

Agenda Item - C - 3

**VILLAGE OF ROYAL PALM BEACH**

Agenda Item Summary

**AGENDA ITEM:**

**Approval and authorization for the Village Manager to enter into a Consultant Services Authorization No. 35 with Erdman Anthony of Florida, Inc. for \$12,800.00**

**ISSUE:**

**Consultant Services Authorization No. 35 is a proposal for supplemental work to prepare a groundwater monitoring plan for the Royal Palm Beach Commons Park site. Monies to come from Project PR0701 – Account 303-7200-572-63-90.**

**RECOMMENDED ACTION:**

Staff recommends a motion to approve.

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Initiator:	Village Manager	Agenda	Village Council
	Approval:	Date:	Action:

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Village Engineer	February 7, 2008
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## **Consultant Authorization Services**

**No. 35**

### **Royal Palm Beach Commons**

#### **Introduction**

The Village of Royal Palm Beach (Village) entered into an Engineering Professional Services agreement with Erdman Anthony of Florida, Inc. on September 7, 2005. This Consultant Services Authorization (CSA) will be performed under the terms and conditions of that AGREEMENT.

#### **Background**

Enter into CSA No. 34 for supplemental work to prepare a groundwater monitoring plan for the Royal Palm Beach Commons Park site.

#### **Scope of Services**

#### **SUPPLEMENTAL SCOPE OF WORK**

The supplemental work that we propose to undertake for the project will involve the tasks described hereafter.

#### **Determination of Groundwater Flow Direction**

- Install piezometers at 12 locations throughout the site to determine the local groundwater flow direction. The piezometers will be installed to five feet beneath the ambient water table using a truck mounted drill rig. Each piezometer will consist of a one-inch diameter by five-foot long well screen flush joint coupled to a riser pipe of similar composition to bring the assembly about three feet above grade. Clean silica sand will be placed within the annulus of each borehole and extend from the tip of the piezometer to about six inches below the ground surface. The remaining portion of each annulus will be filled with bentonite

pellets. Lastly, the piezometers will be developed by pumping until the discharge water is relatively clean and free of sediment.

- Determine the top-of-casing (TOC) elevation of each piezometer relative to the National Geodetic Vertical Datum of 1929 (NGVD). We request that the piezometer TOCs be surveyed by Erdman Anthony of Florida, Inc. We also request that the TOC elevations for the existing monitoring wells at the maintenance facility also be surveyed so that these wells can be utilized for groundwater flow direction determination.
- Measure the groundwater levels in the piezometers 24 hours after they have been installed and developed as well as the maintenance facility wells.
- Determine the local groundwater flow direction for the site.

#### Groundwater Quality Evaluation

- Advance shallow (water table) and intermediate depth (about 30 feet deep) temporary wellpoints at four locations along the property boundaries (three in a downgradient flow direction and one in an upgradient direction) using Geoprobe Direct Push Technology. The wellpoints will be placed proximate to areas where arsenic impacts to groundwater have been documented in the preliminary site assessment.
- Collect groundwater specimens from each wellpoint and analyze the samples for total arsenic. Should the turbidity levels in the groundwater specimens be elevated, the samples may also need to be analyzed for dissolved (filtered) arsenic to eliminate false positive results. For budgeting purposes we have assumed that half of the samples (i.e. 4) will require dissolved arsenic analysis.
- Evaluate the groundwater flow direction and groundwater quality data and prepare a groundwater monitoring plan in accordance with Chapter 62-520.600, FAC for submittal to the FDEP.

#### **Fee**

Lump sum fee for this CSA is **\$12,800**

Consultant Services Authorization No. 35

Date: \_\_\_\_\_

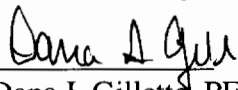
If you concur with this Consultant Services Authorization, please indicate by executing both copies and returning one to Erdman Anthony of Florida, Inc.

IN WITNESS WHEREOF, the parties have hereto set their hands the day and year first above written.

Witness:

Erdman Anthony of Florida, Inc.

1. \_\_\_\_\_

  
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Dana I. Gillette, PE, PSM  
Principal Associate

2. \_\_\_\_\_

Village of Royal Palm Beach,

1. \_\_\_\_\_

\_\_\_\_\_  
David Farber  
Village Manager

2. \_\_\_\_\_