CLARK COUNTY HEALTH DISTRICT
REGULATIONS GOVERNING
SOLID WASTE SITES & FACILITIES

September 1990

This is to certify that these Regulations are the Health District's current Regulations for Solid Waste Disposal.

Clare A. Schmutz

Clark County Health District
625 Shadow Lane
Las Vegas, Nevada 89106
(702) 385-1291
INTRODUCTION

The purpose of these Regulations is to enhance and improve the environment and thus promote the health, safety, and welfare of the people of Clark County, Nevada, by establishing minimum standards for the storage, collection, transportation, processing, and disposal of solid wastes.

The principal solid waste utilization, conversion, and processing operations are those associated with storage, collection, transportation, and land disposal. No attempt has been made to prepare standards or regulations for special systems or methods of solid waste management except that all must meet the approval of the solid waste management authority.
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DISTRICT BOARD OF HEALTH OF CLARK COUNTY

REGULATIONS GOVERNING
MUNICIPAL SOLID WASTE DISPOSAL SITES AND FACILITIES

SECTION 1. AUTHORITY

Nevada Revised Statutes 439.350 and 439.410 provide:

NRS 439.350—Duties of County Board of Health. The County Board of Health shall:

1. Oversee all sanitary conditions of the County in which the board is created.

2. Make such rules and regulations as may be necessary for the prevention, suppression and control of any contagious or infectious disease dangerous to the public health, which rules and regulations shall take effect from and after their approval by the State Board of Health.

NRS 439.410—Powers and jurisdiction of District Board of Health, District Health Department.

1. The District Board of Health shall have the powers, duties, and authority of a County Board of Health in the Health District.

2. The District Health Department shall have jurisdiction over all public health matters in the Health District.

NRS 444.210—Unlawful garbage and refuse disposal; penalty, supplements the above Statutes.

SECTION 2. SCOPE

These Regulations shall apply to all solid waste disposal systems in the Clark County Health District jurisdiction.
SECTION 3. PURPOSE AND INTENT

The purpose and intent of these Regulations is to regulate the treatment, utilization, processing and final disposal of solid waste by any person or municipality, and the registration and issuance of permits for solid waste disposal sites and facilities for the protection of the environment.

SECTION 4. DEFINITIONS

The following definitions shall apply to these Regulations:

1. District - The term "District" shall mean the District Board of Health of Clark County.

2. Person - A person is an individual, group of individuals, partnership, franchiser, firm, corporation, association, state, county, city, township, general improvement district, or other political subdivision.

3. Municipality - The municipality is the local or regional governing body having legal jurisdiction over solid waste management in the area being considered.

4. Solid Waste - Solid waste is garbage, refuse, and all other discarded or salvageable material, including waste material resulting from industrial, commercial and agricultural operations, and from domestic use and public service activities, but does not include solid or dissolved material in waste water effluents or other common water pollutants.

5. Garbage - Garbage is discarded material resulting from the handling, processing, storage, preparation, serving and consumption of food.

6. Refuse - Refuse is combustible and noncombustible discarded material including, but not limited to, trash, rubbish, paper, wood, metal, glass, plastic, rubber, cloth, ashes, litter and street rubbish, sewage treatment residue, industrial wastes, dead animals, mine tailings, gravel pit and quarry spoils, toxic and hazardous wastes, and materials and
debris resulting from construction or demolition.

7. Salvageable Material - Salvageable material is discarded material no longer of value as intended, but which is stored or retained for salvage, sale or future reuse.

8. Solid Waste Disposal Operation - A solid waste disposal operation is the site, facility, operating practices, and maintenance thereof, for the utilization, processing, or final disposal of solid waste including, but not limited to, land disposal, incineration, composting, reduction, shredding, compression, and salvage.

9. Sanitary Landfill - Sanitary landfill is a method of disposing of solid waste on land without creating nuisances or hazards to public health or safety by utilizing the principles of engineering to confine the solid waste to the smallest practical area, to reduce it to the smallest practical volume, and to cover it with a layer of earth at the conclusion of each day's operation or at such more frequent intervals as may be necessary.

10. Salvage Yards - Salvage yards are sites used for the storage or sale of salvageable materials or for purposes of salvage, wrecking, dismantling, or demolition of salvageable materials.

11. Incineration - Incineration is the process of burning wastes for the purpose of volume and weight reduction in facilities designed for such use.

12. Composting - Composting means the controlled biological decomposition of solid waste in a manner resulting in an innocuous final product.
SECTION 5. REGISTRATION AND PERMITS

1. Registration

All solid waste disposal sites or facilities in Clark County shall be registered by September 1, 1970, with the District Health Department on forms to be provided by the District.

2. Permits

No person shall construct, establish, maintain, conduct or operate a solid waste disposal operation without first obtaining an annual permit from the District. The permit will terminate June 30 of each year.

a) Any person desiring a permit for an existing solid waste disposal operation shall annually, before June 1, make application to the District on forms provided by the District. Any person desiring a permit for a new solid waste disposal operation shall make application at least 30 days prior to the desired effective date. A separate application shall be submitted for each solid waste disposal operation.

b) The permit fee for each nonmunicipal solid waste disposal operation shall be $50.00. Permit fee charges for municipal operations will apply in accordance with the following schedule:

<table>
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<th>Population of Municipalities Served</th>
<th>Fee for First Operation</th>
<th>Fee per Additional Operation</th>
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<tr>
<td>0-1000</td>
<td>$25.00</td>
<td>$10.00</td>
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<tr>
<td>1001-2500</td>
<td>$25.00</td>
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<tr>
<td>more than 2500</td>
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c) Where applicable, applications for solid waste disposal operation permits shall be accompanied by a copy of a permit from the municipality and/or the owner having jurisdiction over the area where located and operated.
d) Each application shall be accompanied by a plan of operation indicating procedures which will be undertaken to fulfill requirements of this Regulation.

e) Upon receipt of the completed application, the District shall review the same to assure that all provisions of this Regulation are met and that such operation will comply with other state and local laws, ordinances, rules and regulations. The District shall notify the applicant when he has met the requirements of these Regulations and upon payment of the required fee, as required by subsection b, shall issue the permit. All exemptions, if any, shall be listed on the permit.

SECTION 6. REVOCATION OF PERMIT

The District may revoke any permit if it finds that the permit holder or his agents are not operating in conformance with these Regulations and after first notifying said permit holder in writing of the violations and affording said permit holder a reasonable time to do such things as are necessary to comply with these Regulations.

SECTION 7. DISPOSAL METHODS

1. Sanitary Landfill

Sanitary landfill operation shall be in accordance with Section 9.

2. Incineration

A permit shall be obtained from the Clark County Air Pollution Control Division prior to the construction of an incinerator.

   a) Incinerator operation shall be in accordance with the Rules and Regulations Governing the Control of Air Pollution.

   b) The site and method of residue disposal shall have prior approval of the District.
3. Composting

Composting of refuse shall be done only with prior approval of the District and in accordance with requirements prescribed in Section 11.

4. Open Dumping

Open dumping is prohibited. (See Section 15, Exemptions.)

5. Open Burning

Open burning is prohibited.

6. Garbage Grinders

Municipal or industrial garbage grinding and disposal shall be done only with the prior approval of the District and in accordance with requirements prescribed in the approval document.

SECTION 8. GENERAL SITE REQUIREMENTS

1. Location

All solid waste disposal site locations shall conform to applicable State laws and county or municipal zoning laws and ordinances.

2. Flooding

Sites subject to flooding should be avoided if possible. Sites located in areas which may be subject to flooding shall be protected by impervious dikes. Pumping facilities shall be provided for removal of seepage and surface waters.

3. Access

Access roads to the disposal site shall be of all-weather construction and open to motor vehicles at all times.
SECTION 9. SANITARY LANDFILL

1. Planning

Each application for approval of a landfill site shall be accompanied by a written proposal on the development operation and completion of the proposed sanitary landfill, together with a topographic map or maps which shall have scale and contour intervals (3 to 5 feet) that clearly show the character of the land. The map(s) shall be commensurate with the scope of the operation, location, and physical problems involved. Depending upon evaluation of these factors, the map(s) and accompanying data shall indicate any or all of the following items: Original and final surface contours; the proposed fill area, any borrow area, access roads; on-site roads; cross section of the fill area showing proposed cells, diversion ditches and special drainage devices if necessary; portable fencing; structures on the site; existing and proposed utilities; all water supplies, ground or surface, 1,000 feet beyond the boundary of the site; and all other pertinent information to indicate clearly the geological, ground water and characteristics of this site, water table, report of test borings (minimum of one per acre placed at the direction of a geologist or engineer to a depth of at least fifteen feet, description of the equipment to be used, types of solid waste to be disposed, proposed fire fighting measures, orderly development, operation and completion of the sanitary landfill. A sanitary survey and a land use plan of the adjacent areas may be required.

2. Site Approval

Sanitary landfill sites shall conform with the general requirements contained in Section 8. In addition, the following requirements shall be met:

a) The sub-soil structure shall be such that there is reasonable assurance that leachate from the landfill will not contaminate the ground waters or streams in the area, or suitable procedures to
prevent such contamination will be followed.

b) The surface contour of the area shall be such that surface runoff will not flow into or through the operational or completed fill area. Grading, diking, terracing, diversion ditches, or tiling may be approved when practical.

c) Areas having high ground water tables may be restricted to landfill operations which will maintain a safe vertical distance between deposited refuse and the maximum water table elevation. Any operation which proposes to deposit refuse within or near the maximum water table elevation shall include corrective or preventive measures which will prevent contamination of the ground water stratum. Monitoring facilities may be required.

3. The following physical improvements shall be made before a landfill site is placed in operation:

a) The site shall be adequately fenced, with an entrance gate that can be locked, and posted. Opening and closing hours and days of operation shall be clearly shown.

b) All-weather operational road(s) shall be provided for vehicular movement within the site. Separate operational areas may be operated within the site to allow for wet or dry weather operation and access. When necessary, to prevent dust nuisance, operational roads within the site shall be surfaced or treated.

c) A shelter, convenient for use by operating personnel, shall be screened and provided with heating and cooling facilities and adequate lighting. Provisions shall also be made for safe drinking water and sanitary hand-washing and toilet facilities.
4. Fire Protection

Arrangements shall be made to take suitable measures to control fires by providing:

a) An adequate supply of water under pressure is available at the site, or

b) A stockpile of earth is maintained reasonably close to the working face, or

c) A nearby organized fire department will provide immediate service whenever called.

Suitable fire extinguishers, maintained in working order, shall be kept on the equipment in all buildings.

SECTION 10. SANITARY LANDFILL OPERATION

1. General

All operation of the sanitary landfill shall be in accordance with the approved plan.

2. Site Access

Access to the site shall be permitted only during the hours when operating personnel are on the site.

3. Dumping Area

Dumping of refuse on the site shall be confined to the smallest practical area that can be covered after one day's operation.

4. Unloading

Unloading shall be supervised. Portable fences shall be used when necessary to prevent blowing litter from the unloading site. The fill and surrounding area shall be policed as necessary to collect all scattered material.

5. Equipment

Sufficient equipment in operational condition shall be available at the site at all times
to permit operation of the landfill according to the approved plan.

6. Spreading and Compacting of Refuse

As rapidly as refuse is admitted to the site, it shall be spread and compacted in shallow layers of approximately two or three feet in depth depending upon the type of material and the compaction equipment. The completed cell shall consist of the refuse admitted and compacted during the working day regardless of overall height and area covered.

7. Cover

Cover material shall consist of soil of such character that it can be compacted to provide a tight seal, does not crack excessively when dry and is relatively free of putrescible materials and large objects. Cover shall be applied as follows:

a) Daily cover. A layer of at least six (6) inches of material shall be used to cover all exposed refuse at the end of each working day; except that on surfaces that will not receive an additional depth of refuse or the final cover within 60 days, a layer of cover of at least one (1) foot shall be applied.

b) Final cover. A layer of at least two (2) feet of material in addition to the daily cover shall be placed over the entire surface of all completed portions of the fill within one (1) week following the final placement of refuse. Final cover shall be graded as provided on the approved plan to prevent ponding. The surface of the final cover shall be maintained at the plan elevation at all times by the placement of additional cover material where necessary.

8. Fire Protection

Measures shall be taken in accordance with Section 9.4.
9. Deposition of Liquids and Hazardous Materials

Sewage solids or liquids, septic tank pumpings, liquids, or hazardous substances shall not be discharged to a sanitary landfill until written approval has been obtained from the District. Special provisions may vary from site to site depending upon local conditions and will be specified in the approval letter.

10. Vector Control

Insect and rodent control measures shall be employed as directed by the District.

11. Salvage Operations

Salvage operations are not recommended in conjunction with a sanitary landfill. In the event that salvage operations are carried out, the following conditions shall apply:

a) All salvage operations shall be conducted in a sanitary manner.

b) Salvage operations shall be confined to an area remote from the operating face of the fill.

c) Salvage operations shall not interfere with, or otherwise delay the fill operation.

d) All salvaged materials shall be removed from the landfill site daily or properly stored such that they will not create a nuisance, rat harborage, or unsightly appearance.

12. Sanitary Landfill Variation

Large quantities of noncombustible and nonpustrescible waste such as boiler-house cinders, broken paving, or materials resulting from construction or demolition operations may be disposed of at a sanitary landfill by open dumping. Such material shall be leveled and spread at sufficient intervals to prevent unsightly appearance or rodent harborage, and shall be finally covered as required for a completed sanitary landfill in Section 10,
Item 7, unless approved plan provides for other cover.

13. Prohibited Activities

The following activities shall be prohibited in conjunction with or upon the site of the sanitary landfill:

a) All scavenging operations. Scavenging shall mean the manual sorting of refuse, either in the trucks, at the face of the fill, or in unconfined truck discharge areas.

b) All feeding of farm or domestic animals.

c) Deposition of refuse in standing water.

d) Burning, except in an approved incinerator under Section 7, Item 2.

SECTION 11. COMPOSTING

1. It is unlawful for any person to install or alter any composting operation without first having received approval from the District.

2. Before consideration may be made for approval, the following details shall be submitted to the District for review by a registered engineer of Nevada:

a) A minimum of three sets of plans and specifications, clearly indicating the layout and construction which will be undertaken.

b) A minimum of three sets of maps or aerial photographs indicating land use and zoning within one-fourth mile of the facility. The map or aerial photograph shall be of adequate scale to show all homes, industrial buildings, wells, watercourses, dry runs, rock outcroppings, roads and other applicable details, and shall indicate the general topography.
c) Details relating to geological formations of the property whereon the proposed installation is to be located. Such details shall be determined by soil borings or other appropriate means.

d) An engineering report outlining the proposed method of operation, the quantity and source of material to be processed, the proposed use and distribution of the processed material and related details.

e) A copy of a written statement from the municipality having jurisdiction over the property whereon the proposed installation is to be established, indicating that the municipality has approved the project, shall accompany the above details.

f) Additional data as may be required by the District.

3. The operation shall be conducted in such a manner as to eliminate public health hazards and nuisances.

4. Materials resulting from composting or similar processes and offered for sale shall contain no pathogenic organisms, shall not reheat upon standing, shall be innocuous, and shall contain no sharp particles which would cause injury to persons handling the compost.

5. By-products removed during processing shall be handled in a sanitary and nuisance free manner and shall be disposed of as provided in this Regulation.

SECTION 12. SALVAGE YARDS

1. Any person who maintains or operates a salvage yard or permits the use of property for such operation shall conform to the following practices unless otherwise stipulated at the time of obtaining the necessary permit:

a) No salvage yard shall be operated at a solid waste landfill operation.
b) No garbage or similar putrescible material shall be present at a salvage yard.

c) Open burning of solid waste at such yards is prohibited.

d) The yard shall be enclosed by a fence. A gate shall be provided at the site entrance, to be kept locked when an attendant is not on duty at the site.

e) The operation shall be conducted in an orderly manner. Effective means shall be taken to control rodents or other vermin. Any wind-blown material resulting from operation of the yard shall be collected daily and the area properly maintained in an aesthetic manner.

2. A new salvage yard shall not be established nor shall an existing yard be expanded until the location and method of proposed operation have been approved in writing by the District. As a minimum, three sets of the following information shall be submitted to the District to enable consideration for approval:

a) A copy of a written statement from the municipality having jurisdiction over the property whereon the site is to be located, indicating that the proposed operation is expected to fulfill all local requirements.

b) A map or aerial photograph of the area showing land use and zoning within one-fourth mile of the property whereon the salvage yard is to be located. The map shall be of sufficient scale to show all homes, industrial buildings, roads and other applicable details, and shall indicate the general topography.

c) A plot plan of the site showing dimensions, elevations, and proposed layout of operation. The scale should be approximately 200 feet per inch.
d) A report indicating the following:

1) The type, expected quantity, and source of material to be brought to the yard.

2) The type and amount of equipment to be provided at the yard for processing purposes.

3) Operational procedures in conformance with this Regulation.

4) The outlet for the salvaged material and the means of disposal for nonsalvageable items.

5) Persons responsible for actual operation and maintenance of the yard.

SECTION 13. OTHER METHODS OF SOLID WASTE HANDLING, PROCESSING, AND DISPOSAL

Before any method of solid waste handling, processing and disposal, including transfer stations, not otherwise provided for in this Regulation, is practiced or placed into operation, complete plans, specifications, and design data shall be submitted to and be approved by the District. All such information shall be prepared and submitted by a registered engineer of Nevada.

SECTION 14. NONCONFORMING SITES AND FACILITIES

Modification of existing sites and facilities and of operating procedures to conform to the requirements of this Regulation shall be accomplished as promptly as possible. When the degree of necessary improvement is of such extent that immediate compliance cannot be accomplished, special consideration may be made by the District. In such event, the owner of the nonconforming site or facility shall, not later than January 1, 1971, submit to this District a report setting forth a program and plan for compliance with this Regulation along with a time schedule for submission of formal plans and specifications and commencement for construction of necessary improvements. After submission and consideration of this report, the
District shall require completion of necessary improvements in accordance with the schedule as submitted or as modified by the District.

SECTION 15. EXEMPTIONS

1. The District may grant exemptions for any reason. Considering the granting of exemptions, the District shall take into account such factors as population of the area being served, average daily loadings, location of disposal site, nature of wastes, seasonal character of the disposal operation, and other significant factors. Permits based on such alternate plan of operation shall be reviewed bi-annually with particular regard to any potential nuisance or hazard to public health or safety.

2. The following minimum requirements are established where applicable:

    a) Open dumps may be operated under the following circumstances:

        1) When the disposal operation serves a population of less than 1,000 and when large quantities of industrial wastes or hazardous wastes are not involved.

        2) When there is adequate separation between the disposal operation and the nearest residence or place of public gathering. This will normally require separation of one-half mile or more.

        3) When the disposal area is compacted and covered with earth at least twice per year—spring and fall—and, if unsanitary conditions develop, more frequently.

        4) When animal carcasses and large quantities of spoiled foods are promptly buried.

        5) When measures are taken to protect the surrounding area from the
spread of accidental fires from the disposal site.

6) When the site is fenced with an entrance gate that can be locked and posted and with adequate permanent or portable fencing to control haphazard dumping and blowing litter.

7) When a separate unloading area is utilized for the disposal of bulky and large items.

8) When the disposal operation is beyond the limits of Las Vegas Valley and when burning is conducted only under supervision and with the approval of the local fire control agency, provided such burning will not conflict with any local or state Air Pollution Control requirements. Burning of garbage is prohibited without exception.

b) Modified sanitary landfills may be operated under the following circumstances:

1) When the disposal operation serves the population equivalent of 2,500 or less.

2) When the disposal operation is located at least one-fourth mile from the nearest residence or place of public gathering.

3) When animal carcasses and large quantities of spoiled foods are promptly buried.

4) When the fill area is compacted and covered with 6 inches of earth on a regular schedule, which shall be no less than once per month when the ground is unfrozen.

5) When precautions are taken to protect the surrounding area from accidental fires occurring at the disposal sites.
6) When an adequate insect and rodent control program is followed.

7) When the site is maintained in an orderly and sanitary manner, with appropriate measures to prevent the spread of wind-blown debris.

8) When a separate unloading area is utilized for the disposal of bulky and large items.

9) When the disposal operation is beyond the limits of Las Vegas Valley and when burning is conducted only under supervision and with the approval of the local fire control agency, provided such burning will not conflict with any local or state Air Pollution Control requirements. Burning of garbage is prohibited without exception.

10) When the site is fenced with an entrance gate that can be locked and posted and with adequate permanent or portable fencing to control haphazard dumping and blowing litter.

SECTION 16. APPEALS

All action taken pursuant to these Regulations may be reviewed by the District Board of Health upon the filing of a petition by any person who may be affected.

SECTION 17. LIMITATIONS

Nothing in these standards shall be construed to limit the provisions of any municipal ordinance, regulation, or resolution, which are more restrictive.

SECTION 18. SEVERABILITY

Should any section, paragraph, phrase, sentence, or clause of this Regulation be declared invalid
or unconstitutional for any reason, the remainder of this Regulation shall not be affected thereby.

SECTION 19. INSPECTION AND ENFORCEMENT

Any duly authorized officer, employee, or representative of the District may enter and inspect any property, premise, or place at any reasonable time for the purpose of determining compliance with this Regulation.

SECTION 20. PENALTIES

Any person who violates any of the foregoing Regulations shall be guilty of a misdemeanor.

SECTION 21. ADMINISTRATION

All final administrative decisions of the District, including the review of variances, shall be subject to the review of the District Board of Health.

SECTION 22. EFFECTIVE DATE

These Regulations shall take effect from and after approval by the State Board of Health of the State of Nevada.