



**SOLID WASTE  
DEPARTMENT  
COUNTY OF TULARE  
AGENDA ITEM**

**BOARD OF SUPERVISORS**

ALLEN ISHIDA  
District One  
PETE VANDER POEL  
District Two  
PHILLIP A. COX  
District Three  
J. STEVEN WORTHLEY  
District Four  
MIKE ENNIS  
District Five

**AGENDA DATE:** November 17, 2015

Public Hearing Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Scheduled Public Hearing w/Clerk	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Published Notice Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Advertised Published Notice	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Meet & Confer Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Electronic file(s) has been sent	Yes	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>
Budget Transfer (Aud 308) attached	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Personnel Resolution attached	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Agreements are attached and signature line for Chairman is marked with tab(s)/flag(s)	Yes	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>

CONTACT PERSON: Bryce Howard PHONE: (559) 624-7195

**SUBJECT:** Amendment to an Agreement with ARCADIS U.S., Inc.

**REQUEST(S):**

That the Board of Supervisors:

1. Approve the first amendment to Agreement No. 26942 with ARCADIS U.S., Inc. increasing the amount to \$1,153,100 and increasing the term an additional eighteen months to June 30, 2017 for environmental consulting services at the Visalia landfill.
2. Authorize the Chairman to sign 4 copies of the first amendment to the Agreement.

**SUMMARY:**

On June 12, 2001, your Board approved an amendment to an agreement (Agreement 20294-A) with Malcolm Pirnie (now ARCADIS U.S., INC (ARCADIS)) authorizing the engineering and installation of corrective action measures (CAM) along the western and southern sides of the Visalia landfill to capture and remediate groundwater contamination caused by volatile organic compounds (VOCs) leaking from the unlined landfill (WMU-1). This was done in compliance with a Corrective Action Plan (CAP) approved by the California Regional Water Quality Control Board (RWQCB).

The CAM has two components. Along the western boundary of the landfill, a pump and treat groundwater extraction system (Western CAM) strips VOCs from groundwater and reintroduces the treated water back into a recharge basin. Along the southern boundary of the landfill, VOC contaminated groundwater is treated in-place through injection wells by bio-remediation (Southern CAM).

The CAP was implemented in stages between 2002 and 2005 and has been effective in capturing and remediating the VOC contamination until recently when aging system component failures of the Western CAM, combined with California's worsening

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drought conditions rendered this component of the CAP inoperable. Fouling of the Southern CAM injection wells and depletion of previously injected bio-remediation compounds into those wells have affected the performance of that component of the CAP as well.

RWQCB Waste Discharge Requirements R5-2013-0059 for the Visalia landfill require that the County maintain and operate the CAM in accordance with the approved CAP. Because the Western CAM is inoperable, the RWQCB issued a Notice of Violation (NOV) for failure to maintain and operate the system in accordance with the CAP. In response to this NOV, the County directed ARCADIS to develop a plan to restore both the Western and Southern CAMs That plan has been approved by the RWQCB and work on the Southern CAM was completed by ARCADIS in November 2014 under a separate agreement.

On December 16, 2014, your Board entered into an agreement with ARCADIS to begin work to determine the extent of repairs and modifications necessary in order to restore the Western CAMs functionality and effectiveness (Agreement No. 26942).

Restoration of the Western CAM under Agreement 26942 included the following activities:

- An assessment of components and recommendations for restoring the system to long term operation;
- Installation of a new groundwater monitoring well to evaluate the level of contamination in the deeper groundwater and replacement of four other groundwater monitoring wells;
- Installation of a dual purpose test well to monitor the level of contamination in the shallow groundwater and perform an aquifer test; and
- Preparation of a report to be submitted to the RWQCB on the feasibility of expanding the Western CAM by incorporating additional wells and recommendations for modifications to the system and responses to RWQCB comments on the report.

When entering into the current Agreement (Resolution 2014-0937), your Board was informed that the Solid Waste Department would be returning with an amendment to the Agreement based on the conclusions and recommendations resulting from the initial work. ARCADIS has prepared a Cost Estimate for the Upgrade and Re-start of the Western CAM (Exhibit A) based on the results of the initial work.

The estimate for performing this work is \$840,200 and includes the following additional activities:

- Interim system startup;
- Installation of an initial deeper groundwater extraction well for testing and analysis;
- Capture zone analysis and groundwater flow modeling;
- Installation of three additional deeper groundwater extraction wells and well vault construction;
- Installation of two additional groundwater monitoring wells for evaluation of

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- VOC concentrations in the deeper zone; and
- Installation of treatment system control upgrades and system startup.

Staff recommends approving this agreement amendment. ARCADIS (formerly Malcolm Pirnie) has been the consultant on groundwater contamination issues at the Visalia landfill since 1998 and has the expertise and personnel familiar with those issues.

The original agreement was approved as to form by County Counsel and was approved by the Board of Supervisors on December 16, 2014. There were no deviations from the County contract protocol included in the original agenda item. The proposed amendments to the agreement do not include any additional deviations from the County contract protocol.

The only changes from the original agreement, as amended to date, are changing the time period of the agreement by extending it an additional eighteen months, changing the dollar amount under the agreement to increase the amount from \$312,900 to \$1,153,100 and the addition of an addendum to Exhibit A.

**FISCAL IMPACT/FINANCING:**

This work has been included in the Solid Waste Enterprise fund budget. There is no net impact to the General Fund. Funds for this work were originally budgeted as a capital asset. The nature of this work is for maintenance and repair and does not add value other than returning the CAM to its original working condition.

**LINKAGE TO THE COUNTY OF TULARE STRATEGIC BUSINESS PLAN:**

The requested actions assists the County in its efforts to manage its natural resources in addition to providing for the health and safety of the general public through environmental protection.

**ADMINISTRATIVE SIGN-OFF:**

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Scott Pfanstiel, Environmental Coordinator  
Solid Waste Department

Cc: Auditor-Controller  
County Counsel

Attachments: Amendment Agreement 26942 (4 copies)  
Exhibit A – ARCADIS Proposal

**BEFORE THE BOARD OF SUPERVISORS  
COUNTY OF TULARE, STATE OF CALIFORNIA**

**IN THE MATTER OF AMENDMENT TO )  
AN AGREEMENT WITH ARCADIS ) Resolution No. \_\_\_\_\_  
U.S., INC. ) Agreement No. \_\_\_\_\_  
)**

UPON MOTION OF SUPERVISOR \_\_\_\_\_, SECONDED BY  
SUPERVISOR \_\_\_\_\_, THE FOLLOWING WAS ADOPTED BY THE BOARD OF  
SUPERVISORS, AT AN OFFICIAL MEETING HELD \_\_\_\_\_, BY THE  
FOLLOWING VOTE:

AYES:  
NOES:  
ABSTAIN:  
ABSENT:

ATTEST: MICHAEL C. SPATA, INTERIM  
COUNTY ADMINISTRATIVE OFFICER/  
CLERK, BOARD OF SUPERVISORS

BY: \_\_\_\_\_  
Deputy Clerk

\* \* \* \* \*

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