



November 3, 2015

Mr. Arturo Burgos
Mr. Tom Ryan
City of Tucson, Environmental Services
4004 South Park Ave.
Building 1
Tucson, Arizona 85726

Re: Annual Closed Landfill Inspection – St. Mary’s Landfill

INTRODUCTION

On October 1, 2015, Engineering and Environmental Consultants, Inc. (EEC) performed the annual field inspection at the closed St. Mary’s Landfill. St. Mary’s Landfill was operated by the City of Tucson as a Municipal Solid Waste facility from 1963 through 1973. The property is currently fully developed and is the site of a City of Tucson owned Parks and Recreation sports complex and several low income apartment complexes.

Annual inspections are required at City of Tucson owned non-regulated closed landfills in accordance with the guidance document entitled "COT Closed Landfills Inspection and Maintenance Reporting and Procedures, March 2011". This guidance document was internally prepared by the City of Tucson Environmental Services Department (COT-ES).

Key elements of this inspection report are:

- A narrative summary of facility conditions including recommended corrective action(s) to be undertaken prior to the next scheduled inspection
- The Landfill Inspection Table used to document observed conditions (Attachment 1)
- An inspection photo log (Attachment 2)

INSPECTION SUMMARY

The annual field inspection of St. Mary’s Landfill is organized and conducted using the inspection report table included in the COT-ES inspection guidance document. A copy of the table filled out during this inspection is included with this report (Attachment 1). The table lists specific landfill items that must be inspected and provides space to comment on the conditions encountered during the inspection. The items inspected and the current conditions of these features at St. Mary’s Landfill are summarized as follows:

Perimeter Security Fence and Gates

The southern portion of the landfill is the site of a public park and the northern and eastern portion of the landfill is the site of several apartment complexes. All of the landfill is open to foot traffic. There is fencing on the south and west boundaries of the park and fencing with personnel access gates separating the park and the apartments on the northern portion of the landfill. The fencing in all locations was observed to be in generally good condition.

Inspection Roads

There are no roadways on the landfill itself. Asphalt apartment complex parking lots are located on parts of the landfill and are generally in fair condition.

Stormwater Controls

No stormwater controls are located on the landfill.

Stormwater Retention Basins

No Stormwater retention basins are located on the landfill.

Landfill Earthen Cap

The landfill cap is covered with grass in the park areas and with parking lots in the apartment complex areas. Lamp posts in the grassy area of the park were observed to be leaning, indicating some settlement had likely occurred in those areas (Photo 1).

Landfill Gas Extraction System Wellfield

There is no landfill gas extraction system at the landfill.

Gas Extraction System Compound

There is no landfill gas extraction system at the landfill.

Landfill Gas Monitoring Wells

EEC was unable locate several gas monitoring wells. Wells SM-1, SM-2, and SMT-26 were reported missing in previous annual inspections and were also not located in this inspection. In addition, wells SMT-21 and SMT-25 were not found in this inspection.

Groundwater Monitoring Wells

No groundwater monitoring wells are located near the landfill.

Remediation Equipment

None.

Illegal Dumping

No illegal dumping was observed on the landfill, although a downed tree was observed along the west boundary of the landfill (Photo 2).

Neighboring Land Uses

There have been no changes in land use of neighboring properties since the last inspection.

RECOMMENDED CORRECTIVE ACTIONS

- In addition to gas monitoring wells SM-1, SM-2, and SMT-26, which were previously reported as unfound, wells SMT-21 and SMT-25 were not found in this inspection. If these monitoring points are still needed, additional searching of the area, possibly with a metal detector may locate them.
- The 2014 annual report indicated that two new gas monitoring probe wells should be installed in the sports field adjacent to the apartment complexes to provide additional confidence in City monitoring efforts near the apartments. These installations remain undone.

No other corrective actions are recommended at this time.

Should you have any questions or require additional information, please contact me at 520-321-4625 (office) or 520-488-9205 (cell).

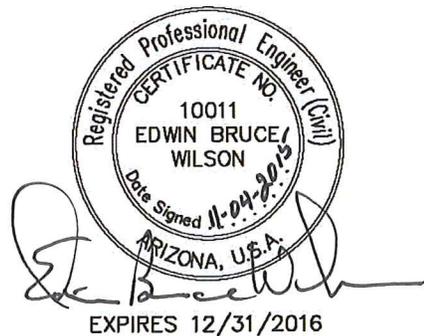
Sincerely,



Chad Hancock
Field Services Manager, Environmental Services

Attachments:

- 1: Landfill Inspection Table
- 2: Site Photographs



ATTACHMENT 1

LANDFILL INSPECTION TABLE

**CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
ST. MARY'S LANDFILL**

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	None	
Inspection Roads (washouts, obstructions, potholes)	None	
Storm Water Controls (berms, let downs, spillways)	None	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	None	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	Some settling in sports field, lamp posts leaning	Monitor
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	N/A	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	N/A	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	Wells SM-1, SM-2, SMT-26, SMT-21 and SMT-25 not found	Installation of new wells near between sports field and apartments recommended
Groundwater Monitoring Wells (including bollards, vaults, locks)	N/A	
Remediation Equipment (compound fence, erosions, leaks)	N/A	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	None	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	None	
INSPECTOR SIGNATURE 		DATE 10/7/15

ATTACHMENT 2

SITE PHOTOGRAPHS



Photo 1: Leaning lamp post in sports field



Photo 2: Downed tree on west boundary of landfill