

15.0 Salt Lake City, Utah, Disposal Site

15.1 Compliance Summary

The Salt Lake City Disposal Site, inspected on June 23, 2003, was in good condition. Because of continuing activities on the adjacent Envirocare of Utah, Inc., (Envirocare) property, access to the disposal site is impeded. Due to restricted areas around the site, inspectors must be escorted by Envirocare personnel to gain access to the site. At the request of the inspectors, Envirocare repaired a section of damaged fence along the south boundary of the site. Ground water monitoring is not required at this site. There was no requirement for a follow-up or contingency inspection.

15.2 Compliance Requirements

Requirements for the long-term surveillance and maintenance of the Salt Lake City, Utah, Uranium Mill Tailings Radiation Control Act (UMTRCA) Title I disposal site are specified in the *Long-Term Surveillance Plan for the South Clive Disposal Site, Clive, Utah* (DOE/AL/62350-228, Rev. 2, U.S. Department of Energy [DOE], Albuquerque Operations Office, September 1997) and in procedures established by the DOE office at Grand Junction to comply with requirements of Title 10 *Code of Federal Regulations* Part 40.27 (10 CFR 40.27). These requirements are listed in Table 15-1.

Table 15-1. License Requirements for the Salt Lake City, Utah, Disposal Site

| Requirement | Long-Term Surveillance Plan | This Report |
|--------------------------------------|-----------------------------|----------------|
| Annual Inspection and Report | Section 3.0 | Section 15.3.1 |
| Follow-up or Contingency Inspections | Section 3.4 | Section 15.3.2 |
| Routine Maintenance and Repairs | Section 5.0 | Section 15.3.3 |
| Ground Water Monitoring | Section 4.0 | Section 15.3.4 |
| Corrective Action | Section 6.0 | Section 15.3.5 |

15.3 Compliance Review

15.3.1 Annual Inspection and Report

The site, located 85 miles west of Salt Lake City, Utah, was inspected on June 23, 2003. Results of the inspection are described below. Features and the photograph locations (PL) mentioned in this report are shown on Figure 15-1. Numbers in the left margin of this report refer to items summarized in the Executive Summary table.

15.3.1.1 Specific Site Surveillance Features

Access Road, Fences, Gates, and Signs—Access to the Salt Lake City site is attained by following paved and graded roads to the Envirocare facility. All traffic entering the Envirocare facility is stopped at a security gate approximately 0.25 mile west of the DOE disposal site. Inspectors pass through this gate and must then sign in with Envirocare's security guard in a building near the northwest corner of the disposal cell.

15A DOE has a perpetual easement across Envirocare property, but no longer has direct access to the northwest entrance of the site because Envirocare's haul road around DOE property is designated as a Restricted Area. After signing a Radiological Work Permit and acquiring an Envirocare escort, inspectors now access the site along a new route to the southwest corner of the property.

15B DOE's chain link security fence, set inside the property boundary by distances of 13 to 114 feet, was in good condition. Envirocare has a chain link fence on or just outside the site property boundary, and an additional fence on the other side of their haul road along the north and west sides of the site. A section of Envirocare fence along the south boundary was damaged and, at the request of the inspectors, subsequently was repaired by Envirocare (PL-1 and PL-2).

Envirocare installed new entrance gates through their fence and DOE's fence at the southwest corner of the site. The DOE gate was locked and in excellent condition. The former entrance gate at the northwest corner of the site was locked and in good condition.

The entrance sign, located on the new entrance gate, was in excellent condition. All perimeter signs were present and in good condition except for sign P5 which is illegible. Perimeter sign P5 will be replaced in 2004.

Site Markers and Monuments—Both granite site markers were in excellent condition. All four boundary monuments were in good condition. Boundary monuments BM-3 and BM-4, noted during the 2002 inspection as buried by several feet of fill by Envirocare's site activities, had subsequently been uncovered by Envirocare (PL-3).

Monitor Wells—Ground water monitor wells are present within the site security fence, between the site security fence and the Envirocare property boundary fence, and on adjacent Envirocare property. All monitor wells on DOE property belong to Envirocare.

In late 2000, Envirocare informed DOE that all monitor wells on the DOE property were to be abandoned. However, none of the wells had been abandoned but were properly secured at the time of the inspection.

15.3.1.2 Transects

To ensure a thorough and efficient inspection, the site was divided into three areas referred to as transects: (1) the top and side slopes of the disposal cell; (2) the area between the disposal cell and the site boundary; and (3) the outlying area.

Top and Side Slopes of the Disposal Cell—The top and side slopes of the disposal cell are armored with riprap and were in excellent condition. Inspectors found no evidence of settling, slumping, or instability on the side slopes. Sparse vegetation was present on the side slopes but currently does not pose a problem.

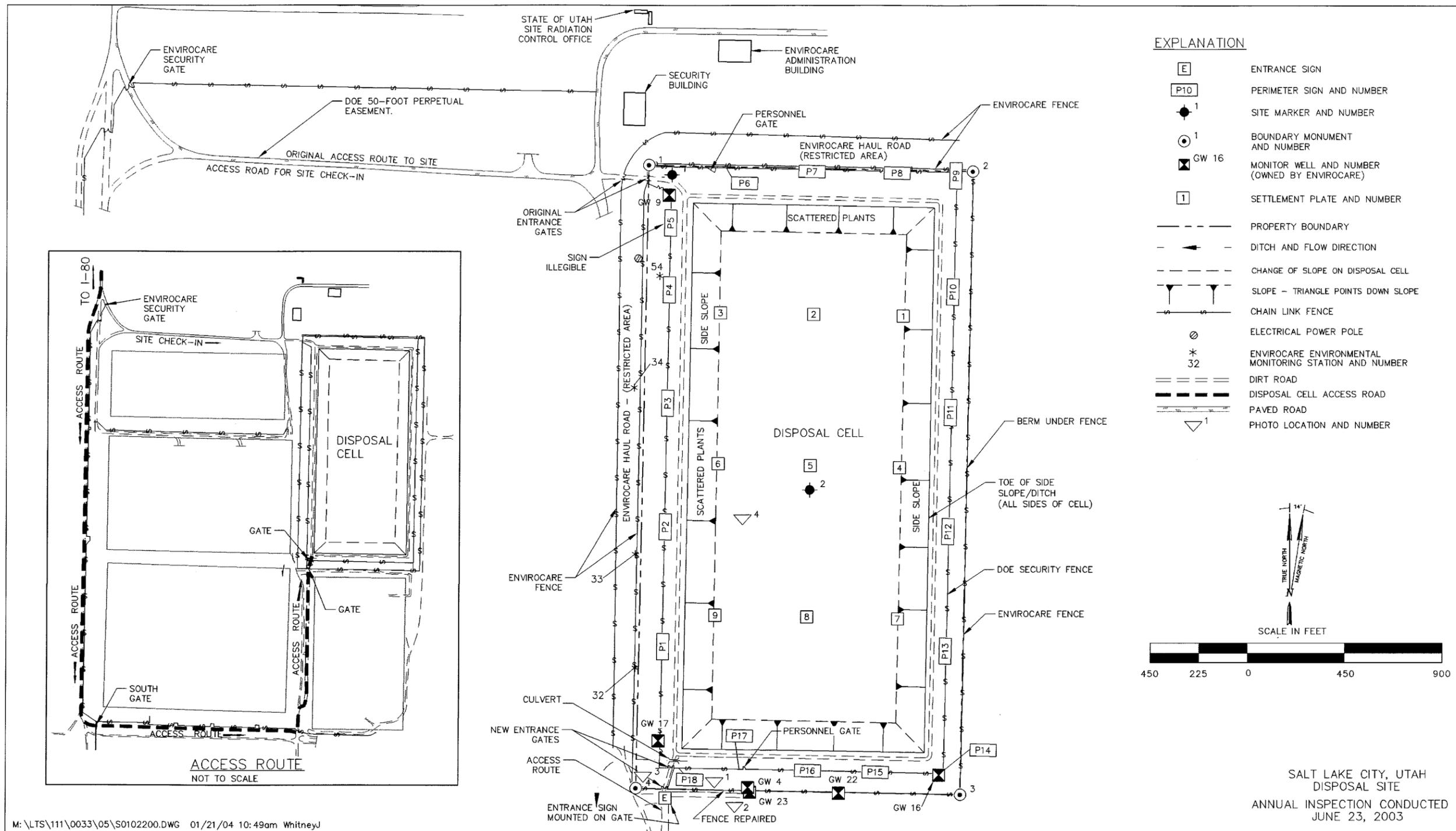


Figure 15-1. 2003 Annual Compliance Drawing for the Salt Lake (South Clive), Utah, Disposal Site

Area Between the Disposal Cell and the Site Boundary—No evidence of slumping, settling, erosion, or significant vegetation encroachment was seen in the area between the toe of the disposal cell and the site boundary.

Outlying Area—This transect extends from the Envirocare fence to 0.25 mile beyond the site boundary. Outside the site boundary are a variety of features and activities managed by Envirocare. On the east side of the site, incoming wastes are unloaded from rail cars and transferred to haul trucks. Disposal cells are in the process of being built or closed on the south and west sides of the site (PL-4). Directly to the south is a low-level radioactive waste disposal cell, and to the southwest is a waste disposal cell containing 11e.(2) material regulated under the Atomic Energy Act of 1954. With the exception of a corridor at the southwest corner of DOE’s disposal site where the site access has been relocated, all areas surrounding DOE’s property are restricted due to radiological hazards.

15.3.2 Follow-Up or Contingency Inspections

No follow-up or contingency inspections were required in 2003.

15.3.3 Routine Maintenance and Repairs

No maintenance was required in 2003. Envirocare repaired a section of their fence along the south property boundary.

15.3.4 Ground Water Monitoring

The ground water under the site was determined to be of limited use because of excessive total dissolved solids concentrations in the uppermost aquifer. Consequently, the Long-Term Surveillance Plan does not require ground water monitoring.

15.3.5 Corrective Action

Corrective action is action taken to correct out-of-compliance or hazardous conditions that create a potential health and safety problem or that may affect the integrity of the disposal cell or compliance with 40 CFR 192.

No corrective action was required in 2003.

15.3.6 Photographs

Table 15–2. Photographs Taken at the Salt Lake City, Utah, Disposal Site

| Photograph Location Number | Azimuth | Description |
|----------------------------|---------|---|
| PL-1 | 120 | Envirocare fence damage. |
| PL-2 | 80 | Repaired Envirocare fence (photo provided by Envirocare). |
| PL-3 | 230 | Boundary monument BM-4 uncovered by Envirocare. |
| PL-4 | 260 | Envirocare Class A cell under construction west of the DOE disposal cell. |



SLC 6/2003. PL-1. Envirocare fence damage.



SLC 6/2003. PL-2. Repaired Envirocare fence (photo provided by Envirocare).



SLC 6/2003. PL-3. Boundary monument BM-4 uncovered by Envirocare.



SLC 6/2003. PL-4. Envirocare Class A cell under construction west of the DOE disposal cell.

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