



**AGENDA MEMORANDUM**  
for the City Council Meeting of June 19, 2012

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**DATE:** June 12, 2012

**TO:** Ronald L. Olson, City Manager

**FROM:** Daniel Biles, P. E., Interim Director of Engineering Services  
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<p><b><u>Execute Geotechnical Services Agreement</u></b> <b>J. C. Elliott Landfill Groundwater Monitoring FY 2012-2013</b> <b>Cefe Valenzuela Landfill Groundwater Monitoring FY 2012-2013</b></p>
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**CAPTION:**

A. Motion authorizing the City Manager, or designee, to execute a geotechnical services agreement with Kleinfelder of Corpus Christi, Texas in the amount of \$89,500 for the J. C. Elliott Landfill Groundwater Monitoring FY 2012-2013.

B. Motion authorizing the City Manager, or designee, to execute a geotechnical services agreement with Kleinfelder of Corpus Christi, Texas in the amount of \$108,100 for the Cefe Valenzuela Landfill Groundwater Monitoring FY 2012-2013.

**PURPOSE:**

The purpose of this Agenda Item is to execute the geotechnical services agreement for the Landfill Groundwater Monitoring FY 2012-2013: J. C. Elliott Landfill and Cefe Valenzuela Landfill.

**BACKGROUND AND FINDINGS:**

The Texas Commission on Environmental Quality (TCEQ) requires the installation and monitoring of groundwater monitoring wells around solid waste landfills. TCEQ regulations require groundwater monitoring continue in accordance with the Groundwater Monitoring and Sampling Plan approved TCEQ Landfill Permit for the Cefe Valenzuela Landfill. Monitoring is required for the operational life of the landfill and for a period of thirty (30) years after final closure. The monitoring ensures there is no migration of leachate off the landfill site. Landfill cells are designed to prevent the flow of groundwater into and out of disposal cells. Modern disposal cells are constructed with liners and leachate collection system to allow any water to be collected for treatment.

J. C. Elliott Landfill Monitoring Contract – There are twenty-three (23) groundwater monitoring wells at the J. C. Elliott Landfill that will be sampled during FY 2012-2013. The Ground Water Sampling and Analysis Plan (GWSAP) sets for the sampling requirements and procedures sampling and analysis. The GWSAP requires semi-annual detection monitoring of the groundwater wells commencing in January 2013. After each detection monitoring event, Kleinfelder will compare the results with background values, and if exceedances occur, Kleinfelder will prepare notification reports to send to TCEQ. Kleinfelder will conduct verification resampling of wells exceeding background limits, prepare notices of exceedances, and submit results of resampling or alternate source demonstrations as necessary. Kleinfelder will sample the 23-well system for the total metals and volatile organic compounds specified in the current GWSAP in Exhibit “A”, Page 4 of 5, of the Agreement.

After each detection monitoring event, Kleinfelder will evaluate data to determine if statistically significant increases in the total metals and volatile organic compounds have occurred. In the event that such changes have occurred, Kleinfelder will notify the TCEQ in accordance with the requirements. Kleinfelder will conduct verification sampling of the well(s) in which statistically significant increases occurred.

Cefe Valenzuela Monitoring Contract – There are thirty (30) groundwater monitoring wells located at Cefe Valenzuela Landfill that will be used for the FY 2012-2013. Kleinfelder will conduct detection monitoring sampling of landfill monitor wells in August 2-12 and will prepare the 2012 Annual Ground Water Monitoring Report. Kleinfelder will conduct a second monitoring event in February 2013. Kleinfelder will conduct background monitoring at five wells in August 2012 and November 2012, and will prepare a statistical analysis of the data to determine background limits. Kleinfelder will conduct verification resampling of wells exceeding background limits, prepare notices of exceedances, and submit results of resampling or alternate source demonstrations as necessary.

After each detection monitoring event, Kleinfelder will evaluate data to determine if statistically significant increases in the total metals and volatile organic compounds have occurred. In the event that such changes have occurred, Kleinfelder will notify the TCEQ in accordance with the requirements. Kleinfelder will conduct verification sampling of the well(s) in which statistically significant increases occurred.

#### **ALTERNATIVES:**

TCEQ requires all testing and certifications for landfills to be provided by independent third parties. Staff does not possess the expertise to perform the required sampling, laboratory testing, and preparation of required TCEQ reports.

#### **CONFORMITY TO CITY POLICY:**

The agreements and selection process comply with the Professional Procurement Act and City Policy. The agreements will allow the City to comply with the Landfill Operating Permits and Ground Water Sampling and Analysis Plans approved by TCEQ for the J. C. Elliott Landfill and Cefe Valenzuela Landfill. Kleinfelder was selected based upon qualifications, working knowledge and previous coordination with TCEQ concerning groundwater monitoring at J. C. Elliott Landfill and Cefe Valenzuela Landfill.

#### **EMERGENCY / NON-EMERGENCY:**

Not applicable

**DEPARTMENTAL CLEARANCES:**

Solid Waste Services

**FINANCIAL IMPACT:** Operating Expense

<b>Fiscal Year: 2011-2012</b>	<b>Project to Date Expenditures (CIP only)</b>	<b>Current Year</b>	<b>Future Years</b>	<b>TOTALS</b>
Line Item Budget		\$0.00	\$0.00	\$0.00
Encumbered / Expended Amount	\$0.00			\$0.00
This item			\$197,600.00	\$197,600.00
BALANCE				

Fund(s): General Fund

**Comments:** The agreements will result in the expenditure of an amount not to exceed \$197,600 during FY 2012-2013. Funds have been requested in the proposed budget to cover these projects.

**RECOMMENDATION:**

City staff recommends that the geotechnical services agreements be awarded to Kleinfelder of Corpus Christi, Texas for Landfill Groundwater Monitoring FY 2012-2013, in the amount of \$89,500 for the J. C. Elliott Landfill, and \$108,100 for the Cefe Valenzuela Landfill, for a total amount of \$197,600.

**LIST OF SUPPORTING DOCUMENTS:**

Location Map