

PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY

Serving the Citizens of Charlotte, DeSoto, Manatee & Sarasota Counties since 1982

HON. DICK LOFTUS
CHARLOTTE COUNTY

HON. JERRY G. HILL
DESOTO COUNTY

HON. JANE W. VON HAHMANN
MANATEE COUNTY

HON. SHANNON STAUB
SARASOTA COUNTY

PATRICK J. LEHMAN, P.E., EXECUTIVE DIRECTOR

MEMORANDUM

October 9, 2008

TO: Rob Brown Bill Byle
John Ryan Victor Dotson

FROM:  Sam Stone

RE: Horse Creek Stewardship Program / Reduction in Authority Lab Cost

The Horse Creek Stewardship Program (HCSP) agreement requires Mosaic to implement the stewardship program and the Authority to oversee the project. The level of oversight by the Authority, however, is not well defined in the agreement. As such, the Authority staff and our consultants (EarthBalance[®] and PBS&J) have identified those efforts that we thought would provide sufficient and cost effective project oversight.

One area of oversight consists of bimonthly water quality sample collection by EarthBalance[®] at the same locations as Mosaic for all 21 parameters. These samples are sometimes collected with Mosaic while at other times they are collected at random.

Lab costs have increased. At current prices the 6 bimonthly sampling events at the 4 sample locations for each of the 21 total parameters will cost \$39,744 annually in lab cost alone. Of this annual cost, three parameters (Florida PRO, total amines and total fatty acids) account for 64% of the lab cost. These three parameters are related to the phosphate industry's processing, rather than mining, of phosphate. These three parameters have been monitored by the HCSP from April 2003 – Aug 2008 and have gone undetected with very few exceptions (see table below). The few times that fatty acids were detected, they were only slightly above the detection limit. These parameters also are not expected to be found in Horse Creek since Mosaic maintains that they have no processing plants in the Horse Creek watershed.

Mosaic Water Quality Summary

Sample Location	Total Samples	No. of Samples With Fatty Acids Detected	No. of Samples With Total Amines Detected	No. of Samples With FL-PRO Detected
Station 1	65	1	0	0
Station 2	65	7	0	0
Station 3	65	1	0	0
Station 4	65	1	0	0

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For these reasons, the Authority proposes to eliminate these three parameters from the Authority's project oversight sampling program for 4 of the 6 sample events. The Authority will, however, continue to sample for these parameters during two wet months (August and October). In other words, the Authority will analyze 18 parameters during 4 of the bimonthly sample events and 21 parameters for the 2 sample events that occur during the wet season. During the wet months we expect Mosaic to be discharging storm water from their outfalls, and we would have the greatest potential to detect these parameters, if present. Should processing plants be located in the basin, these parameters can be added back in at that time. This effort will reduce the Authority's annual lab cost by 43% from \$39,744 to \$ 22,728, while not compromising the intent or quality of our oversight. These parameters will continue to be analyzed on a monthly basis by Mosaic.

The Authority is requesting your concurrence on our proposed plan.

xc: Mike Coates
Jeff Clark
Ralph Montgomery