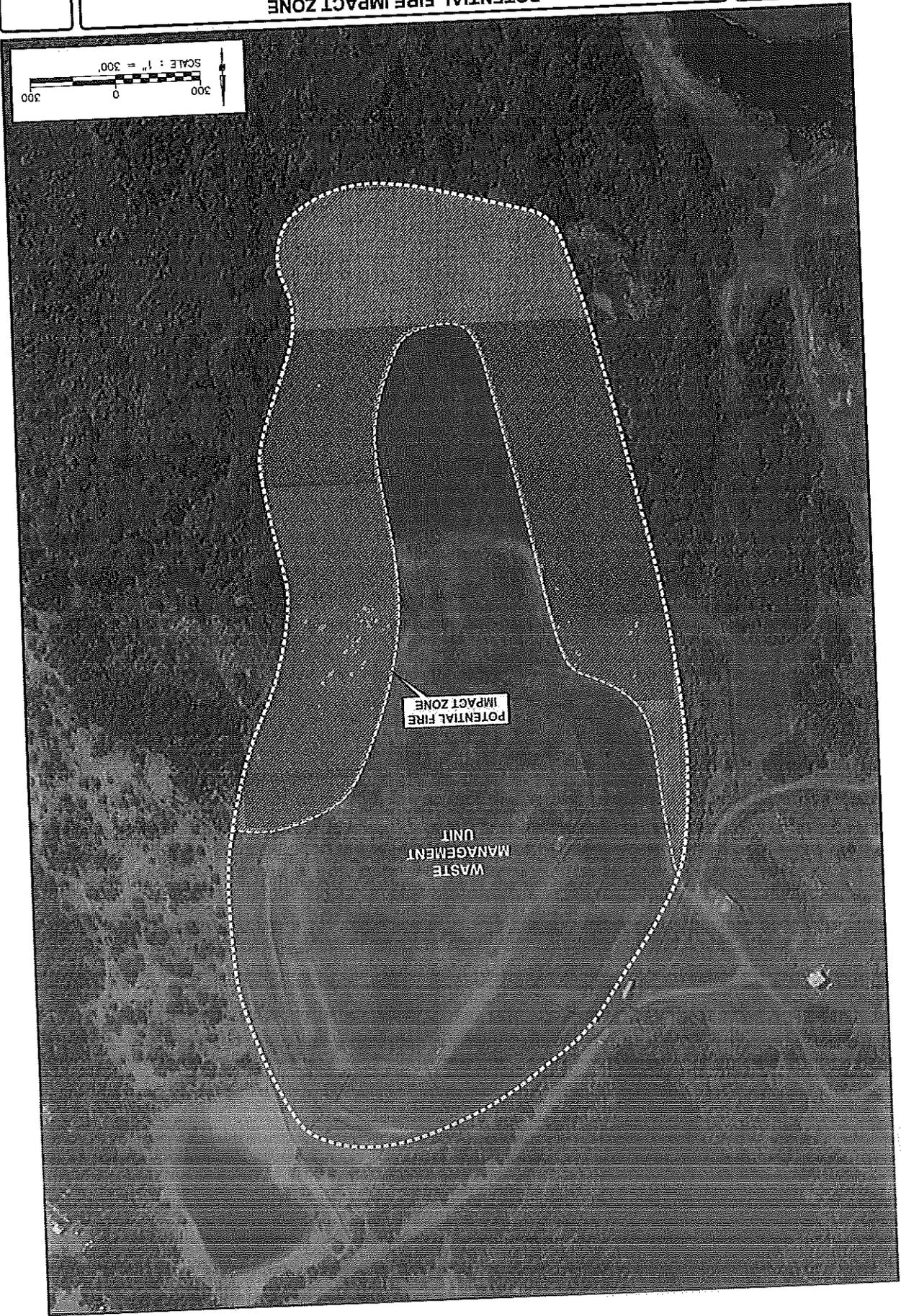
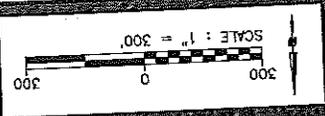
This document was prepared for the National Department of Forestry and the State of Oregon, and is the property of the National Department of Forestry and the State of Oregon. It is not to be used for any other purpose without the written consent of the National Department of Forestry and the State of Oregon. The information contained herein is for informational purposes only and does not constitute a warranty of any kind. The user of this document assumes all liability for any and all consequences of its use. The National Department of Forestry and the State of Oregon are not responsible for any errors or omissions in this document. The information contained herein is for informational purposes only and does not constitute a warranty of any kind. The user of this document assumes all liability for any and all consequences of its use. The National Department of Forestry and the State of Oregon are not responsible for any errors or omissions in this document.





POTENTIAL FIRE IMPACT ZONE

CRESCENT CITY LANDFILL
DEL NORTE COUNTY



POTENTIAL FIRE
IMPACT ZONE

WASTE
MANAGEMENT
UNIT

ATTACHMENT 6

**PRECIPITATION CAUSAL EVENT
SUPPORTING DATA**

Groundwater Investigation Work Plan for the Crescent City Landfill June 2013



Prepared By:


Tedd Ward, M.S.
DNSWMA

Reviewed By:


Mike Delmanowski, C.E.G., C.Hg.
EBA Engineering



Under the direction and supervision of
Jim Barnts, Del Norte County Engineer
and
Kevin Hendrick, Director
Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

(707) 465-1100

TABLE OF CONTENTS

I. Purpose and Overview	3
II. Well Locations	3
III. Well Installation, Development and Sampling	4
A. Well Permit and Monitoring Well Installation	4
B. Determining Screen Placement	5
C. Well Development	6
D. Well Surveying	6
E. Initial Well Sampling and Geotracker	6
F. Decontamination	7
G. Quality Assurance / Quality Control Plan	7
IV. Well Installation Report	8
V. Follow-up Sampling and Reporting	8

APPENDIX A: Figures

I. Purpose and Overview

This Groundwater Investigation Work Plan (Work Plan) for the Crescent City Landfill describes the locations, procedures, and methods for developing and using two new groundwater monitoring locations at the Crescent City Landfill. These two new groundwater monitoring locations are intended to be used to clarify groundwater flow and water quality characteristics nearest to the residential wells to the northeast which are closest to the landfill mound of the Crescent City Landfill. The Del Norte Solid Waste Management Authority (Authority) as administrator of landfill post-closure maintenance, and the County of Del Norte as owner of the landfill, intend to use data collected from these new wells to demonstrate that the Crescent City Landfill is not having an adverse impact on nearby residential wells. If staff of the Regional Water Quality Control Board, North Coast Region (RWQCB) agree that the groundwater elevation and sampling data support such a conclusion, this data will be the basis for justifiably and permanently reducing the Threat / Complexity rating for the Crescent City Landfill from '1A' to a '2A'.

II. Well Locations

The Authority proposes to install two new wells, which will be used to collect depth to groundwater data and water quality samples after initial well development. While these wells will be capable of being used for collecting water samples as required, they are intended to be used primarily as piezometers to assess the direction of groundwater flow between the nearest residential wells and the landfill groundwater wells closest to those residential wells. The attached map (Figure 1, Appendix A) indicates the preferred location for the proposed monitoring wells in a maroon rectangle, and an alternative larger potential area in yellow in case the preferred area is not adequately accessible to the well-drilling rig.

The location shown on Figure 1 was selected to optimize the triangulation associated with the process of determining groundwater contours and to provide additional on-site monitoring points as close to the residential wells as practical to verify groundwater quality characteristics. The preferred location for this pair of new wells is north and east of well WE3S, south and east of W6ES, and southwest of the nearest residential wells. The wells will be field located to ensure accessibility and long term integrity of the wells.

We believe that with a pair of wells, one screened below the 'Marsh' deposit and one screened and sealed above the 'Marsh' deposit in this area would provide adequate information to assess the shallow and deep groundwater contours/gradients and water quality in this area. During the first year after these wells are completed, depth-to-groundwater measurements will be collected quarterly, along with similar data from the nearest four wells. As we record the groundwater elevations for all groundwater wells on the property twice each year,

we hope this additional information will more definitively demonstrate that the Crescent City Landfill is not impacting the nearby residential water wells. The groundwater sampling scheduled for August 2013 will be the first month when these new wells will be included in both the mapping of groundwater levels and included in a groundwater sampling event covering the entire landfill property.

III. Well Installation, Development and Sampling

A. Well Permit and Monitoring Well Installation

Well permits will be obtained through the Del Norte County Department of Environmental Health prior to commencement of the drilling operations. The Authority will pay all required permit fees associated with the proposed work scope.

The new wells will be installed by a qualified C-57 licensed drilling contractor under the direct supervision of a registered geologist or registered civil engineer. As a means to verify the lithology and the upper and lower boundaries of the 'Marsh' deposit, a pilot borehole will be drilled first in the area of the proposed monitoring well locations using a Geoprobe drill rig equipped with a dual-tube sampling system. The lithology in this borehole will be characterized to a depth of about 50 feet below ground surface (BGS) and logged in accordance with ASTM D-2488-90 visual classification system or the Unified Soil Classification System (USCS). Information obtained from this borehole will provide the primary basis for selecting the completion depths and screen intervals for the shallow and deep wells. Upon completion of the sampling, the pilot borehole will be promptly backfilled and abandoned using a high solids bentonite slurry grout to the ground surface.

If the top of the 'Marsh' deposit, and thus the base of the shallow well is less than 35 feet BGS, the Geoprobe rig will also be used to install the shallow well. The Geoprobe rig will utilize 10-inch diameter hollow-stem augers to drill and install this well. Conversely, if the lithology dictates installing the shallow well at a depth beyond the capacity of the Geoprobe rig, a truck-mounted mud rotary drill rig will be used to drill the boreholes for both the shallow and deep wells. Mud rotary drilling methods are proposed at greater depths in lieu of hollow-stem auger methods to compensate for "heaving sand" conditions in the area that characteristically cause problems with well installations using that methodology. The use of drilling mud will also serve to seal-off the 'Shallow' water-bearing zone during installation of the deeper monitoring well. Discrete samples will be collected as needed from the mud rotary rig to characterize the lithology below 50 feet BGS.

Drill cuttings and spent drilling mud used in the drilling process will be discharged to the ground surface. The final disposition of this material will be contingent upon the nature of groundwater impacts, if any, revealed in the new monitoring wells.

The monitoring wells will be constructed of a 4-inch-diameter, Schedule 40 flush-threaded polyvinyl chloride (PVC) blank and 0.02-inch factory slotted casing equipped with a threaded end cap at the base. Please see the following subsection for details regarding the screen placement and depths. Upon encountering the target completion depth, the well casing will be lowered to the base of the borehole. Following placement, the annulus around the slotted casing will be backfilled with filter pack material consisting of No. 2/12 sand (or equivalent) to a height approximately 2 feet above the top of the screened interval.

A two-foot bentonite plug will be placed above the filter pack. The bentonite plugs will consist of CETCO Pure Gold 3/8" bentonite chips or equivalent. If the bentonite plug is located above existing groundwater (shallow monitoring well), the bentonite chips will be hydrated using a water bucket in accordance with the manufacturer's recommendations following every half-bag of bentonite chips placed. Following placement, the bentonite plugs for both the shallow and deep monitoring wells will be allowed to sit for 45 minutes to ensure that they are fully hydrated before placing overlying grout material.

Above the bentonite plug, the remainder of the annular space will be backfilled with a high solids bentonite slurry grout to the ground surface. The top of the blank casing will be completed above-ground inside a locking steel cover and a 2-foot-square concrete pad to prevent surface water from ponding adjacent to each well. A locking expansion plug will be installed on the top of the casing for each well. An illustration of a typical monitoring well construction detail is enclosed as Figure 2 (Appendix A).

B. Determining Screen Placement

Previous drilling on the Crescent City Landfill property has identified sandy 'Shallow' and 'Deep' water-bearing zones separated by a fine-grained unit that impedes flow between the two water-bearing zones. The 'Shallow' water-bearing zone is identified as the Dune Formation and is comprised of well-sorted, poorly graded, fine-grained dune deposits. The 'Deep' water-bearing zone, in turn, represents the Battery Formation that is characterized by medium- to coarse-grained, moderately consolidated sand. Finally, the fine grained unit corresponds to a 'Marsh' deposit consisting of interbedded peat and silty-clayey layers. By installing a pair of wells within 10 to 20 feet of each other, with one each screened above and below the 'Marsh' deposit, the Authority intends to improve assessment of groundwater conditions in both the 'Shallow' and 'Deep' water-bearing zones. Furthermore, these new wells will be sealed and screened so there is no risk of increased flow between these two water-bearing zones.

The boring log for well E-3 Deep, near the target location for the new wells, indicates that the top of the 'Marsh' deposit in this area is between approximately 37 and 41 feet BGS and approximately 2.5 to 7 feet thick. Based on this information, the shallow well will be completed at a depth of approximately 35 feet BGS and screened from 15 to 35 feet BGS. Conversely, the deeper well will be completed at a depth of approximately 65 feet BGS and

screened from 45 to 65 feet BGS, which is generally consistent with other 'Deep' wells on the landfill property, and is designed so that at all times during the year, the deep well will be able to detect the groundwater elevation in the 'Deep' water-bearing zone at all times of the year.

Please note that the actual completion depths will be contingent upon the depth and thickness of the 'Marsh' deposit encountered in the field. Regardless of the final completion depths, the construction of the deeper well will be such that the sanitary seal will extend across the full thickness of the 'Marsh' deposit to ensure there is no risk of increased flow between the 'Shallow' and 'Deep' water-bearing zones.

C. Well Development

The wells will be developed a minimum of 48 hours after their installation to remove residual fines and drilling mud that remain from the drilling and to improve the hydraulic communication between the well filter pack and the natural formation. A submersible pump and/or bailer will be used to purge a minimum of ten casing volumes from each well as part of well development. A surge block may also be used during development to promote the dislodgment of fines entrained within the filter pack. Purge volumes will be estimated using a stopwatch and a bucket to estimate flow rate, from which the time to purge the required volume will be calculated. In addition, indicator parameters (temperature, specific conductance, and pH) will be measured throughout the development process using a hand-held meter to monitor stabilization characteristics.

D. Well Surveying

The Del Norte County Engineering Department will complete and appropriately stamp a survey of the northing, easting, and elevation of the top of each new well casing and adjoining ground surface. Elevations will be surveyed to the nearest 0.01 foot. This information, combined with the boring logs and the Report of Well Completion, will enable accurate determination of the elevation with respect to mean sea level of the screened interval elevations of each well, the sealed bottom of each well and the elevation of groundwater in each well.

E. Initial Well Sampling and Geotracker

The wells will be sampled a minimum of 48 hours following the well development activities. The groundwater sampling procedures will be as follows:

- On the day of sample collection, the water level in each well will be measured and the volume of the water column in each well calculated. A submersible pump will be used to purge a minimum of three times the volume of the water column in each well. Indicator parameters (temperature, specific conductance, and pH) will be measured using a hand-held meter and monitored during

purging. Adequate purging is achieved when these parameters fluctuate by no more than 10 percent in at least two successive measurements and the volume purged is between 2.5 and 4.5 times the volume of the water column prior to purging.

- Upon completion of the purging operations, groundwater samples will be collected from each well using a hand bailer and transferred directly into sterile sample containers provided by North Coast Laboratories of Arcata, California.
- Groundwater samples collected from these two wells will be analyzed for the same constituents as other groundwater wells at the Crescent City Landfill, as prescribed in Monitoring and Reporting Program 97-90, specifically including:
 - Chemical Oxygen Demand
 - VOCs (EPA 8260B)
 - Dissolved metals
 - Minerals
 - Geotracker Reporting

F. Decontamination

All downhole drilling equipment, well development, and water sampling equipment will be decontaminated prior to and after use. All decontamination will be conducted on site, possibly including high pressure, hot water washing or phosphate-free detergent wash followed by distilled, deionized, or clean water rinse. The resulting decontamination rinsate, as well as purge water generated from the well development and sampling activities, will be discharged to the ground surface as the presence of appreciable impacts or contamination is not anticipated in the area of work.

G. Quality Assurance / Quality Control Plan

Quality Assurance and Quality Control (QA/QC) elements for well construction and testing include the following activities:

- On-site supervision during monitoring well drilling, construction, development, and water quality sampling activities.
- Adherence to the site-specific Health and Safety Plan (submitted under separate cover).
- Daily documentation of field activities.
- Lithologic logging of drill cuttings (soil logging).
- Disinfection of all equipment that is placed in the borehole/monitoring wells.
- Inspection of all monitoring well materials prior to use.
- Groundwater elevation measurements and groundwater quality sampling by trained field technicians.

IV. Well Installation Report

Allowing time for the August 2013 groundwater sampling data from both the new and existing nearby wells on the landfill property to be collected and analyzed, within 120 days after the two new wells are installed, a Well Installation Report will be prepared and submitted to the RWQCB that will include the following information:

- A. Boring logs**
- B. Well construction log**
- C. Well development data**
- D. Well survey data**
- E. New well map**
- F. Depth to groundwater data**
- G. Groundwater contour maps**
- H. Groundwater sampling field documentation**
- I. Certified Analytical Report summarizing results of groundwater sample laboratory testing**
- J. Data summary and comparison to nearby wells**
- K. Possible re-test circumstances and procedures, if applicable**
- L. Data analysis with respect to the Threat / Complexity Rating for the Crescent City Landfill**

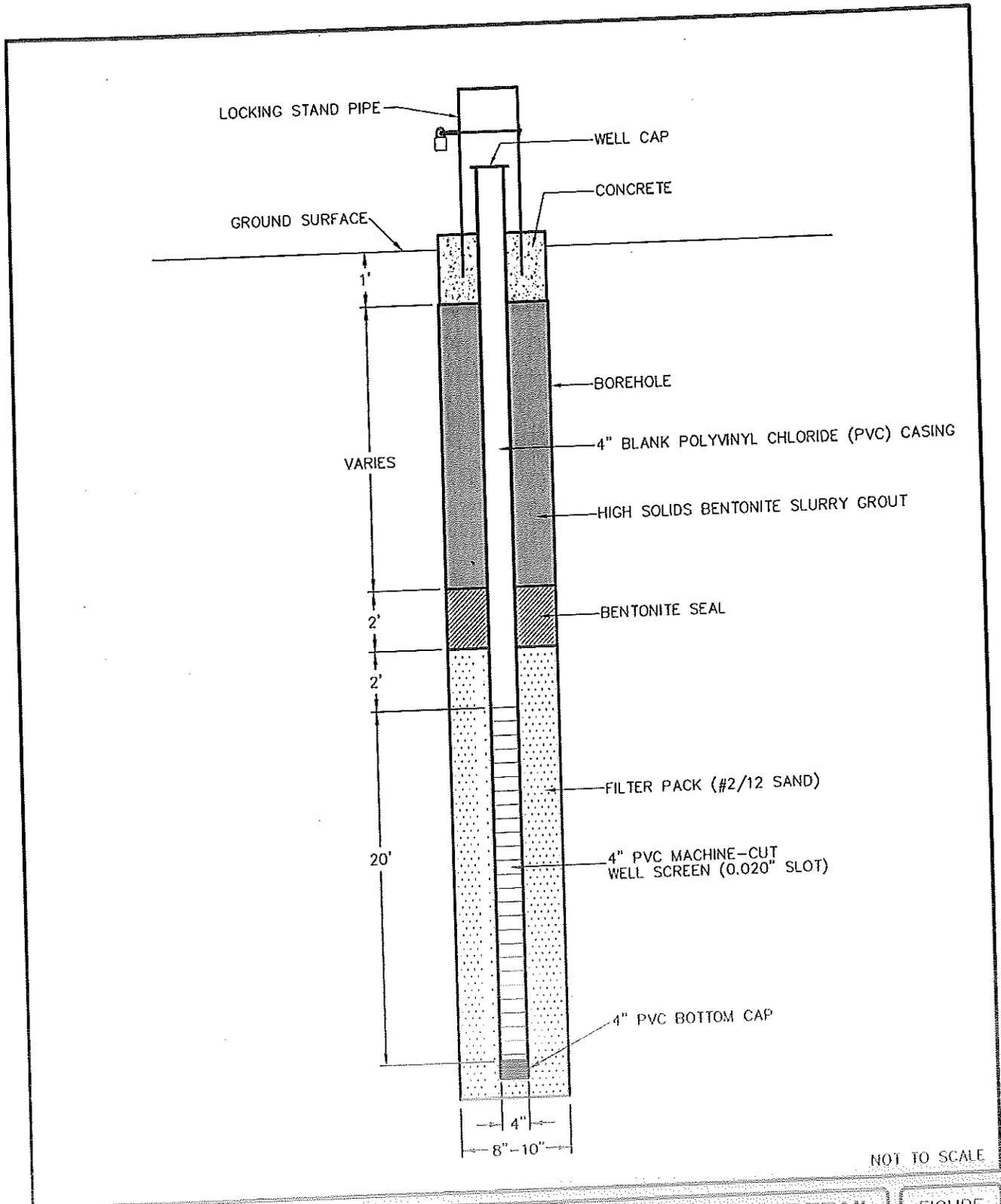
The report will be prepared under the direction and supervision of the County Engineer. The depth-to-groundwater measurements for groundwater contour maps will be collected on a single day in August 2013, and sampling will coincide with the August 2013 sampling of the landfill's entire groundwater monitoring network.

In addition to the Well Installation Report as described above, a 'Report of Well Completion' will be prepared by the drilling contractor in compliance with the California Water Code, Division 7, Chapter 10, Article 3, sections 13750 – 13755. This report will be submitted to the California Department of Water Resources within 60 days of well completion.

V. Follow-up Sampling and Reporting

As part of the Well Installation Report for the Crescent City Landfill, Authority staff will propose how data to be collected from these new wells, possibly including depth-to-groundwater and/or sample collection and analysis for specific constituents, could be incorporated into the Monitoring and Reporting Program for the Crescent City Landfill.

APPENDIX A: FIGURES



TYPICAL MONITORING WELL CONSTRUCTION DETAIL

CRESCENT CITY LANDFILL
CRESCENT CITY, CALIFORNIA

FIGURE

2

13-1902

SITE HEALTH AND SAFETY PLAN

Work Plan Date: May 2013
Field Activities Date: Summer 2013
Site Manager: Del Norte Solid Waste Management Authority
Address: 1700 State Street
Crescent City, CA 95531
Contact Person: Tedd Ward
Telephone No.: (707) 465-1100
Job Location: Crescent City Landfill
End of Hights Access Road off Old Mill Road, Crescent City, California

Project Description: Drilling and Monitoring Well Installation/Sampling

Chemical Hazards: Chemical hazards may be encountered during the course of drilling, sampling and monitoring activities. Potential compounds which may be present in soil and groundwater handled as part of these activities include but are not limited to volatile, semi-volatile, and halogenated organic compounds and metals. Dermal contact with these materials should be avoided since some of these compounds can be absorbed through the skin.

A second source of chemical hazards that may be encountered is landfill gas. Landfill gas may be present in subsurface formation materials and/or may emanate from the landfill surface, boreholes, monitoring wells, vapor probes/well heads, and/or structures/utilities being monitored. Landfill gas is colorless, can be odorless, is combustible, contains little or no oxygen, and may collect in excavations and other confined spaces. The risks of landfill gas include the potential for fire, explosion and asphyxiation.

The principal gases associated with landfill gas are methane (CH₄) and carbon dioxide (CO₂). It is also possible that hydrogen sulfide (H₂S) may be present, as well as trace amounts of other compounds common to sanitary landfills. Trace gases which may be present are ammonia, carbon monoxide, hydrogen, chlorinated and aromatic hydrocarbons, and various other hydrocarbons.

Physical Hazards: Potential physical and health hazards associated with the field activities and/or being present on-site during facility operations include risks from fire and explosion (petroleum hydrocarbons and methane), heavy equipment (drill rig), noise, and overhead/underground utilities. In addition, heat stress may result from the use of personal protective equipment (PPE), overexertion, ambient temperatures, or a combination of all three. All workers will be advised of the symptoms of heat stress. Drinking water will be made available for all workers.

Personal Protective Equipment (PPE) Required: Personnel performing work on-site will be required to have the following PPE available for use, as appropriate: first aid kit, hardhat, eye protection, noise protection, chemical-protective gloves, steel-toed boots, and respirator with organic vapor cartridge.

Air Monitoring Strategy (including action levels): In addition to the employment of PPE, the Health and Safety (H&S) Manager will monitor air in the breathing zone and general work area during drilling activities. Monitoring will include detection for explosive gases and oxygen levels. Equipment to be utilized includes the following or equivalent:

- Portable landfill meter or approved equivalent.

All monitoring instruments will be properly calibrated to the appropriate calibration gas and ambient oxygen at the beginning of each day before the commencement of work. The breathing zone will be monitored using the aforementioned meters for the presence of chemical hazards at the outset of operations (at each location), and periodically throughout the course of drilling operations. In the event chemical hazards are identified in the breathing zone at concentrations that exceed recommended health and safety standards, all work shall stop and workers shall move to a safe location upwind of the work zone. For the purpose of this investigation, action levels to be employed during site operations shall be as follows:

- Methane concentrations equal to or greater than 10 percent of the Lower Explosive Limit (LEL) of 5,000 parts per million by volume (ppmv);
- Oxygen levels equal to or below 19.5 percent; and

Work shall not resume until the identified hazard(s) has been mitigated and the breathing zone meets applicable health and safety standards. Mitigation of the hazard may be accomplished by natural dissipation or through the implementation of proper engineered control measures.

Site Control Measures: Site control measures will include: 1) no eating, drinking, or smoking in work area; 2) bring drinking water; 3) decontaminate boots and sampling equipment prior to leaving site; and 4) inform workers on-site of elevated landfill gas readings and document.

Decontamination Procedures (personal and equipment): Decontaminate boots and soil sampling equipment with trisodium phosphate (TSP) and water. Wash and rinse sampling equipment with clean water. Decontaminate heavy equipment by scraping loose material, then wash with steam cleaning unit.

Emergency Information:

Hospital: Sutter Coast Hospital Phone: (707) 464-8511

Address: 800 East Washington Boulevard, Crescent City, California

Directions from Project Site to Hospital (see Hospital Map enclosed in Attachment A):

- 1) From project site, take Hights Access Road and proceed 0.3 miles NORTHEAST to Old Mill Road.
- 2) Turn RIGHT onto Old Mill Road and proceed 1.5 miles SOUTHEAST to Northcrest Drive.

- 3) Turn RIGHT onto Northcrest Drive and proceed 0.6 miles SOUTH to East Washington Boulevard.
- 4) Turn LEFT onto East Washington Boulevard and proceed 0.3 miles EAST to Sutter Coast Hospital located on the left at 800 East Washington Boulevard.

Directions from Hospital to Project Site:

- 1) From hospital, turn RIGHT onto East Washington Boulevard and proceed 0.3 miles WEST to Northcrest Drive.
- 2) Turn RIGHT onto Northcrest Drive and proceed 0.6 miles NORTH to Old Mill Road.
- 3) Turn LEFT onto Old Mill Road and proceed 1.5 miles NORTHWEST to Hights Access Road.
- 4) Turn LEFT onto Hights Access Road and proceed 0.3 miles SOUTHWEST to project site. Project site located on left.

Paramedic: 911

Fire/Police Dept.: 911

Emergency Procedures: Call 911 for fire or serious injury. Proceed to hospital (see map) if necessary for minor injuries. Call Del Norte Solid Waste Management Authority: (707) 465-1100.

Acknowledgement of Plan Review and Understanding:

Read by:

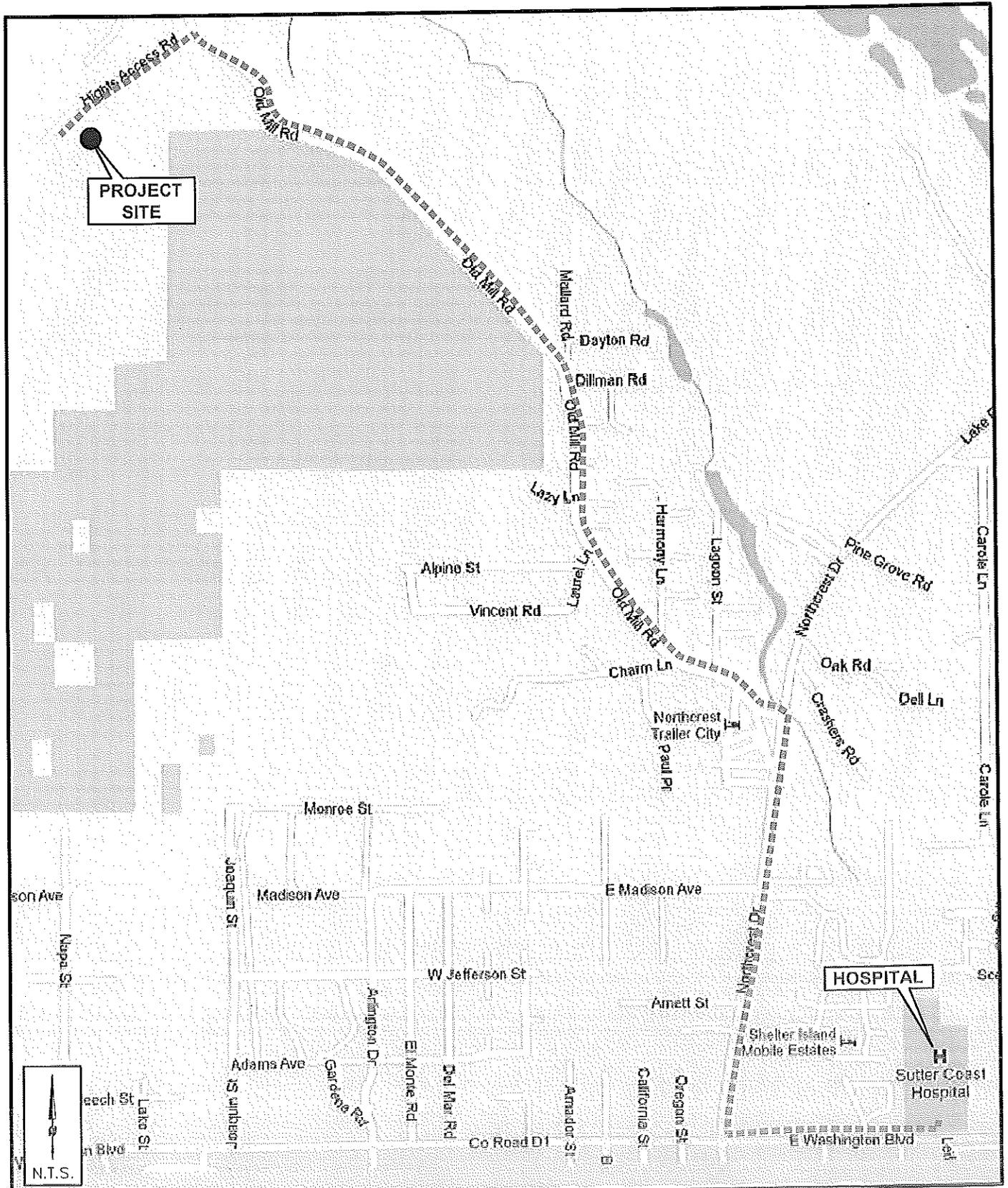
Date:

Read by:

Date

ATTACHMENT A

HOSPITAL MAP



HOSPITAL MAP

CRESCENT CITY LANDFILL
CRESCENT CITY, CALIFORNIA

FISCH DRILLING

3150 JOHNSON ROAD
HYDESVILLE, CA 95547

PHONE: (707) 768-9800

FAX (707) 768-9801

LICENSE # 683865

DATE: June 12, 2013

PROPOSAL

NUMBER: G3952R

SUBMITTED TO:

Del Norte S.W.M.A.
1700 State Street
Crescent City, CA 95531

CONTACT: Tedd Ward

PHONE: (707)465-1100

JOB DISCRPTION: Monitoring Well Install

LOCATION: Crescent City

FAX: (707)

We here by submit the specifications and estimates for the following:

Monitoring Well Drilling Only

- Set Up Fee	Cost \$ 3500.00
- Drilling of Monitoring Wells	Cost \$ 3500.00
- (8) 4" X 5' PVC .020 Screens	Cost \$ 456.00
- (14) 4" X 5' PVC Risers	Cost \$ 595.00
- 2 Stove Pipe Well Boxes & Caps	Cost \$ 700.00
- 18 Bags Well Sand	Cost \$ 270.00
- 4 Bags Bentonite Seal	Cost \$ 60.00
- 10 Bags Bentonite Slurry	Cost \$ 200.00
- 8 Bags Cement 47lb.	Cost \$ 56.00
- Water Sampling	Cost \$ 500.00

Total Cost \$9837.00

- Del Norte S.W.M.A. is responsible for all permits & USA notification. A copy of approved permit shall remain on site during work.
- Any equipment lost or damaged, due to adverse site conditions, will be replaced at cost plus 15%.
- All field testing to be completed by others.
- Professional Review and Well Survey to be completed by others.
- Well Development to be completed by others.
- Fisch Drilling is not responsible for Drill Tailings removal.
- Underground installations or utilities must be marked and located prior to Fisch Drilling mobilizing on site. Fisch Drilling shall not be held responsible for any damages to underground improvements not clearly and accurately marked. If Fisch Drilling arrives on a site that has not had proper USA notification, a half-day rate shall be billed and the job rescheduled. (USA Number on hand to confirm)

Authorized

Signature _____

Chris Fisch, Owner

Acceptance

Signature _____

Kenn Hendrick

Title *Director*

Date

6/14/13

4.4



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

May 22, 2013

To: Board of Commissioners, Del Norte Solid Waste Management Authority

From: Kevin Hendrick, Director *Kevin*

RE: Landfill Liability Insurance

RECOMMENDATION:

Consider submitting an application for landfill liability insurance.

BACKGROUND:

At the last meeting Supervisor Sullivan suggested that we contact Trindel to see if we can acquire landfill liability insurance.

DISCUSSION:

I spoke with David Nelson of Trindel to find out more about the possibility of securing landfill liability insurance through Trindel. He said that six out of ten member Counties have landfill insurance through Trindel. The counties that do not have landfill insurance include Del Norte, Lassen, Plumas and Alpine (which does not have a landfill). Although Del Norte County has a pollution liability policy, it does not cover landfills.

The cost of landfill insurance for Trindel ranges from \$3000 to \$20,000 per year with a deductible ranging from \$25,000 to \$50,000, depending on the number of landfills in each County. Insurance is brokered through Alliant Insurance Services, which has said that it is not possible to give a "ball park" figure on the price for us to get insurance. According to Jan Ragan of Alliant, "The application and ground water reports are essential before rates can be developed. If the insured can furnish these two items, she will try to get an indication from the carrier. For a firm quote, financials and permits would also need to be provided."

FISCAL IMPACT:

The Proposed budget for Fiscal Year 2013/2014 includes \$5000 budget for this insurance.



ace westchester
specialty group

PREMISES POLLUTION LIABILITY APPLICATION

PREMISES POLLUTION LIABILITY COVERAGE APPLICATION – CLAIMS MADE

Answer **ALL** questions completely, leaving no blanks. If any questions, or part thereof, do not apply, print "N/A".

PLEASE SUBMIT THE FOLLOWING INFORMATION IN ADDITION TO THIS APPLICATION:

- 1) Copies of any site specific environmental reports completed during the past 5 years for the covered location(s)
- 2) Audited financial statement and balance sheet from the past two (2) years
- 3) Five years of currently valued loss runs for all lines of coverage

APPLICANT INFORMATION					
NAME OF APPLICANT					DATE
MAILING ADDRESS					
CITY	STATE	ZIP CODE	WEBSITE		
PRINCIPAL ENVIRONMENTAL CONTACT			TITLE		
TELEPHONE	FAX		EMAIL		
DATE FIRM WAS ESTABLISHED			PARENT COMPANY		
Company is: <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Joint Venture <input type="checkbox"/> LLC/LLP <input type="checkbox"/> Other: _____					

REQUESTED COVERAGE		
COVERAGE REQUESTED <input type="checkbox"/> ONSITE CLEANUP <input type="checkbox"/> OFFSITE CLEANUP <input type="checkbox"/> BODILY INJURY & PROPERTY DAMAGE		PROPOSED EFFECTIVE DATE
PROPOSED RETROACTIVE DATE	PROPOSED LIMITS \$	PROPOSED RETENTION \$

PREVIOUS POLLUTION COVERAGE					
Current Carrier	Effective Dates	Limits	Retention	Retroactive Date	Premium
	to	\$ / \$	\$		\$
	to	\$ / \$	\$		\$
	to	\$ / \$	\$		\$

HAS ANY INSURANCE COMPANY EVER DENIED, CANCELLED, OR NON-RENEWED POLLUTION LIABILITY COVERAGE?
 YES NO IF "YES", PLEASE EXPLAIN:

COVERED LOCATION INFORMATION
 PLEASE COMPLETE FOR EACH COVERED LOCATION. COPY AS NECESSARY.

COVERED LOCATION INFORMATION

FACILITY NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

SIC CODE: _____ YEAR STARTED: _____ ACREAGE: _____

DESCRIBE CURRENT OPERATIONS AND IF ANY PRODUCTS ARE MANUFACTURED: _____

DESCRIBE KNOWN HISTORICAL OPERATIONS AT THE LOCATION: _____

FOR THIS LOCATION, PLEASE DESCRIBE ADJACENT PROPERTIES:

NORTH _____ SOUTH _____

EAST _____ WEST _____

DISTANCE TO THE CLOSEST RESIDENTIAL AREA: _____

DISTANCE TO NEAREST BODY OF WATER: _____ TYPE OF WATER BODY (pond, river, stream, etc): _____

NUMBER OF GROUNDWATER WELLS: _____ TYPE OF WELL (drinking or monitoring): _____

IS PUBLIC WATER & SEWER PROVIDED AT THIS LOCATION? YES NO

IS THE LOCATION WITHIN A FLOOD PLAIN YES NO

ARE THERE ANY PLANS FOR FUTURE DEVELOPMENT OF THIS LOCATION? YES NO IF YES, PLEASE DESCRIBE.

SHIPMENT INFORMATION

FOR THIS LOCATION, PLEASE DESCRIBE THIRD PARTY SHIPMENT PROCEDURES:

TYPES OF PRODUCTS SHIPPED: _____ AMOUNT OF PRODUCTS SHIPPED PER WEEK: _____

METHOD OF SHIPMENT (RAILROAD, AUTO, TRUCK, BOAT, etc): _____ ARE PRODUCTS SHIPPED BY PROPERLY LICENSED CARRERS? YES NO

ADDITIONAL INFORMATION

FOR THIS LOCATION, PLEASE IDENTIFY:

HAZARDOUS MATERIALS/CHEMICALS USED, TREATED, OR STORED? YES NO (IF YES, COMPLETE ADDENDUM A)

ANY TREATMENT FACILITIES? YES NO (IF YES, COMPLETE ADDENDUM B)

LANDFILL, TRANSFER STATION, OR RECYCLING FACILITY? YES NO (IF YES, COMPLETE ADDENDUM C)

UNDERGROUND OR ABOVE GROUND STORAGE TANKS? YES NO (IF YES, COMPLETE ADDENDUM D)

If you answer yes to any of the above, a completed addendum will need to be provided.

ENVIRONMENTAL INFORMATION

HAVE ANY ENVIRONMENTAL STUDIES, REPORTS, OR AUDITS (SUCH AS AN ENVIRONMENTAL SITE ASSESSMENT) EVER BEEN PREPARED FOR THIS LOCATION? YES NO IF YES, PLEASE PROVIDE COPIES WITH THIS APPLICATION.

DOES THE LOCATION HAVE ANY RELEVANT ENVIRONMENTAL PERMITS (RCRA, UST, NPDES, etc.)? YES NO IF YES, PLEASE PROVIDE COPIES WITH THIS APPLICATION.

COMPLIANCE HISTORY

ARE YOU AWARE OF ANY NOTICES OF VIOLATION, FINES, PENALTIES, COMPLAINTS, OR RECEIVED ANY CLAIMS OR SUITS RELATING TO ANY POLLUTION CONDITIONS? YES NO
IF YES, PLEASE EXPLAIN:

ARE YOU AWARE OF ANY PAST OR PRESENT POLLUTION CONDITIONS, OR ANY CIRCUMSTANCES WHICH MAY REASONABLY BE EXPECTED TO GIVE RISE TO A CLAIM? YES NO
IF YES, PLEASE EXPLAIN:

ARE YOU AWARE IF ANY OF THE COVERED LOCATION(S) ARE IN NON-COMPLIANCE OF ANY LOCAL, STATE, OR FEDERAL ENVIRONMENTAL REGULATIONS, STANDARDS, OR STATUES? YES NO
IF YES, PLEASE EXPLAIN

**IT IS UNDERSTOOD AND AGREED THAT IF ANY SUCH CLAIMS EXIST, OR ANY SUCH FACTS OR CIRCUMSTANCES EXIST WHICH COULD GIVE RISE TO A CLAIM, THEN THOSE CLAIMS AND ANY OTHER CLAIMS ARISING FROM SUCH FACTS OR CIRCUMSTANCES ARE EXCLUDED FROM THE PROPOSED INSURANCE UNLESS OTHERWISE AFFIRMATIVELY STATED IN THE POLICY.*

BY SIGNING THIS APPLICATION, THE APPLICANT WARRANTS TO THE COMPANY THAT ALL STATEMENTS MADE IN THIS APPLICATION INCLUDING ATTACHMENTS, ABOUT THE APPLICANT AND ITS OPERATIONS ARE TRUE AND COMPLETE, AND THAT NO MATERIAL FACTS HAVE BEEN MISSTATED IN THIS APPLICATION OR CONCEALED. COMPLETION OF THIS FORM DOES NOT BIND COVERAGE. THE APPLICANT'S ACCEPTANCE OF THE COMPANY'S QUOTATION IS REQUIRED BEFORE THE APPLICANT MAY BE BOUND AND A POLICY ISSUED.

ANY PERSON WHO KNOWINGLY AND WITH INTENT TO DEFRAUD ANY INSURANCE COMPANY OR ANOTHER PERSON, FILES AN APPLICATION FOR INSURANCE OR STATEMENT OF CLAIM CONTAINING ANY MATERIALLY FALSE INFORMATION, OR CONCEALS INFORMATION FOR THE PURPOSE OF MISLEADING, COMMITS A FRAUDULENT INSURANCE ACT. SUCH AN ACT IS A CRIME AND SUBJECTS SUCH PERSON TO CRIMINAL AND CIVIL PENALTIES.

Signature of Authorized Applicant	Signature of Broker/Agent
Print Name	Print Name
Title	Agency Name
Date	Date

ACE Westchester Specialty Group - Environmental Division
500 Colonial Center Parkway, Suite 200 Roswell, GA 30076
Phone: 1-800-982-9826 • Fax: 678-795-4569 • Email: wsgatl.environmental@ace-ina.com

COVERED LOCATION INFORMATION

NAME, STREET ADDRESS, CITY, STATE, ZIP CODE:

FACILITY EPA ID #:

STATE ID #:

IS THE FACILITY PERMITTED? YES NO IF YES, BY WHOM?**FACILITY BACKGROUND**

TYPE OF TREATMENT FACILITY (CHECK BOX)

 PROCESS WATER WASTEWATER DRINKING WATER HAZARDOUS WASTE OTHER:

WHEN WAS THE FACILITY BUILT?

WHEN WAS THE FACILITY PERMITTED?

MAXIMUM PERMITTED AMOUNT TREATED:

AVERAGE DAILY AMOUNT TREATED:

PLEASE DESCRIBE TREATMENT METHODS:

IS ANY TREATED MATERIAL OR BY-PRODUCT SOLD OR GIVEN AWAY? YES NO IF YES, PLEASE EXPLAIN.

WHERE IS EFFLUENT DISCHARGED:

HOW IS ACCESS TO THE FACILITY CONTROLLED?

DOES THE FACILITY TREAT ANY RADICACTIVE WASTE? YES NO IF YES, PLEASE EXPLAIN.**EMERGENCY RESPONSE PROCEDURES**DOES THE FACILITY HAVE A WRITTEN EMERGENCY RESPONSE PLAN? YES NO (IF YES, PLEASE PROVIDE A COPY WITH THIS APPLICATION)ARE EMPLOYEES TRAINED ON EMERGENCY RESPONSE PROCEDURES? YES NO HOW OFTEN? _____

ADDENDUM C – RECYCLING FACILITIES, TRANSFER STATIONS, OR LANDFILLS

PLEASE COMPLETE FOR EACH COVERED LOCATION. COPY AS NECESSARY.

COVERED LOCATION INFORMATION	
NAME, STREET ADDRESS, CITY, STATE, ZIP CODE:	
FACILITY EPA ID #:	STATE ID #:
IS THE FACILITY PERMITTED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, BY WHOM:	

FACILITY BACKGROUND			
TYPE OF TREATMENT FACILITY (CHECK BOX)			
<input type="checkbox"/> MUNICIPAL LANDFILL	<input type="checkbox"/> CONSTRUCTION & DEBRIS LANDFILL	<input type="checkbox"/> HAZARDOUS WASTE LANDFILL	
<input type="checkbox"/> TRANSFER STATION	<input type="checkbox"/> RECYCLING FACILITY	<input type="checkbox"/> OTHER: _____	
WHEN WAS THE FACILITY BUILT?		WHEN WAS THE FACILITY PERMITTED?	
MAXIMUM PERMITTED DAILY TONNAGE AMOUNT ACCEPTED:		AVERAGE DAILY TONNAGE AMOUNT ACCEPTED:	
TOTAL ACRES:	DISPOSAL ACRES:	BUFFER ACRES:	BUFFER USE:
PLEASE DESCRIBE MATERIALS ACCEPTED BY THIS FACILITY:			
HOW IS ACCESS TO THE FACILITY CONTROLLED?			
DOES THE FACILITY CURRENT MONITOR THE GROUNDWATER? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE PROVIDE MOST RECENT GROUNDWATER MONITORING REPORTS WITH THIS APPLICATION.			

CELL INFORMATION				
	ID No. _____	ID No. _____	ID No. _____	ID No. _____
ACTIVE OR CLOSED				
DATE FIRST USED				
ESTIMATED CLOSURE DATE				
LINER TYPE				
LINER THICKNESS				
LEACHATE COLLECTION SYSTEM				
METHANE COLLECTION SYSTEM				
GROUNDWATER MONITORING SYSTEM				

ADDENDUM D – STORAGE TANKS

PLEASE COMPLETE FOR EACH COVERED LOCATION. COPY AS NECESSARY.

COVERED LOCATION INFORMATION

NAME, STREET ADDRESS, CITY, STATE, ZIP CODE:	
FACILITY EPA ID #:	STATE ID #:
NUMBER OF ABOVEGROUND STORAGE TANKS:	NUMBER OF UNDERGROUND STORAGE TANKS:

STORAGE TANK SCHEDULE

	ID No. _____				
AST OR UST					
AGE					
CAPACITY (gallons)					
PRODUCT CODE					
CONSTRUCTION CODE					
PROTECTION CODE					
LEAK DETECTION CODE					
SECONDARY CONTAINMENT CODE					
MOST RECENT TANK TESTING DATE					
DID IT PASS OR FAIL?					
HAS THIS TANK BEEN UPGRADED TO THE 1998 STANDARDS?					

ASSOCIATED PIPING

LENGTH OF PIPING (feet)					
AGE					
% OF PIPING UNDERGROUND					
CONSTRUCTION CODE					
PROTECTION CODE					
DISPENSER CODE					
OIL/WATER SEPARATOR IN USE?					

CODES

PRODUCT CODE	CONSTRUCTION CODE	PROTECTION CODE
D – Diesel	DWS – Double Wall Steel	CP – Cathodic Protection
G – Gasoline	DWF – Double Wall Fiberglass	EC – Epoxy Coated
A – Aviation	STIP – STIP-3 Construction	V – Tank Vault
U – Used Oil	SWS – Single Wall Steel	PL – Pit Liner
O – Organic Chemicals	SWF – Single Wall Fiberglass	N – None
I – Inorganic Chemicals	LS – Lined Steel	P – Painted Tank
	UNK – Unknown	UNK – Unknown

LEAK DETECTION CODE	SECONDARY CONTAINMENT CODE	DISPENSING CODE
E – Electronic Monitoring	PC- Poured Concrete	S – Suction
DS – Dip Stick	CB – Concrete Block	P – Pressure
MW – Monitoring Well	E – Earth	
PT – Pressure Test	L – Lined	
SI – Statistical Inventory	N – None	
N – None	UNK – Unknown	
UNK – Unknown		



May 16, 2013

Del Norte Solid Waste Management Authority
Attn: Kevin Hendrick, Director
1700 State St.
Crescent City, CA 95531

Re: Green waste collection service days

Dear Mr. Hendrick:

This letter is a request to change our current green waste collections service days of Monday - Friday to 1 day per week, on Wednesdays.

As per our Franchise Contract, Recology Del Norte currently provides a rate generated green waste collection to our customers who choose to participate in this service. Also per our Franchise Contract all additional services are scheduled for the same service day as refuse collection. At this time Recology Del Norte has 138 green waste customers. Most of these customers do not place their green waste carts out for service each and every week and as a result our entire green waste tonnage for the month of April was 5.48. Placing all green waste customers on a single service day would aide our company in our goal to reduce our carbon footprint.

In order to facilitate this goal a letter would be sent out to all participating green waste customers on Wednesday, May 29, 2013 advising them that the service day change would take effect on Wednesday, July 10, 2013. The customers with service on Monday, July 8th & Tuesday, July 9th would also receive service on Wednesday, July 10th, 2013 for this transition.

Sincerely;



Tommy Sparrow
General Manager

Attachments: April 2013 Green waste tonnage report
Letter to green waste customers

5.1

5/16/13
12:09:33

MONTHLY TONNAGE REPORT BY COMMODITY
DATE RANGE 4/01/2013 THRU 4/30/2013

WTVOLR38 NORCALL
DNSHERRI QPADEV06MJ

RECOLOGY DEL NORTE
FRANCHISE: ALL
CUSTOMER #: ALL

GRNA

GRNC

GRNP

OTHER

WEEK	GRNA	GRNC	GRNP	GRNR	OTHER
WEEK 01					
Mon 04/01	.05	.00	.00	.17	.00
Tue 04/02	.00	.00	.00	.17	.00
Wed 04/03	.00	.00	.00	.24	.00
Thu 04/04	.00	.00	.00	.00	.00
Fri 04/05	.00	.00	.00	.32	.00
Sat 04/06	.00	.00	.00	.00	.00
Sun 04/07	.00	.00	.00	.00	.00
WEEK 02					
Mon 04/08	.00	.00	.00	.01	.00
Tue 04/09	.00	.00	.00	.12	.00
Wed 04/10	.00	.00	.00	.39	.00
Thu 04/11	.00	.00	.00	.00	.00
Fri 04/12	.00	.00	.00	.94	.00
Sat 04/13	.00	.00	.00	.00	.00
Sun 04/14	.00	.00	.00	.00	.00
WEEK 03					
Mon 04/15	.04	.00	.00	.14	.00
Tue 04/16	.00	.00	.00	.25	.00
Wed 04/17	.00	.00	.00	.00	.00
Thu 04/18	.00	.00	.00	.41	.00
Fri 04/19	.00	.00	.00	.00	.00
Sat 04/20	.00	.00	.00	.00	.00
Sun 04/21	.00	.00	.00	.00	.00
WEEK 04					
Mon 04/22	.03	.00	.00	.11	.00
Tue 04/23	.00	.00	.00	.17	.00
Wed 04/24	.00	.00	.00	.45	.00
Thu 04/25	.00	.00	.00	.00	.00
Fri 04/26	.00	.00	.00	.79	.00
Sat 04/27	.00	.00	.00	.00	.00
Sun 04/28	.00	.00	.00	.00	.00
WEEK 05					
Mon 04/29	.04	.00	.00	.15	.00
Tue 04/30	.00	.00	.00	.23	.00
TOTAL ALLOCATION	.16	.00	.00	5.32	.00



May 29, 2013

Dear Valued Customer:

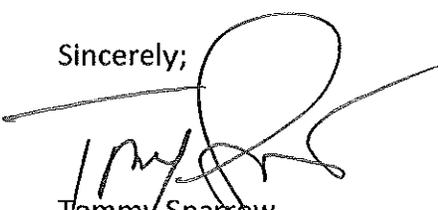
In a further attempt to reduce Recology Del Norte's carbon footprint our company will be consolidating the Green Waste collection service from a Monday – Friday schedule to once per week on Wednesdays effective Wednesday, July 10, 2013.

What this means to you, our customer, is that your green waste collection may not coincide with your refuse collection day. If you are currently scheduled to have green waste collection on Monday, July 8th or Tuesday, July 9th you will receive 2 pickups that week at no additional cost, your current scheduled day and on Wednesday July 10th. For customers with a current Wednesday collection day there will be no change to your services. However, if you are currently scheduled for green waste collection service on Thursday, July 11th or Friday, July 12th you will need to place your green waste cart out for collection on Wednesday July 10th.

From July 10, 2013 on all green waste collection will occur on Wednesdays except during a holiday schedule when the green waste collection would be moved Thursdays.

If you have any questions, please contact our office at the below listed number and/or addresses.

Sincerely;



Tommy Sparrow
General Manager

ORDINANCE NO. 2013-01

**A RATE ORDINANCE OF THE BOARD OF COMMISSIONERS
OF THE DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
ESTABLISHING RATES FOR PROVIDING PUBLIC SCALE SERVICES
AT THE DEL NORTE COUNTY TRANSFER STATION**

WHEREAS, the Del Norte Solid Waste Management Authority is a Joint Powers Authority of the City of Crescent City and the County of Del Norte formed in part to manage the disposition of solid waste and other discards;

WHEREAS, the Del Norte County Transfer Station is the only public facility in Del Norte County that has two certified scales;

WHEREAS, the California Department of Motor Vehicles requires certified commercial truck weight certificates as part of the licensing requirements for such vehicles and some commercial haulers also on occasion request 'check weight' services to assure their loads are within legal limits;

WHEREAS, the only private company providing such 'certified public scale services' may stop providing these services in the coming months;

WHEREAS, the Del Norte Solid Waste Management Authority intends to assure that public scale services continue to be available within Del Norte County so that County residents do not need to travel to Humboldt County for certified public scale services;

WHEREAS, the Service Rates described in this Ordinance cover costs to annually maintain and certify the public scales at the Del Norte County Transfer Station, to apply for appropriate permits from the Division of Measurement Standards of the California Department of Food and Agriculture, allocated facility costs based on a proportional increase in facility traffic, and training and personnel costs for the Weighmaster and Deputy Weighmasters;

WHEREAS, adoption of this Ordinance, completing the permit application process, and training Authority gate attendants to be Deputy Weighmasters must be accomplished for the Authority to be poised to offer public scale services at the Del Norte County Transfer Station, but such Ordinance adoption, permit approval, and training does not necessarily require that such services be offered;

WHEREAS, as a public agency, the Authority will be able to comply with the training, permitting, certification, record keeping and reporting requirements for providing public scale services in compliance with the California Business and Professions Code, Division 5, Chapter 7, and the California Code of Regulations Title 4, Division 9, Chapter 9;

WHEREAS, establishing service rates for certified truck weights and check weight services will provide an alternative for Del Norte residents who do not choose to travel to Humboldt County for these services;

WHEREAS, Rates, Fees and Charges at the Del Norte County Transfer Station are adjusted annually by the adoption of an appropriate Rate Resolution, implementing the CPI-based adjustments established in the Franchise Collection and Transfer Station Operations Agreements, and fees for public scale services should also be adjusted by such Resolution;

WHEREAS, this Ordinance must be approved by both the Crescent City Council and the Del Norte County Board of Supervisors before it may be adopted by the Authority Board of Commissioners; and

WHEREAS, the Authority does not intend to provide public scale services until and unless such services are no longer offered by any private company located in Del Norte County;

NOW, THEREFORE, the Board of Commissioners of the Del Norte Solid Waste Management Authority, Del Norte County, California hereby ordains as follows:

SECTION 1. Findings. The Board of Commissioners of the Del Norte Solid Waste Management Authority adopts the recitals stated herein and finds them to be true.

SECTION 2. Rates. The rate for a certified weight with certificate will be \$33 per vehicle or trailer, or vehicle and trailer combination. The rate for a check weight will be \$12 per vehicle or trailer or vehicle and trailer combination.

2.01 Limitations. This service is only available to any person, entity, or agency that seeks public scale services for vehicles and loads less than 80,000 pounds at the Del Norte County Transfer Station during periods that the Authority Board of Commissioners has determined that such public scale services will be offered.

2.02 Rate increases or decreases. These rates may be decreased at any time by resolution of the Board. On July 1 of each year beginning in 2014, this rate may be adjusted in accordance with 80% of the change in Consumer Price Index for all Urban Consumers (CPI) by Resolution of the Board. These rates may be increased at any time in an amount greater than CPI by an amendment to this Ordinance.

SECTION 3. Definitions. For purposes of this Ordinance, the following definitions apply to the following words and phrases.

3.01 Weighmaster. Any person who weighs, measures, or counts any commodity and issues a statement or memorandum of the weight,

measure or count which is the basis for either the purchase or sale of that commodity or charge for service.

3.02 Deputy Weighmaster. Any person the weighmaster designates to perform weighmaster duties on behalf of the weighmaster.

SECTION 4. Publication. The Clerk of the Board shall cause this Ordinance, or a summary thereof, along with the names of the commissioners voting for and against said ordinance, to be published once within fifteen (15) days after its passage in a newspaper of general circulation in the County of Del Norte in accordance with Govt. Code Section 36933.

SECTION 5. Effective Date. This Ordinance will take effect 30 days after its final adoption.

SECTION 6. Severability. If any section, subsection, subdivision, sentence, clause, phrase or portion of this Ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision will not affect the validity of the remaining portions of this Ordinance. The Authority hereby declares that it would have adopted this Ordinance, and each section, subsection, subdivision, sentence, clause, phrase, or portion thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, sentences, clauses, phrases, or portions thereof, are declared invalid or unconstitutional.

APPROVED by the Del Norte County Board of Supervisors on the ___ day of _____, 2013 by the following polled vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Michael Sullivan, Chair

ATTEST:

Antoinette Self, Clerk

APPROVED by the Crescent City Council on the ___ day of _____, 2013 by the following polled vote:

AYES:
NOES:

ABSENT:
ABSTAIN:

Richard Enea, Chair

ATTEST:

Robin Patch, Clerk

PASSED AND ADOPTED by the Board of Commissioners of the Del Norte Solid Waste Management Authority on the ___ day of _____, 2013 by the following polled vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Richard Enea, Chair

ATTEST:

Tedd Ward, Clerk

APPROVED AS TO FORM:

Martha D. Rice, General Counsel
Del Norte Solid Waste Management Authority

CHANGE ORDER 1

CONTRACT: Professional Services Agreement for Household Hazardous Waste and Conditional Exempt Small Quantity Generator Collection Events

CONTRACTOR: CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
AUTHORITY: DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SUBJECT: CPI-BASED RATE ADJUSTMENTS, PAINT MANAGEMENT & TIME EXTENSION

NATURE OF CHANGES: This Change Order extends the Agreement for three years beyond the initial term, and makes a one-time adjustment to the Cost per Container Service Fees for the different Hazardous Waste Categories described on Form A as well as the Cost Items on Form B of the Cost Proposal based on 50% of the change to the Consumer Price Index for all urban consumers (CPI-U) between the contract start (August 2009, CPI-U = 215.834) and April 2013 (CPI-U = 232.531). All Fees described on Forms A and B under the Agreement are increased by a factor of $(1 + (50\% \times (232.531 - 215.834) / 215.834)) = 1.03868$, with each fee rounded to the nearest dollar, with Forms A and B from this Change Order replacing those in the Agreement.

This Change Order also authorizes Contractor to enter into agreement(s) with PaintCare to pay for the collection, processing, recycling and/or disposal of architectural coatings collected as part of the annual HHW Collection Event and/or the CESQG collections, per the attached letter. The Authority will not be invoiced for collection, processing, recycling and/or disposal of any architectural coatings or paint-related materials received at any future Del Norte HHW Collection event.

Contract Term is extended for three years beyond the initial term, so this Agreement will expire on 12 August 2017.

This Change Order makes the changes to the Contract Price described in the attachments to this Change Order, including Form A and Form B, which replace Form A and Form B from the original Agreement, respectively.

This Change Order is hereby approved:

Clean Harbors Environmental Services, Inc.

BY: _____

TITLE: _____

ATTEST: _____

TITLE: _____

DATE: _____

Del Norte Solid Waste Management Authority

BY: _____
Richard Enea, Chair

BY: _____
Rick Holley, Secretary

Approved as to form:

BY: _____
Martha D. Rice, General Counsel

6.2

Change Order 1, Form A: Hazardous Waste Charges by Material, page 1 of 2

CONTRACTOR:	Clean Harbors					% Price Increase
		CPI-U	% Change	% CPI		
Contract Start	Aug-09	215.834				
Year Prior to CO 1	Apr-12	230.085	1.06%			
Change Order 1	Apr-13	232.531	7.74%	50.0000%		3.8680%
End of Contract	12-Aug-16					1.038680

Hazardous Waste Category	Container Size	Per Container Service Fee			Management Method
		Loose	Lab-Packed	Bulked	
Flammable solids	Cubic Yard Box	\$ 393.00	NA	NA	Incineration
Flammable solids	55 gal	\$ 156.00	\$ 244.00	NA	
Flammable solids	30 gal	\$ 117.00	\$ 192.00	NA	
Flammable solids	15 gal	\$ 117.00	\$ 160.00	NA	
Flammable solids	5 gal	\$ 91.00	\$ 114.00	NA	
Paint-related materials	Cubic Yard Box	\$ 393.00	NA	NA	Incineration
Paint-related materials	55 gal	\$ 156.00	NA	\$ 109.00	
Paint-related materials	30 gal	\$ 117.00	NA	\$ 109.00	
Paint-related materials	15 gal	\$ 117.00	NA	\$ 109.00	
Paint-related materials	5 gal	\$ 91.00	NA	\$ 91.00	
Flammable liquids	Cubic Yard Box	\$ 393.00	NA	NA	Incineration
Flammable liquids	55 gal	\$ 156.00	\$ 244.00	\$ 109.00	
Flammable liquids	30 gal	\$ 117.00	\$ 192.00	\$ 109.00	
Flammable liquids	15 gal	\$ 117.00	\$ 160.00	\$ 109.00	
Flammable liquids	5 gal	\$ 91.00	\$ 114.00	\$ 91.00	
Poison solids	55 gal	NA	\$ 244.00	NA	Incineration
Poison solids	30 gal	NA	\$ 192.00	NA	Incineration
Poison solids	15 gal	NA	\$ 160.00	NA	Incineration
Poison solids	5 gal	NA	\$ 114.00	NA	Incineration
Poison liquids	55 gal	NA	\$ 244.00	NA	Incineration
Poison liquids	30 gal	NA	\$ 192.00	NA	
Poison liquids	15 gal	NA	\$ 160.00	NA	
Poison liquids	5 gal	NA	\$ 114.00	NA	
Inorganic acids	55 gal	NA	\$ 244.00		Incineration
Inorganic acids	30 gal	NA	\$ 192.00		
Inorganic acids	15 gal	NA	\$ 160.00		
Inorganic acids	5 gal	NA	\$ 114.00		
Organic Acids	55 gal	NA	\$ 244.00		Incineration
Organic Acids	30 gal	NA	\$ 192.00		
Organic Acids	15 gal	NA	\$ 160.00		
Organic Acids	5 gal	NA	\$ 114.00		
Inorganic Bases	55 gal	NA	\$ 244.00		Incineration
Inorganic Bases	30 gal	NA	\$ 192.00		
Inorganic Bases	15 gal	NA	\$ 160.00		
Inorganic Bases	5 gal	NA	\$ 114.00		
Organic bases	55 gal	NA	\$ 244.00		Incineration
Organic bases	30 gal	NA	\$ 192.00		
Organic bases	15 gal	NA	\$ 160.00		
Organic bases	5 gal	NA	\$ 114.00		
Solid Oxidizers	30 gal		\$ 206.00		Incineration
Solid Oxidizers	15 gal		\$ 169.00		
Solid Oxidizers	5 gal		\$ 114.00		
Liquid Oxidizers	55 gal		\$ 261.00		Incineration
Liquid Oxidizers	30 gal		\$ 206.00		
Liquid Oxidizers	15 gal		\$ 169.00		
Liquid Oxidizers	5 gal		\$ 114.00		

Change Order 1, Form A: Hazardous Waste Charges by Material, page 2 of 2

CONTRACTOR: Clean Harbors

Hazardous Waste Category	Container Size	Per Container Service Fee			Management Method
		Loose	Lab-Packed	Bulked	
PCB wastes (oil, etc)	5 gal		\$ 296.00		Incineration
PCB Ballasts	30 gal	\$ 260.00			
PCB Ballasts	15 gal	\$ 208.00			
PCB Ballasts	5 gal	\$ 104.00			
Aerosols	Cubic Yard Box	NA	\$ 545.00		
Aerosols	55 gal	NA	\$ 210.00		
Aerosols	30 gal	NA	\$ 176.00		
Aerosols	15 gal	NA	\$ 149.00		
Aerosols	5 gal	NA	\$ 116.00		
Latex Paint	Cubic Yard Box	\$ 243.00		NA	
Latex Paint	55 gal	\$ 135.00		\$ 170.00	
Latex Paint	30 gal	\$ 102.00		\$ 128.00	
Latex Paint	15 gal	\$ 81.00		\$ 102.00	
Latex Paint	5 gal	\$ 81.00		\$ 51.00	
Mercury (metal, devices, ar	30 gal		\$ 481.00		
Mercury (metal, devices, ar	15 gal		\$ 384.00		
Mercury (metal, devices, ar	5 gal		\$ 192.00		
Contaminated soils	55 gal			\$ 147.00	
Contaminated soils	30 gal			\$ 122.00	
Contaminated soils	15 gal			\$ 106.00	
Contaminated soils	5 gal			\$ 91.00	
Water reactive materials	55 gal		NA		
Water reactive materials	30 gal		NA		
Water reactive materials	15 gal		NA		
Water reactive materials	5 gal		\$ 136.00		
Asbestos (friable)	Cubic Yard Box			\$ 423.00	
Asbestos (friable)	55 gal			\$ 151.00	
Asbestos (friable)	30 gal			\$ 124.00	
Asbestos (friable)	15 gal			\$ 108.00	
Asbestos (friable)	5 gal			\$ 108.00	
Lead based paint chips	Cubic Yard Box			NA	
Lead based paint chips	55 gal			\$ 173.00	
Lead based paint chips	30 gal			\$ 138.00	
Lead based paint chips	15 gal			\$ 106.00	
Lead based paint chips	5 gal			\$ 70.00	
Oily debris	55 gal			\$ 147.00	
Oily debris	30 gal			\$ 122.00	
Oily debris	15 gal			\$ 106.00	
Oily debris	5 gal			\$ 91.00	
Fluorescent Light Debris	55 gal			\$ 173.00	
Fluorescent Light Debris	30 gal			\$ 138.00	
Fluorescent Light Debris	15 gal			\$ 106.00	
Fluorescent Light Debris	5 gal			\$ 70.00	
Small Propane or Butane C	55 gal	\$ 654.00			
Small Propane or Butane C	30 gal	\$ 260.00			
Small Propane or Butane C	15 gal	\$ 52.00			
Small Propane or Butane C	5 gal	\$ 26.00			

Change Order 1, Form B: Hazardous Waste Charges by Material, page 1 of 1

CONTRACTOR: Clean Harbors Environmental Services, Inc.

Cost Item	\$\$
1. Start up, Permitting Assistance, and Mobilization flat-rate cost per CESQG	\$ 10,976.00
2. Staff and Personnel for each CESQG and HHW Collection Event	\$ 6,432.00
3. Conditionally Exempt Small Quantity Generator Costs per businesses above b	\$0
4. Extra Vehicle Costs	\$0



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

12 June 2013

PaintCare
CALIFORNIA ARCHITECTURAL PAINT RECOVERY PROGRAM
1500 Rhode Island Ave, NW
Washington DC 20005

SUBJECT: Authorization for Clean Harbors to contract with PaintCare for managing architectural coatings collected during CESQG and HHW Collection Events in Del Norte County.

As the PBR permitholder and operator of the Del Norte Solid Waste Management Authority's household hazardous waste programs, we are hereby requesting our current HHW Event contractor, Clean Harbors Environmental Services, provide collection services for Paintcare pursuant to the California Paint Stewardship law (PRC 48700-487069) at Del Norte HHW collection events serviced by Clean Harbors through August 12, 2017.

The Del Norte Solid Waste Management Authority supports Clean Harbors Environmental Services entering into an agreement with Paintcare to collect, handle and arrange for the disposition of Paintcare eligible program products collected at our HHW events located at:

- Del Norte County Transfer Station
1700 State Street
Crescent City, CA 95531

The collection, handling and disposition of program products will be pursuant to the legislative authorization and requirements of the Architectural Paint Recovery Program (California Public Resource Code 48700 et. seq) and California Health and Safety Code sections 25217 et seq (Recyclable Latex Paint and Oil-based Paint).

Sincerely,

Tedd Ward, M.S.
Program Manager

~~Del Norte Solid Waste Management Authority~~

A Joint Powers Authority of

the City of Crescent City and County of Del Norte
& member, North Coast Recycling Market Development Zone



Clean Harbors Environmental Services, Inc.
1010 Commercial Street
San Jose, CA 95112
www.cleanharbors.com

June 20, 2013

Tedd Ward

Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531-0000

Dear Tedd:

Thank you for using Clean Harbors Environmental Services, Inc. (Clean Harbors) for your waste management needs. We are sending you this new quotation with increased pricing based on recent industry changes and market conditions. Any changes to the associated terms and conditions are also included. This new quotation is based upon submitted waste profiles and previous shipment history.

We remind you that we offer our clients a broad spectrum of environmental services in addition to the ability to dispose of hazardous material at or through a Clean Harbors' owned and operated facility. A Clean Harbors' professional can assist you with:

- Waste Transportation & Disposal
- Laboratory Chemical Packing
- Field Services
- 24-Hour Environmental Emergency Response
- Industrial Services
- Apollo Onsite Services

Clean Harbors has the appropriate permits and licenses for the acceptance and disposal of the waste streams identified within this quotation.

We look forward to continuing to service your environmental needs. To place an order, please contact our Customer Service group at 877.333.4244. If you have any questions about our new pricing or need further assistance, we can be reached at the number below.

Sincerely,

Curt Lock

Account Manager

"People and Technology Creating a Better Environment"



LABOR, SUPPLIES, AND EQUIPMENT

Description	UOM	Price
*Start-up, Permitting Assistance, and mobilization flat-rate cost Per CESQG / HHW Event	EVENT	\$10,976.00
*Staff and Personnel for each CESQG and HHW collection Event	EVENT	\$6,432.00



1010 Commercial Street
San Jose, CA 95112
www.cleanharbors.com

06-20-2013

Attn:Mr Tedd Ward
Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

Report #28439

Dear Mr Ward:

Thank you for using Clean Harbors Environmental Services, Inc. (Clean Harbors) for your waste management needs. We are sending you this new quotation with increased pricing based on recent industry changes and market conditions. Existing services agreement terms and conditions apply to this quoted business. This new quotation is based upon submitted waste profiles and previous shipment history.

We remind you that we offer our clients a broad spectrum of environmental services in addition to the ability to dispose of hazardous material at or through a Clean Harbors' owned and operated facility. A Clean Harbors professional can assist you with:

- . Waste Transportation & Disposal
- . Laboratory Chemical Packing
- . Field Services
- . 24-Hour Environmental Emergency Response
- . Industrial Services
- . Apollo Onsite Services

Clean Harbors has the appropriate permits and licenses for the acceptance and disposal of the waste streams identified within this quotation.

I look forward to continuing to service your environmental needs. To place an order, please contact our Customer Service group at 800.444.4244. If you have any questions about our new pricing or need further assistance, you may reach me at the number below.

Sincerely,
Curt W Lock
Hhw Account Manager
Phone: 408.451.5000



Clean Harbors House Hold Hazardous Waste Pricing Schedule

Waste Code Disposal Pricing

Waste Code	Description	UOM	Price (USD)
CAXI	OXIDIZERS FOR INCINERATION	05DM	\$136.00
CBP	SOLIDS TO HAZARDOUS LANDFILL	05DM	\$91.00
CBP	SOLIDS TO HAZARDOUS LANDFILL	15DM	\$106.00
CBP	SOLIDS TO HAZARDOUS LANDFILL	30DM	\$122.00
CBP	SOLIDS TO HAZARDOUS LANDFILL	55DM	\$147.00
CCS	CHARACTERISTIC SOLIDS/SEMI SOLIDS FOR STABILIZATION	05DM	\$70.00
CCS	CHARACTERISTIC SOLIDS/SEMI SOLIDS FOR STABILIZATION	15DM	\$106.00
CCS	CHARACTERISTIC SOLIDS/SEMI SOLIDS FOR STABILIZATION	30DM	\$138.00
CCS	CHARACTERISTIC SOLIDS/SEMI SOLIDS FOR STABILIZATION	55DM	\$173.00
CNIA	ASBESTOS WASTE	05DM	\$108.00
CNIA	ASBESTOS WASTE	15DM	\$108.00
CNIA	ASBESTOS WASTE	30DM	\$124.00
CNIA	ASBESTOS WASTE	55DM	\$151.00
CNIA	ASBESTOS WASTE	FBIN	\$423.00
FB1	LIQUID FOR FUEL	05DM	\$91.00
FB1	LIQUID FOR FUEL	15DM	\$109.00
FB1	LIQUID FOR FUEL	30DM	\$109.00
FB1	LIQUID FOR FUEL	55DM	\$109.00
FB2	LIQUID FUEL WITH SOLIDS	05DM	\$91.00
FB2	LIQUID FUEL WITH SOLIDS	15DM	\$109.00
FB2	LIQUID FUEL WITH SOLIDS	30DM	\$109.00
FB2	LIQUID FUEL WITH SOLIDS	55DM	\$109.00
FB3R	LATEX & ALKYD PAINT FOR RECYCLING	05DM	\$51.00
FB3R	LATEX & ALKYD PAINT FOR RECYCLING	15DM	\$102.00
FB3R	LATEX & ALKYD PAINT FOR RECYCLING	30DM	\$128.00
FB3R	LATEX & ALKYD PAINT FOR RECYCLING	55DM	\$170.00
LCCRA	LABPACK ACID & ACID COMPATIBLES FOR INCINERATION	05DM	\$114.00
LCCRA	LABPACK ACID & ACID COMPATIBLES FOR INCINERATION	16DM	\$160.00
LCCRA	LABPACK ACID & ACID COMPATIBLES FOR INCINERATION	30DM	\$192.00
LCCRA	LABPACK ACID & ACID COMPATIBLES FOR INCINERATION	55DM	\$244.00
LCCRB	LABPACK BASIC & BASIC COMPATIBLES FOR INCINERATION	05DM	\$114.00
LCCRB	LABPACK BASIC & BASIC COMPATIBLES FOR INCINERATION	16DM	\$160.00



Clean Harbors House Hold Hazardous Waste Pricing Schedule

Waste Code Disposal Pricing			
Waste Code	Description	UOM	Price (USD)
LCCRB	LABPACK BASIC & BASIC COMPATIBLES FOR INCINERATION	30DM	\$192.00
LCCRB	LABPACK BASIC & BASIC COMPATIBLES FOR INCINERATION	55DM	\$244.00
LCCRC	LABPACK ORGANICS FOR INCINERATION	05DM	\$114.00
LCCRC	LABPACK ORGANICS FOR INCINERATION	16DM	\$160.00
LCCRC	LABPACK ORGANICS FOR INCINERATION	30DM	\$192.00
LCCRC	LABPACK ORGANICS FOR INCINERATION	55DM	\$244.00
LCCRD	LABPACK FLAMMABLES FOR INCINERATION	05DM	\$114.00
LCCRD	LABPACK FLAMMABLES FOR INCINERATION	16DM	\$160.00
LCCRD	LABPACK FLAMMABLES FOR INCINERATION	30DM	\$192.00
LCCRD	LABPACK FLAMMABLES FOR INCINERATION	55DM	\$244.00
LCCRO	LABPACK OXIDIZERS FOR INCINERATION	05DM	\$114.00
LCCRO	LABPACK OXIDIZERS FOR INCINERATION	16DM	\$169.00
LCCRO	LABPACK OXIDIZERS FOR INCINERATION	30DM	\$206.00
LCCRO	LABPACK OXIDIZERS FOR INCINERATION	55DM	\$261.00
LCCRQ	AEROSOLS FOR INCINERATION	05DM	\$116.00
LCCRQ	AEROSOLS FOR INCINERATION	15DM	\$149.00
LCCRQ	AEROSOLS FOR INCINERATION	30DM	\$176.00
LCCRQ	AEROSOLS FOR INCINERATION	55DM	\$210.00
LCCRQ	AEROSOLS FOR INCINERATION	FBIN	\$545.00
LCHG2	LABPACK ELEMENTAL MERCURY FOR RETORT	05DM	\$192.00
LCHG2	LABPACK ELEMENTAL MERCURY FOR RETORT	16DM	\$384.00
LCHG2	LABPACK ELEMENTAL MERCURY FOR RETORT	30DM	\$481.00
LCHG4	LABPACK MERCURY SALTS AND SOLUTIONS FOR RETORT	05DM	\$192.00
LCHG4	LABPACK MERCURY SALTS AND SOLUTIONS FOR RETORT	16DM	\$384.00
LCHG4	LABPACK MERCURY SALTS AND SOLUTIONS FOR RETORT	30DM	\$481.00
LCHSI	LABPACK PCBs FOR INCINERATION	05DM	\$296.00
LCHSL	LABPACK PCBs FOR SECURE CHEMICAL LANDFILL	05DM	\$104.00
LCHSL	LABPACK PCBs FOR SECURE CHEMICAL LANDFILL	15DM	\$208.00
LCHSL	LABPACK PCBs FOR SECURE CHEMICAL LANDFILL	30DM	\$260.00
LCY1	PROPANE CYLINDERS FOR RECYCLING	CYME	\$26.00
LCY4	INERT OR CALIBRATION GAS CYLINDERS FOR DISPOSAL	CYLE	\$78.00
LFB3	LABPACK LATEX PAINT FOR RECYCLING	05DM	\$81.00
LFB3	LABPACK LATEX PAINT FOR RECYCLING	16DM	\$81.00



Clean Harbors House Hold Hazardous Waste Pricing Schedule

Waste Code Disposal Pricing

Waste Code	Description	UOM	Price (USD)
LFB3	LABPACK LATEX PAINT FOR RECYCLING	30DM	\$102.00
LFB3	LABPACK LATEX PAINT FOR RECYCLING	55DM	\$135.00
LFB3	LABPACK LATEX PAINT FOR RECYCLING	FBIN	\$243.00
LPTN	NON-PROCESSABLE PAINT & PAINT RELATED MTRL FOR INCINERATION	05DM	\$91.00
LPTN	NON-PROCESSABLE PAINT & PAINT RELATED MTRL FOR INCINERATION	16DM	\$117.00
LPTN	NON-PROCESSABLE PAINT & PAINT RELATED MTRL FOR INCINERATION	30DM	\$117.00
LPTN	NON-PROCESSABLE PAINT & PAINT RELATED MTRL FOR INCINERATION	55DM	\$156.00
LPTN	NON-PROCESSABLE PAINT & PAINT RELATED MTRL FOR INCINERATION	FBIN	\$393.00
LRCT	LABPACK REACTIVES FOR INCINERATION	05DM	\$136.00

Profile Disposal Pricing

Profile No	Waste Description	UOM	Price (USD)
CH384569	PROPANE	05DM	\$26.00
CH384569	PROPANE	15DM	\$52.00
CH384569	PROPANE	30DM	\$260.00
CH384569	PROPANE	55DM	\$654.00



Clean Harbors House Hold Hazardous Waste Pricing Schedule

GENERAL CONDITIONS

1. Prices effective July 1, 2013.
2. Terms: Net 30 Days
3. Interest to accrue at the rate of 1.5% per month or the maximum allowed by law after 30 days.
4. Applicable sales tax and state regulatory fees are not included in quoted prices.
5. Materials subject to additional charges if they do not conform to the listed specifications.
6. Waste material profile will be assessed at \$75.00 per profile.
7. A variable Recovery Fee (that fluctuates with the DOE national average diesel price), currently at 16.5%, is included in our quoted pricing.
8. Pickups that require same day or next day service may be subject to additional charges.
9. Pickups cancelled within 72 hours of scheduling will be subject to cancellation charges.
10. In the event that legal or other action is required to collect unpaid invoice balances, Customer agrees to pay all costs of collection, including reasonable attorneys' fees, and agrees to the jurisdiction of the Commonwealth of Massachusetts.
11. All drums for disposal must be in D.O.T. approved containers and in good condition.
12. All containers must be marked with the Clean Harbors' profile number.
13. Standard disposal conversions (excluding minimums) apply to containers other than 5 gallon drums unless otherwise quoted: 6-20g 60%, 21-30g 75%, 31-55g 100%, 56-85g 145%, FBIN 350%, TOTE 630%.
14. Compressed gas cylinders requiring special handling due to inoperable valves will be assessed an additional charge of \$400.00 per cylinder. This charge may be sent as a supplemental invoice.
15. Out of Service (OSD) for PCB incinerables should be clearly identified in Section J of the manifest. Prices for these items are only effective if received within 6 months of the OSD.
16. Time over eight (8) hours in the normal workday and all day Saturday is considered overtime and will be billed at 1.5 times the applicable straight time rate for all billable personnel unless otherwise quoted. Sunday and Holidays are considered premium time and will be billed at 2.0 times the applicable straight time rate for all billable personnel unless otherwise quoted.



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

Staff Report

Date: 13 May 2013
To: Commissioners of the Del Norte Solid Waste Management Authority
From: Tedd Ward, Program Manager *Tedd*
Subject: Expanding Paint Recovery & Transfer Station Operations Change Order 17

Recommendation: That the Board approve and adopt Change Order 17, attached.

Background: Since 2007, when the Authority adopted Resolution 2007-06 Supporting Extended Producer Responsibility, under direction by the Authority Board, the Authority Director has served on the Board of the California Product Stewardship Council (CPSC). For most communities including Del Norte, costs for managing paint and paint related materials are a relatively large percentage of the disposal costs associated with our household hazardous waste programs.

Since its inception, CPSC has focused its efforts to establish product stewardship programs for hazardous products banned from disposal in California, with architectural coating products such as paint being high priority target materials. In large part due to the efforts of groups like CPSC, in 2010, AB1343 was signed into law, establishing California's Architectural Paint Stewardship Program. Since that time, CalRecycle has designated PaintCare as the Product Stewardship Organization (PSO) responsible for compliance with this new law by establishing recovery programs for architectural coatings in every county in California. This program is paid for by a fee of 75 cents per gallon assessed on paint sold in California, and these fees have been collected since 19 October 2012. At this time, PaintCare has not yet established a collection program for architectural coatings in Del Norte County, though these fees are being collected.

Analysis: If adopted, Change Order 17 will expand the types of paints accepted daily at the Del Norte County Transfer Station (DNCTS) without additional costs to our

13 January 2012

1 Printed on >30% post-consumer recycled paper

I:\Tedd\TRANSFER\Operations\Change Orders\201305_CO_17 Staff Report.doc

A Joint Powers Authority of

the City of Crescent City and County of Del Norte

& member, North Coast Recycling Market Development Zone

6.3

customers, to include oil-based paints, stains, and coatings. This change will also likely reduce the costs for the Authority's annual household hazardous waste (HHW) collection event, as most paint-related materials will be accepted daily at the DNCTS, and any architectural coatings brought to the HHW collection event will also be managed under the PaintCare program.

This contract arrangement, in which the Authority empowers Hambro/WSG to contract with parties to collect, process, and market materials managed at the DNCTS is consistent with how most all materials processed through the DNCTS, with Hambro/WSG being the 'Arranger' for processing, recovery and disposal.

Alternatives: 1. No action. Daily collection of non-aerosol latex paint would still be disposed daily at the DNCTS, but oil-based paints and stains would be collected only during our annual HHW collection event.

2. Take no action on Change Order 17, but direct Authority staff to negotiate an agreement with PaintCare to collect, process and recycle or dispose of architectural coatings collected during our annual HHW collection event.

Fiscal Impact: Both Hambro/WSG and Authority staff are eager to begin this program to reduce our costs for managing discarded paint. In 2012, the cost for disposal of paint and paint-related materials collected during our household hazardous waste collection event was \$3,870, or just under 30% of the disposal costs for the whole event. This is the only time during the year when residents can legally dispose of enamel or oil-based paints or stains. In 2011, this paint disposal cost was \$4,986, and it was \$8,514 in 2010. These costs are in addition to the costs for Hambro/WSG to handle, process, and dispose of the latex paint received daily for no charge at the Del Norte County Transfer Station.

TRANSFER STATION OPERATIONS CHANGE ORDER 17

CONTRACT: AGREEMENT FOR OPERATIONS OF A TRANSFER STATION, RECOVERY,
TRANSPORTATION AND DISPOSAL OF WASTE FROM THE DEL NORTE COUNTY TRANSFER STATION,
DEL NORTE COUNTY, CA

CONTRACTOR: HAMBRO / WASTE SOLUTIONS GROUP
AGENCY: DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SUBJECT: AUTHORIZATION TO CONTRACT FOR PAINT RECOVERY

NATURE OF CHANGES: This Change Order authorizes Contractor to execute an agreement with PaintCare, or an equivalent product stewardship organization (PSO) approved by the California Department of Resources, Recycling and Recovery (CalRecycle) to administer paint and architectural coatings recovery and recycling operations in California. Acceptable 'architectural coating products' under this program include: interior and exterior latex, acrylic, alkyd, oil-based and enamel paints, deck coatings and floor paints, primers, sealers, undercoaters, stains, shellacs, lacquers, varnishes, and urethanes, waterproofing concrete/masonry/wood sealers and repellants, metal coatings and rust preventatives, and field and lawn paints. Thinners, solvents, caulk, marine paint, tar and roofing materials, road, and two-component paints are excluded from the defined 'architectural coating products.'

This Change Order expands the Recyclable Household Hazardous Wastes authorized to be accepted at the Del Norte County Transfer Station, replacing all instances in the Agreement and Contract Documents describing the acceptance of 'non-aerosol latex paint' with the acceptance of 'architectural coatings,' as described in the preceding paragraph.

Contractor and PSO will indemnify the Authority for receiving, processing, storage, reuse and collection of architectural coatings in the same manner as required under Section 11 of Division IV of the Agreement. Contractor will provide summaries of architectural coatings received under this program within the Annual Report described in Section 5.B. of Division I of the Agreement and will provide any information needed to update the permit documents for the Del Norte County Transfer Station to describe activities related to receipt, storage and recovery of architectural coatings. If PaintCare or an equivalent PSO for recovery of architectural coating products ends or violates its Agreement with Contractor, and no other PSO can be contracted to provide equivalent services in a timely manner, Contractor will notify and seek approval from the Authority prior to changing, discontinuing, or charging fees for recovery services for architectural coating products at the Del Norte County Transfer Station.

Contract Time: Remains unchanged.

Contract Price: This Change Order makes the following changes to the Contract Price: Contractor will not be paid by the Authority or customers of the Del Norte County Transfer Station for receiving or processing such architectural coatings, but may receive payments for receiving, processing, storing, or reusing such materials from the PSO.

TRANSFER STATION OPERATIONS CHANGE ORDER 17

This Change Order is hereby approved:

DATE: _____

HAMBRO / Waste Solutions Group:

BY: _____
Wes White, President

ATTEST:

Corporate Secretary

Del Norte Solid Waste Management Authority:

BY: _____
Richard Enea, Chair

ATTEST:

Rick Holley, Secretary

Approved as to form:

BY: _____
Martha D. Rice, General Counsel

5/22/13

To: Kevin Hendrick, Director DNSWMA

From: Wes White, CEO Hambro WSG

Re: Performance Bond

As per the Hambro WSG and DNSWMA agreement for the operations of the transfer station in order to secure that the operator (Hambro WSG) faithfully performs the obligations laid out in the agreement, the agreement requires that bond, a letter of credit or a certificate of deposit be in place in the amount of \$300,000 held in the name of the authority.

To date Hambro WSG has had a certificate of deposit on hand as per the agreement. Should a performance bond be in place instead, the agreement calls for a bond with a credit rating of "A". Hambro WSG is asking for a deviation from the required "A" rating and instead put a bond in place with a "B++" rating.

My understanding from the insurance industry is that while several years ago an "A" rated bond was commonplace since the financial crisis the most common bond now is a "B++" rated bond.

I have attached a letter from our insurance carrier verifying the above statement.

The request comes as it simply is good business practice to place a bond rather than tie up one's cash in a certificate of deposit.

Thank you for your consideration.

Wes White

CEO

G.A



McGRIFF, SEIBELS & WILLIAMS OF OREGON, INC.

INSURANCE BROKERS

May 22, 2013

Hambro WSG, Inc.
1700 State Street
Crescent City, CA 95531

RE: Performance Bond
Lexon Insurance Company
B++ (Good) Rating

To whom it may concern:

We, McGriff, Seibels & Williams of Oregon, Inc. are the current acting Insurance Agent for Hambro WSG, Inc. We have actively pursued Performance Bonding options for work performed by our insured servicing Del Norte County.

Over the past 5 years, many Insurance Companies have eliminated their Bond Practices due to the massive Financial Downturn that our economy has, and continues, to work through: Historically, there were many "A" Rated Insurance Companies that wrote these types of bonds regularly. However, due to the downturn these companies are now few with "B" Rated Insurance Companies writing the majority of these types of bonds.

Through our efforts, we were able to find a company willing to take on this bonding project by the name of Lexon Insurance Company. They are a B++ Rated company. While they are not an "A" rated company, their B++ rating proves to be strong in this tough bonding climate. We as an agency have multiple bonds placed with Lexon Insurance Company and have not had any problems to date.

Please consider this letter during your assessment of Lexon Insurance Company as a potential bonding partner of Hambro WSG, Inc. and Del Norte County.

Sincerely,

Tyler Ashton
McGriff, Seibels & Williams of Oregon, Inc.

Kevin Hendrick

From: Martha Rice [mrice@attyblack.com]
Sent: Thursday, May 23, 2013 3:41 PM
To: Richard Enea
Cc: Kevin Hendrick
Subject: Hambro/WSG Bond
Attachments: scanned038.pdf

Rich,

Just wanted to let you know that I did some research on Lexon, the company proposed to write the Hambro WSG/Bond. See articles attached. Here is a summary:

1. Aug 29, 2012: AM Best downgraded Lexon's financial strength rating from an "A-" (excellent) to a "B++" (good) and its issuer credit rating from an "a-" (excellent) to "bbb" (good); also gave Lexon an outlook of "negative" (possible rating downgrade due to unfavorable financial/market trends relative to the current rating level); category VI (\$25-50 million)
 - a. The reason for the downgrade is explained as reflecting a decline in operating results driven by the continued emergence of claims stemming from the large amount of subdivision surety bonds issued by Lexon. The good rating also reflects Lexon's adequate risk-adjusted capitalization, niche surety market focus, and experienced management.
 - b. The company has been affected by the downturn in the housing market, but is looking for new areas to expand its bond underwriting to new areas.
2. Sept. 4, 2012: Lexon CEO responds to downgrade. CEO disagrees with rating and responds the company is financially secure.
 - a. At year end 2011, Lexon ended its first decade of operation with ten consecutive years of increased capital and surplus, increased T-Listing capacity, and a diverse book of business. CEO believes the rating is retrospective and that the company's outlook is positive.
3. April 14, 2013: Iron Shore Ins. Company purchased a 9.9% equity stake in Lexon, with an option to increase to 20% in the future. Iron Shore has an AM Best Rating of A-/a- (excellent) and is a category XIV (\$1.5 - 2 Billion).
4. April 26, 2013: Surety and Fidelity Association of America lists Lexon as #12 bond underwriter in the nation.

Contract requires: A/VII rating

Lexon rating: B++/VI

Contract allows: Board may deviate from contract and accept a \$300,000 bond from a company with a lesser rating than stated in the contract.

My analysis: It appears that Lexon has taken a hit from the downturn in the housing market and the associated claims on subdivision bonds. Lexon says this is the tail end of that crisis. Lexon has expanded its areas of bond underwriting and is beginning to partner with another company to both increase its financial strength and its book of business. The \$300,000 bond is relatively small compared to the multi-million dollar bonds that are commonly written by these companies. In short, I do not have any serious concerns with accepting a bond from this company.

Martha D. Rice, Attorney

Law Offices of Robert N. Black
The McNulty House
710 H Street
Crescent City, CA 95531
Tel: 707-464-7637
Fax: 707-464-7647
Cel: 707-218-4310

CONFIDENTIALITY NOTICE: THE PRECEDING E-MAIL MESSAGE (INCLUDING ANY ATTACHMENTS) CONTAINS INFORMATION THAT MAY BE CONFIDENTIAL, BE PROTECTED BY THE ATTORNEY-CLIENT OR OTHER APPLICABLE PRIVILEGES, OR CONSTITUTE ATTORNEY WORK PRODUCT OR NON-PUBLIC INFORMATION. IT IS INTENDED TO BE CONVEYED ONLY TO THE DESIGNATED RECIPIENT(S). IF YOU ARE NOT AN INTENDED RECIPIENT OF THIS MESSAGE, PLEASE NOTIFY THE SENDER BY REPLYING TO THIS MESSAGE AND THEN DELETE IT FROM YOUR SYSTEM. THE USE, DISSEMINATION, DISTRIBUTION, OR REPRODUCTION OF THIS MESSAGE BY UNINTENDED RECIPIENTS IS NOT AUTHORIZED AND MAY BE UNLAWFUL.

A.M. Best Press Release

Press Release - AUGUST 29, 2012

A.M. Best Downgrades Ratings of Lexon Insurance Company and Bond Safeguard Insurance Company

 [Print this article](#)
CONTACTS:

Scott Dodd
Financial Analyst
(908) 439-2200, ext. 5582
scott.dodd@ambest.com

Rachelle Morrow
Senior Manager, Public Relations
(908) 439-2200, ext. 5378
rachelle.morrow@ambest.com

Jennifer Marshall
Managing Senior Financial
Analyst
(908) 439-2200, ext. 5327
jennifer.marshall@ambest.com

Jim Peavy
Assistant Vice President, Public
Relations
(908) 439-2200, ext. 5644
james.peavy@ambest.com

FOR IMMEDIATE RELEASE

OLDWICK, N.J. AUGUST 29, 2012
A.M. Best Co. has downgraded the financial strength rating to B++ (Good) from A- (Excellent) and issuer credit ratings to "bbb" from "a-" of **Lexon Insurance Company** (Lexon) (Austin, TX) and its affiliate, **Bond Safeguard Insurance Company** (Bond Safeguard) (Woodridge, IL). The outlook for all ratings has been revised to negative from stable.

The rating action reflects the declining operating results and variability in development of prior years' loss reserves, driven by the continued emergence of claims stemming from the companies' subdivision surety bonds that, in A.M. Best's opinion, reflect the companies' outsized risk appetite. The ratings also reflect the companies' adequate risk-adjusted capitalization, niche surety market focus and the advantages gained from management's experience in the surety marketplace. The outlook reflects A.M. Best's view that management will be challenged to return underwriting and operating results to favorable levels in the near term.

The companies historically produced underwriting and operating results that outperformed their peers in the surety composite. In recent years, however, the companies' business has been negatively impacted by the downturn in the U.S. housing market, which generated increased losses and also resulted in a reduced demand for some of their key products, requiring them to develop new offerings to offset the decline in premiums. In addition, the companies maintain a significant portion of the limits they offer, and even relatively small losses can have a substantial impact on overall performance, particularly when there is an accumulation of losses. While the company maintains an adequate level of risk-adjusted capitalization under a stressed scenario (as measured by Best's Capital Adequacy Ratio [BCAR]) and statutory surplus has continued to increase, BCAR has decreased significantly.

To offset the reduction in revenue resulting from decreased subdivision writings, the companies have expanded their writings of license and permit as well as customs bonds, having contracted with a number of specialty bond brokers throughout the United States. The companies' infrastructure has also been expanded in support of these initiatives through the hiring of experienced underwriters and executives with substantial experience in these bond segments in recent years. Over time, the addition of this generally lower limit business should have a positive impact on the companies' results. However, in the interim, A.M. Best anticipates that management will be challenged by the potential financial difficulties of its clients.

The methodology used in determining these ratings is Best's Credit Rating Methodology, which provides a comprehensive explanation of A.M. Best's rating process and contains the different rating criteria employed in the rating process. Key criteria utilized include: "Risk Management and the Rating Process

A.M. Best Press Release

for Insurance Companies"; "Understanding BCAR for Property/Casualty Insurers"; "Rating Members of Insurance Groups"; "Evaluating Non-Insurance Ultimate Parents"; and "Insurance Holding Company and Debt Ratings." Best's Credit Rating Methodology can be found at www.ambest.com/ratings/methodology.

Founded in 1899, A.M. Best Company is the world's oldest and most authoritative insurance rating and information source.

View a list of companies related to this press release. The list will include Best's Ratings along with links to additional company specific information including related news and reports.

A.M. Best's credit ratings are independent and objective opinions, not statements of fact. A.M. Best is not an Investment Advisor, does not offer investment advice of any kind, nor does the company or its Ratings Analysts offer any form of structuring or financial advice. A.M. Best's credit opinions are not recommendations to buy, sell or hold securities, or to make any other investment decisions.

A.M. Best receives compensation for interactive rating services provided to organizations that it rates. A.M. Best may also receive compensation from rated entities for non-rating related services or products offered by A.M. Best. A.M. Best does not offer consulting or advisory services. For more information regarding A.M. Best's rating process, including handling of confidential (non-public) information, independence, and avoidance of conflicts of interest, please read the [A.M. Best Code of Conduct](#).

A.M. Best Company and its subsidiaries are not registered as External Credit Assessment Institutions (ECAI) in the European Union (EU). Credit ratings issued by A.M. Best Company and its subsidiaries can not be used for regulatory purposes in the EU as per Directive 2006/48/EC. View our [entire notice](#) for complete details.

Copyright © 2013 by A.M. Best Company, Inc. ALL RIGHTS RESERVED

No part of this report may be distributed in any electronic form or by any means, or stored in a database or retrieval system, without the prior written permission of the A.M. Best Company. Refer to our [terms of use](#) for additional details.



HOME ABOUT NEWS LINES OF BUSINESS FORMS FIND AN AGENT NEW AGENT INFO Search

Lexon Insurance Company Announces Acquisition Agreement with Peninsular Insurance Company
Ironsore and Lexon Surety Announce Strategic Alliance

President and CEO, David Campbell, Comments on Rating Action by A.M. Best Company

by ADMIN on SEPTEMBER 4, 2012 - IN NEWS

MOUNT JULIET, TN, Sep. 4, 2012 – Lexon Surety Group President and CEO, David Campbell, comments on the recent rating action by A.M. Best Company.

While the management of Lexon Surety respects and participates in the rating process, in this particular instance, Lexon management and A.M. Best have a clear difference of opinion as to the short to intermediate term loss ratio and earnings prospects of the companies. Of greatest importance to our clients and other constituents is the fact that neither of our companies is in any financial distress whatsoever, and enjoys nearly \$200,000,000 in liquidity. Debt at \$5,000,000 is interest only due in 26 years.

At year end 2011, Lexon Surety Group ended its first decade of operation with ten consecutive years of increased capital and surplus, increased T-Listing capacity, and 34,000 clients in a broadly diverse book of business that has very, very limited exposure to conventional contract bonds. Ironically, the rating action occurs at the time that management is projecting the subsidence of the tail of 2007 Great Recession losses and a return to historical profitability levels. The nature of both rating and underwriting is of necessity retrospective and therein lies the difference of opinion.

About Lexon Surety Group

Lexon Surety Group, LLC is a privately held insurance company specializing in the business of surety bonds. As a full service surety bond company, Lexon writes Contract Surety Bonds, Platt / Off-Site / Subdivision Surety Bonds, Commercial – License, Permit and Miscellaneous Surety Bonds, Court – Civil and Probate Surety Bonds, Fidelity Surety Bonds and Environmental Surety bonds for individuals and companies of all sizes. Lexon Surety Group, LLC is comprised of Lexon Insurance Company and Bond Safeguard Insurance Company, both headquartered in Mt. Juliet, TN. Cumulatively they are the 12th largest writer of surety bonds according to The Surety and Fidelity Association of America's 2011 report.

Contact: David Campbell, President, Phone: 615-553-9553.

[http://www.lexonsurety.com/blog/2012/09/04/president-ceo-david-campbell-comments-rat...](#)

Please feel free to leave your comments! We encourage discussion.

LATEST NEWS

- [Ironsore Invests In Lexon Surety Group](#)
- [Ironsore and Lexon Surety Announce Strategic Alliance](#)
- [President and CEO, David Campbell, Comments on Rating Action by A.M. Best Company](#)
- [Lexon Insurance Company Announces Acquisition Agreement with Peninsular Insurance Company](#)
- [Lexon Surety Group Enters Bail & Immigration Bond Industry](#)

FINANCIAL RATINGS



[Click here to learn how our financial ratings benefit you.](#)

FIND THE RIGHT SURETY BOND

- [Surety Bonds Overview](#)
- [Contract Surety Bonds](#)
- [Commercial Surety Bonds](#)
- [Court Surety Bonds – Probate Surety Bonds](#)
- [Surety Bail Bonds](#)
- [US Customs Surety Bonds](#)



- [About](#)
 - [History](#)
 - [Affiliations](#)
 - [Contact Us](#)
- [Bonds](#)
 - [Specialty Bonds](#)
 - [Construction Bonds](#)
 - [Development Bonds](#)
 - [Oil and Natural Gas Bonds](#)
 - [Landfill Closure and Post-Closure Bonds](#)
 - [Environmental Remediation](#)
 - [Reclamation Bonds](#)
 - [License, Permit & Misc](#)
- [News](#)
 - [Surety Bond Blog](#)
 - [Surety Industry News](#)
- [Resources](#)
 - [Surety Bond FAQs](#)
 - [Forms and Documents](#)
- [Contact Us](#)

Navigate...

[Home](#) > [Ironshore Invests In Lexon Surety Group](#)

Blog

Ironshore Invests In Lexon Surety Group

Date: 18.04.2013 [Surety Bond Blog](#)

Hamilton, Bermuda, April 17, 2013 – Ironshore Inc. (“Ironshore”) announced today that it has purchased a 9.9 percent equity stake in Lexon Surety Group (“Lexon”), with an option to increase its ownership to 20 percent of Lexon’s equity in the future, subject to receipt of requisite regulatory approvals. Ironshore’s initial investment is primarily in the form of convertible preferred units. The investment and option further the strategic alliance with Lexon announced in March 2013.

“Ironshore’s investment today is an integral part of our relationship with Lexon, deepening the ties between our two companies and complementing the previously announced reinsurance and fronting relationship,” said Paul. S. Giordano, Chairman of Ironshore Political Risk, Special Risk and Surety. “Ironshore’s capital will add to Lexon’s financial strength and position Lexon well for future growth.”

“The broad-based response to the strategic alliance between Ironshore and Lexon has been very positive, with customers, agents and employees all appreciative of the opportunity to realize increased financial strength and broadened geographic operations. Ironshore’s initial equity investment makes them a welcome addition to the Lexon Surety Group partners,” stated David Campbell, President and Chief Executive Officer of Lexon.



Search

- [Bond Services](#)
- [Who We Are](#)
- [Why We Are Different](#)
- [Forms Bond Kit](#)
- [Goldleaf Blog](#)
- [Contact Us](#)

Home > Goldleaf Blog > SFAA Releases Preliminary List of Top 100

SFAA Releases Preliminary List of Top 100

April 26, 2013 by Lori

The Surety & Fidelity Association of America (SFAA) has released its preliminary list of Top 100 Writers of Surety Bonds-United States & Territories, Canada & Aggregate Other Alien for the calendar year 2012.

SFAA is a trade associations consisting of companies that collectively write the majority of surety and fidelity bonds in the United States. The SFAA is licensed as a rating or advisory organization in all states, the District of Columbia and Puerto Rico, and has been designated by all state insurance departments except Texas as a statistical agent for the reporting of fidelity and surety experience.

This year's top 15 surety writers, in order, are:

- Travelers Bond
- Liberty Mutual Group
- Zurich Insurance Group
- CNA Insurance Group
- Chubb & Son Inc Group
- International Fidelity Insurance Co
- HCC Surety Group
- Hartford Fire & Casualty Group
- ACE Ltd Group
- RLI Insurance Group
- Great American Insurance Companies
- Lexon/Bond Safeguard Insurance Companies
- The Hanover Insurance Group
- NAS Surety Group
- Merchants Bond Group

Goldleaf Surety has a relationship with 11 of these top 15 sureties, including Travelers Bond; Liberty Mutual Group; Zurich Insurance Group; CNA Insurance Group; HCC Surety Group; Hartford Fire & Casualty Group; Ace Ltd Group; RLI Insurance Group; Great American Insurance Companies; Lexon/Bond Safeguard Insurance Companies; The Hanover Insurance Group.

With Goldleaf's extensive surety relationships, Goldleaf can provide the market access to establish accounts with the proper surety support they deserve.

Be Sociable, Share!

Filed Under: [Goldleaf Blog](#) Tagged With: [top 100](#), [2013](#), [surety](#)

Categories

[Goldleaf Blog](#)

Latest News

[Goldleaf Attends Capitol Club](#)

[What is an ERISA bond?](#)

[SFAA Releases Preliminary List of Top 100](#)



Contract Bonds

- [Performance Bonds](#)
- [Payment Bonds](#)
- [Surety for Import Bond](#)
- [Public Works Bonds](#)

Court/Fidelity Bonds

- [Estate Bonds](#)
- [Guardianship Bonds](#)
- [Charter Schooling Bonds](#)
- [Mechanics Lien Bonds](#)
- [License for Sale of Used Car](#)
- [Construction Crime Bonds](#)

Commercial Bonds

- [Commercial Surety Bonds](#)
- [Service Contract Bonds](#)
- [Supply Bonds](#)
- [Supply and Install Bonds](#)

License/Permit Bonds

- [Contractor License Bonds](#)
- [Motor Vehicle Dealer Bond](#)
- [BMCPS Bond](#)
- [ERISA Bonds](#)
- [Oil Driller Bonds](#)
- [Notary Public Bond](#)

Bonds for Private Equity

- [Ind Bonds](#)
- [Performance Bonds](#)

Technology/Software Bonds

- [Technology Ref Bonds](#)
- [Technology Performance Bond](#)
- [Technology Equipment Bond](#)
- [Software Ref Bonds](#)
- [Software Performance Bonds](#)
- [Software Process Bond](#)



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300

June 14, 2013

To: Board of Commissioners, Del Norte Solid Waste Management Authority
From: Kevin Hendrick, Director *Kevin*
RE: Final Budget for Fiscal Year 2013/2014

RECOMMENDATION:

- 1) Hold a Public Hearing and provide public notice for the final adoption of the Budget not earlier than 3:45 PM on Tuesday, June 25;
- 2) Adopt the final budget for fiscal year 2013/2014

BACKGROUND:

The joint powers agreement that formed the Del Norte Solid Waste Management Authority (Authority) requires that each year, prior to adoption, the proposed Authority budget shall be transmitted to the Board of Supervisors and the City Council. If the City or the County have specific comments, objections, additions or deletions to the proposed budget either party shall notify the Authority Board of this in writing, before final adoption. Any additional comments that the City or County have may be presented before or during the Public Hearing that is scheduled to adopt the final budget. The public hearing is scheduled at 3:45PM on June 25, 2013.

On June 3, the budget was presented to the City Council, where questions were asked and discussion followed. The City agreed with the budget as presented without any suggested changes.

The budget was scheduled to be presented to the Board of Supervisors on June 11, but this meeting was cancelled due to a lack of a quorum. The budget presentation has been rescheduled for the next Board of Supervisors meeting on June 25.

DISCUSSION:

Expenses

The proposed budget for Fiscal Year 2013/2014 (attached) was prepared in consultation with the County Auditor's office, which provided projections for the annual cost of Salaries and Benefits, Depreciation and the "Interfund Cost Plan", which is the charge for our share of County services.

Most operating expenses are the same as last year. The greatest single expense increase is the charge for County health insurance. This cost has increased \$24,088. We also propose to increase the budget for temporary employees, to cover the extra expense of filling in the scheduled absence of a permanent employee for all of July and August.

In anticipation that the Board may want to procure landfill liability insurance, we have budgeted an additional \$5000 for Liability Insurance (10151)

There are also increases in three budget lines to provide additional funding for landfill related work that is anticipated to continue into the next fiscal year. These lines are for Professional Services (20231), Post-closure Maintenance (20239-01) and Minor Equipment (20270).

The only change recommended from the proposed budget is to reduce \$10,000 from line 20230 – Professional Services, County and add \$10,000 to line 20231 – Professional Services. The main reason for this change is the new contract with Fisch Drilling (\$9,837) and an additional geotechnical engineer (est. \$3300 to \$3600) to oversee the drilling of additional test wells for the Groundwater Investigation Work Plan for the Crescent City Landfill discussed in Agenda items 4.3 and 4.4.

Due to increased use of credit cards, we have projected an increase in Credit Card Service Fees (20237).

A notable decrease in expenses is a reduction in our budgeted Depreciation Expense which has been reduced \$12,292, from \$110,267 this year to \$97,975 next year, because some of the assets have been fully depreciated.

Revenue

The two main sources of revenue for Authority operations are the Franchise Fees (90153) and Authority Service Fees (91004), about 1/3 of the transfer station tipping fees.

Proposed Franchise Fees are based on projected revenue this year. We calculated Franchise Fees using the 10 month actual and projected 12 months (\$241,550) then multiplied this amount by the Recology CPI adjustment (1.26%) to equal \$244,593.

Proposed Authority Service Fees are based on projected revenue this year. We calculated Authority Service Fees using the 10 month actual and projected 12 months (\$953,888) then multiplied this amount by the Transfer Station Fee CPI adjustment (1.67%) to equal \$969,817.

The largest revenue line is TS Gate Fees (91003) \$1,760,000, about 2/3 of the transfer station tipping fees. This is the main source of revenue to pay Hambro/WSG. We have budgeted \$1,800,000 to pay Hambro/WSG paid from the Transfer Station Operations line (20239). \$1,760,000 is paid from line (91003). \$40,000 is paid from Authority Service Fees (91004), which are collected at the Gasquet and Klamath Transfer Stations.

We also have four grants budgeted this year, totaling \$60,000. Two \$15,000 grants are from the Department of Conservation (DOC) for promoting beverage container recycling. One DOC grant will carry over from this fiscal year and the second is a new grant for this year. Similarly we have two \$15,000 grants from CalRecycle for promoting used motor oil recycling. One OIL grant will carry over from this year and the second is a new grant this year. (See attached grant budget detail)

I will be prepared to answer questions at the meeting, but if you need me to provide any additional documentation, please let me know by 9AM on Tuesday June 25th.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY FINAL BUDGET 2013/2014

422-421

Page 1

06/14/13

EXPENDITURE BUDGET							increase
Line Item	Description	Approved Budget 2012 2013	Actual Expenses 5 31 13	Budget Proposed 2013 2014			(decrease)
Salaries and Benefits							
10010	Full Time Payroll	306,207	253,760	306,724		517	CO
10012	Overtime	1,000	484	1,000			
10015	Temporary Employees	8,300	23,920	16,600		8,300	CO
10020	Retirement Benefits	84,965	69,992	84,693		-272	CO
10030	Employee Benefits	59,155	69,236	83,243		24,088	CO
10033	Employee Life Insurance	332	261	331		-1	CO
10035	Management Life Insurance	1,299	1,057	1,295		-4	CO
10040	Worker's Compensation	29,798	24,831	26,890		-2,908	CO
	Total Salaries and Benefits	491,056		520,776		29,720	
Services and Supplies							
20121	Communications	2,200	1,845	2,200			
20140	Household Expense	3,500	3,183	3,500			
20150	Insurance - Office	5,850	6,136	6,200		350	
20151	Liability Insurance	2,500	0	7,500		5,000	LF Ins
20152	Vehicle Insurance	1,400	1,441	1,400			
20155	Liability Insurance	2,573	2,146	2,573			
20170	Maintenance of Equipment	500	0	500			
20171	Maintenance - Vehicles	500	438	500			
20175	Maintenance - Computers	500	0	500			
20180	Maint - Structures	500	1,075	500			
20200	Memberships	7,500	7,400	7,500			
20221	Printing	400	6	400			
20221-069	Printing - DOC Grant 2011/2012	400	0	0		-400	
20221-067	Printing - DOC Grant 2012/2013	400	0	400			
20221-XXX	Printing - DOC Grant 2013/2014	0	0	400		400	
20221-074	Printing - Oil Grant 2011/2012	1000	0	0		-1000	
20221-060	Printing - Oil Grant 2012/2013	1000	0	1000			
20221-XXX	Printing - Oil Grant 2013/2014		0	0			
20223	Postage	1,400	1,107	1,400			
20224	Office Supplies	7,000	4,357	7,000			
20227	Books & Subscriptions	399	0	399			
20230	Prof. Serv. - County/City	20,000	3,564	10,000		-10,000	
20231	Prof. Serv.	2,500	8,353	20,000		17,500	LF

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY FINAL BUDGET 2013/2014

Page 3

EXPENDITURE BUDGET	Line Item	Description	Final Budget		Actual Expenses		Budget Proposed		increase (decrease)
			2012 2013	2013 2014	5 31 13	2013 2014	2013 2014	2013 2014	
	20290-069	Travel - DOC Grant 2011/2012	2,000	0	1,919	0	2,000	0	-2,000
	20290-067	Travel - DOC Grant 2012/2013	2,000	0	0	0	2,000	0	2,000
	20290-XXX	Travel - DOC Grant 2013/2014	0	0	0	0	2,000	0	2,000
	20290-074	Travel - Oil Grant - 2011/2012	1,000	0	0	0	0	0	-1,000
	20290-060	Travel - Oil Grant - 2012/2013	1,000	0	0	0	1,000	0	1,000
	20290-XXX	Travel - Oil Grant - 2013/2014	0	0	0	0	1,000	0	1,000
	20291	Commissioner Expense	0	0	0	0	0	0	0
	20297	Vehicle Fuel	1,500	0	1,542	0	2,100	0	600
	20300	Utilities	0	0	0	0	0	0	0
	20301	State Fees	55,415	0	25,519	0	55,415	0	0
	Total Services and Supplies		2,121,456				2,147,399		25,943
	Fixed Assets								
	40620-400	Computer Equipment	0	0	0	0	0	0	0
	40620-300	Resource Recovery Park	0	0	0	0	0	0	0
	40620-500	Other Equipment	0	0	0	0	0	0	0
	40620-600	Vehicle	0	0	0	0	0	0	0
	Total Fixed Assets		0	0	0	0	0	0	0
	Total Operating Expenses		2,612,512				2,668,175		55,663
	Other								
	70530-199	Interfund Cost Plan	48,328	0	40,270	0	51,639	0	3,311
	70530-025	Transfer Station Loan Payments	203,500	0	203,322	0	203,000	0	-500
	30490	Depreciation	110,267	0	0	0	97,975	0	-12,292
	70800	Post Employment Benefits	11,125	0	0	0	11,125	0	0
	Total Other		373,220				363,739		-9,481
	81000	Contingency	5,000	0	0	0	5,000	0	0
	TOTAL		2,990,732				3,036,914		46,182

Department of Conservation 2012/2013
 Beverage Container Recycling Grant
 Expense

Budget Number	Description	Budget
20221-067	Printing	\$ 400.00
20240-067	Advertising	\$ 2,600.00
20285-067	Special Exp	\$ 6,000.00
20290-067	Travel	\$ 2,000.00
10010	Payroll	\$ 4,000.00
	Total	\$ 15,000.00

Revenue

91129-067	DOC Grant	\$ 15,000.00
-----------	-----------	--------------

Department of Conservation 2013/2014
 Beverage Container Recycling Grant
 Expense

Budget Number	Description	Budget
20221-XXX	Printing	\$ 400.00
20240-XXX	Advertising	\$ 2,600.00
20285-XXX	Special Exp	\$ 6,000.00
20290-XXX	Travel	\$ 2,000.00
10010	Payroll	\$ 4,000.00
	Total	\$ 15,000.00

Revenue

91129-XXX	DOC Grant	\$ 15,000.00
-----------	-----------	--------------

CalRecycle 2012/2013
 Used Motor Oil Recycling Grant
 Expense

Budget Number	Description	Budget
20221-060	Printing	\$ 1,000.00
20240-060	Advertising	\$ 3,500.00
20285-060	Special Exp	\$ 6,500.00
20290-060	Travel	\$ 1,000.00
10010	Payroll	\$ 3,000.00
	Total	\$ 15,000.00

Revenue

90650-060	Oil Grant	\$ 15,000.00
-----------	-----------	--------------

CalRecycle 2013/1014
 Used Motor Oil Recycling Grant
 Expense

Budget Number	Description	Budget
20221-XXX	Printing	\$ 1,000.00
20240-XXX	Advertising	\$ 3,500.00
20285-XXX	Special Exp	\$ 6,500.00
20290-XXX	Travel	\$ 1,000.00
10010	Payroll	\$ 3,000.00
	Total	\$ 15,000.00

Revenue

90650-XXX	Oil Grant	\$ 15,000.00
-----------	-----------	--------------

**Meeting to Discuss Alternatives to the
Del Norte Solid Waste Management Authority
12 June 2013, 2 PM
Del Norte Solid Waste Management Authority Conference Room**

DRAFT Minutes

Attending: Roger Gitlin, Del Norte County Supervisor
Ron Gastineau, Crescent City Councilmember
Jay Sarina, DNC Chief Executive Officer
Eugene Palazzo, Crescent City Manager
Andy Larson, DNC Solid Waste Task Force
Tom Sparrow, Recology Del Norte
Joel Wallen, Hambro/WSG
Wes White, Hambro/WSG
Kevin Hendrick, Director, DNSWMA
Martha Rice, Legal Counsel, DNSWMA
Tedd Ward, Program Manager, DNSWMA

The meeting began at 2 P.M.

Director Hendrick gave background to this meeting, summarizing DNSWMA action from last meeting of 28 May 2013, that the purpose of this meeting is to "...to discuss what options are available to execute the responsibilities currently administered by the Authority." He suggested that Tedd Ward take minutes of this meeting, and no one objected.

Tom Sparrow announced that he has to leave at 4:30 PM
Roger and Ron had Visitor's Bureau meeting at 3:30 PM

Commissioner Gitlin said the conversation was about the continuation of DNSWMA. He wants to hear from Kevin, Tom and Wes about their vision for how things could be run without the Authority.

Director Hendrick said he did not have a vision without DNSWMA, as he was hired as Director of this agency. He added that he was an at-will employee of the Authority Board.

Wes White said he did not think it was his place as a contractor to the Authority that it was his place to comment on the structure of the agency.

Tom Sparrow said that he did not care if DNSWMA exists or not, but his services would not change. He said it is possible to haul wastes out of the County cheaper than to dispose at the DNC Transfer station.

Roger Gitlin asked Director Hendrick to break down the approximately \$140 per ton tipping fee at the Del Norte County Transfer Station.

Tedd Ward identified several services paid for by these rates that are not provided by Hambro/WSG or Recology Del Norte, such as maintenance of the landfill and hazardous waste services, contract oversight, reporting to State agencies, etc.

Tom Sparrow said he was in no way supporting the dissolution of the Authority, but that he wants to make the system better.

(Director Hendrick passed out information about the current rates, including a rate comparison to other facilities in the region and the rates from the most recent Transfer Station Operations Change Order.) Current per ton rates at the Del Norte County Transfer Station are \$138.16 per ton. The rate comparison sheet used the per ton rate effective July 1: \$140.46, and of this Hambro/WSG is paid \$93/46 per ton.

Roger Gitlin said he was interested in fiduciary oversight responsibility. Andy Larson said Colusa County meets the responsibilities without a joint powers authority, and he is interested in how things can be done cheaper.

Tom Sparrow and Wes White agreed that there needed to be some government oversight over their agreements.

Director Hendrick explained that most of the complicated reports done by the Authority, most are associated with the County's landfill. The Authority was handed the landfill liability upon its formation. Director Hendrick detailed over \$200,000 annually in payments made by the Authority for permit fees, County services or liabilities. These costs did not include any gate staff expenses, as he presumed if the transfer station was to be sold or ownership transferred that those jobs would continue somehow.

Commissioner Gitlin pointed out these totals did not include landfill insurance. Director Hendrick responded that landfill insurance was an item was on the agenda for the last Authority meeting, but that the meeting ended before that item was addressed.

Tedd Ward said that comparisons of rates should focus on this region, and the rates charged at the Del Norte County Transfer Station are the lowest in the region, as demonstrated by the information handed out by Director Hendrick. Ward pointed out that the lowest comparable rate in the region is offered at the facility operated another public agency, the Humboldt Waste Management Authority at \$152.47 per ton. Every privately operated transfer station in the region has more expensive per ton rates than the rates charged at the publicly managed transfer stations. Ward also said that privately run facilities can make special arrangements with different rates for large volume customers, but this rate comparison focused on rates charged to the general public.

Andy Larson said there may be another way to meet the City and County's obligations

to CalRecycle rather than the Authority.

Director Hendrick said DNSWMA's income sources are a fraction of tip fees, franchise fees, and grants. He said as a follow-up, he will produce a break-down of the Authority's revenues and expenses.

Jay Sarina said he was hearing a desire for a comparison between the administrative costs for the Authority versus what these costs would be if these services were privatized, to the extent that was legal and feasible.

Tom Sparrow said a lot of this has to do with the I-Bank lease agreements. Martha Rice said the I-Bank 'loan' was arranged as a series of leases, which could be paid off for \$2.6 million. A private company could operate the gate if it was a 'qualified management contract.' When all four leases terminate, the Authority would own the land and buildings. Currently, the Authority is named on the deed and payments are made by the Authority to the County, who pays the I-Bank.

Jay Sarina said that the Authority began as a partnership, and the City retains some liability for the landfill.

Roger Gitlin said his vision was to sell the transfer station to a private company (which would then pay property taxes), with DNC maintaining responsibility for the maintenance of the landfill. Mr. Gitlin said his vision included the City and County each getting franchise fees from the collections contract. Gene Palazzo pointed out any franchise fee revenues coming to the City or County would have to be spent on tasks and services related to solid waste, recycling or managing those contracts.

Director Hendrick pointed out that payments for property taxes, and the financing needed to purchase the transfer station, would come from Del Norte ratepayers.

Tom Sparrow asserted that approximately 60% of the franchise fees come from the County, 40% from City. (In a follow-up e-mail, he clarified that for May 2013, Franchise collection income from City customers was \$101,287.48 (34%) and from County customers was \$202,051.22 (66%), noting that such figures will vary from month to month.)

Martha Rice points out that under the Costa Mesa ruling, she was not confident that all the public employees of the Authority can legally become private employees. Ron Gastineau said he did not think these administrative functions can be eliminated easily, or without significant legal expenses.

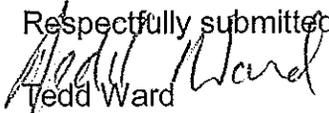
Director Hendrick said he was also interested in ideas to reduce costs, but such suggestions need to be based on real examples.

Roger Gitlin said this meeting should be summarized and agendaized for discussion for the next Authority meeting. Draft meeting notes will be sent by e-mail to those

attending.

Meeting ended 3:26 P.M.

Respectfully submitted,

A handwritten signature in black ink that reads "Tedd Ward". The signature is written in a cursive style with a large initial "T" and "W".

Tedd Ward

Acting Recording Secretary

Program Manager

LAW OFFICES OF ROBERT N. BLACK

The McNulty House
710 H Street
Crescent City, CA 95531

Robert N. Black, Attorney
rblack@attyblack.com

Phone: 707-464-7637
Fax: 707-464-7647

Martha D. Rice, Attorney
mrice@attyblack.com

Nancy A. Mingelen, Paralegal
nmingelen@attyblack.com

Autumn E. Luna, Attorney
aluna@attyblack.com

Andre L. Carpenter, Office Manager
acarpenter@attyblack.com

TO: Chair Enea and Commissioners of the Governing Board of the Del Norte Solid Waste Management Authority; Executive Director Hendrick

FROM: Martha D. Rice, Legal Counsel

DATE: June 12, 2013

**EXECUTIVE SUMMARY OF FINANCING DOCUMENTS
FOR THE DEL NORTE COUNTY TRANSFER STATION**

A. Purpose of Executive Summary

The purpose of this executive summary is to provide the governing board with a comprehensive overview of the contract documents and the pertinent terms contained in each so that the governing board has a better understanding of the relationship between the "I-Bank", the Authority and the County.

B. Identification of the Contract Documents

The financing arrangement for the construction of the Del Norte County Transfer Station with the California Infrastructure and Economic Development Bank ("I-Bank") consists of four documents, each a separate contract. Contrary to popular belief, the Transfer Station was not financed through a loan per se, but was instead financed utilizing the Infrastructure Revolving

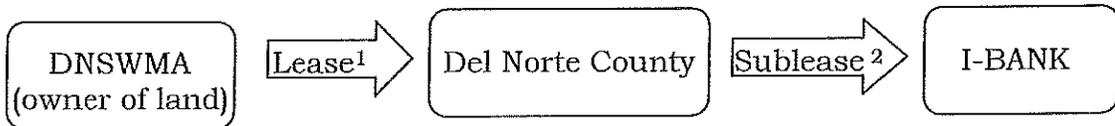
Fund (ISRF) Program. The ISRF Program finances projects in amounts ranging from \$250,000 to \$10,000,000 with terms up to 30 years at subsidized, below-market interest rates.

The documents that make up the financing arrangement are the following.

1. Site Lease between the Del Norte Solid Waste Management Authority (Lessor) and Del Norte County (Lessee) - May 1, 2004
2. Site Sublease between Del Norte County (Sublessor) and I-Bank (Sublessee) – May 1, 2004
3. Facility Lease between I-Bank (Lessor) and Del Norte County (Lessee) – May 1, 2004
4. Facility Sublease between the Del Norte County (Sublessor) and the Del Norte Solid Waste Management Authority (Sublessee) – May 1, 2004

C. Flow Chart Identifying the Relationship between the Parties

LAND (Site)



FACILITY (Transfer Station and Site)



D. Overview of the Contract Documents

Land (Site)

1. Site Lease: The Del Norte Solid Waste Management Authority is the owner of the land that is the site of the Transfer Station. Under the Site Lease, the Authority leased the land to the County for \$1.00 for 30 years and in any event for 10 days beyond the payoff to the I-Bank. The purpose of the lease is *solely* for the purpose of permitting the construction of the project (transfer station) thereon and leasing the Facility (transfer station and land) to the Authority. Of particular significance is the termination clause, which states, “[t]he [County] agrees, upon the termination or expiration of this lease . . . that any permanent improvements and structures existing upon the Site at the time of such termination or expiration of this lease shall remain thereon and title thereto shall vest in [the Authority].”
2. Site Sublease: The County subsequently subleased the land to the I-Bank also for \$1.00 and also for a term of 30 years and in any event for 10 days beyond the payoff to the I-Bank. Again the purpose is solely for the purposes of permitting the construction of the Project (Transfer Station) thereon and leasing the Facility (Transfer Station and land) to the County. This lease includes identical language regarding termination as well, “[I-Bank] agrees, upon the termination or expiration of this lease . . . that any permanent improvements and structures existing upon the Site at the time of such termination or expiration of this lease shall remain thereon and title thereto shall vest in the [County].” This provision gives the County the legal ability to pass title to the improvements and structures to the Authority as provided in the Site Lease quoted above. This is consistent with the Facility Sublease discussed below in #4.

Facility (Transfer Station and Site)

3. Facility Lease: The I-Bank leased to the County the Facility (defined as the Transfer Station and the site) for 30 years. Rental payments are set according to an amortization schedule. The principal obligation of the County is \$3,535,000. The Facility Lease prohibits the assignment of the Lease or the sale of the Facility if that transfer or sale would violate the rules pertaining to eligibility for financing through the ISRF Program. Article III, subsection (b) states “[u]pon termination or

expiration of this Facility Lease . . . full and complete title to the Facility shall vest in the [County].”

4. **Facility Sublease.** The County subleased the Facility (Transfer Station and land) to the Authority for 30 years. The Authority has assumed responsibility for making the County’s semi-annual rental payments. Article III subsection (b) of the sublease states the “[County] agrees that upon the termination or expiration of this Facility Sublease . . . it shall do all acts necessary to vest full title to the Facility and Site . . . in the [Authority].” This provision is consistent with the termination provision in #3 above, which provides that the I-Bank transfers its interest to the County thereby allowing the County to then transfer title to the Authority as provided herein.

E. Significant Conclusions

1. **Title to Transfer Station.** Upon the expiration or termination of the lease, i.e. payoff of the I-Bank obligation, title to the Transfer Station and site will vest in the Authority. Therefore any sale of the Transfer Station would require action of the Authority’s governing board.
2. **Early Payoff of Obligation Allowed.** The lease may be paid off early at which time the lease and all subleases would terminate. I confirmed this in a conversation with the I-Bank Manager, Carlos Nakata. The approximate payoff after the August 1, 2013 payment will be \$2,864,000.
3. **Qualified Management Contract Allowed.** While the I-Bank obligation remains outstanding, the Transfer Station gates/administration may be contracted out to a private party so long as the agreement qualifies as a “qualified management contract” under IRS Revenue Procedure 97-13.¹ In the most simplistic terms, the procedure requires that the agreement provide for reasonable compensation for services rendered with 50% (5 yrs), 80% (10yrs), or 95% (15 yrs) of compensation being a periodic fixed fee.

¹ This statement is only given in the context of the I-Bank obligation and does not address other legal questions regarding the privatization of public employee positions.

Comparison of Rates Charged for Solid Waste services in the Del Norte region

TRANSFER STATION SELF-HAUL RATES

Location	Humboldt County				Del Norte County			2013/14		Curry County (CTR)		
	Eel River Disposal	Eel River Disposal	HWMA	Humboldt San.	Humboldt San.	Humboldt San.	Del Norte Solid Waste Management Authority	Klamath	Crescent City	Gasquet	"Light" CY Equivalent	"Heavy" CY Equivalent
Minimum Charge	\$ 12.00	\$ 10.00	\$ 12.00	\$ 12.00	\$ 12.00	\$ 8.75	\$ 8.50	\$ 7.00	\$ 8.50	\$ 9.60	\$ 9.60	\$ 9.60
1x 30 gal can						\$ 8.75	\$ 8.50	\$ 7.00	\$ 8.50	\$ 9.60	\$ 9.60	\$ 9.60
2x 30 gal can						\$ 17.50	\$ 8.50	\$ 8.50	\$ 8.50	\$ 9.60	\$ 9.60	\$ 9.60
3x 30 gal can						\$ 26.25	\$ 8.50	\$ 8.50	\$ 8.50	\$ 14.45	\$ 14.45	\$ 14.45
4 x 30 gal can (up to 140 lbs)						\$ 35.00	\$ 8.50	\$ 8.50	\$ 8.50	\$ 19.30	\$ 19.30	\$ 19.30
"Light" per cubic yard *	\$ 19.91	\$ 19.25	\$ 16.77	\$ 26.40	\$ 11.35	\$ 19.31	\$ 15.45	\$ 11.35	\$ 11.35	\$ 24.15	\$ 24.15	\$ 24.15
"Heavy" per cubic yard *	\$ 40.73	\$ 39.38	\$ 34.30	\$ 54.00	\$ 45.00	\$ 19.31	\$ 15.45	\$ 19.31	\$ 19.31	\$ 24.90	\$ 24.90	\$ 24.90
Cost per Ton Waste	\$ 181.00	\$ 175.00	\$ 152.47	\$ 240.00	\$ 327.27	\$ 140.46	\$ 226.36	\$ 166.00	\$ 166.00	\$ 25.54	\$ 25.54	\$ 18% % more
% More per Ton than DNSWMA	29%	25%	9%	71%	133%	0%	0%	61%	61%	18% % more	18% % more	

* These are rates as reported to be charged by Curry Transfer and Recycling. For comparison, roughly equivalent rates were calculated from the per-ton rate for other facilities. Similarly, the CTR "Cost per ton" was derived from their per cubic yard rates, though CTR has no scale in their system for public use.

Yellow shaded cells indicate rates which were calculated for comparison, but which are not charged as such within that jurisdiction.

Cost per Ton Waste for HWMA and DNSWMA are rates effective July 1, 2013 - June 30, 2014. Actual DNSWMA per ton rate through June 30, 2013 is \$138.16 per ton.

Conversions adapted from Tchobanoglous et al., Integrated Solid Waste Management Engineering Principles and Management Issues, Table 4-1

Residential rubbish specific weight in lb/cy = 220 pounds/cy average
 Municipal waste in compactor truck = 500 pounds/cy average
 Mixed combustible construction debris = 440 pounds /cy average
 Mixed wastes disposed at Small volume Del Norte transfer stations presumed to have a density of 275 lbs/cy

Last updated 30 May 2013

839-3285 Humboldt Sanitation 725-5156 Eel River Disposal (541) 469-2425 Curry Transfer & Recycling (707) 822-0304 Arcata Garbage (707) 442-5711 Eureka City Garbage (707) 268-8680 Humboldt Waste Management Authority	839-3285 Humboldt Sanitation 725-5156 Eel River Disposal (541) 469-2425 Curry Transfer & Recycling (707) 822-0304 Arcata Garbage (707) 442-5711 Eureka City Garbage (707) 268-8680 Humboldt Waste Management Authority
---	---

**AGREEMENT FOR
RECORDING SECRETARY SERVICES**

THIS AGREEMENT for consulting services ("Agreement") is made as of the Agreement Date set forth below by and between the Del Norte Solid Waste Management Authority, ("Authority"), and Karen Phillips, dba PS Business Services ("Contractor").

In consideration of the Services to be rendered and the sums to be paid therefore, and each and every covenant and condition contained herein, the parties agree as follows:

1. IDENTIFICATION OF CONTRACTOR. The name, address, and phone number of Contractor are Karen Phillips, dba PS Business Services, 501 "H" Street, Crescent City, CA 95531 (707) 464-9651. Contractor is an Individual.

2. SERVICES. The services provided by Contractor, or contractor's employees, consist of clerking and administrative support services, i.e. attending monthly meetings, taking minutes and providing original copies of the same. Completed draft minutes shall be delivered to the Authority for inclusion in the agendas and final minutes will be delivered after Board adoption. Contractor shall also make such reports and provide such information to the Authority in a timely manner, as Authority shall reasonably require. Contractor shall be provided with electronic copies of the meeting agendas and board packet from Authority in compliance with the Brown Act.

3. TERM. The term of this contract shall be from June 1, 2013 through May 30, 2014. The contract may be renewed or amended based on the availability of funds and upon written agreement of both parties.

4. PAYMENT. Authority shall pay Contractor at a rate of Forty Dollars and No/100s (\$40.00) per hour. The total compensation paid to Contractor under this agreement shall not exceed Two Thousand Dollars and No/100s (\$2,000).

Contractor shall submit requests for payment after completion of services no later than the fifth day of the month following provision of services. Requests for payment shall be submitted to the following address:

Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

Authority shall not pay Contractor for meals, lodging or other travel costs not included in this Agreement unless such costs are approved in advance by the Authority representative who executed this Agreement, or his/her designee. If the Authority pays Contractor for meals, lodging or other travel costs, Authority shall pay Del Norte County per diem rates in effect on the dates such costs were incurred by Contractor. Services

performed by Contractor and not authorized in this Agreement shall not be paid for by Authority. Payment for additional services shall be made to Contractor by Authority if, and only if, this Agreement is amended by both parties in advance of performance of any additional services.

5. FACILITIES. Contractor shall at his/her sole cost and expense, furnish all facilities, equipment, and other materials which may be required for furnishing services pursuant to this Agreement, with the exception of the digital or audio recording equipment. The Authority shall supply the equipment necessary to produce audio records of the meetings.

6. DESIGNATED REPRESENTATIVES. Kevin Hendrick, Executive Director is the representative of the Authority and will administer this Agreement for the Authority. Karen Phillips is the authorized representative for the Contractor.

7. INDEPENDENT CONTRACTOR. At all times during the term of this Agreement, Contractor shall be responsible for Contractor's own operating costs and expenses, property and income taxes, worker's compensation insurance, and any other costs and expenses in connection with the performance of services under this Agreement. Contractor agrees that he or she shall not be an employee of the Authority. Authority shall not have the right to control the means by which Contractor accomplishes services rendered pursuant to this Agreement.

8. LICENSES, PERMITS, ETC. Contractor represents and warrants to Authority that he/she has all licenses, permits, qualifications and approvals legally required for Contractor to practice his or her profession. If at any time Contractor ceases to have the licenses, permits, qualifications or approvals required for Contractor to practice his or her profession, Contractor will immediately notify Authority and this Agreement may be terminated at Authority's sole discretion.

9. INSURANCE. During the term of this Agreement, Contractor shall maintain in full force and effect a policy of automobile insurance with bodily injury coverage \$100,000 per occurrence/\$300,000 aggregate. Contractor shall provide Authority with proof of current insurance at the request of Authority's designated representative.

10. STANDARD OF PERFORMANCE. Contractor shall perform all services required pursuant to this Agreement in the manner and according to the standards observed by competent practitioners of the profession in which Contractor is engaged.

11. INDEMNITY. Contractor shall defend, indemnify, and hold harmless Authority, and its elected and appointed officers, agents and employees from any liability for damage or claims for damage for personal injury, including death, as well as for property damage, which may arise from the intentional or negligent acts or omissions of Contractor in the performance of services rendered under this Agreement.

12. TERMINATION. Authority and Contractor shall each have the right to terminate this Agreement upon 30 days written notice to the other party.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on May 28, 2013.

PS BUSINESS SERVICES


Karen L. Phillips, Owner

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

Kevin Hendrick, Director

APPROVED AS TO FORM:

Martha Rice, Legal Counsel