

98-0204

TP 98



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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

March 5, 1998

Mr. Larry Gandy, Vice President,
 Triassic Park Disposal Facility
 1109 East Broadway
 Tatum, New Mexico 88267

**RE: Request For Supplementary Information on Triassic Park Hazardous Waste Disposal Facility Permit Application
 EPA I.D. #NM0001002484**

Dear Mr. Gandy:

The New Mexico Environment Department's (NMED's) RCRA Permits Management Program Hazardous (RPMP) has reviewed your December 1997 Triassic Park Hazardous Waste Disposal Facility permit application as required under the New Mexico Hazardous Waste Management Regulations 20 NMAC 4.1 Subparts V and IX.

After reviewing the permit application, the RPMP has found the application to be administratively incomplete. Attached is a list of the additional information that Gandy Marley Inc. (GMI) must address and submit to RPMP.

The requested information must be submitted to HRMB within thirty (30) calendar days from the date you receive this letter. Please present the supplemental information in three (3) hard copies and on a 3.5" diskette compatible with Word Perfect 5.2. Failure to submit the required information or a written request for extension in this designated time may result in issuance of a Notice of Intent (NOI) to deny a Permit.

If you have any questions, please contact Jerry Bober or Cornelius Amindyas of my staff at (505) 827-1561.

Sincerely yours,

Robert S. (Stu) Dinwiddie, Ph.D., Manager
 RCRA Permits Management Program
 Hazardous and Radioactive Materials Bureau

cc: Benito Garcia, Chief, HRMB
 David Neleigh, EPA Region VI

FILE: GMI Red 98
 TRACK: GMI 3/5/98, NA, GMI, HRMB/CA, RE, File

**ATTACHMENT A
REQUEST FOR SUPPLEMENTARY INFORMATION:
TRIASSIC PARK HAZARDOUS WASTE DISPOSAL FACILITY**

March 5, 1998

The New Mexico Environment Department's (NMED) RCRA Permits Management Program (RPMP) has reviewed Gandy Marley Inc.'s (GMI's) Permit application for the proposed Triassic Park Hazardous Waste Disposal Facility (TPDF). After reviewing the subject Application using the appropriate checklists, HRMB has determined that GMI must address the following issues:

NOTE: The quotes in bold print below, are taken directly from the October 1997 Part B Permit Application text submitted by GMI.

Global Comments:

1. Include the Hazardous Waste Permit Application Part A in the table of contents since a complete RCRA application comprises both Parts A and B.
2. Volume I, Part B, page 1-1, second paragraph, and the last line at the bottom of page 1-1: **"This application has been divided into two sections with a total of six volumes."**

"Section I includes the following volumes: Volume I - Part A and Part B, Volume II - Appendix A-M. Section II is divided into four volumes ...and incompatible wastes are described in Section 4.3.2.1 of this application."

- Comments:**
- a) HRMB advises that the whole application be identified as Volumes I through VI in order to make it easier for the reviewer to distinguish between Section 2 and Volume II, and also to avoid confusing Volume II with Section II.
 - b) **Volume III: Engineering Report** is referred to in Volume I text, as Section II. Consistency with document title, as explained in comment a) above will avoid confusion during third party review.
 - c) **"Water Level Measurement - After the stratigraphically trapped water (Cross-section 3-3, Appendix G)...was encountered..."**

Please specify in what volume of the Part B Permit application Appendix G can be found. This will make it easier for the interested reader to find the subject Cross-Section.

3. i) Volume I, Section 8.1, page 8-1, second paragraph, first sentence: **"At the end of the active life of the facility, it is envisioned that all facilities and structures will be closed and dismantled."**
- ii) Volume I, Section 8, page 8-1, last paragraph, second to the last sentence: **"For the purposes of this plan it is assumed that all wastes remaining in inventory can either be disposed of directly in the landfill..."**

HRMB recommends that the revised application be written in active voice, and the Permit Applicant should state what activities GMI will conduct. Usage of the active rather than the passive voice will remove any doubts of whether or not the proposed waste management at TPDF will be done as per regulations, and assure the public that all activities at the TPDF will be done (and) not based upon concepts or assumptions as the above sentences suggest.

Specific Comments:

4. a) General Facility Description: HRMB suggests that Section 1.1.8 in Volume I, page 1-3 titled **"Facility Location"**, precede Section 1.1 (**"General Description"**). This suggested change should introduce the facility to reviewers before they read further about the purpose of the TPDF.
- b) Section 3.4.1.2, Page 3-9, last paragraph, **"As shown in Figure 3-8 (**"Seismic Activity" Map**), there were no recorded earthquakes with a magnitude greater than 3.5 within 70 miles of the proposed site..."**

Explain the location of the seismic activity about 2000 feet directly south of the proposed TPDF. Based upon the scale of the map of Figure 3-8 (i.e., 1 inch = 2000 feet), the circles representing earthquake magnitude in the legend seem to suggest that the seismicity was between the magnitudes of 4.5 and 4.9, and that the distance was much nearer than the 70 miles stated.

- c) Volume I, Section 3.6.2.3, page 3-21, **"Lower Dockum Aquifer"**, second paragraph, second sentence: **"Two holes (WW-1 and WW-2) were drilled to approximately the base of the Triassic section".**

HRMB suggests that the water Wells WW-1, and WW-2 in the above quoted paragraph be connected to Figure 3-18 where they are shown. In addition, Figure 3-18 should illustrate the location of the borehole PB-14 to assist

the reader in linking the text and the map (Figure 3-18).

- d) Volume I, Section 3.6.2.3, page 3-21, "**Lower Dockum Aquifer**", second sentence: "**It is overlain by a thick sequence (600 to 650 feet) of impermeable mudstones that act as an aquitard.**"

HRMB suggests that Figure 3-19 be cited/included in the above sentence to project to the reader the depth from the ground surface to the water table. This could allay anticipated public concerns about potential ground water contamination during waste management at the TPDF.

5. **Volume I, Drawing 1:** Although Drawing # 1 of Part A in Volume I has topographic maps of the TPDF on the required scale of 1:200, the units comprising the facility are not shown. Submittal of Drawing 4 (**Facility Layout**) from Volume III, enlarged to the scale of 1 inch equal to 200 feet should satisfy the requirement specified by 20 NMAC 4.1.900 incorporating 40 CFR §270.14(b)(19).
6. Provide information on the endangered and threatened species at the TPDF. Describe how GMI plans to conduct hazardous waste treatment, storage, and disposal activities in a manner that will not jeopardize the continued existence of such species as the sand dune sagebrush lizard, the bobcat, the owls, and the antelopes that were seen by HRMB personnel at the Mescalero cliffs during the 1995 RCRA Facility Assessment study of the site.
7. Volume I, Section 2.3, page 2-9, paragraph 4, the last sentence: "**Waste will be transferred from the tanks to the stabilization unit either by pumping into transfer tankers or by direct piping.**"
 - a) Explain what measures will be taken during waste transfer from tanks to the stabilization units and to the surface impoundment, to protect the health of the workers, and spillage of the waste to the environment.
 - b) **Volume II, Appendix L:** Provide a map showing evacuation routes for personnel (at the TPDF) in case of emergency.
8. Describe procedures for the maintenance of all hazardous waste sampling equipment during final closure of the Facility. Stipulate the precision and accuracy of the sampling equipment.

9. Provide a laboratory quality assurance/quality control (QA/QC) program for hazardous waste and soil samples at closure, and identify the QA/QC procedures for each analytical method.

10. Volume I, Section 8.1, page 8-1: **"Closure Activities":**

Prior to the commencement of closure activities, GMI is required to notify the Secretary of NMED at least 60 days prior to the date GMI expects to begin closure of the TPDF. GMI is also required to notify the Secretary 45 days before the closure of the surface impoundment, container storage units, and storage tanks. Incorporate this information into the application to comply with the standards specified by 20 NMAC 4.1.500 incorporating 40 CFR §264.112(d).

11. Volume I, Section 8, page 8-1, last paragraph, second to the last sentence: **"For the purposes of this plan it is assumed that all wastes remaining in inventory can either be disposed of directly in the landfill, treated at the on-site treatment facility prior to disposal in the landfill, or returned to the generator if either of the previous two options are not available."**

Provide a detailed description of the methods for transporting any remaining waste to the generator during final closure of the TPDF.

12. Provide detailed information that addresses the following requirements specified by 20 NMAC 4.1.500 incorporating 40 CFR §264.112(b)(4):

- a) methods for sampling soil at closure, and the approximate number of samples to be taken from each unit of the TPDF; methods for testing the soil samples taken; and
- b) what measures GMI will take to remove contaminated soil when laboratory sample results indicate contamination. Explain how the contaminated soil will be disposed of, and the final destination of the soil.

13. Volume I, Section 8.1.2.4, page 8-5, last paragraph, last sentence: **"Sample results will be compared against the closure performance standard presented in Section 3.8."**

Explain what measures GMI will take when the concentration of hazardous constituents in soils taken from the evaporation pond, tank storage area, container storage unit, and stabilization area exceed the standards of Section 8.3 [i.e., three standard deviations or 3σ]. Include a

discussion of what measures GMI will take to control a release that is statistically significant causing an increase in pH or results over background values for applicable waste specific constituents.

14. Volume I, Section 3.7.1., Page 3-31, second paragraph, last sentence:

"The most effective monitoring program will involve vadose zone monitoring."

- a) Provide a list of the indicator parameters, waste constituents, reaction products to be monitored, and the background ground water concentration values for the proposed parameters;
 - b) Provide the proposed sampling and analysis procedures for the vadose zone, and the statistically significant increase in any constituent or parameter identified at any compliance point monitoring well.
 - c) Provide the proposed well locations for long term monitoring of the landfill during the post-closure period.
15. Volume I, Section 5.4.2.2, page 5-9: Although this section is titled "**Landfill and Surface Impoundment**", the latter is not even mentioned in the paragraph, please address this issue.
16. **Volume II, Appendix A-M:** Provide a stand alone Table of Contents for Volume II Appendices, to guide the interested reader, as to what information each drawing, map or Cross-Sections contain.
17. Volume I, Section 8.4, "Closure Schedule", last paragraph, last sentence, "**The facility requests closure schedules for 450 days and 360 days for the evaporation pond and landfill, respectively.**"

Since the Triassic Park Waste Disposal Facility has not yet been constructed, the Permittee may request an extension for closure deadline during closure period, when the Secretary has determined that GMI complied with all applicable regulatory requirements for requesting a modification, and GMI has demonstrated that final closure activities will, of necessity, take longer than 180 days to complete, as specified in 20 NMAC 4.1.500 incorporating 40 CFR §264.113.

18. Volume I, Section 8.2.8, page 8-11, "**Amendment of Plan**":

This section should contain information that the request to amend the Closure Plan will include:

Amended waste Analysis Plan;
Ground Water Monitoring Plan;
Amended Closure Plan;
Amended Post-Closure plan;
Updated Closure Cost Estimates;
Updated Post-Closure Care Plan;
Updated Financial Assurance Plan for Closure;
Updated Financial Assurance Plan for Post-Closure; and
Contingent Corrective Measures.

19. Volume 1, Section 11.2.5, first bullet: **"Records that will be kept in the facility operating record include:**

■ **the equipment list discussed in Section 12.2.1."**

Please correct this to read: Section ~~11~~.2.1.

20. Provide information that addresses compliance with all test methods and procedures specified by 20 NMAC 4.1.500 incorporating 40 CFR §264.1063. Include the following:

- a) Leak detection procedures;
- b) No detectable emissions leak detection procedures;
- c) Test methods for organic concentrations of wastes;
- d) Resolution of disputes;
- e) Sampling method;
- f) Test methods to determine waste state; and
- g) Performance test for control device efficiencies.

21. Volume I, Section 11.2.5: **"The facility will provide a semi-annual report to the Environmental protection Agency and the New Mexico Environment Department....."**

Provide a description of the contents of the above named semi-annual report, which complies with the reporting requirements specified by 20 NMAC 4.1.500 incorporating 40 CFR §264.1065.

Note: The Permittee should submit the semi-annual Report only to NMED, the Permitting Authority, not to the EPA.

22. Volume I, Section 11.3.1, second to the last sentence on page 11-3 under "Waste Determination": "...however, the facility may choose to test a representative sample of the waste in certain situations."

Provide a detailed description or a definition of the "certain situations" referred to in the above sentence of item number 22.

23. Volume I, Sections 11.3.4 (Applicability to Tanks) and 11.3.5 (Applicability to the Stabilization Process), page 11-4, last paragraph of each section: "Final design documentation will be included as part of the operating record for the facility."

Provide the final design documentation that is referred to above in item number 23.