

TUMAMOC COVER MAINTENANCE PROJECT

4/1/1/12

Description	Early Start	Early Finish	% Resource	Budgeted Cost	2012				2013				2014				
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
NTP for Cornerstone	26MAR12 A		GO BONDS	76,100					NTP for Cornerstone								
Kickoff Meeting with Review Team	30APR12 A	30APR12 A		0					Kickoff Meeting with Review Team								
Design Project	30APR12 A	30SEP12 A		0					Design Project								
Project Permitting Pima County/COT	01OCT12 A	31DEC12 A		0					Project Permitting Pima County/COT								
Bid Project for Construction w/JOC	01JAN13 A	28FEB13 A		0					Bid Project for Construction w/JOC Contractors								
Perform Construction	01MAR13 A	30JUN13 A	GO BONDS	630,000					Perform Construction								
Complete Construction		30JUN13 A		0					Complete Construction								
	11APR12	11APR12		0													

Start date 11APR12

Project name tumamoc mainten...

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Early bar
 Progress bar
 Critical bar
 Summary bar
 Start milestone point
 Finish milestone point



TUMAMOC LANDFILL MAINTENANCE PROJECT

Design Team Meeting Minutes
Friday, March 9, 2012, 1:30p.m.
Ward 1 Council Office

Meeting called to order by 1:30 p.m. Those present included:

Present:

Kerry Baldwin

Loy Neff

Mike Rosenzweig

Diana Rhoades

Todd Pitezal

Nancy Pearson

Jeff Drumm

Pima County

Pima County

University of Arizona, Tumamoc

City of Tucson, Ward 1

Arizona State Museum

Arizona State Museum

City of Tucson Environmental Services

1. Welcome and Introductions

- **Purpose of Meeting**

To formally discuss Tumamoc Cover Maintenance project.

2. Current landfill status, Scope of Work, and goals

- City of Tucson (COT), Pima County (PC), Arizona (AZ) State Museum, will continue meeting with the design consultant until the 50% of the design level drawings are complete. After that drawings and specs will be made available on the COT-FTP site for review and comment.
- Onsite surveys and reporting for plants and archeological impacts will be accomplished for the entire site along with a buffer area around the proposed work site to insure all disturbed areas are addressed. All soil, rip-rap, plants, etc. will be approved by the Design Team. Final survey docs and well info will be provided to Pima County.
- Jonathan Mabry with COT will be contacted and included in the project. Jeff Drumm apologized for the oversight.

3. Discuss Alternatives for Tumamoc Project

- Discussed alternatives for the project to include parking, walking paths, public garden areas, and Dr Rosenzweig's vision paper. At this time the design team we will go with the original plan and a maintenance soil cap. The design team We will include a new entrance east of the existing entrance to allow for safe access in the future for cap maintenance, groundwater sampling, and University of Arizona (UofA) plant plot surveys.

- UofA Desert Lab will include plant plots on the cap. COT and UofA will obtain special use access agreement to allow UofA students on the landfill cap to study plant plots.

4. **Next Meeting Date (Kick off)**

- The kick off meeting for the design team and consultant will be scheduled for late March and will be held at the Ward 1 office. Jeff Drumm will contact everyone shortly for available dates.
- Meeting concluded at 3:30 p.m.

TUMAMOC LANDFILL COVER MAINTENANCE

SCOPE OF WORK

9/5/11

Project Background

The Tumamoc Landfill (TL) is an inactive municipal solid waste landfill located at the southwest base of Tumamoc Hill near the intersection of Greasewood and 22nd (Starr Pass Blvd). The City of Tucson operated the landfill from 1964 to 1966 for city wide, municipal waste disposal. The landfill was deeded to the City of Tucson in 2009 when Pima County acquired the Tumamoc Hill property from Arizona State Land Department.

Site information: (Environmental Assessment of Tumamoc Landfill, EEC 1989)

Dates operated:	1964 – 1966
Location:	T14S-R13E-S16
Facility size:	20 acres
Waste footprint:	20 acres
Waste in place:	968,000 cubic yards
Waste thickness:	35 feet

Methane and groundwater monitoring: There are nine methane monitoring wells with two probes in each well. The probes are completed at depths of 10 and 25 feet below ground level. The locations of the methane monitoring wells are shown on Figure #1. The methane probes have been monitored quarterly since 1997. Methane concentrations have been “non-detect” for all probes at all depths, for all samplings. The COT-ES is currently gauging and monitoring 14 groundwater monitor wells at Tumamoc Landfill and nearby areas as shown on Figure 1 on a semi-annual basis. Methane and groundwater monitoring data is on file at the City of Tucson Environmental Services Department (COT-ES).

Surrounding land use: At the present time the land immediately north and west of TL is undeveloped and is part of the University of Arizona Desert Laboratory study area. Additional University of Arizona Desert Laboratory study area is east of the landfill. Starr Pass Boulevard and residential developments exist to the south. Part of the southern and all the western portion of the waste footprint is bounded by a wash. The landfill side slopes in the wash areas are severe to nearly vertical and erosion from surface water run-off and intermittent flow in the wash is significant. Site topography is included on CD with this RFP. Any proposed work will have to be approved with the expressed concurrence of University of Arizona Desert Lab, Pima County and COT-ES.

Project Description

The project is being implemented to provide maintenance for the soil landfill cap and install onsite storm water drainage. Both improvements are designed to cover exposed waste, stop infiltration, and control storm water erosion and runoff. The project will include permitting for storm water management and site access (see Figure 2), waste shaping design, and soil placement design for two feet of new cover across the entire waste footprint. Design drawings and specifications suitable for construction bidding will be required. Soil for the project will be imported from off site.

TUMAMOC LANDFILL COVER MAINTENANCE

SCOPE OF WORK

9/5/11

Scope of Work

The selected consultant shall provide the following services as needed to achieve the project goals:

- Permitting for surface water control design.
- Engineering and design services for maintenance soil capping, bank protection and erosion control along the wash and Storm Water Pollution Prevention Plan (SWPPP).
- Identify source of borrow material to be used in final capping of the landfill in concurrence with Arizona Desert Laboratory standards and provide all sampling and materials testing necessary to verify adequacy of cover borrow material.
- Provide complete set of design drawings, specifications and bid documents for construction and implementation of the maintenance plan.
- Provide construction quality assurance/construction quality control plan.
- Respond to all questions and participate in pre-bid meetings with contractors for the maintenance project.
- Provide all necessary changes to plans, specifications and bid documents to address discrepancies discovered during the bid process.
- Provide information and displays and attend meetings with the University of Arizona Desert Laboratory as needed.
- Cost on a time and material basis with a price not to exceed to perform the project.
- Schedule to perform the project.