## PARK CREEK COMMUNITY DEVELOPMENT DISTRICT

Advanced Board Package

Board of Supervisors Regular Meeting

> Tuesday April 2, 2019 11:00 a.m.

Metro Development Group 2502 N. Rocky Point Drive, Ste. 1050 Tampa FL

Note: The Advanced Meeting Package is a working document and thus all materials are considered <u>DRAFTS</u> prior to presentation and Board acceptance, approval or adoption.

# PARK CREEK COMMUNITY DEVELOPMENT DISTRICT AGENDA

**District Board of Supervisors** Mike Lawson Chairman

Doug DraperVice ChairmanLori PriceAssistant SecretaryChrisite RayAssistant Secretary

District Manager Paul Cusmano DPFG

District Attorney John Vericker Straley Robin Vericker

**District Engineer** Tonja Stewart Stantec Consulting Services, Inc.

#### All cellular phones and pagers must be turned off during the meeting.

#### The District Agenda is comprised of six different sections:

The first section which is called Audience Questions and Comments. The Audience Comment portion of the agenda is where individuals may comment on matters that concern the District. Each individual is limited to three (3) minutes for such comment. The Board of Supervisors or Staff is not obligated to provide a response until sufficient time for research or action is warranted. IF THE COMMENT CONCERNS A MAINTENANCE RELATED ITEM, THE ITEM WILL NEED TO BE ADDRESSED BY THE DISTRICT MANAGER OUTSIDE THE CONTEXT OF THIS MEETING. The second section is called Administrative Matters and contains items that require the review and approval of the District Board of Supervisors as a normal course of business. The third section is called Business Matters. The business matters section contains items for approval by the District Board of Supervisors that may require discussion, motion and votes on an item-by-item basis. Occasionally, certain items for decision within this section are required by Florida Statute to be held as a Public Hearing. During the Public Hearing portion of the agenda item, each member of the public will be permitted to provide one comment on the issue, prior to the Board of Supervisors' discussion, motion and vote. Agendas can be reviewed by contacting the Manager's office at (813) 374-9105 at least seven days in advance of the scheduled meeting. Requests to place items on the agenda must be submitted in writing with an explanation to the District Manager at least fourteen (14) days prior to the date of the meeting. The fourth section is called Staff Reports. This section allows the District Manager and Maintenance Supervisor to update the Board of Supervisors on any pending issues that are being researched for Board action. The fifth section which is called Audience Comments on Other Items provides members of the Audience the opportunity to comment on matters of concern to them that were not addressed during the meeting. The same guidelines used during the first audience comment section will apply here as well. The final section is called Supervisor Requests. This is the section in which the Supervisors may request Staff to prepare certain items in an effort to meet residential needs.

Public workshops sessions may be advertised and held in an effort to provide informational services. These sessions allow staff or consultants to discuss a policy or business matter in a more informal manner and allow for lengthy presentations prior to scheduling the item for approval. Typically no motions or votes are made during these sessions.

Pursuant to provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting is asked to advise the District Office at (813) 374-9105, at least 48 hours before the meeting. If you are hearing or speech impaired, please contact the Florida Relay Service at 1 (800) 955-8770, who can aid you in contacting the District Office.

Any person who decides to appeal any decision made by the Board with respect to any matter considered at the meeting is advised that this same person will need a record of the proceedings and that accordingly, the person may need to ensure that a verbatim record of the proceedings is made, including the testimony and evidence upon which the appeal is to be based.

#### PARK CREEK COMMUNITY DEVELOPMENT DISTRICT

Date of Meeting: Tuesday, April 2, 2019

Time: 11:00 a.m.

Location: Metro Development Group

2502 N. Rocky Point Road, Ste. 1050

Tampa FL

Conference Call No.: (563) 999-2090

Code: 686859#

#### **AGENDA**

#### I. Roll Call

#### II. Audience Comments

#### III. Consent Agenda

A. Approval of Minutes of the February 5, 2019 Meeting **Exhibit 1** 

B. Acceptance of the February 2019 Financial Statements Exhibit 2

#### **IV.** Business Matters

A. Ratification of Resolution 2019-04 Re-Designating Officers Exhibit 3

B. Consideration and Adoption of Resolution 2019-05 Authorizing the Chairman to Execute Plats, Permits & Conveyances

#### V. Staff Reports

A. District Manager

1. Aquatic Systems Report Exhibit 5

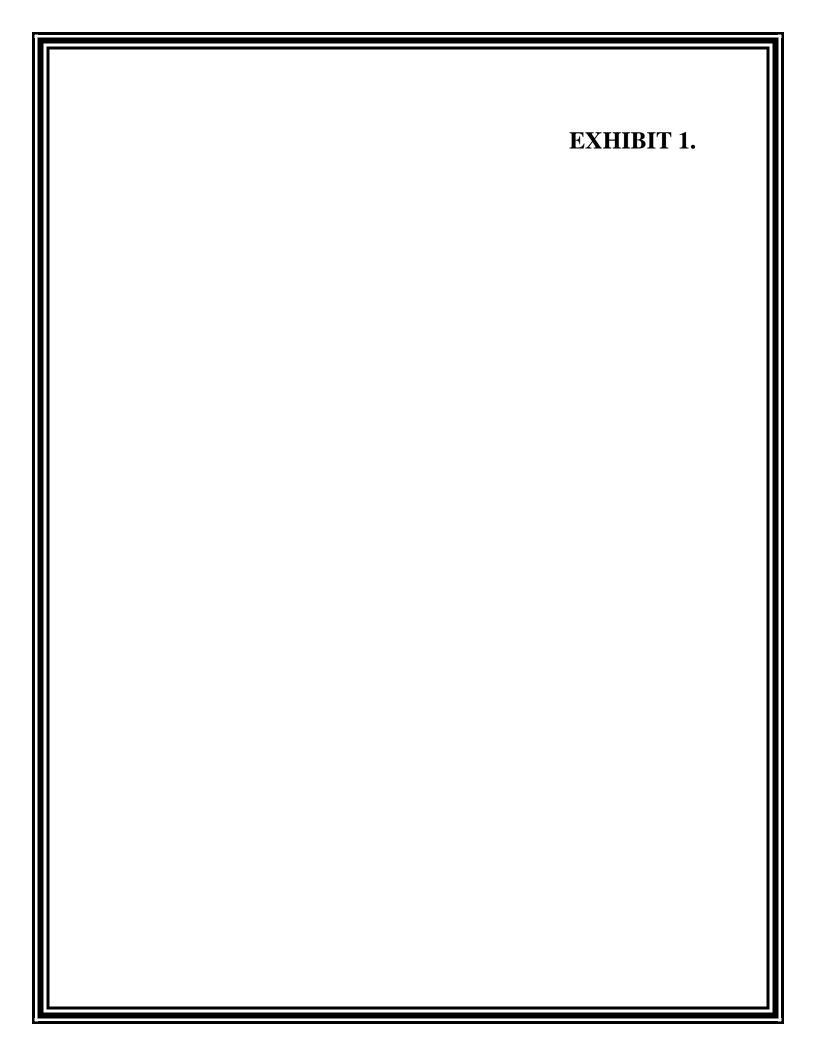
B. Attorney

C. District Engineer

#### VI. Supervisors Requests

#### VII. Audience Questions and Comments on Other Items

#### VIII. Adjournment



| 1<br>2<br>3<br>4                 | PA   | ES OF MEETING<br>RK CREEK<br>EVELOPMENT DISTRICT  |  |  |  |  |
|----------------------------------|--|---|--|--|--|--|
| 5<br>6<br>7<br>8                 | The Regular Meeting of the Board of Supervisors of the Park Creek Community Development District was held on Tuesday, February 5, 2019 at 6:00 p.m. at the Panther Trace Clubhouse, 12515 Bramfield Drive, Riverview, Florida 33579. |   |  |  |  |  |
| 9                                | FIRST ORDER OF BUSINESS - Roll Call  |   |  |  |  |  |
| 10                               | Mr. Cusmano called the meeting to order and conducted roll call.   |   |  |  |  |  |
| 11                               | Present and constituting a quorum were:  |   |  |  |  |  |
| 12<br>13<br>14                   | Mike Lawson<br>Doug Draper<br>Lori Price   | Board Supervisor, Chairman<br>Board Supervisor, Vice Chairman<br>Board Supervisor, Assistant Secretary  |  |  |  |  |
| 15                               | Also present were:   |   |  |  |  |  |
| 16<br>17<br>18                   | Paul Cusmano<br>LLC  | District Manager, DPFG Management & Consulting  |  |  |  |  |
| 19<br>20<br>21                   | The following is a summary of the discussions and actions taken at the February 5, 2019 Park Creek CDD Board of Supervisors meeting.   |   |  |  |  |  |
| 22                               | SECOND ORDER OF BUSINESS – Audience  | e Comments  |  |  |  |  |
| 23                               | There being none, next item followed.  |   |  |  |  |  |
| <ul><li>24</li><li>25</li></ul>  | THIRD ORDER OF BUSINESS – Consent Agenda   |   |  |  |  |  |
| 26                               | A. <b>Exhibit 1:</b> Approval of the Minutes from the August 30, 2018 Meeting  |   |  |  |  |  |
| 27                               | B. <b>Exhibit 2:</b> Acceptance of the December 2018 Financial Statements  |   |  |  |  |  |
| 28<br>29                         | On a MOTION by Mr. Lawson, SECONDED by Mr. Draper, WITH ALL IN FAVOR, the Board approved the Consent Agenda items A-B for the Park Creek Community Development District.   |   |  |  |  |  |
| 30<br>31                         | FOURTH ORDER OF BUSINESS – Business  | s Matters   |  |  |  |  |
| 32<br>33                         | A. <b>Exhibit 3:</b> Consideration and Adoption Landowner Election Results   | n of Resolution 2019-02; Canvassing and Certifying the  |  |  |  |  |
| 34<br>35<br>36                   |  | by Ms. Price, WITH ALL IN FAVOR, the Board adopteding the Landowner Election Results for the Park Creek   |  |  |  |  |
| 37                               | B. <b>Exhibit 4:</b> Consideration and Adoption  | of Resolution 2019-03; Re-Designating Officers  |  |  |  |  |
| 38<br>39<br>40<br>41<br>42<br>43 | Resolution <b>2019-03</b> ; re-designating the Officers as Chairman, Mr. Doug Draper to serve as Vi Secretary; District staffing is as follows: Mr. Pa   | y Mr. Draper, WITH ALL IN FAVOR, the Board adopted of the District as follows: Mr. Michael Lawson to serve ice Chairman, and Ms. Lori Price to serve as Assistant all Cusmano as Secretary, Ms. Patricia Comings-Thibault easurer; and Ms. Janet Johns as Assistant Secretary for the |  |  |  |  |

| Park Creek CDD<br>Regular Meeting  | February 5, 2019<br>Page <b>2</b> of <b>3</b> |
|--|---|
| FIFTH ORDER OF BUSINESS – Staff Reports  |   |
| A. District Manager  |   |
| 1. Exhibit 5: Aquatic Systems Report   |   |
| a. Exhibit 6: Lake Assessment Proposal Pond #1 -   | - \$1,300.00                                  |
| On a MOTION by Mr. Lawson, SECONDED by Mr. I Board approved the Lake Assessment Proposal Pond #1 in the Community Development District.                                  |   |
| 2. <b>Exhibit 7:</b> All American Proposed Contract Adde Monthly \$1,100.00/Yearly \$13,200.00   | endum – Mowing Section 4, 2 Ponds –           |
| On a MOTION by Mr. Lawson, SECONDED by Ms. Price, WI the All American Proposed Contract Addendum – Mow \$1,100.00/Yearly \$13,200.00 for the Park Creek Community De     | ving Section 4, 2 Ponds – Monthly             |
| 3. <b>Exhibit 8:</b> CIS TECH, Inc. – Key Pad Install - \$1,54   | 44.25   |
| On a MOTION by Mr. Lawson, SECONDED by Mr. I Board approved the proposal from CIS TECH, Inc. to install ke \$1,544.25 for the Park Creek Community Development District. | ey pads at the pool gates in the amount of    |
| 4. Exhibit 9: CIS TECH, Inc. Preventative Maintenand   | ce Agreement                                  |
| The Board tabled the decision for the CIS TAGENERAL.   | TECH, Inc. Preventative Maintenance           |
| B. Attorney  |   |
| There being none, next item followed.  |   |
| C. District Engineer   |   |
| There being none, next item followed.  |   |
| SIXTH ORDER OF BUSINESS – Supervisors Requests   |   |

SEVENTH ORDER OF BUSINESS - Audience Questions and Comments on Other Items

Board adjourned the meeting for the Park Creek Community Development District.

Mr. Cusmano asked for final questions, comments, or corrections before adjourning the meeting.

There being no new additional items, and upon a motion duly made, seconded and unanimously carried, Mr.

On a MOTION by Mr. Lawson, SECONDED by Mr. Draper, WITH ALL IN FAVOR, the

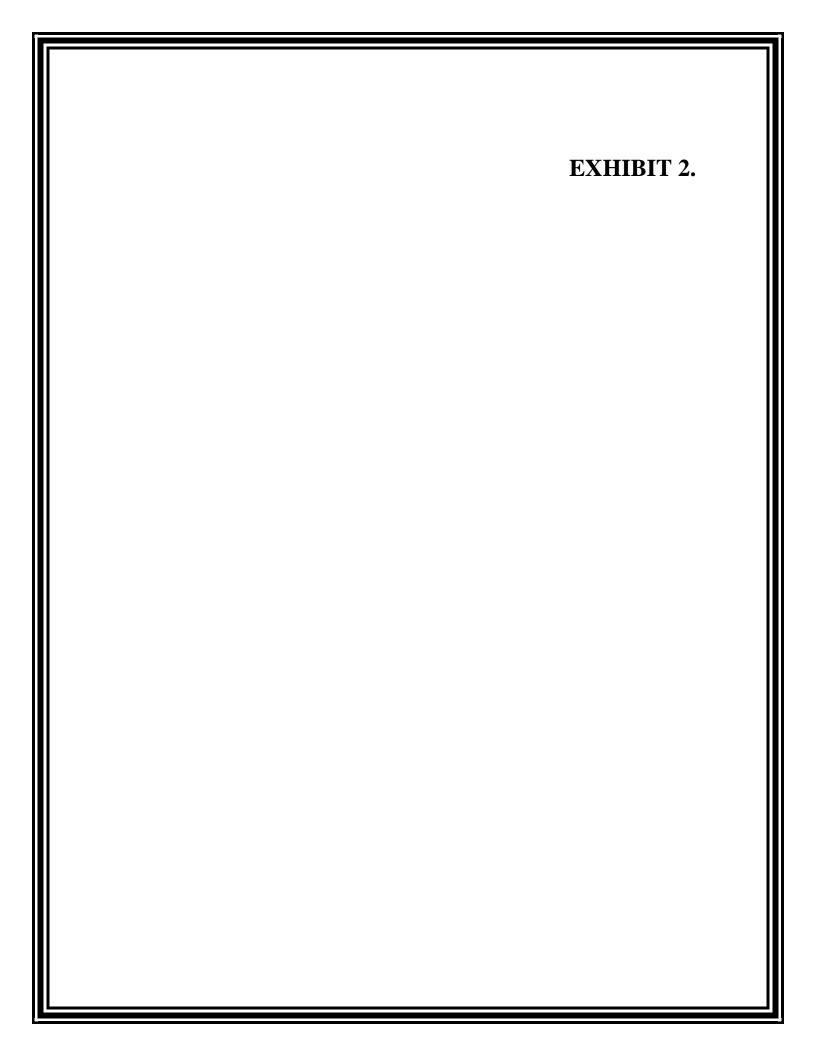
There being none, next item followed.

There being none, next item followed.

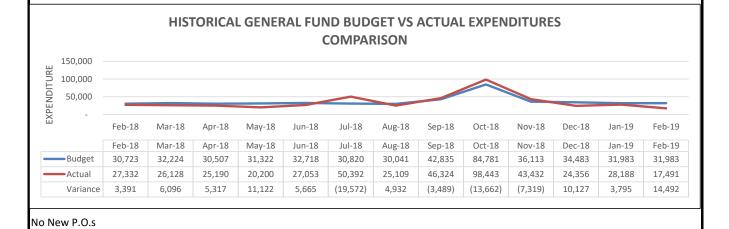
**EIGHTH ORDER OF BUSINESS – Adjournment** 

Cusmano declared the meeting adjourned.

| considered at the meeting is advised that person proceedings is made, including the testimony and e | · ·   |
|---|---|
| Masting minutes were approved at a masting by   | rate of the Doord of Cunowisons at a publish no   |
| Meeting minutes were approved at a meeting by meeting held on .                                     | vote of the Board of Supervisors at a publicly no |
| incerning near on   |   |
| Signature   | Signature   |
|   |   |
| Printed Name  | Printed Name                                      |
|   |   |



| Park Cree   | k CD                | D                          |                     |                                |                            |                                 |  |
|---|---------------------|----------------------------|---------------------|--------------------------------|----------------------------|---------------------------------|--|
| Financial Report Summary - Gene   | ral Fu              | nd & Const                 | ructio              | n Fund                         |                            |                                 |  |
| 2/28/20   | )19                 |                            |                     |                                |                            |                                 |  |
| For The Period Ending :   | I -                 | NERAL FUND<br>2/28/2019    |                     | STRUCTION<br>2013A<br>/28/2019 |                            | STRUCTION<br>2014A<br>2/28/2019 |  |
| CASH BALANCE PLUS: ACCOUNTS RECEIVABLE - OFF ROLL PLUS: ACCOUNTS RECEIVABLE - ON ROLL PLUS: ACCOUNTS RECEIVABLE - OTHER | \$                  | 321,784<br>-<br>9,338<br>- | \$                  | 9<br>-<br>-<br>-               | \$                         | 1<br>-<br>-<br>-                |  |
| LESS: ACCOUNTS PAYABLE NET CASH BALANCE   | \$                  | (7,943)<br>323,179         | \$                  | (9)                            | \$                         | 1                               |  |
| GENERAL FUND REVENUE AND EXPENDITURES (FY 2019 YTD):  |                     |                            |                     |                                |                            |                                 |  |
|   |                     | 2/28/2019                  |                     | 2/28/2019                      |                            | FAVORABLE                       |  |
|   |                     | ACTUAL BUDG                |                     |                                | (                          |                                 |  |
| REVENUE (YTD) COLLECTED   | \$ S                | 439,589                    | \$                  | 358,676                        | \$                         | 80,913                          |  |
| EXPENDITURES (YTD)  | Φ                   | (214,625)                  | Ф                   | (219,344)                      | Φ                          | 4,719                           |  |
| NET OPERATING CHANGE  | \$                  | 224,964                    | \$                  | 139,332                        | \$                         | 85,632                          |  |
| AVERAGE MONTHLY EXPENDITURES  | \$                  | 42,925                     | \$                  | 43,869                         | \$                         | 944                             |  |
| PROJECTED EOY BASED ON AVERAGE  | \$                  | 85,850                     | \$                  | 448,345                        | \$                         | 1,887                           |  |
| GENERAL FUND SIGNIFICANT FINANCIAL ACTIVITY:  | 2/28/2019<br>ACTUAL |                            | 2/28/2019<br>BUDGET |                                | FAVORABLE<br>(UNFAVORABLE) |                                 |  |
|   | YEA                 | AR-TO-DATE                 | YEA                 | R-TO-DATE                      | V                          | ARIANCE                         |  |
| REVENUE:  |                     |                            |                     |                                |                            |                                 |  |
| ASSESSMENTS-ON-ROLL (NET)   | \$                  | 439,340                    | \$                  | 358,676                        | \$                         | 80,664                          |  |
| MISCELLANEOUS REVENUE   |                     | 249                        | -                   | -                              |                            | 249                             |  |
| EXPENDITURES:   |                     | F7 F0C                     |                     | 67.447                         |                            | 0.044                           |  |
| ADMINISTRATIVE EXPENDITURES   |                     | 57,506                     | +                   | 67,147                         |                            | 9,641                           |  |
| FIELD SERVICE EXPENDITURES - LANDSCAPE FIELD SERVICE EXPENDITURES - STREETLIGHTS  |                     | 50,033                     | +                   | 57,928                         |                            | 7,894                           |  |
| FIELD SERVICE EXPENDITURES - STREETLIGHTS FIELD SERVICE EXPENDITURES - POND MAINTENENACE                                |                     | 18,171<br>2,475            | +                   | 19,500<br>2,500                |                            | 1,329<br>25                     |  |
| FIELD SERVICE EXPENDITURES - SECURITY   |                     | 1,500                      | +                   | 2,333                          |                            | 833                             |  |
| LIFTO OFUAIDE EVLEINDITOMES - SECOVILI  |                     | 1,500                      |                     | ۷,۵۵۵                          |                            | 033                             |  |



\$

38,260.52

33,053

13,626

214,625

31,381.69

38,554

219,344

(6,879)

5,501

4,719

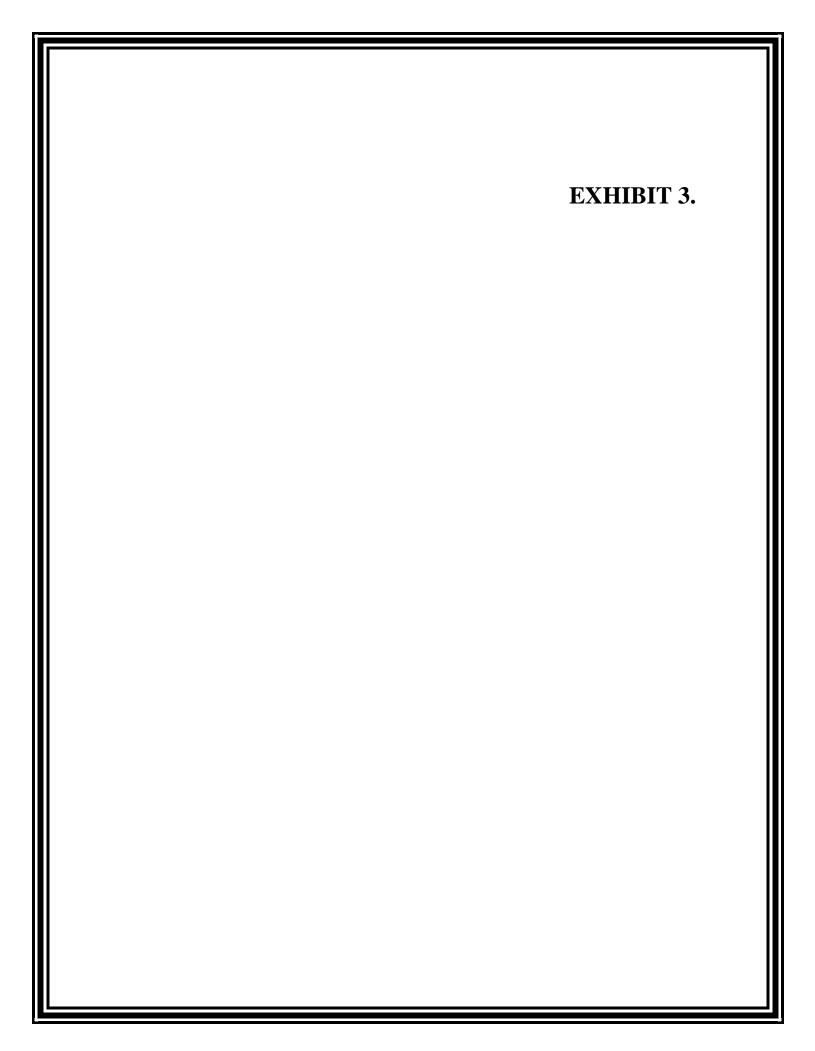
(13,626)

FIELD SERVICE EXPENDITURES - OTHER

AMENITY CENTER EXPENDITURES

UNBUDGETED EXPENDITURES

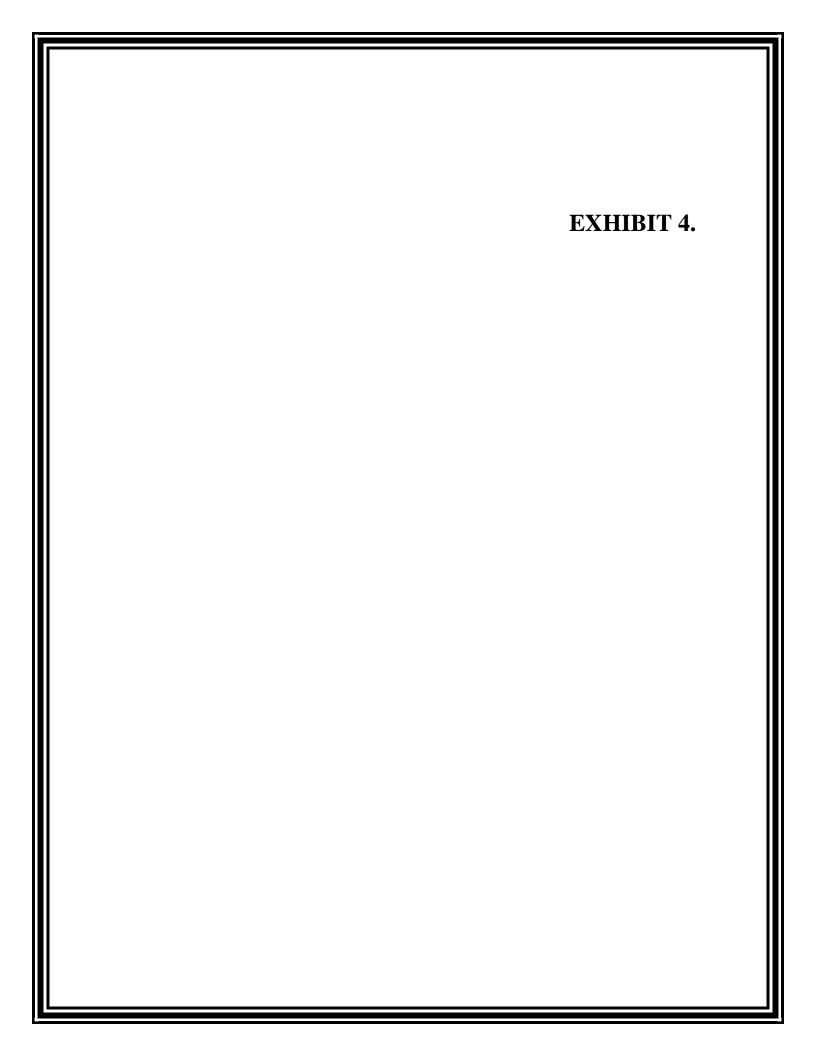
**TOTAL EXPENDITURES** 



#### RESOLUTION 2019-04

## A RESOLUTION RE-DESIGNATING OFFICERS OF THE PARK CREEK COMMUNITY DEVELOPMENT DISTRICT

| WHEREAS, the Board of Supervisors of   | the Park Creek Community Development |
|--|--------------------------------------|
| District at the business meeting held on   |                                      |
| persons to the offices specified.  |                                      |
| NOW, THEREFORE, BE IT RESOI<br>SUPERVISORS OF PARK<br>DEVELOPMENT DISTRICT:  | CREEK COMMUNITY                      |
| 1. The following persons were appointed to the   | ne offices shown, to wit:            |
| Mike Lawson  | Chairman                             |
| Doug Draper  | Vice Chairman                        |
| Paul Cusmano   | Secretary                            |
| Patricia Comings-Thibault  | Treasurer                            |
| Maik Aagaard   | Assistant Treasurer                  |
| Janet Johns  | Assistant Secretary                  |
| Lori Price   | Assistant Secretary                  |
| Christie Ray   | Assistant Secretary                  |
|  | Assistant Secretary                  |
| electing or appointing officers adopted by the Community Development District and are here.  Adopted thisday of, 2019. | Lawson Than Aller                    |
| Paul of Secre  | Cusmano                              |



#### **RESOLUTION 2019-05**

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE PARK CREEK COMMUNITY DEVELOPMENT DISTRICT GRANTING THE AUTHORITY TO EXECUTE REAL AND PERSONAL PROPERTY CONVEYANCE AND DEDICATION DOCUMENTS, AND PLATS AND OTHER DOCUMENTS RELATED TO THE DEVELOPMENT OF THE DISTRICT'S IMPROVEMENTS; APPROVING THE SCOPE AND TERMS OF SUCH AUTHORIZATION; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

**WHEREAS**, the Park Creek Community Development District ("**District**") is a local unit of special purpose government created and existing pursuant to Chapter 190, Florida Statutes, and situated within Hillsborough County, Florida; and

**WHEREAS**, Chapter 190, Florida Statutes, authorizes the District to construct, install, operate, and/or maintain systems and facilities for certain basic infrastructure including, but not limited to, stormwater management system, roadway improvements, water and sewer utility systems, recreation improvements, underground electric, and other improvements; and

**WHEREAS**, the District has adopted, or intends to adopt, a report of its District Engineer, as may be amended and/or supplemented ("**Engineer's Report**"), which sets forth the scope of the District's capital improvement plan and the improvements which are to be constructed therewith ("**Improvements**"); and

WHEREAS, in connection with the development of the Improvements in accordance with the Engineer's Report, which includes, but is not limited to, obtaining all necessary permits and approvals from local governments and agencies for the construction and/or operation of infrastructure improvements, the District is required, from time to time, to accept, convey and dedicate certain interests in real and personal property, including, but not limited to easements, plat dedications, deeds and bills of sale for infrastructure improvements ("Permits and Conveyances"); and

WHEREAS, to facilitate the efficient development of the Improvements, the District desires to authorize the Chair of the Board of Supervisors to approve and execute the Permits and Conveyances necessary to finalize the development of the District's capital improvement plan ("Conveyance Authority"); and

**WHEREAS**, the Conveyance Authority shall be subject to the District Engineer and District Counsel agreeing that each such proposed Permit or Conveyance is legal, consistent with the District's improvement plan and necessary for the development of the Improvements; and

**WHEREAS**, the Board of Supervisors finds that granting to the Chair the Conveyance Authority is in the best interests of the District so that the development of the Improvements may proceed expeditiously, subject to the terms and limitations imposed by this Resolution.

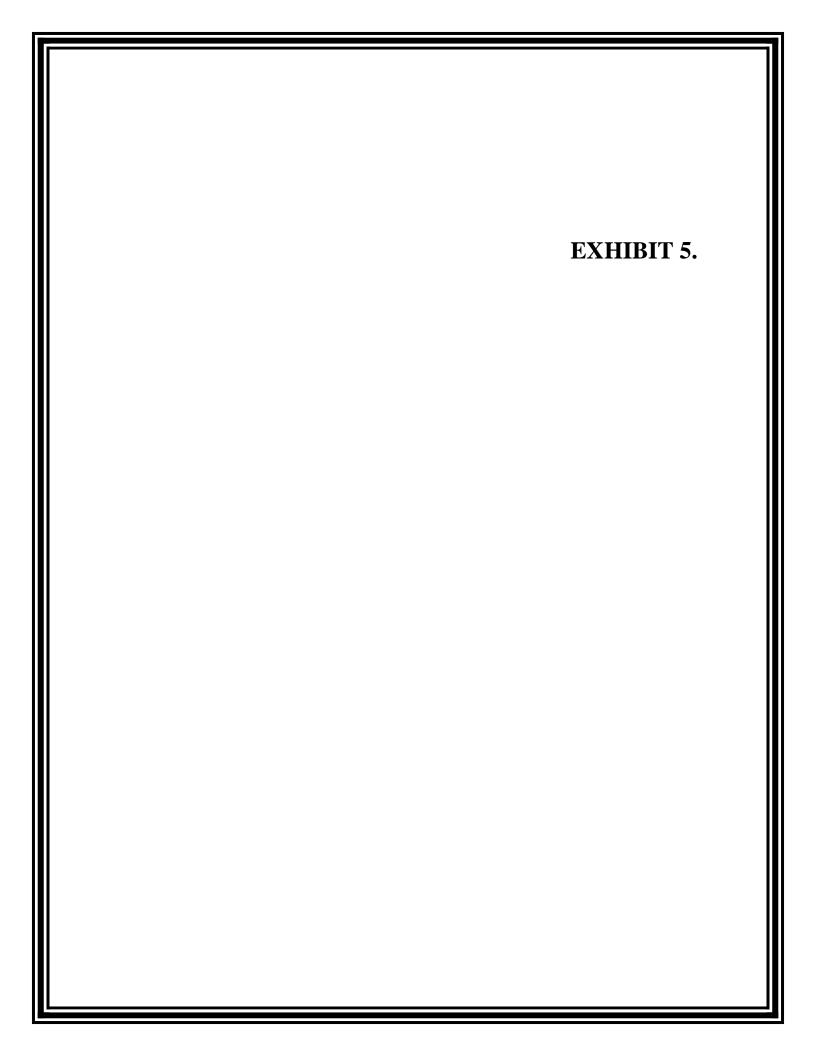
# NOW THEREFORE BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE PARK CREEK COMMUNITY DEVELOPMENT DISTRICT:

- 1. INCORPORATION OF RECITALS. The recitals so stated are true and correct and by this reference are incorporated into and form a material part of this Resolution.
- 2. **DELEGATION OF AUTHORITY.** The Chair of the District's Board of Supervisors is hereby authorized to sign, accept or execute Permits and Conveyances as defined above. In the event that the Chair is unavailable, any Board Supervisor is authorized to sign, accept or execute Permits and Conveyances as defined above. The Vice Chair, Secretary, and Assistant Secretary of the District's Board of Supervisors are hereby authorized to countersign any such Permits and Conveyances. Such authority shall be subject to the District Engineer and District Counsel's review and approval.
- **3. SEVERABILITY.** If any provision of this Resolution is held to be illegal or invalid, the other provisions shall remain in full force and effect.
- **4. EFFECTIVE DATE.** This Resolution shall take effect upon its passage and shall remain in effect unless rescinded or repealed.

PASSED AND ADOPTED THIS 2ND DAY OF April, 2019.

|                                | DEVELOPMENT DISTRICT    |  |  |
|--------------------------------|-------------------------|--|--|
|                                |                         |  |  |
| Secretary/ Assistant Secretary | Chair/ Vice Chair       |  |  |
| Print Name: Paul Cusmano       | Print Name: Mike Lawson |  |  |

DADIZ ODDELIZ OOMAMINIMA







# Park Creek CDD Waterway Inspection Report

Reason for Inspection: Routine Scheduled - Monthly

**Inspection Date:** 3/25/2019

#### **Prepared for:**

Mr. Paul Cusmano, District Manager

**DPFG** 

15310 Amberly Drive, Suite #175

Tampa, Florida 33647

#### Prepared by:

Logan Bell, Account Representative/Biologist

Aquatic Systems, Inc. - Sun City Field Office

Corporate Headquarters

2100 N.W. 33<sup>rd</sup> Street, Pompano Beach, FL 33069

1-800-432-4302

#### Site: 1







#### **Comments:** Treatment in progress

Pond #1 was targeted for algae development during our recent visit on 3/22/2019, which had displayed some results, but may require an additional treatment. Water level continues to drop as we have had no heavy rains. Shoreline weeds were treated as well during our visit on 3/22.

#### Site: 2







#### **Comments:** Normal growth observed

Pond #2 was identified with minor development of shoreline weeds, which were treated during our visit on 3/22/2019. Positive results of treated shoreline weeds were noted and will require some additional time. Overall, Pond #2 continues to look good.

### Park Creek CDD Waterway Inspection Report

#### Site: 3







#### Comments: Normal growth observed

Minor algae was noted along the perimeter and wind blown near the culvert pipe within Pond #3. Treatment will be scheduled for our upcoming visit. Shoreline weeds were treated during our visit on 3/22/2019 and will require 14-21 days for full results.

#### Site: 4







### **Comments:** Requires attention

Pond #4 was identified with new development of Slender Spikerush along the perimeter. Treatment will be require and is scheduled to be applied during our next visit. Positive results will be evident within 30-45 days as the herbicide is slow working, but provides the best results.

#### Site: 5







Comments: Normal growth observed

Pond #5 receives ground water flow from two sources within the community and is prone to developing algae. Treatment was performed during our recent visit on 3/22/2019 and will require 14-21 days for results. Fragrant water lillies and Gulf Spikerush were identified in Pond #5.

#### Site: 6







#### **Comments:** Normal growth observed

Typical terrestrial weeds were identified within Pond #6 as the exposed sediments take up a larger area than the water. Treatment will be scheduled for our upcoming maintenance visit. Water levels will continue to be monitored and should raise with some heavy rain.

Site: 7







**Comments:** Site looks good
No issues were observed within Pond #7 during inspection. Pond #7 was targeted for trace amounts of algae on 3/22, which has dissipated from the surface as of inspection.

#### Site: 8







#### **Comments:** Treatment in progress

During our visit on 3/22 Pond #8 was targeted for algae development along the surface perimeter and Pennywort development along the exposed banks. Both had just began to display positive results during inspection and will require 10-14 days.

Site: 9







**Comments:** Requires attention

Pond #9 was treated during our visit on 3/22 targeting algae development, which will likely display positive results, but be short lived due to the shallow nature of Pond #9. As of now, the water depth is approximately 1-2 feet maximum. Sections of the pond have completely dried out.

**Site:** 10







**Comments:** Requires attention

Pond #10 was identified with submersed Slender Spikerush along the perimeter, which will require treatment to be performed during our upcoming maintenance visits. Native Gulf Spikerush and Bull Rush displayed positive growth along the perimeter.

### Park Creek CDD Waterway Inspection Report

3/25/2019

#### **Management Summary**

Overall, the ponds within the Park Creek CDD continue to display positive results following routine treatments targeting invasive weeds, algae, and submersed vegetation. During our recent visit treatments were performed to target algae development within Ponds #1, #5, #7, #8, and #9, which will require 10-14 days for positive results to be fully evident. Shoreline weeds were also treated during our visit on the same ponds, as well as, ponds #2 and #3. Work that will be completed during our upcoming visit will include treating grasses identified within Pond #6, treating algae identified within Ponds #3 and #9, and targeting submersed Slender Spikerush along the perimeter of Ponds #4 and #10. Treatments performed during our upcoming visit will require 10-14 days for algae treatments and 14-21 days for grasses and brush to display positive results.

The conditions of the water in your lake affects the health of every living thing in it. A comprehensive consultation begins right at the water's edge so that we can understand the current state of your lake, and what to begin testing for. Color, odor, algae, plants and other living organisms, even the neighborhood around the lake will tell a biologist a lot about your lake. Lakes often show deteriorating conditions due to increased urban influences, lake aging, and declining health or overuse of traditional treatment options that no longer work. Water quality testing will encompass all these factors and provide quantitative results that can be used and compared to provide long term solutions for your lakes.

Algae is a typical, but unwanted part of our storm water retention systems. It is a natural part of the ecosystem that grows in nearly every water body creating food, habitat, oxygen, and absorbing and synthesizing nutrients and minerals. Eventually a problem may arise in that Algae is so adapted at assimilating these nutrients that a "bloom" may occur once waters reach a eutrophic state. Nutrient build up is a common issue in storm water ponds becoming the last place fertilizers, soaps, oils, and other detritus we use throughout our days end up. Once algae have entered a system with an over nutrification problem it quickly uses up all available nutrient and covers the water's surface. This unsightly layer of algae is harmful to the other aquatic life in a system as it reduces light penetration, can fluctuate oxygen levels, and could be toxic to vertebrates. Typically, treatment using algaecides and herbicides will reduce the mass of algae, but when a system has high levels of nutrients the algae that dies from treatment releases nutrients which was stored, and it becomes available for new algae to continue the same process. Lake assessments can provide much needed data displaying the current state of the lake and why it may be deteriorating so that ASI can create a plan of action.

#### **Recommendations/Action Items**

- Routine Maintenance.
- Continue to monitor all ponds for Algal growth and target on contact.
- Treat shoreline development as needed.
- Treat terrestrial grasses within Pond #6.
- Treat algae within Ponds #3, and #9.
- Monitor submersed vegetation within Ponds #4, and #10.

THANK YOU FOR CHOOSING ASI!

Aquatic Systems, Inc.

1-800-432-4302

