

McGee & Associates
Landscape Architecture

Project: LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Landscape Observation Report:** May 2019
Location: MSTU DISTRICT ROADWAYS
Project Manager: Dan Schumacher, Collier County Public Services Division, Public Transportation & Neighborhood Enhancements Department
Consultant: McGee & Associates **Consultant's Representative:** Michael A. McGee, rla, isa
Contractor: Commercial Land Maintenance **Contractor's Representative:** Robert Kindelan, Gary Gorden
Report Date: FY18-19, 5/7/19 **Observation Date:** 5/7/19

Report No. 8

AC - Indicates major or repeating items recommended to be discussed by the Advisory Committee
S - Indicates items to be addressed by staff. **C** - Indicates items to be addressed by Contractor
Contractor is requested to address items as soon as possible and indicate in **RESPONSE/COMMENTS** column when and which items are corrected.

Note: Copy picture out of comment boxes and then paste to additional sheet if picture is desired in larger size.

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
<u>All locations</u>		X	X	5	All areas could use new mulch.	Strikethrough indicates items that have been addressed or being addresses and will be removed from the next month's report. Yellow highlighting indicates items that need to be addressed as soon as possible for safety issues.
<u>St. Andrews Blvd. & US 41</u> <u>In bound R/W South</u>		X	X	1	Oak trees along back of sidewalk need to be pruned for structural and corrective purpose.	
<u>Out bound R/W North</u> <u>Suncoast Credit Union side of sidewalk</u>	X	X	X	12	Turf areas between the sidewalk and roadway between the Bougainvillea Silhouette and to the east of the Silhouette is non-existing with mostly bare soil exposed. Recommend removing weeds and lower soil level to 4 inches below valley gutter and then replant areas with sod type Perennial Peanut 'Ecoturf', approx. 150 sq. ft. One strip of sod east of Bougainvillea beds and three or four strips between Bougainvillea beds.	Committee Approved: _____
<u>St. Andrews Blvd.</u> <u>Median #1</u>		X	X	2	Inbound side turf area is dry. Please review irrigation coverage.	
<u>Median #2</u>					No major issues observed.	
<u>Median #3</u>	X	X		3	At address 105: On east or inbound side of median at Plumbago bed three feet (+/-) of curbing is broken and should be repaired.	Committee Approved: _____
				4	At address 105: Recommend installing (3) Alexander palms, Add (2) south of existing Washingtonia palms and (1) east of easternmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Expand the Plumbago bed 8 ft. both eastward and westward to add (12) Plumbago 3 gal. (6) on each end. Will require (4) additional spray sprinkler heads and (3) bubblers locations with (2) adjustable flood bubblers per tree.	
<u>Median #4</u>		X	X	5	At address 110: Holly tree needs corrective and structural pruning to bring lower canopy behind the back of curbing and to remove deadwood.	
				4	Auto accident on east end of median in Juniper plants. (6-7) plants damaged and need to be removed. Recommend removing Juniper back to light pole and install Perennial Peanut on end. (45-50) 1 gal. plants required. (photo)	
<u>Median #5</u>			X	19	At address 164: (2) Queen's crape myrtle leaning.	Reset and stake.
<u>Median #6</u>	X	X	X	6	At address 228: Recommend installing (3) Alexander palms, Add (2) between existing Washingtonia palms and (1) west of westernmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: _____
	X	X	X	7	At address 246: Recommend installing (3) Alexander palms, Add (2) between existing and removed Washingtonia palms and (1) east of easternmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	
		X	X	9	At address 250: (1) Ilex tree needs to be staked to straighten alignment.	
	X	X		19	At address 246: (1) Washingtonia removed.	Remove or grind stump. Option 1: Remove remaining Washingtonia palms and consider alternate replacement palms (i.e. Foxtail, Christmas, Alexander palms or Sabal). M&A 5/7/19: Stump should be flush cut or removed by excavation.
<u>Median #7</u>					No major issues observed.	



Design * Environmental Management * Planning * Arborist

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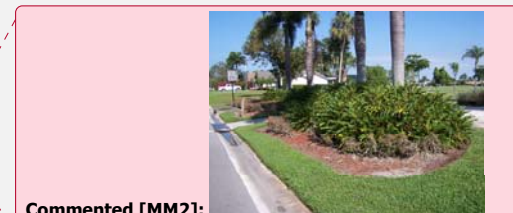
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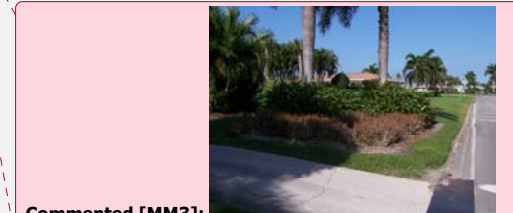
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LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
Median #8	X	X	X	4	Bougainvillea on western side of median look bad and 50% or more are dead or in heavy decline. Recommend removing remaining Bougainvillea and replanting area by expanding existing Firebush shrubs westward. (18) shrubs required planted in two rows 4' o.c., 4' off back of curbing in 3 gal. containers. Expand existing irrigation to install (6) new heads along back of curbing. Expand from zones east or west of Bougainvillea shrub bed.	Committee Approved: _____
	X	X	X	4	Bougainvillea bed east of lift station has (5) plants that are dead or in heavy decline. Recommend testing Bougainvillea for root diseases and if present or resolved then replant missing (5) dwarf Bougainvillea 'Helen Johnson' 3 gal. size.	Committee Approved: _____
Median #8A					No major issues observed.	
Median #9					No major issues observed.	
Median #10					No major issues observed.	
Forrest Hills Blvd Median #11	X	X	X	8	At address 556: Recommend installing (3) Alexander palms, Add (1) between northern existing two palms and (2) south of southernmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: _____
	X	X		19	(1) Foxtail palm on south end removed due to accident damage.	Replace with same.
Median #12	X	X	X	9	At address 407: Recommend installing (3) Alexander palms, Add (1) between northern existing two palms and (2) between south two Washingtonia palms. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: _____
	X	X		10	At address 413: East curb section has been broken just south of light pole. The north of light pole is old chipped length of curbing.	Committee Approved: _____
	X	X	X	18	At address 426: (1) Holly tree removed. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B	Consider replacement with same or Crape myrtle tree. M&A 5/7/19: Replace with Holly tree. Committee Approved: _____
Forest Hills Cart Crossing & Lake	X	X	X	16	Crown of thorn in all plant beds should be considered for replacement with perennial peanut. (Photo)	M&A: 3/12/19 Southeast corner would require (23) plants. Southwest corner would require (53) plants, Northwest corner would require (71) plants, Northeast corner would require (37) plants, (184) 1 gal. 18" o.c., 36" off pavements and Xanadu plants. Committee Approved: _____
Valley Stream Cr. Median #13		X	X	10	Pigmy date palm on north end has Ganoderma fungus and must be removed.	
	X	X	X	11	Recommend adding (2) Tabebuia 'Ipe' trees to median one on each end. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B	Committee Approved: _____
Pebble Beach Blvd. Median #14					No major issues observed.	
Median #15	X	X	X	18	At address 32: (1) Holly tree needs to be removed and replacement considered. Crape Myrtle 'Muskogee', 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.). Will require (1) bubblers locations with (2) adjustable flood bubblers per tree.	Replace with crape myrtle species. Committee Approved: _____
Median #16	X	X	X	12	At address 59/64: (1) Holly tree needs to be replaced. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B.	Committee Approved: _____
	X	X	X	13	At address 64: Recommend installing (3) Adonidia (Christmas palm) palms, Add (1) to south side of light pole #8 and (2) to north side of light pole #8. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: _____
Median #17	X	X	X	19	At address 132: (2) Sabal palms with broken trunks.	Remove and replace with same. M&A: 6/12/18 hole filled and ready for replacement planting. M&A: 11-5-18 Approx. (9) Plumbago shrubs are dead or missing at the location where the tree was removed. Committee Approved: _____
	X	X	X	19	At address 124: (1) Tabebuia 'Ipe' remove.	Replace with same or crape myrtle species. M&A 5/7/19: Remove tree by excavation. Replace with same - Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B. Committee Approved: _____



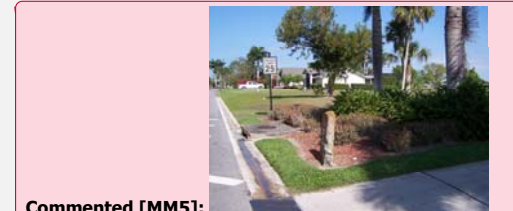
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	X	X	X	19	At address 116: (1) Sabal palms with broken trunks needs to be removed.	Remove and replace with same. M&A: 6/12/18 hole filled and ready for replacement planting. Committee Approved:
Median #18			X	14	On south end prune and/or remove auto damaged Juniper plants and provide count for replacements. 3 gal. size.	
	X	X	X	17	At address 164: (1) Washingtonia removed.	Flush cut or grind stump. Option 1: Consider removal of all remaining Washingtonia palms and replant with smaller palms (i.e. Foxtail, Alexander, Christmas palms) M&A: 6/12/18 hole filled and ready for replacement planting. M&A 5/7/19: Add (1) Adonidia palm in removed Washingtonia palm location. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (1) bubblers locations with (2) adjustable flood bubblers per tree. Committee Approved:
Median #19	X	X	X	3	Recommend adding (10) additional 1 gal. size Perennial Peanut plants to existing planting on east end.	Committee Approved:
Pebble Beach Blvd. Golf Cart Crossing		X	X	15	Southeast corner: Existing Spider lily plants are in decline. It appears to be fungus or herbicide related. (10 +/-) plants are missing and/or dead. (photo)	
	X	X	X	19	North side west end:	M&A: 01/09/18 Recommend replacement of previous removed Foxtail palm due to decline of existing Eucalyptus tree after hurricane Irma. Committee Approved:
Thorncrest Ln. cul-de-sac #20		X	X	6	(18) perimeter Bougainvillea shrubs have been runover. Recommend removing outer damaged plants and let inner row of plants grow outward toward curbing.	
		X	X	19	(3) Sabal palms removed. (5) dwarf Bougainvillea missing.	Grind or remove stumps and replace missing Sabal with the same. Replant missing Bougainvillea. M&A: 11-5-18 Recommended replacing only (2) Sabal palms that are furthest away from ex. manhole in the middle of the circle. A total of (8) Bougainvillea are missing in the middle of the bed. M&A 5/7/19: On hold until rainy season 2019.
Briarcliff Ln. Cu-de-sac #21	X	X		18	(1) Sabal palms removed. Hurricane debris storage and removal has caused about 60 dwarf Bougainvillea plants to be removed and/or damaged to the point of replacement.	Grind or remove stumps and replace missing Sabal with the same. Replant missing Bougainvillea. M&A: 11-5-18 Approx. (27) total shrubs should be replanted. Plant no shrubs closer than 5 feet off back of curbing. M&A 5/7/19: On hold until rainy season 2019.
Heather Grove Ln. Cul-de-sac #22						
Baltusrol Signs	X	X	X	16	Recommend removing Crown of thorn beds and replace with Perennial Peanut. (Photo)	M&A: 3/12/19 Northside would require (49) plants, Southside would require (62) plants, (111) 1 gal. 18" o.c., 36" off turf, plants or pavements. Committee Approved:
	X	X	X	17	On south side it appears (4 or 5) Plumbago have died and should be replaced.	Committee Approved:
Doral Cr. East R/W	X	X		6	Recommend large open joints between pavers and valley gutter have polymer sand applied to fill large gaps.	Committee Approved:
	X	X		19	(1) Yellow Tabebuia tree uprooted. Remove and replace with Golden Tabebuia tree.	Option 1: remove and replace with same. M&A 5/7/19: Based upon cross walk sign relocation replacement is not recommended. Committee Approved:
	X	X		48	(1) Golden Tabebuia tree second from Rattlesnake Hammock needs corrective and structural pruning to create new main leader.	
	X	X	X	19	(1) 50 ft. gray wood Royal palm has bud broken out. Remove and replace with smaller Royal palm. 4 th from Rattlesnake Hammock	M&A 5/7/19: remove stump and replace with 10 ft. clear trunk Royal palm. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree. Committee Approved:
West R/W & Rattlesnake Hammock Rd.			X		Second Foxtail palm from Doral needs review for additional fertilizer and/or nutrients.	
		X	X	6	Recommend large open joints between pavers and valley gutter have polymer sand applied to fill large gaps.	Committee Approved:
		X	X	11	Remove and replace (2) Podocarpus shrubs at previous motorcycle accident location. 15 or 25 gal. container to match existing.	M&A: 9/11/18 Dead or damaged plants removed.
		X	X	17	All broken and damaged tree branches hanging over the Podocarpus hedge should be removed.	M&A: 8/7/18 Multiple tree branches are overhanging the Podocarpus hedge and over the sidewalk. The Podocarpus hedge is being shaded which will result in thinning and the less than 10-foot height branches over a sidewalk is not permitted.



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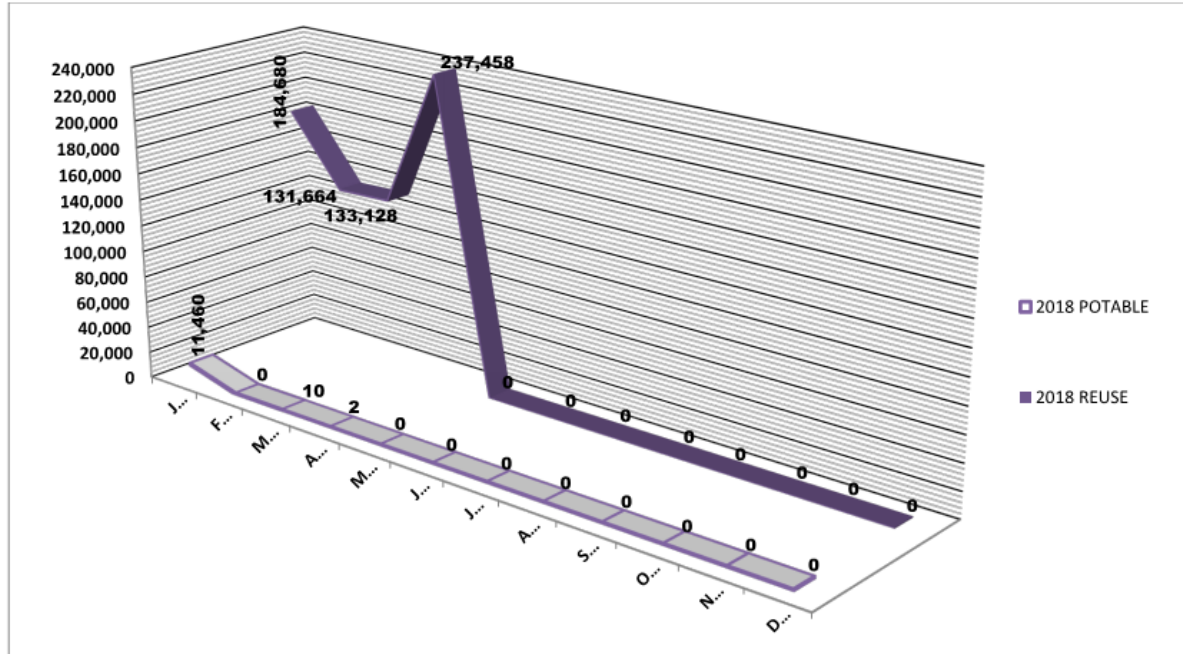
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LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
		X	X	26	34 54 +/- Blueberry Flax lilies are declined, dead and/or missing in the bed along Rattlesnake Hammock Rd. These plants were planted and maintained by the contractor. Replacements should be installed.	M&A: 4/10/18 Well over 505 of the Flax lily are dead or missing. Recommend complete removal of all Flax lily and replacement with one row of Yellow African Iris 1 gal. size set 4 ft. off back of sidewalk and 4 ft. on center. (53) plants recommended. If two small area (less than 5 sq. ft.) of turf on the eastern end are removed an additional 3 plants will be required. M&A 9/11/18 less than 10 Flax lily remain.
Median #23					No major issues observed.	
		X	X	8	Crown of thorn on south end east side have been run over. Prune away damage.	M&A: Approx. 10-12 plants have been damaged and will need to be replaced.
Median #24 Treasure Point Cul-de-sac					No major issues observed.	
Warren St. Pumping Station					Reuse water leak was observed at meter and reported to Staff on 5/2/19. Repairing observed on 5/6/19.	
Fertilization		X	X		Refer to schedule for requirements.	

Lely Golf Estates Beautification MSTU Reuse Mixing Chamber Annual Water Use thru 4/19



Notes: 2014 Total Water Use: Reuse-2,336,976 gallons, Potable- 0
 2015 Total Water Use: Reuse - 1,795,449 gallons, Potable - 8,602 gallons
 09/2016 Potable water meter readings not complete. 11/9/16 Meter cleaned and readable
 2016 Total Water Use: Reuse 936,041 gallons, Potable 7,788 gallons.
 2017 Total Water Use: Potable water amounts amended to corrected totals. Reuse 594,189 gal., Potable 981,815 gal.
 2018 Total Water Use: Reuse 1,965,840 gallons, Potable 270,200 gallons

5/7/2019

Warren Street Mixing Chamber Water Use Data: 4/2019								
DATE	REUSE PSI	POTABLE WATER METER READING (X 100)	POTABLE WATER USE GALLONS	REUSE WATER METER READING (X x 100)	REUSE WATER USE GALLONS	PUMP STATION METER READING (X100)	TOTAL WATER PUMPED	TOTAL WATER APPLIED
4/1/2019	100	27,937.90		101,458.92		130,536.67		-
4/9/2019	80	27,937.92	2.00	102,021.07	56,215.00	131,016.34	47,967.00	56,217.00
4/22/2019	80	27,937.92	-	102,914.04	89,297.00	131,701.51	68,517.00	89,297.00
5/5/2019	86	27,937.92	-	103,833.50	91,946.00	132,271.00	56,949.00	91,946.00
								-
TOTALS:			2.00		237,458.00		173,433.00	237,460.00
PERCENTAGE OF TOTAL VOLUME USED			0.0%		100.0%		100.0%	

Valley Stream Circle Water Use Data: 4/2019			
DATE	POTABLE WATER METER READING (X 1)	POTABLE WATER USE GALLONS	BERMAD WATER METER READING (X x 100)
4/1/2019	817340.99		Register not functioning
4/9/2019	819710.66	2370	
4/22/2019	824190.94	4480	
5/5/2019	827540.45	3350	
TOTALS:		10,199	

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LELY GOLF ESTATES MSTU FY 18-19 MINIMUM FERTILIZATION SCHEDULE				
Plant Type	Turf / St. Augustine	Palms, Shrubs & Grn. Covers Beds	Perennial Peanut Beds	Blooming Plants
Areas	(7,000 S.F. +/-)	(13,500 S.F. +/-)	(300 S.F. +/-)	(43,800 S.F. +/-)
Month				
10/1/2018	8-2-12-180 (Florikote Palm Special) 25 lb. per 1000 S.F. (4 - 50 lb. bags) (Applied N= 2.0 lbs./1,000 SQ. FT.)	8-2-12-180 (Florikote Palm Special) 15 lb. per 1000 S.F. (4 - 50 lb. bags) (Applied N= 1.2 lbs./1,000 SQ. FT.) 5 & 10 lbs. per Palm tree (25 - 50 lb. bags)	0-0-22-225-11Mg 4.6 lbs. per 1000 S.F. (1.5 lbs.)	14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
11/1/2018				20-20-20 2.5 lbs./25 gal. H2O per 1000 S.F. (108 lbs.)
12/1/2018	OPTIONAL: 21-0-0 2.2 lbs. per 1000 S.F. (1 - 25 lb. bags)			
1/1/2019	Sul-Po-Mag (0-0-22) (K-mag Natural) 1.5 lb. per 1000 S.F. (2 - 50 lb. bags)	Sul-Po-Mag (0-0-22) (K-mag Natural) 1 lb. per 1000 S.F. (3 - 50 lb. bags)		14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
2/1/2019				20-20-20 2.5 lbs./25 gal. H2O per 1000 S.F. (108 lbs.)
3/1/2019				
4/1/2019	8-2-12-180 (Florikote Palm Special) 25 lb. per 1000 S.F. (4 - 50 lb. bags) (Applied N= 2.0 lbs./1,000 SQ. FT.)	8-2-12-180 (Florikote Palm Special) 15 lb. per 1000 S.F. (4 - 50 lb. bags) (Applied N= 1.2 lbs./1,000 SQ. FT.) 5 & 10 lbs. per Palm tree (25 - 50 lb. bags)	0-0-22-225-11Mg 4.6 lbs. per 1000 S.F. (1.5 lbs.)	14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
5/1/2018				
6/1/2018			0-0-22-225-11Mg 4.6 lbs. per 1000 S.F. (1.5 lbs.)	
7/1/2019				
8/1/2019	Sul-Po-Mag (0-0-22) (K-mag Natural) 1.5 lb. per 1000 S.F. (2 - 50 lb. bags)	Sul-Po-Mag (0-0-22) (K-mag Natural) 1 lb. per 1000 S.F. (3 - 50 lb. bags)	0-0-22-225-11Mg 4.6 lbs. per 1000 S.F. (1.5 lbs.)	Sul-Po-Mag (0-0-22) (K-mag Natural) 1 lb. per 1000 S.F. (3 - 50 lb. bags)
9/1/2019				
Blooming Plants - Bougainvillea, Fire Bush, Thryallis, Plumbago, Crown of Thorn				
Add to pest and/or disease control sprayings for shrubs and turf: Ferromec AC 15-0-0 plus 6% iron,				
3% sulfur @ 1.5 gal./100 gal. H2O. Do not apply to any flower buds or blossoms in flower.				
Alexander, Foxtail & Queen palms: 5 lbs. per palm, Paurotis & Royal palms: 10 lbs. per palm				
- Indicates period for no Nitrogen or Phosphorus applications.				