

California Regional Water Quality Control Board
North Coast Region

ORDER NO. R1-2002-0037
(Revised on May 2, 2013)

WDID NO. 1B75147OHUM

WASTE DISCHARGE REQUIREMENTS

FOR

CALIFORNIA REDWOOD COMPANY
WOODWASTE DISPOSAL SITE
CLASS III WASTE MANAGEMENT UNIT

Humboldt County

The California Regional Water Quality Control Board, North Coast Region, (hereinafter Regional Water Board) finds that:

1. The California Redwood Company, formerly known as Simpson Timber Company (hereinafter permittee), P.O. Box 68, Korb, CA 95550 submitted a Report of Waste Discharge dated September 4, 2001, and applied for renewal of its Permit to discharge storm water runoff from its Korb sawmill and woodwaste disposal site under the National Pollutant Discharge Elimination System (NPDES). In 2006 and 2012, the Permittee filed a Report of Waste Discharge application and supplemental information for renewal of its NPDES permit for the sawmill separate from this Order for the woodwaste disposal site. A location map and site details are shown on Attachments A and B, incorporated herein and made part of this Order.
2. A woodwaste disposal site is located about ¼ mile north of the mill in the NW ¼ of Section 28, T6N, R2E, HB&M as shown on Attachment B.

The 11-acre woodwaste disposal site is situated in the head of a gully that is tributary to the North Fork Mad River. The site received woodwaste and log deck cleanup wastes from the sawmill and the log storage yard. The site is designed as a series of benches progressing up the hillside. Total capacity of the site is 500,000 cubic yards. Approximately 125,000 cubic yards of capacity remain, which equates to a 5- to 7-year life. The life of the site has been extended beyond that predicted since woodwaste reclamation and recycling is proving cost effective. Final design of the site is based on the contours presented in the 1988 Design and Operations Plan.

The site is underlain by sedimentary strata of the Falor Formation. This formation consists of lenses of sandstone, claystone, and conglomerate that may grade into each other. Vadose Zone monitoring is not appropriate for this site due to shallow groundwater conditions. The landfill is not located near a known Holocene fault. The nearest faults are the McKinleyville and Fickle Hill faults. On-site borings have identified a sheared zone 60-70 feet wide, which was postulated to be an inactive fault zone.

Infiltration of rainfall and waste decomposition has the potential to generate leachate in the waste disposal cells, though the landfill is not currently producing any leachate. Leachate is a nonhazardous liquid waste which contains pollutants that could be released at concentrations in excess of applicable water quality objectives or could cause degradation of waters of the state. Landfill leachate shall be collected and managed as a designated waste, which is defined in Section 20210 of Chapter 3, Division 2, Title 27 of the California Code of Regulations (CCR). Storm water runoff from the landfill is collected in drainage ditches and discharged to the North Fork Mad River through Log Deck Creek Culvert No. 1.

3. The Facility was previously governed by Waste Discharge Requirements Order No. 97-16, adopted by the Regional Water Board on February 27, 1997.
4. Effective July 18, 1997, the water quality regulations for disposal facilities formerly contained in Chapter 15, Title 23, CCR, and the solid waste regulations formerly in Title 14, CCR, were re-codified into Chapters 1 through 7, Subdivision 1, Division 2, Title 27, CCR (Title 27). Chapter 15 is, therefore, no longer applicable to this facility. The landfill meets criteria contained in Title 27 for a Class III Waste Management Unit.
5. The "Water Quality Control Plan for the North Coast Region" (Basin Plan) includes water quality objectives, implementation plans for point source and nonpoint source discharges, prohibitions, and statewide plans and policies.
6. Beneficial uses of areal groundwaters include:
 - a. domestic water supply
 - b. agricultural water supply
 - c. industrial service supply
 - d. industrial process supply
7. The permitted discharge is consistent with the State Water Board Resolution No. 68-16, *Statement of Policy with Respect to Maintaining High Quality of Waters in California*. The impact on existing water quality will be insignificant.
8. The Regional Water Board has notified the Permittee and interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
9. On May 2, 2013, the Regional Water Board adopted Order No. R1-2013-0008 renewing point source discharge requirements pursuant to NPDES Permit No. CA0005932, which were contained within the original adoption of Order No. R1-2002-0037. On May 2, 2013, the Regional Water Board also adopted Order No. R1-2013-0011 amending this Order by deleting all sawmill and storm water-related language by replacing Simpson Timber Company with California Redwood Company as the named responsible party, and by making minor editorial changes (i.e. capitalizing "Permittee" and inserting this Finding).

10. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

THEREFORE, IT IS HEREBY ORDERED that Waste Discharge Requirements Order No. 97-16 is rescinded and the Permittee, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS (LANDFILL)

1. The discharge of wastes that are not described in Finding No. 2 is prohibited.
2. Discharges of wastes outside of the designated disposal area as described in the Report of Waste Discharge is prohibited.
3. The treatment, storage, or disposal of waste, including leachate, shall not cause a pollution or nuisance as defined in CWC Section 13050 (l) and (m).
4. The Permittee shall not cause the concentration of any Constituent of Concern (COC), any waste constituent(s), reaction product(s), and hazardous constituent(s) that is reasonably expected to be in, or derived from, waste contained in a waste management unit, to exceed its respective concentration limit in any monitored medium. COCs are listed in the groundwater monitoring part of the Monitoring and Reporting Program associated with this Order. The concentration limit for each monitoring parameter will be set at the background concentration. Data analysis will be performed in accordance with the approved Monitoring and Reporting Program.
5. The discharge of wastes, including leachate, to surface waters, surface water drainage systems, or groundwater is prohibited.
6. The discharge of wastes within five feet of the highest anticipated elevation of the groundwater surface is prohibited.
7. The discharge of leachate to land that is not controlled by the Permittee is prohibited.
8. The discharge of wastes into ponded water from any source is prohibited.
9. Ponding of liquids, including rainfall runoff and leachate, over solid waste disposal cells is prohibited.

The discharge of woodwaste to the woodwaste disposal site between October and May is prohibited unless approved, in writing, by the Executive Officer of the Regional Water Board (Executive Officer).

B. OPERATION REQUIREMENTS (LANDFILL)

1. If leachate management and disposal systems become necessary, they shall be described in a leachate management plan, which shall be approved by the Executive Officer.
2. Leachate shall not be discharged below ground surface. Leachate may be spray irrigated on inactive disposal cells or for dust control on roads in accordance with the leachate management plan approved by the Executive Officer.
3. Leachate removed from the landfill shall not be discharged into the landfill.
4. The Class III Waste Management Unit has an interim cover material designed and constructed to minimize percolation of precipitation through the woodwaste. Interim cover shall consist of clean, earthen material compacted to a minimum thickness of 6 inches and graded to drain away from the active area. Alternative covers, approved by the Executive Officer, are acceptable. Only the active face of the disposal cell shall be left exposed to rainfall. The active face shall not be excessively large for daily waste placement. Inactive areas shall be provided with intermediate cover material which shall consist of clean, earthen material compacted to a minimum thickness of 12 inches and graded to drain.
5. Surface drainage from tributary areas and internal site drainage from surface or subsurface sources shall not contact or percolate through wastes. Drainage ditches shall be located, to the maximum extent practicable, such that they do not cross over landfill areas. Site drainage over landfill areas shall be contained in man-made drainage conveyance structures such as corrugated metal pipe or in drainage ditches which are lined.
6. Waste disposal cells shall be designed and constructed to progress in an orderly and timely manner toward final landfill contours. Final contours of the landfill shall be constructed as shown in the 1988 Design and Operations Plan.

C. CONSTRUCTION SPECIFICATIONS (LANDFILL)

1. Precipitation and drainage control systems shall be designed and constructed to limit, to the greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, washout, and overtopping from precipitation conditions of a 100-year, 24-hour storm event.
2. All containment structures shall be designed and constructed under the direct supervision of a California registered civil engineer or certified engineering geologist and shall be certified by that individual as meeting the prescriptive

standards and performance goals of Title 27, CCR.

3. Materials used to construct liners or caps shall have appropriate physical and chemical properties to ensure containment of wastes over the operating life, closure, and post-closure maintenance period of the landfill.
4. Clay caps (used in final covers) shall be sloped to promote rapid lateral drainage and shall have a minimum thickness of 12 inches, a maximum permeability of 1×10^{-6} cm/sec and a minimum relative compaction of 90 percent. In-place permeabilities of caps shall be determined in the field and in the laboratory using techniques approved by the Executive Officer. Construction methods and quality assurance procedures shall be sufficient to ensure that all parts of the cap meet the permeability and compaction requirements.
5. Final cover material to be placed over the landfill shall be designed and constructed to function with minimum maintenance and shall consist, at a minimum, of a two-foot thick foundation layer, overlain by a one-foot thick clay cap, which is overlain by a one-foot thick vegetative soil layer. The foundation layer shall be comprised of clean soil and compacted to a relative compaction of 90 percent. The final cover shall be installed under the direct supervision of a California registered civil engineer or certified engineering geologist. Final construction Quality Assurance reports and as-built drawings shall be submitted to the Regional Water Board within 60 days of installation.
6. Vegetation shall be established immediately upon final closure of a disposal cell. Vegetation shall be selected to require a minimum of irrigation and maintenance and shall have a rooting depth not in excess of the vegetative soil layer thickness.
7. The Permittee shall install a sufficient number of permanent survey monuments on and near the landfill from which the elevation of disposal cells can be determined. Such monuments shall be installed by a licensed land surveyor or registered civil engineer.

D. LANDFILL PROVISIONS

1. By July 15, 2002, the Permittee shall submit water quality protection standards for existing monitoring wells.
2. By May 16, 2003, the Permittee shall submit a Final Closure and Post Closure Maintenance Plan to the Regional Water Board. The closure plan shall include the planned closure configuration for the landfill, final cover designs, and slope stability plans.
3. Sections 20950(f) and 20380(b), Title 27, CCR require that the Permittee establish a formal financial mechanism to fund Site closure post closure maintenance and known or reasonably foreseeable release from the facility. The financial assurance mechanism shall consist of an established mechanism

pursuant to Title 27, CCR, approved by the Executive Officer. The permittee is required to update approved cost estimates annually to account for inflation according to the following schedule:

- a. By July 1, 2002, and annually thereafter, the Permittee shall submit evidence that adequate financial assurance for closure, post-closure maintenance, and corrective action is still in effect and in conformance with existing regulations.
 - b. By July 1, 2002, and annually thereafter, following closure construction, the Permittee shall submit a statement that the amount of financial assurance for corrective action and post-closure maintenance is still adequate or increase the amount if necessary.
4. The Permittee shall submit construction specifications, installation procedures, and a Construction Quality Assurance plan to the Regional Water Board 45 days prior to commencing construction of the final cover.
5. The Permittee shall notify the Regional Water Board, when two years of adequate capacity remain in the landfill. The Permittee shall submit a revised closure plan and a plan describing future disposal needs and accommodations for the waste.
6. By October 1 of each year, any necessary erosion control measures shall be implemented and any necessary construction, maintenance, or repairs of drainage control facilities shall be completed to prevent erosion or flooding of the site. All disturbed areas (soil borrow areas and inactive disposal cells) shall be seeded with an appropriate grass mixture to minimize erosion. Rainfall runoff from all disturbed areas shall be controlled to minimize sedimentation in surface drainage courses downgradient of the site.
7. If the Permittee determines that a physical release from the waste management unit, as defined in Section 20425 of Title 27, CCR, has occurred, the Permittee shall:
 - a. Immediately notify the Regional Water Board staff verbally and take all necessary corrective actions. Written notification shall be provided within 7 days of occurrence.
 - b. Within 90 days, institute an evaluation monitoring program, in accordance with the Section 20420 and Section 20425, Title 27, CCR.
8. Upon initial determination that there is statistical evidence of a release from the waste management unit, the Permittee:

- a. Shall immediately notify the Regional Water Board staff verbally of the finding and shall provide written notification by certified mail within 7 days. [Section 20420, Title 27, CCR]
 - b. Shall immediately initiate the verification procedure to verify that there is statistically significant evidence of a release from the waste management unit. [Section 20420, Title 27, CCR]
9. Results of the verification procedure and initial statistical test shall be reported to the Regional Water Board by certified mail within 7 days of the last laboratory analysis. [Section 20415, Title 27, CCR]
10. If the verification procedure confirms there is statistically significant evidence of a release from the waste management unit, the Permittee shall:
 - a. Within 30 days sample all monitoring points in the affected medium and determine the concentration of all constituents of concern. [Section 20420, Title 27, CCR]
 - b. Within 90 days submit a revised Report of Waste Discharge proposing an evaluation program meeting provisions of Section 20425, Title 27, CCR.
 - c. Within 180 days of verifying statistically significant evidence of a release from a waste management unit, submit an engineering feasibility study for a corrective action program. The corrective action program shall meet the requirements of Section 20430, Title 27, CCR at a minimum.
11. If the Permittee verifies that there has been a statistically significant release from the waste management unit, the Permittee may demonstrate that a source other than the waste management unit caused the evidence of a release or that the evidence is an artifact caused by an error in sampling, analysis, or the data analysis protocol. The Permittee may make a demonstration in addition to or in lieu of submitting an amended Report of Waste Discharge and an engineering feasibility study pursuant to Landfill Provision 7, above. The Permittee is not relieved of the requirements of Landfill Provision 7 above unless the demonstration report is accepted by the Executive Officer. In making a demonstration, the Permittee shall:
 - a. Within 7 days of verifying evidence of a release, submit a report to the Regional Water Board by certified mail that the Permittee intends to make a demonstration pursuant to Section 20420), Title 27, CCR.
 - b. Within 90 days of verifying evidence of a release, submit a report to the Regional Water Board that demonstrates that a source other than the waste management unit caused the apparent release.

- c. Within 90 days of verifying evidence of a release, submit an amended report of waste discharge to make any appropriate changes to the detection monitoring program.
12. The Permittee shall notify the Regional Water Board by telephone immediately upon learning of any flooding, equipment failure, slope failure, or other change in site conditions which could impair the integrity of waste or leachate containment facilities or the precipitation and drainage control structures. Confirmation shall follow in writing within two weeks of the telephone notification.
13. The Permittee shall remove and relocate any wastes discharged at this site in violation of this Order.
14. The Permittee shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel, who shall be familiar with its contents.
15. The Permittee shall comply with all provisions of Title 27, CCR that are not specifically referred to in this Order.
16. The Regional Water Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.
17. The Permittee shall comply with all notice and reporting requirements of the State Department of Water Resources with regard to the construction, alteration, destruction, or abandonment of all monitoring wells used for compliance with this Order or with the associated Monitoring and Reporting Program as required by Section 13750 and 13755 of the California Water Code.

E. GENERAL PROVISIONS

1. Duty to Comply

The Permittee shall comply with all conditions of this Permit. Any Permit noncompliance constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or denial of a Permit renewal application.

2. Enforcement

The Porter-Cologne Water Quality Control Act provides that any person who violates a Permit condition is subject to a civil penalty assessed per day of violation.

3. Duty to Mitigate

The Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this Permit that has a reasonable likelihood of adversely affecting human health or the environment.

4. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with this Permit. Proper operation and maintenance includes adequate laboratory control and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Permittee only when necessary to achieve compliance with the conditions of this Permit.

5. Permit Actions

This Permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this Permit; or
- b. Obtaining this Permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or a permanent reduction or elimination of the authorized discharge; or
- d. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by Permit modification or termination.

The filing of a request by the Permittee for a Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any Permit condition.

6. Property Rights

This Permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

7. Duty to Provide Information

The Permittee shall furnish the Regional Water Board or State Water Board, within a reasonable time, any information that the Regional Water Board or State Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit or to determine compliance with this Permit. The Permittee shall also furnish to the Regional Water Board, upon request, copies of records required to be kept by this Permit.

8. Inspection and Entry

The Permittee shall allow the Regional Water Board or State Water Board upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records are required to be kept under the conditions of this Permit;
- b. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of this Permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance, any substances or parameters at any locations.

9. Monitoring and Records

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. The Permittee shall calibrate and perform maintenance procedures in accordance with manufacturer's specifications on all monitoring instruments and equipment to ensure accurate measurements. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Permit, and records of all data used to complete the application for this Permit, for a period of at least three years from the date of the sample, measurement, report, or application. This period may be extended by request of the Regional Water Board or State Water Board. All monitoring instruments and devices used by the Permittee to fulfill the prescribed monitoring program

shall be properly maintained and calibrated as necessary, at least annually to ensure their continued accuracy.

- c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used;
 - vi. The results of such analyses;
 - vii. The method detection limit (MDL); and
 - viii. The practical quantitation level (PQL) or the limit of quantitation (LOQ).
- d. Unless otherwise noted, all sampling and sample preservation shall be in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association). All analyses shall be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified in this Permit or approved by Executive Officer. Unless otherwise specified, all metals shall be reported as total metals.

10. Signatory Requirements

- a. All Permit applications submitted to the Regional Water Board or State Water Board shall be signed by a general partner or the proprietor, the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency, or a responsible corporate officer. For purposes of this provision, a responsible corporate officer means:
 - i. A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or
 - ii. The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b. Reports required by this Permit, other information requested by the Regional Water Board or State Water Board may be signed by a duly authorized representative provided:
 - i. The authorization is made in writing by a person described in paragraph (a) of this provision;

- ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company; and
 - iii. The written authorization is submitted to the Regional Water Board prior to, or together with, any reports, information, or applications signed by the authorized representative.
- c. Any person signing a document under paragraph (a) or (b) of this provision shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. Reporting Requirements

- a. Planned changes: The Permittee shall give notice to the Regional Water Board as soon as possible of any planned physical alteration or additions to the permitted facility.
- b. Anticipated noncompliance: The Permittee shall give advance notice to the Regional Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with Permit requirements.
- c. Transfers: This Permit is not transferable.
- d. Monitoring reports: monitoring results shall be reported to the Regional Water Board at the intervals specified in the self-monitoring program. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the Permittee shall discuss the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with the Permit. If the Permittee monitors any pollutant more frequently than required by this Permit, using test procedures approved under 40 CFR Part 136 or as specified in this Permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

- e. Compliance schedules: Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted such that they are received by the Regional Water Board via fax, e-mail, or postal service no later than 14 days following each schedule date.
- f. Noncompliance reporting: The Permittee shall report any noncompliance at the time monitoring reports are submitted. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance.
- g. In addition, the following events shall be reported orally as soon as possible, but no later than 24 hours from the time the Permittee becomes aware of the circumstances, and the written report shall be submitted such that an original signed written report is received by the Regional Water Board no later than 14 days after the event:
 - i. Any noncompliance that may endanger health or the environment.

The Executive Officer may waive the above-required written report.

- h. Other information: Where the Permittee becomes aware that it failed to submit any relevant facts in a Permit application, or submitted incorrect information in a Permit application or in any report to the Regional Water Board, the Permittee shall promptly submit such facts or information.

12. Availability

A copy of this Permit shall be maintained at the discharge facility and be available at all times to operating personnel.

13. Change in Discharge

In the event of a material change in the character, location, or volume of a discharge, (including any point or nonpoint discharge to land or groundwater) the Permittee shall file with this Regional Water Board a new report of waste discharge at least 180 days before making any such change. [CWC Section 13376]. A material change includes, but is not limited to, the following:

- a. Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the waste.

- b. Significant change in disposal method, e.g., change from a land disposal to a direct discharge to water, or change in the method of treatment that would significantly alter the characteristics of the waste.
- c. Significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area, potentially causing different water quality or nuisance problems.
- d. Increase in area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. [CCR Title 23, Section 2210]

14. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

15. Monitoring

The Regional Water Board or State Water Board may require the Permittee to establish and maintain records, make reports, install, use, and maintain monitoring equipment or methods (including, where appropriate, biological monitoring methods), sample effluent as prescribed, and provide other information as may be reasonably required. [CWC Section 13267 and 13383].

The Permittee shall comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. R1-2002-0037 and any modifications to these documents as specified by the Executive Officer. Such documents are attached to this Permit and incorporated herein. The Permittee shall file with the Regional Water Board technical reports on self-monitoring work performed according to the detailed specifications contained in any monitoring and reporting program as directed by the Regional Water Board.

Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. In the event that analysis for certain constituents by a certified laboratory is infeasible, analyses by a noncertified laboratory may be approved by the Executive Officer. Conditions that shall be met for Executive Officer approval include: a quality assurance/quality control program conforming to U.S. EPA or State Department of Health Services guidelines is instituted by the laboratory, and a manual containing the steps followed in this program is kept in the laboratory and made available for review by staff of the Regional Water Board. All Discharge Monitoring Reports shall be sent to:

California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

16. Pollutant Minimization Program

The Permittee shall, as required by the Executive Officer, conduct a Pollutant Minimization Program in accordance with the SIP when there is evidence that the priority pollutant is present in the effluent above an effluent limitation, when a sample result is reported as detected and not quantified and the effluent limitation is less than the reported minimum level, or when a sample result is reported as not detected and the effluent limitation is less than the method detection limit.

17. Reopener

The Regional Water Board may modify, or revoke and reissue, this Order if present or future investigations demonstrate that the Permittee governed by this Order is causing or significantly contributing to, adverse impacts on water quality and/or beneficial uses of receiving waters.

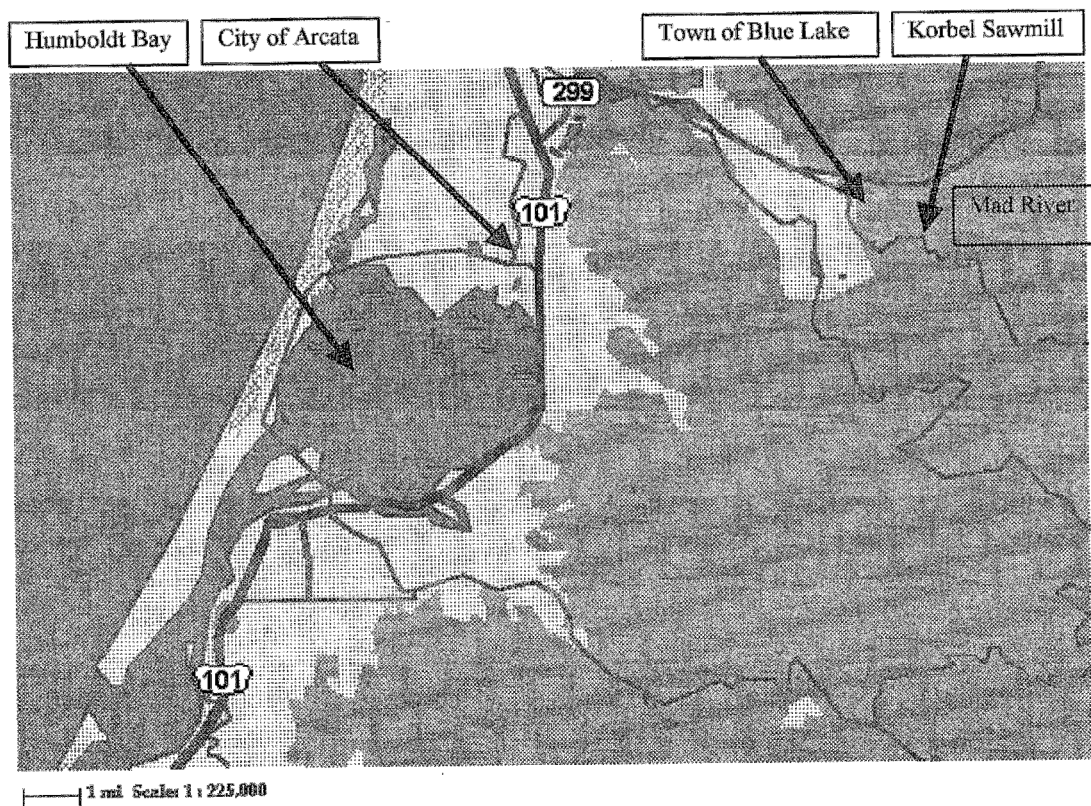
Certification

I, Matthias St. John, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on May 2, 2013.

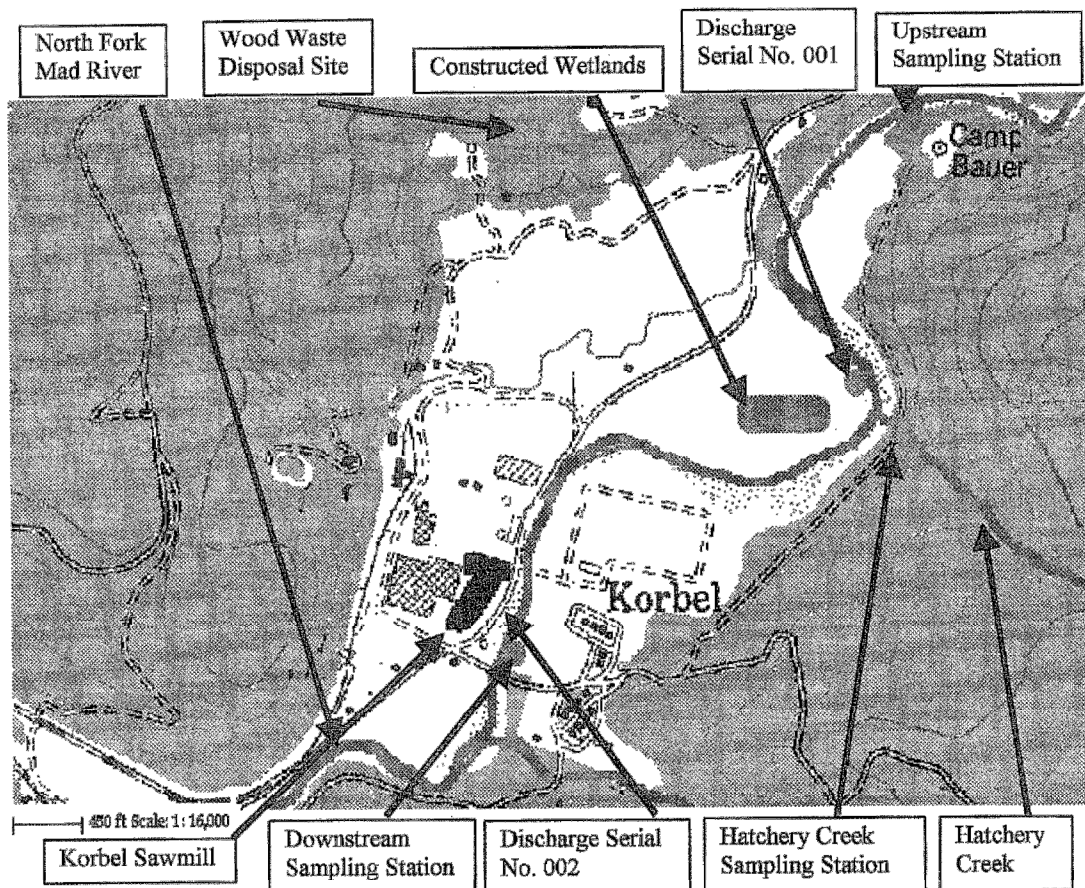
Original Signed By

Matthias St. John
Executive Officer

Attachment A:
Area Map
Korbel Sawmill



Attachment B:
Vicinity Map
Korbel Sawmill



California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2002-0037
(Amended on May 2, 2013)

FOR

CALIFORNIA REDWOOD COMPANY
WOODWASTE DISPOSAL SITE
CLASS III WASTE MANAGEMENT UNIT

WDI.D. NO. 1B751470HUM

Humboldt County

WASTE MANAGEMENT UNIT MONITORING

Groundwater Monitoring

The objectives of groundwater monitoring are leak detection and evaluation of naturally-occurring variations in groundwater quality, if any.

Monitoring Wells No. 1 and 2, as shown in Attachment B of Waste Discharge Requirements Order No. R1-2002-0037, and any additional wells that may be installed, shall be monitored as follows:

1. Static water levels shall be recorded in April and September of each year. Top of casing, depth to groundwater, and water table elevation shall be reported in tabular fashion.
2. Representative grab samples shall be collected in April and September of each year. Prior to sampling, the bore hole shall be properly purged. Purging protocol and field sampling logs including equilibrium measurements, pumping rate, and other appurtenant information shall be submitted. Samples shall be analyzed for the following constituents:

Chemical Oxygen Demand	pH
Total Dissolved Solids	Hardness

3. Every 5 years all wells shall be sampled for the Constituents of Concern (COC) listed below, in addition to the monitoring parameters listed above:

ICAP metals	Specific Conductance	Calcium
Magnesium	Potassium	Nitrate
Sodium	Bicarbonate Alkalinity	Sulfate Chloride

Leachate Monitoring

The objectives of leachate monitoring are to characterize leachate quality and evaluate its potential impacts on receiving waters.

The landfill shall be inspected for leachate seeps monthly during the period October through May. An inspection log shall be included in the monitoring report. The log will note, at a minimum, the date, time, flow, weather conditions, extent of the seep (i.e. was it contained onsite or entering surface water drainage courses), and corrective measures employed. Regional Water Board staff shall be notified verbally within 24 hours in the event of an offsite discharge. Leachate seeps shall be corrected immediately upon discovery. If leachate is observed, a representative grab sample shall be taken and analyzed for the constituents listed below:

Chemical Oxygen Demand
pH

Tannins/Lignins
Total Dissolved Solids

General Inspections

The landfill shall be inspected monthly during the period October through May for erosion, drainage problems, cover integrity, and ponding atop the landfill. Problem areas shall be identified and corrected immediately. A log of the inspections and corrective measures shall be submitted with the monitoring report.

Settlement Monitoring

The objective of settlement monitoring is to track the cumulative settlement of the low-permeability layer in order to determine when the layer requires repair.

The site shall be inspected visually each winter for signs of ponding. The site shall be surveyed for settlement every five years after closure. Results of the survey and settlement evaluation shall be included in the July monitoring report. The survey shall be presented on 24" x 36" maps with a maximum 2-foot contour. The evaluation shall include:

1. Initial closure grades and contours,
2. Current grades and contours,
3. Map showing any interim repairs to the vegetative layer and/or the low-permeability cap,
4. Tracking forms showing cumulative settlement and/or repairs to the individual cover layers, and
5. Iso-settlement contours of the vegetative layer and low-permeability layer.

WASTE MANAGEMENT UNIT REPORTING

Waste management unit monitoring reports shall be submitted by July 1 and February 1 of each year. Monitoring reports shall contain any information from monitoring performed

more frequently than required or at locations not required by this Program. Data shall be arranged in tabular form so that date, constituent, and concentration are readily discernable.

The July 1 monitoring report shall present current and historical data plotted vs. time. Data for specific constituents shall be plotted with the inter-well background value, which is calculated using a prediction interval method. In the event that groundwater monitoring data from two consecutive quarters exceeds the upper prediction limit, the permittee shall prepare a report evaluating the cause of the increase and propose corrective action measures. A tabular summary of the previous monitoring data, operational problems, violations, and corrective actions employed shall also be provided.

REPORTING SUMMARY

The following table summarizes the due dates for the required reports (note that the due date is the date the report must be *received* by the Regional Water Board):

Due date	Required submittal
First day of each month	Monthly discharge sampling results and visual observations from two months prior, (e.g. January results must be received by the Regional Water Board by March 1)
February 1	Semiannual landfill report, including: ▪ results of September groundwater monitoring, and ▪ landfill inspections from October through December
July 1	Semiannual landfill report, including: ▪ test results of April groundwater monitoring, and ▪ landfill inspections from January through May

All monitoring reports shall be transmitted in accordance with the specifications of Resolution 71-5 adopted by the Regional Water Board on February 3, 1971.

Original Signed By

Ordered by _____

Matthias St. John
Executive Officer

May 2, 2013