

STX EE WATERSHEDS

RETROFITS



Site Name/ID: Cheesburgers SG-R-1

Watershed: Southgate

Date: 1/24/11

Assessed by: Kris + Anne

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Land Use: Public Private Unknown:

Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: RESTURANT

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
- No formal drainage infrastructure - Swale along road. Some erosion/channeling evident in gravel parking lot draining from dumpster to street.
- Stabilization along gut in rear (SG-61)

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

<p>Area Draining to Retrofit</p> <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input checked="" type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe):	<p>Drainage Area to retrofit ≈ _____ acres/sq ft</p> <p>Imperviousness ≈ _____%</p> <p>Impervious Area ≈ _____ acres/sq ft</p>
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
 Demonstration / Education Repair Other:

<p>Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other:</p>	<p>Describe conflicts: <u>NONE</u></p>
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership <input checked="" type="checkbox"/> Confirm drainage area/impervious cover <input type="checkbox"/> Confirm volume computations <input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Obtain existing as-builts/site plans <input type="checkbox"/> Obtain utility mapping <input type="checkbox"/> Obtain detailed topography <input checked="" type="checkbox"/> Confirm soil types <input type="checkbox"/> Confirm storm drain invert elevations <input type="checkbox"/> Other:
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PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

- ① swale out front & corner landscape area, could be a bio
- ② across street at container @ 36" Seven Seas

Sketch and/or Sizing Calcs:

SEE AERIAL

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

HOTSPOT/POLLUTION PREVENTION



Site Name/ID: Cheeseburgers

Watershed: _____

Date: _____

Assessed by: _____

EXISTING CONDITIONS

Contact Information/location:

Land Use: Commercial Industrial Institutional Municipal Golf Course Transport-Related
 Marina Animal Facility Other:

Basic Description of Operation:
Restaurant

Existing stormwater management on-site? Unknown No Yes, describe:
Condition of drain inlets on-site: None Good Need maintenance

Evidence of riparian/wetland buffer encroachment: Unknown No Yes, describe: no riparian vegetation to gut

Potential pollutants associated with:
 Vehicular operations (fueling, storage, maintenance)
 Waste management (dumping)
 Outdoor material storage (uncovered, leaking, no secondary containment)
 Landscaping (over fertilizing, irrigation)
 Building/parking lot maintenance (washdowns)
 Other:

Pollutant of concern?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity of Problem: Low Medium High NO PROBLEM
Describe Conditions:

grease trap looks fine, dumpster clean / on concrete pad

PROPOSED RESTORATION ACTIVITIES

- Cruzan Environmental - pump out every couple of months
- wastewater combined with condos in back
- parking lot does not flood; sometimes gets drainage back to SG-RC3
- pump out station
- booms at fuel pumps. covers over fuel pumps

NEXT STEPS

SKETCH

STX EE WATERSHEDS

RETROFITS



Site Name/ID: Southgate Condos R2

Watershed: SOUTHGATE

Date: 1/29/11

Assessed by: ACK & KRIS

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: CONDOS

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
paved & gravel lot w no formal drainage infrastructure
 drainage currently goes to grassed areas,
 maybe good site for demo rain gardens.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP
 island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

<p>Area Draining to Retrofit</p> <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe):	<p>Drainage Area to retrofit ≈ _____ acres/sq ft</p> <p>Imperviousness ≈ _____ %</p> <p>Impervious Area ≈ _____ acres/sq ft</p>
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
 Demonstration / Education Repair Other:

<p>Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other:</p>	<p>Describe conflicts: <u>Private</u></p>
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership <input type="checkbox"/> Confirm drainage area/impervious cover <input type="checkbox"/> Confirm volume computations <input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Obtain existing as-builts/site plans <input type="checkbox"/> Obtain utility mapping <input type="checkbox"/> Obtain detailed topography <input checked="" type="checkbox"/> Confirm soil types <input type="checkbox"/> Confirm storm drain invert elevations <input type="checkbox"/> Other:
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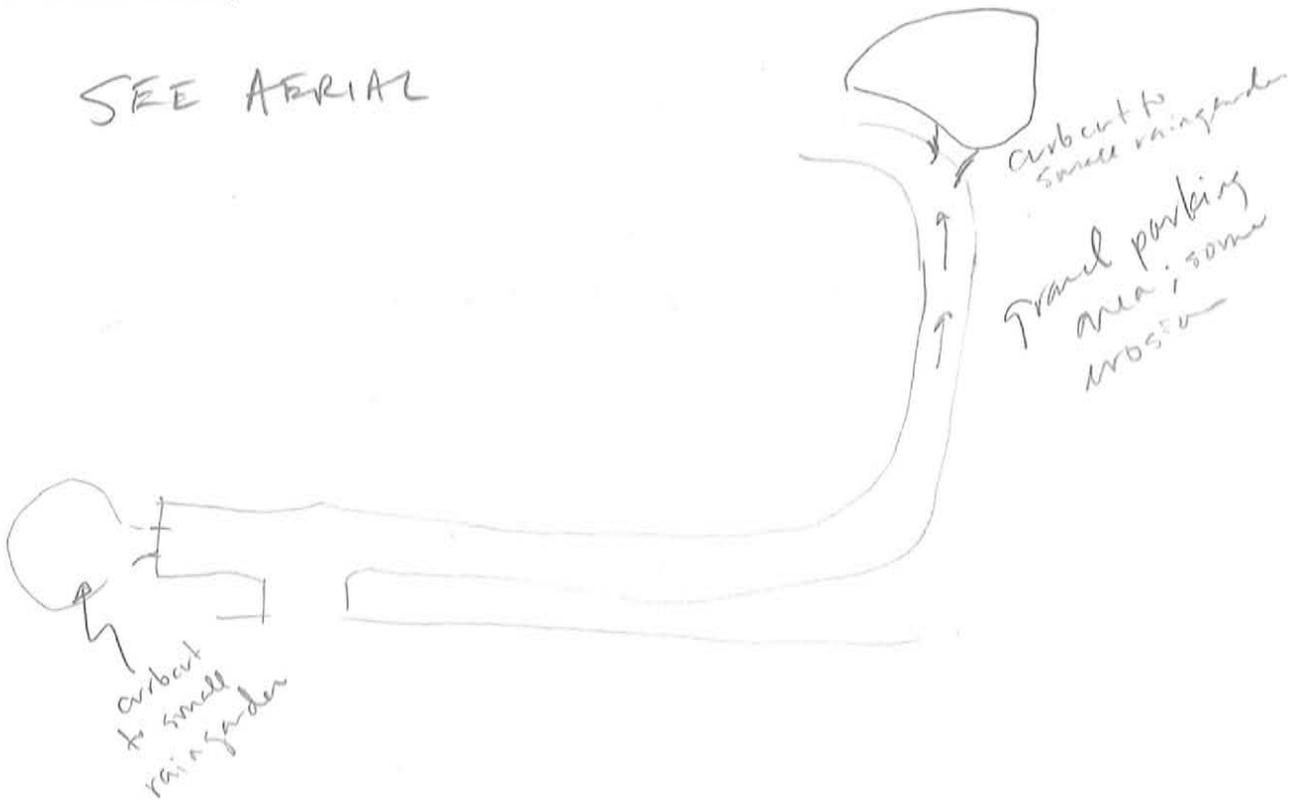
PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Excavate Raingardens at two locations along existing paved areas — simple curb cut to allow drainage into practice.

Sketch and/or Sizing Calcs:

SEE AERIAL



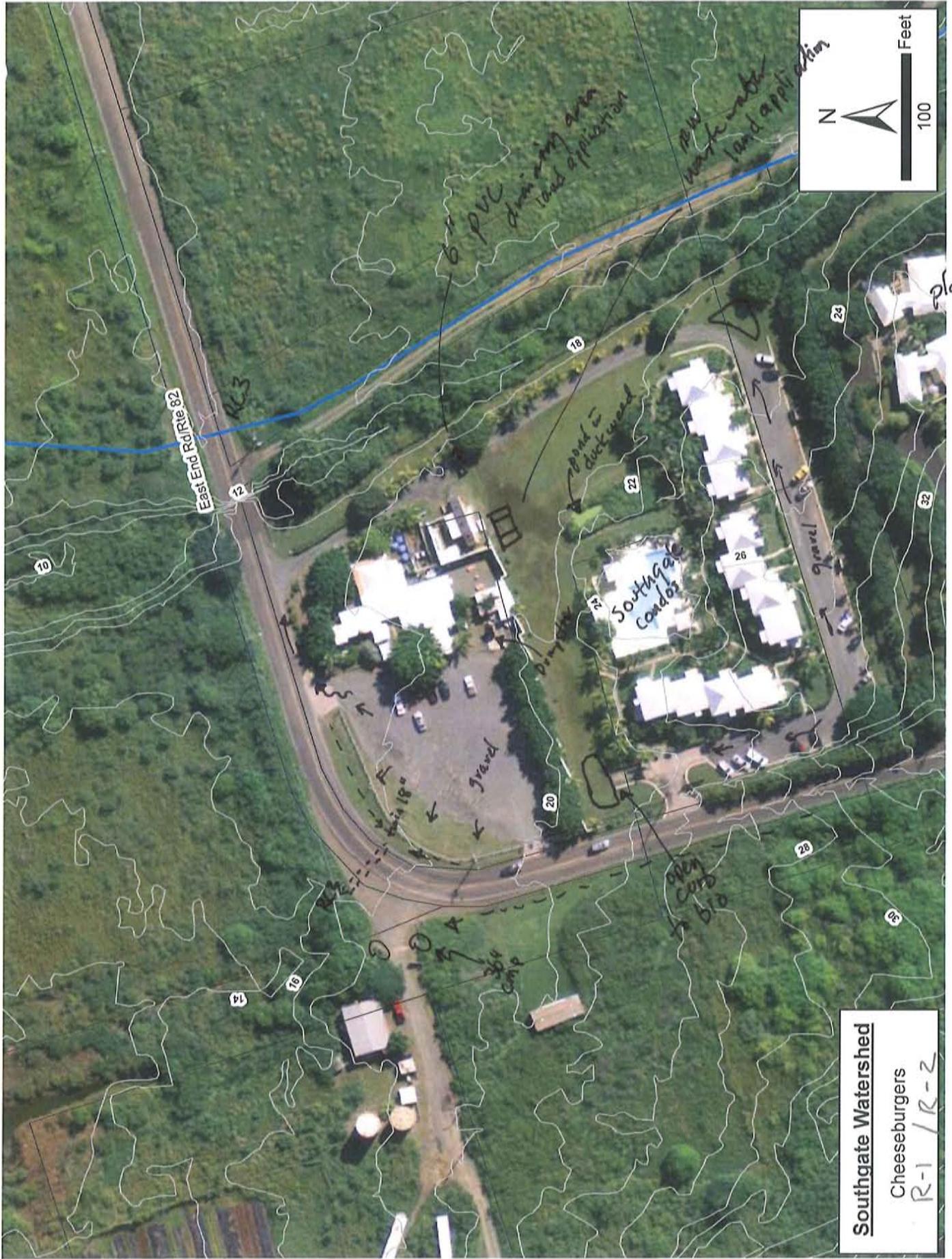
Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

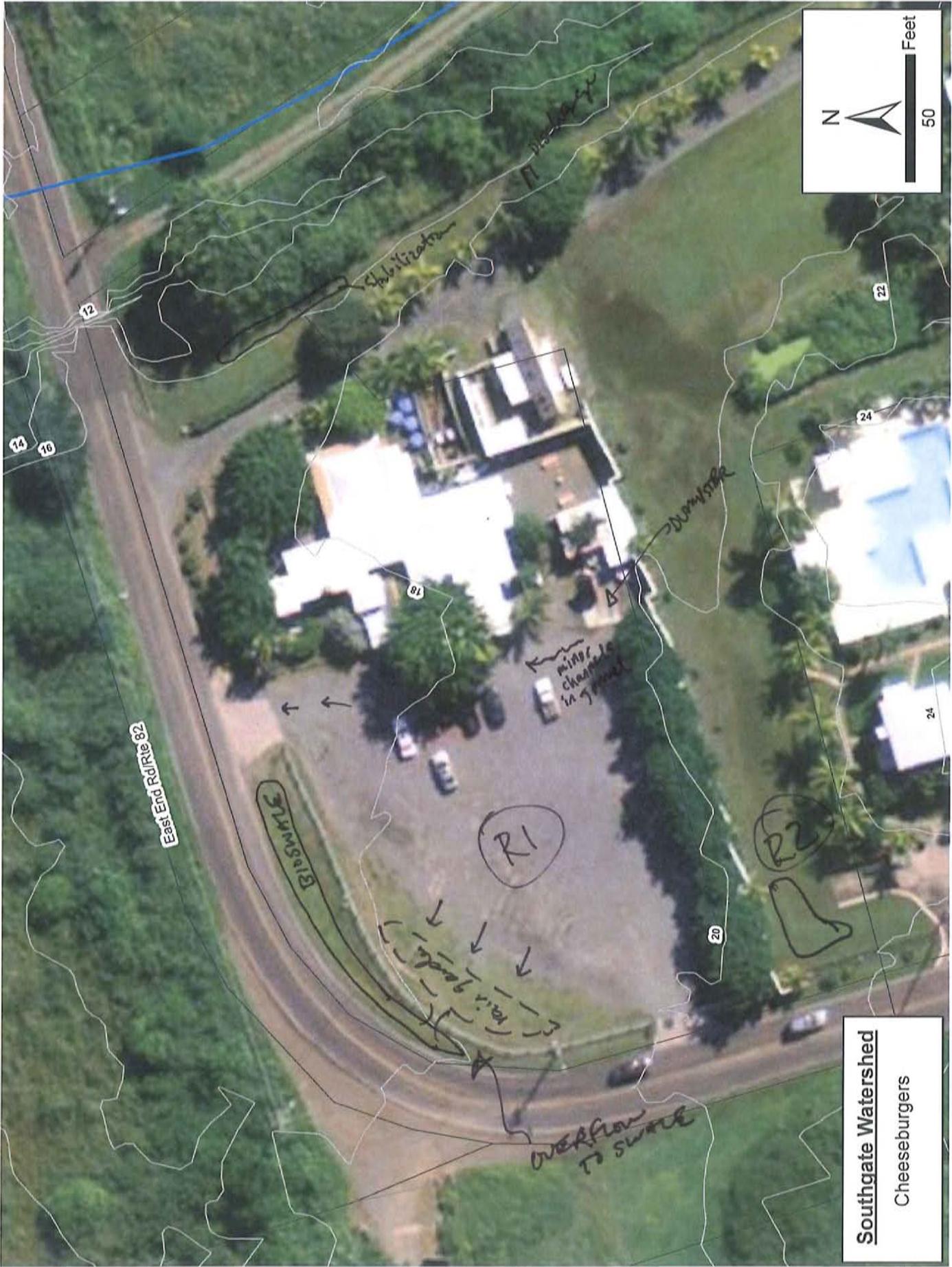
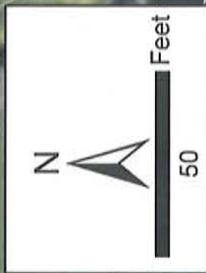
→ would be more maintenance than turf grass but could be attractive landscaping for residents

Thoughts on Maintenance Burden: Low Medium High

Condo Association?



Handwritten notes, possibly bleed-through from the reverse side of the page. The text is extremely faint and illegible.



Southgate Watershed
Cheeseburgers



STX EE WATERSHEDS

RETROFITS



Site Name/ID: Sl 3 TAMARIND / Green Cay Marina Watershed: Southgate

Date: 1/24/11 Assessed by: Kris & Anne

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Martin Oliver Ronda / Edwin Mathman guy

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: HOTEL

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
parking area draining to open channel, no treatment staining on parking lot

12" drain pipe at drop inlet / discharges at PVC under bulkhead on dock

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe): proprietary

Area Draining to Retrofit <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe):	Drainage Area to retrofit ≈ _____ acres/sq ft Imperviousness ≈ _____ % Impervious Area ≈ _____ acres/sq ft
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other:

Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other:	Describe conflicts:
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership <input type="checkbox"/> Confirm drainage area/impervious cover <input type="checkbox"/> Confirm volume computations <input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Obtain existing as-builts/site plans <input type="checkbox"/> Obtain detailed topography <input type="checkbox"/> Confirm storm drain invert elevations <input type="checkbox"/> Other:	<input type="checkbox"/> Obtain utility mapping <input type="checkbox"/> Confirm soil types
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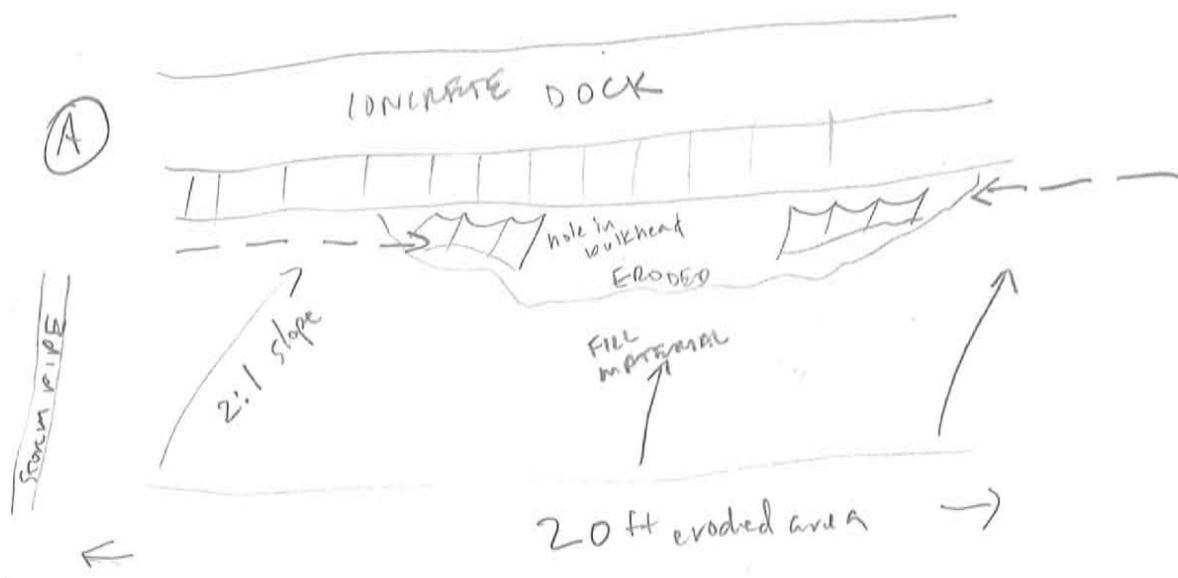
PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

- A → repair bulkhead. provide drain inlet, erosion control matting ~~with~~ for swale
- B → demo raingarden at existing low point in lot (lots of sediment accumulation) existing 4" PVC drain pipe at end of swale
- C → "pretreatment sptic tank" at existing inlet; at open channel. 12" outlet pipe 23 1/4" sedimentation in.

Sketch and/or Sizing Calcs:

SEE AERIAL



Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

HOTSPOT/POLLUTION PREVENTION



Site Name/ID: Marina, H1

Watershed: _____

Date: _____

Assessed by: _____

EXISTING CONDITIONS

Contact Information/location:

see Retrofit R2

Land Use: Commercial Industrial Institutional Municipal Golf Course Transport-Related
 Marina Animal Facility Other:

Basic Description of Operation:

Existing stormwater management on-site? Unknown No Yes, describe:

Condition of drain inlets on-site: None Good Need maintenance → ONE INLET HAS SEDIMENT

Evidence of riparian/wetland buffer encroachment: Unknown No Yes, describe:

MARINA.

Potential pollutants associated with:

- Vehicular operations (fueling, storage, maintenance)
- Waste management (dumping) TRASH
- Outdoor material storage (uncovered, leaking, no secondary containment)
- Landscaping (over fertilizing, irrigation)
- Building/parking lot maintenance (washdowns)
- Other:

Pollutant of concern?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

Severity of Problem: Low Medium High

Describe Conditions:

154 SLIPS; 6-10 LIVE ABANDONS 1980 constr.
 BULKHEAD BLOWOUTS ABOUT 4 YRS.

-BOAT FUELING

- NOT A BOAT REPAIR YARD, BUT MINOR BOAT WASHDOWNS, ETC DO OCCUR

- IRRIGATION W/ WASTEWATER GREYWATER

→ BOAT PUMPOUTS → LIFT STATION → WWTP (includes hotel) 46-38 active units

PROPOSED RESTORATION ACTIVITIES

- DRINKING WATER FROM SEVEN SEAS

spill prevention plan on-site / booms @ fuel pumps, 1 pump covered

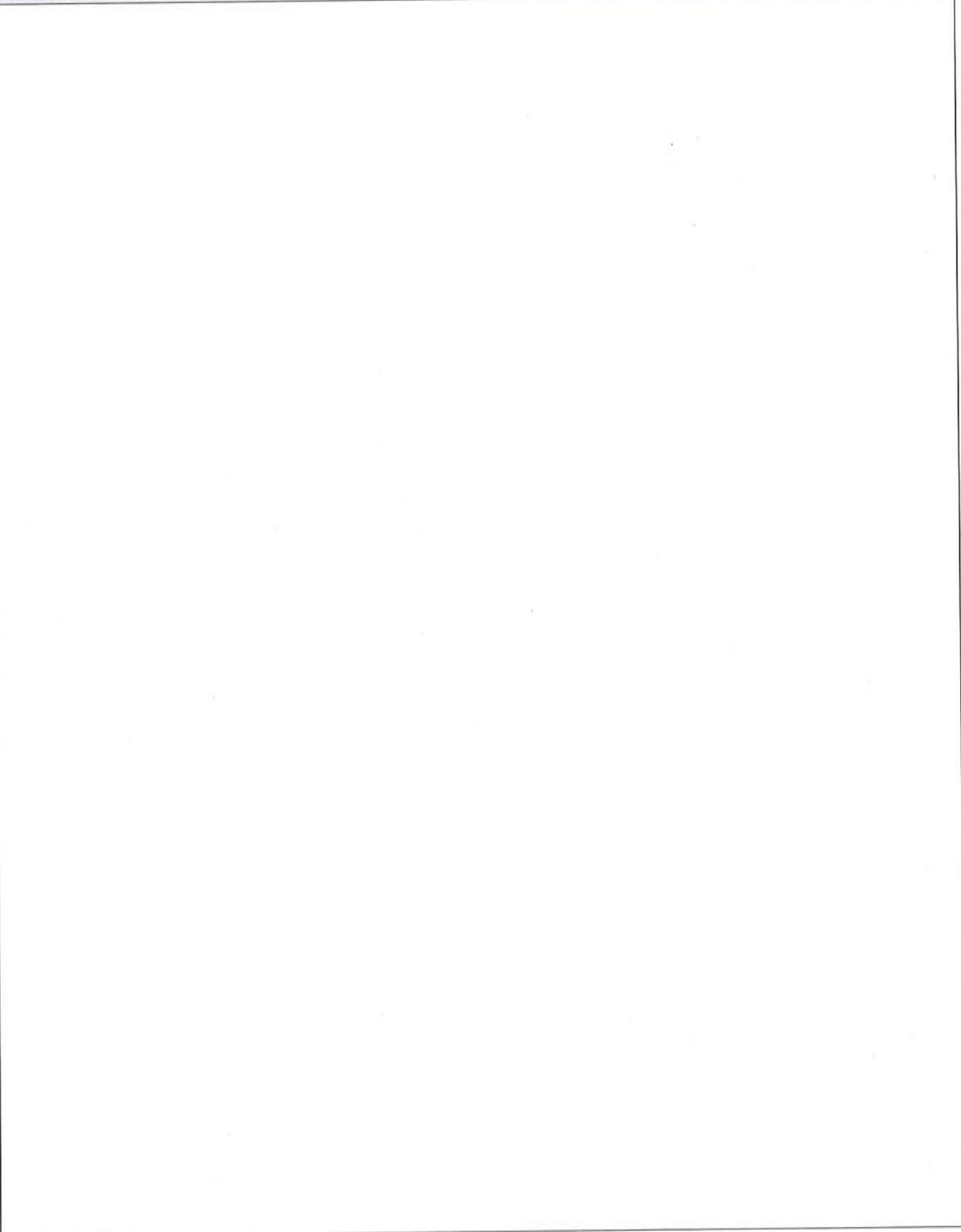
Ocean Systems → WQ sampling

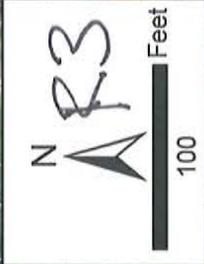
① TRASH CONTAINMENT SYSTEM → right on wetland, needs back/sides/covers

- grease trap at restaurant not seen

NEXT STEPS

SKETCH





Southgate Watershed
 Tamarind Reef
 Hotel

RS



STX EE WATERSHEDS

RETROFITS



Site Name/ID: SG R4 / SG R5

Watershed: Southgate

Date: TAMARIND ENTRANCE 1/24/11
SOUTHGATE RD

Assessed by: ACK, KH

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: SWALES ALONG ROWS - Tennis court ad in
Median areas. (R4) (R5)

Land Use: Public Private Unknown: ROW along Tamarind Reef Hotel i entrance to marina.

Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: _____

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
turf ROW areas, water ponds for long time
Marina has dug a swale on one side to help improve drainage.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe): _____

<p>Area Draining to Retrofit</p> <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input checked="" type="checkbox"/> Street <input checked="" type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe): <u>DRIVEWAYS</u>	<p>Drainage Area to retrofit ≈ _____ acres/sq ft</p> <p>Imperviousness ≈ _____ %</p> <p>Impervious Area ≈ _____ acres/sq ft</p>
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other: IMPROVE DRAINAGE

<p>Possible Conflicts due to: <input checked="" type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other: _____</p>	<p>Describe conflicts: <u>Fence & palm</u> <u>NO INFILTRATION</u></p>
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

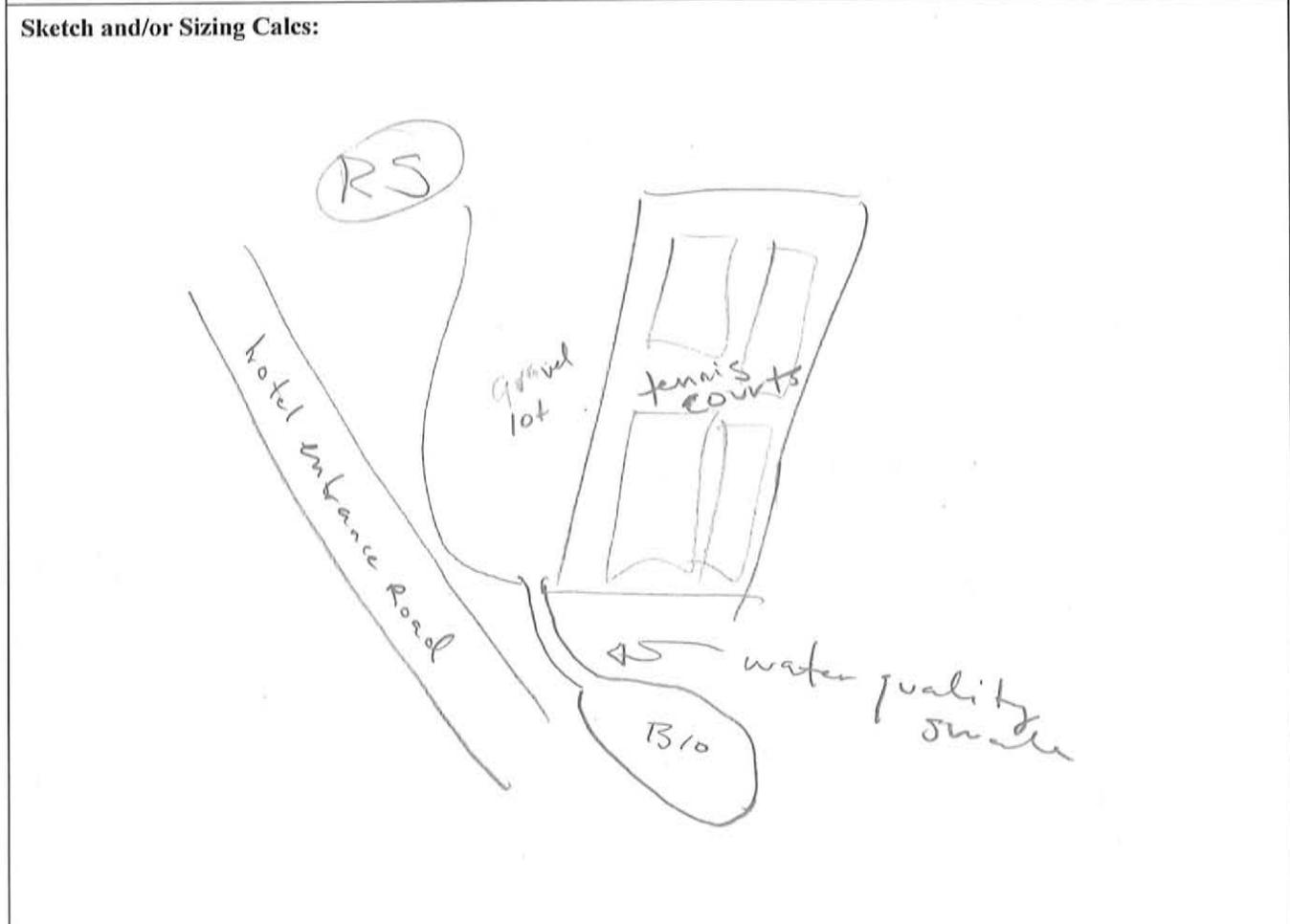
<input type="checkbox"/> Confirm property ownership	<input type="checkbox"/> Obtain existing as-builts/site plans	<input type="checkbox"/> Obtain utility mapping
<input type="checkbox"/> Confirm drainage area/impervious cover	<input type="checkbox"/> Obtain detailed topography	<input type="checkbox"/> Confirm soil types
<input type="checkbox"/> Confirm volume computations	<input type="checkbox"/> Confirm storm drain invert elevations	
<input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Other: _____	

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

R4 - bio swales with median to capture road runoff and treat prior to discharge in wetland

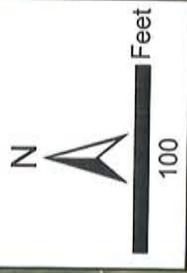
R5 - small raingarden/bio at edge of tennis court to capture runoff from gravel lot. high visibility



Existing Head Available/Where Measured:

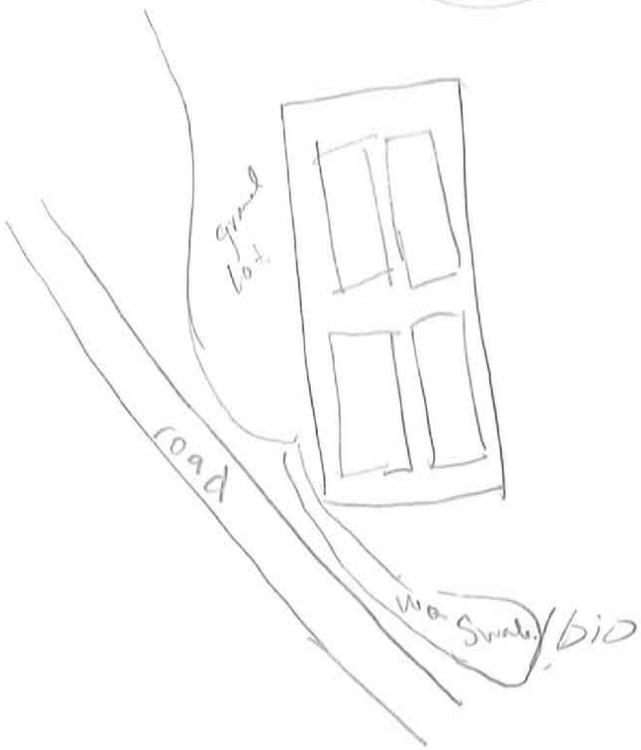
Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Southgate
Road to **R4**
Tamirand

R5



STX EE WATERSHEDS

RETROFITS



Site Name/ID: Southgate Baptist Church

Watershed: Southgate

Date: SG-R-6

Assessed by: Kris + Anne

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: Church

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
No real issues,

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP
 island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

<p>Area Draining to Retrofit</p> <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe):	<p>Drainage Area to retrofit ≈ _____ acres/sq ft</p> <p>Imperviousness ≈ _____%</p> <p>Impervious Area ≈ _____ acres/sq ft</p>
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other:

<p>Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other:</p>	<p>Describe conflicts:</p>
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership <input type="checkbox"/> Confirm drainage area/impervious cover <input type="checkbox"/> Confirm volume computations <input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Obtain existing as-builts/site plans <input type="checkbox"/> Obtain detailed topography <input type="checkbox"/> Confirm storm drain invert elevations <input type="checkbox"/> Other:	<input type="checkbox"/> Obtain utility mapping <input type="checkbox"/> Confirm soil types
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PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

RETROFITS



Site Name/ID: R20 Cheney Bay
 Date: 1/23/11

Watershed: Southgate
 Assessed by: Kris + Anne

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Diane Yost
Frank - maintenance
Mirko - wastewater / engineer

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: _____

Is the site a hotspot? Yes No Unknown:
 Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
No existing treatment. Parking lot drains directly to wetland. Trash in wetland. New concrete channels near restaurant to convey runoff from path/roofs discharge to grass. Could be nice area for rain garden demo.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe): _____

Area Draining to Retrofit <input type="checkbox"/> Hotspot <input checked="" type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input checked="" type="checkbox"/> other small impervious area <input type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe): _____	Drainage Area to retrofit ≈ _____ acres/sq ft Imperviousness ≈ _____ % Impervious Area ≈ _____ acres/sq ft
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Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other: _____

Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input checked="" type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other: _____	Describe conflicts: <u>PRIVATE PROPERTY - may not have interest</u>
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NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership	<input type="checkbox"/> Obtain existing as-builts/site plans	<input type="checkbox"/> Obtain utility mapping
<input type="checkbox"/> Confirm drainage area/impervious cover	<input type="checkbox"/> Obtain detailed topography	<input type="checkbox"/> Confirm soil types
<input type="checkbox"/> Confirm volume computations	<input type="checkbox"/> Confirm storm drain invert elevations	
<input type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Other: _____	

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, approx. surface area/ depth of treatment, conveyance structures):

- ① bio/rain garden & restaurant
- ② parking lot retrofit
- ③ trash/buffer enhancement
- ④ dumpster management
- ⑤ questionable WWTP in wetland/buffer

Sketch and/or Sizing Calcs:

SEE AERIAL

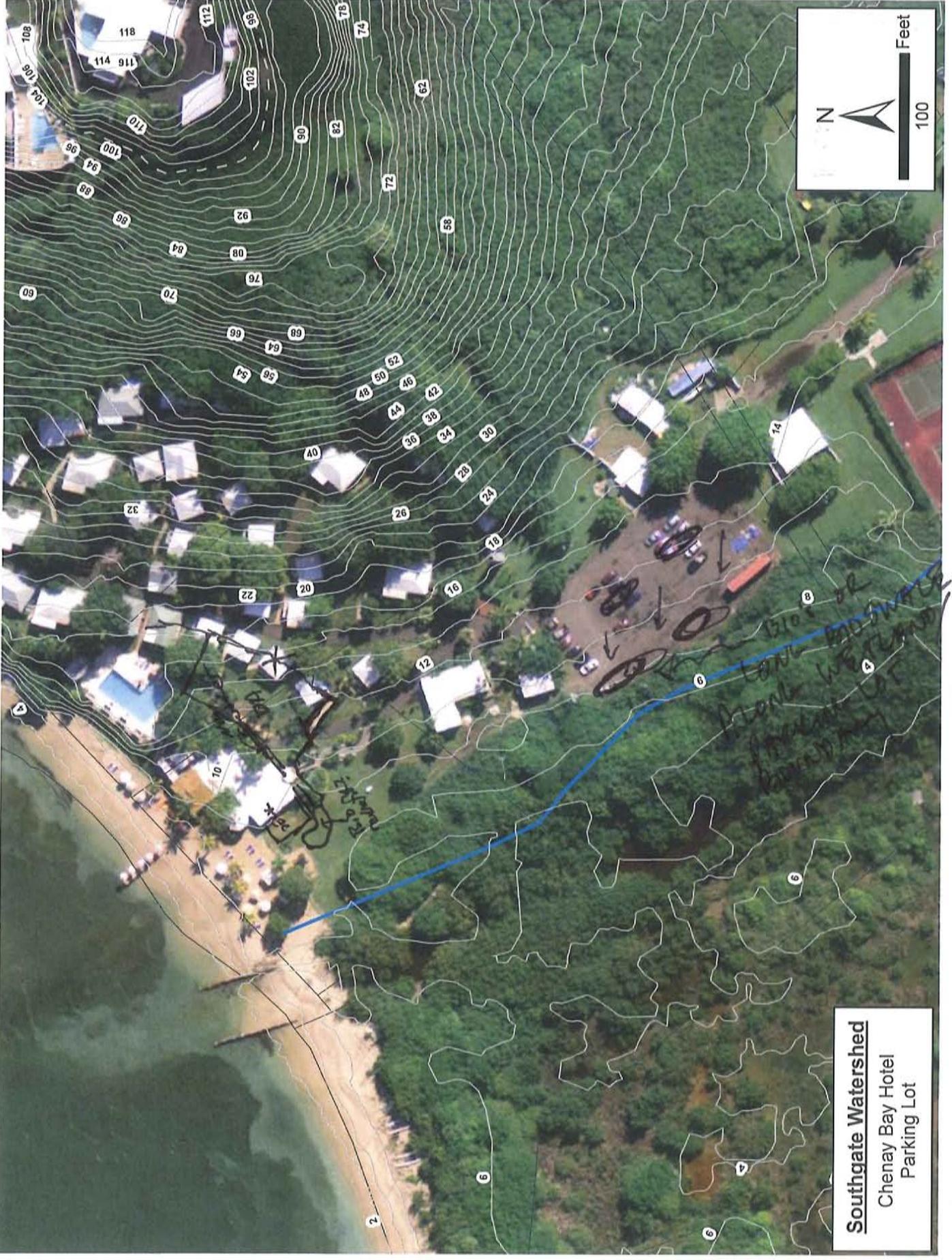
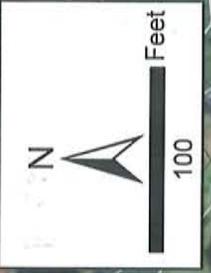
Bios on Bioswale along edge of parking lot
could also help reduce trash dumping in the
adjacent wetland. Consider as a buffer
enhancement project.

* Also met w/ Mirko Restivo on site. He
reviewed WWTP upgrades, etc.

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Southgate Watershed
Chenay Bay Hotel
Parking Lot

100
100

100



Site Name/ID: SG-61
 Date: _____

Watershed: _____
 Assessed by: _____

EXISTING CONDITION

LAND OWNER CONTACT INFO: cheesboroughs

LAND OWNERSHIP: Private Public Unknown
 LAND COVER: Forest Field/Ag Developed:
 LIVESTOCK ON SITE: Yes No Unknown #: _____ LIVESTOCK HAVE CURRENT GUT ACCESS: Yes No
 DRAINS TO DOWNSTREAM IMPOUNDMENT OR POND: Yes No Unknown

EROSION
 Channelized

TYPE:
 Downcutting
 Widening
 Headcutting

 Bed scour
 Bank erosion

BANK OF CONCERN: LT RT Both (looking downstream)
LOCATION: Meander bend Straight section Steep slope/valley wall Other:
DIMENSIONS: ABOVE CULVERT RC3
 Length (if no GPS) LT 30 ft and/or RT _____ ft Bottom width _____ ft
 Bank Ht LT 4 ft and/or RT _____ ft Top width 10 ft
 Bank Angle LT 90° and/or RT _____° Wetted Width _____ ft

THREAT TO PROPERTY/INFRASTRUCTURE: No Yes (Describe):

RIPARIAN AREA

EXISTING RIPARIAN WIDTH (NO STRUCTURES): <25 ft 25 - 50 ft 50-75ft 75-100ft >100ft

DOMINANT COVER

	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other:
LT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DESCRIBE:

WETLANDS PRESENT: Yes No Unknown

DESCRIBE EXISTING PROBLEM

Section in Schuster's property has bank failure and eroded 5-10 ft. Banks appear well vegetated.

some headcutting / 1ft drop
 lots of veg in channel

30ft 4ft 2 1/2 exposed bank

EROSION SEVERITY

Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.	Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.
5	4	3

ACCESS:

Good access: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair access: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult access. Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.
5	4	3

NEXT STEPS:

- bank sloughing
 - irrigation line threatened.

high flows backing up and causing some erosion.
 low priority

RESTORATION CONCEPT:

NARRATIVE

Due to good vegetated cover, gut restoration
in Schuster's property may not be necessary,
Solutions could be done for section of gut
next to main roadway,

SKETCH:

INITIAL FEASIBILITY AND NOTES:



Site Name/ID: East Gut SG-62
 Date: 1/25/11

Watershed: South gate
 Assessed by: AK + KMH

EXISTING CONDITION

LAND OWNER CONTACT INFO:
May Corwell Adams

LAND OWNERSHIP: Private Public Unknown
LAND COVER: Forest Field/Ag Developed:
LIVESTOCK ON SITE: Yes No Unknown #: _____ **LIVESTOCK HAVE CURRENT GUT ACCESS:** Yes No

DRAINS TO DOWNSTREAM IMPOUNDMENT OR POND: Yes No Unknown Pond then into ocean

<input checked="" type="checkbox"/> EROSION <input checked="" type="checkbox"/> Channelized	TYPE: <input checked="" type="checkbox"/> Downcutting <input checked="" type="checkbox"/> Widening <input checked="" type="checkbox"/> Headcutting	BANK OF CONCERN: <input type="checkbox"/> LT <input type="checkbox"/> RT <input checked="" type="checkbox"/> Both (<i>looking downstream</i>)
	<input type="checkbox"/> Bed scour <input checked="" type="checkbox"/> Bank erosion	LOCATION: <input type="checkbox"/> Meander bend <input type="checkbox"/> Straight section <input type="checkbox"/> Steep slope/valley wall <input type="checkbox"/> Other: DIMENSIONS: Length (if no GPS) LT _____ ft and/or RT _____ ft Bottom width <u>25</u> ft Bank Ht LT <u>15-20</u> ft and/or RT <u>10-15</u> ft Top width <u>30-40</u> ft Bank Angle LT <u>80-90</u> ° and/or RT <u>80-90</u> ° Wetted Width _____ ft

THREAT TO PROPERTY/INFRASTRUCTURE: No Yes (Describe):
Headcutting nearby upstream. Cobble/rocks may not be able to ingress property.

EXISTING RIPARIAN WIDTH (NO STRUCTURES): ≤25 ft 25 - 50 ft 50-75ft 75-100ft >100ft

RIPARIAN AREA	DOMINANT COVER	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other:
	LT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	RT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DESCRIBE: Grass for livestock grazing, Shrubs over much of property.

WETLANDS PRESENT: Yes No Unknown

DESCRIBE EXISTING PROBLEM
Cave placed in 1990's -
 Headcut ~15' deep and ~30-40' wide.

EROSION SEVERITY	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.	Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.
	5	4	1
ACCESS:	Good access: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair access: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult access. Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.
	5	4	1

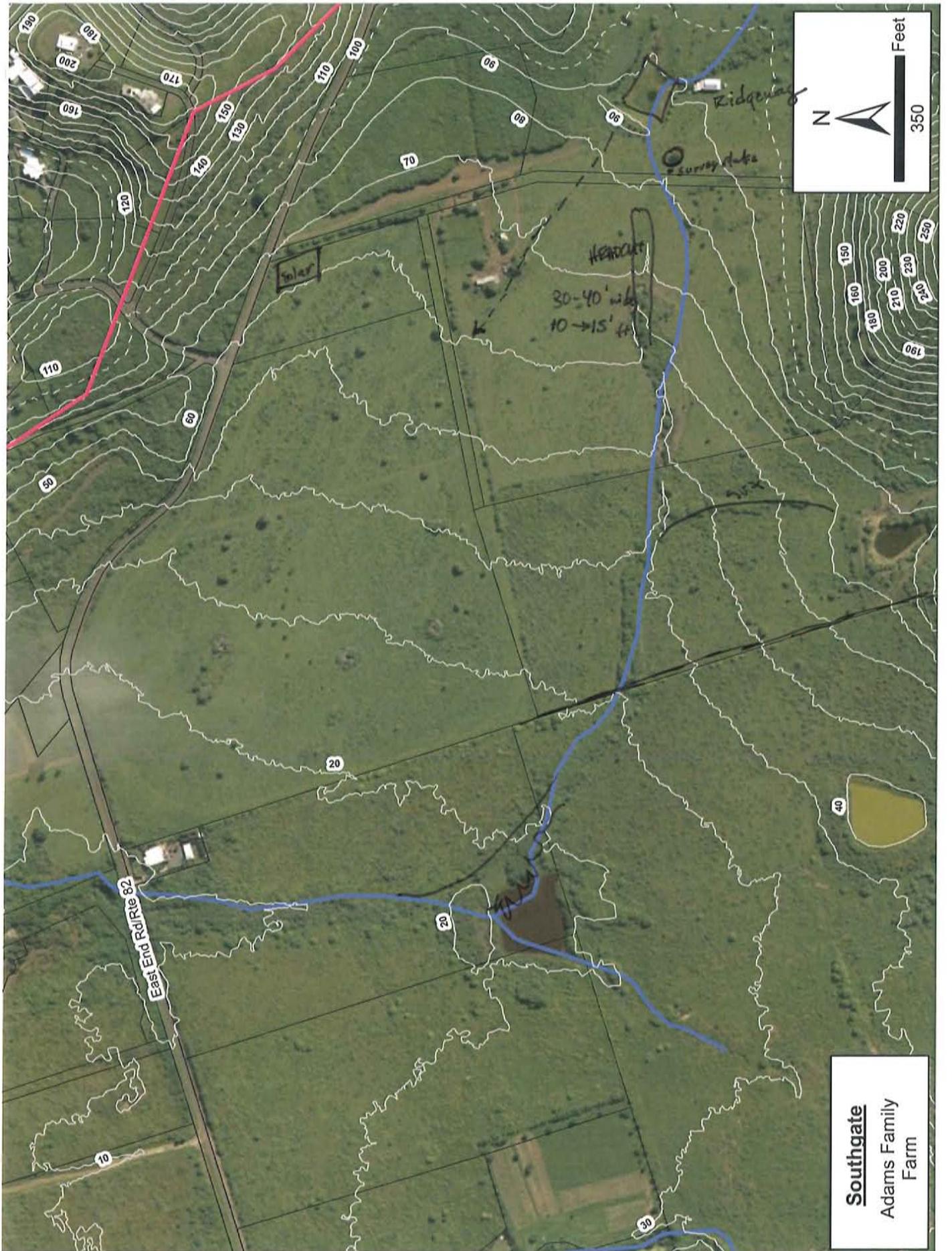
NEXT STEPS:

RESTORATION CONCEPT:

NARRATIVE

SKETCH:

INITIAL FEASIBILITY AND NOTES:



Southgate
Adams Family
Farm



Site/Road Name/ID: SG RC-1 / 2
 Date: East End Rd by Cheeseburgers

Watershed: Southgate
 Assessed by: _____

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input checked="" type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>18</u> (ft) ② 36" Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain): ① Almost total blockage... but doesn't seem to flood road ② A lot of drainage comes thru here			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:

① VEG COVERED ON UPSTREAM IN DITCH OUTSIDE CHEESEBURGERS, CRUSHED ON DOWNSTREAM FORD

② 36" at Seven Seas → PIPING if veg blockage

pvc water HAS SEPTIC LINE RUNNING THROUGH IT.
 <1" or 2" of available capacity

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER: Roy @ Seven Seas

pretty simple backhoe / drainage maintenance
 good source pretreatment

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SG-RC-3 Watershed: Southgate

Date: WEST GUT BEHIND CHEESEBURGERS Assessed by: MW

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input checked="" type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input checked="" type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>8</u> (ft) Height: <u>5</u> (ft) Culvert length: <u>428"</u> (ft) Width: _____ (ft) Roadway elevation: <u>8</u> (ft)
	CONDITION: (Evidence of...) <input checked="" type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <i>far right culv.</i>	
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input checked="" type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (> 75%)	ACCESS/USE: <input type="checkbox"/> Private <input checked="" type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: <u>40</u> (ft) Drive lane: <u>12</u> (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input checked="" type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input checked="" type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input checked="" type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input checked="" type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain): <u>None</u>			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW <input checked="" type="checkbox"/> NONE			

DESCRIPTION OF EXISTING CONDITIONS: at gut near cheeseburgers
relatively new culvert in good condition - approx 5" sediment accumulated
discharge pipe leading from cheeseburgers (3" PVC) - irrigation system runs
parallel to gut

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

New, last 3 years. major improvement
water would come up to base of palm
trees. small drain erosion area
upstream near gate.

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SG RCL4-5

Watershed: SG

Date: 5 Shore Rd / Trippary Area

Assessed by: Ave/Chris

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>(3)24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) <i>goes under road</i> Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input checked="" type="checkbox"/> Other (describe): <u>some vegetation</u>		CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	IS IT FLOWING? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input checked="" type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Unknown Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Unknown					

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input checked="" type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> Low			

DESCRIPTION OF EXISTING CONDITIONS:

1/4 -> 1/2 blocked w veg.
one

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

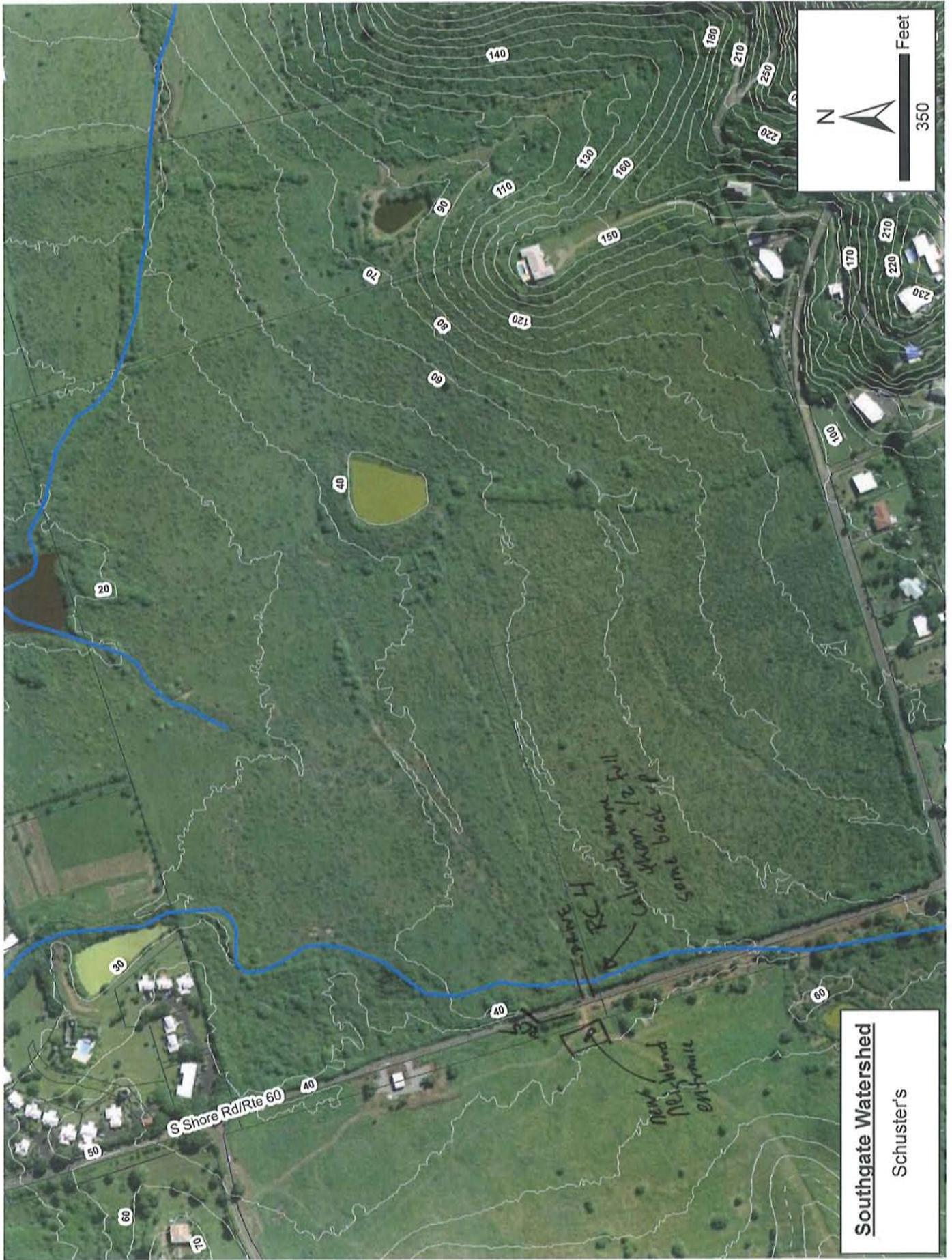
REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Southgate Watershed

Schuster's



Site/Road Name/ID: SG-RC-6
 Date: Crescent Beach Rd

Watershed: South Gate
 Assessed by: Kris

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:			
	Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other:			
	Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			

DESCRIPTION OF EXISTING CONDITIONS:
undersized, causing erosion of gut.

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SG-RC-20
 Date: EE rd / BAPTIST CHURCH

Watershed: SG
 Assessed by: AKK & KRIS

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>15"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: <u>2</u> (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input checked="" type="checkbox"/> Med <input type="checkbox"/> Low (Explain): <p style="text-align: center;"><i>completely blocked, but unsure if a significant road flooding issue</i></p>			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SG - RC 21 EAST GUT CULVERTS

Watershed: South Gate

Date: 1/25/11

Assessed by: Kris & Anne

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input checked="" type="checkbox"/> Arch 2 <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular 1 <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>(2) 50</u> (ft) ARCHES CIR 18" RCP Height: <u>36</u> (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input checked="" type="checkbox"/> Other (describe): <u>SINKHOLES</u>		CULVERT SLOPE: <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Slight (2-5%) <input type="checkbox"/> Steeper			
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete					
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> Low			

DESCRIPTION OF EXISTING CONDITIONS:

SINKHOLES BEHIND HEADWALLS/DETERIORATING HEADWALL

UPSTREAM
7' 12' 7' 6ft tall

DOWNSTREAM 31' x 15" wide 5ft tall - FINE SEDIMENT

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

ADD TO DPW LIST

- SINK HOLE 20' x 40'
- drains to East gut Adams property

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SRCL-22
te: near Good Hope school 4/25/11

Watershed: Southgate
Assessed by: Kris & Anne

EXISTING CONDITION

<input type="checkbox"/> CULVERTS <u>No culvert</u>	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: _____ (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input checked="" type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input checked="" type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input checked="" type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input checked="" type="checkbox"/> Med <input type="checkbox"/> Low (Explain): <u>will break back to road at discharge location</u>			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
top of Schusters gut. / Restoration
-concrete swale, drop inlet, speed bump
out fall

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

11/20/17
Sewerage system

Sketch:

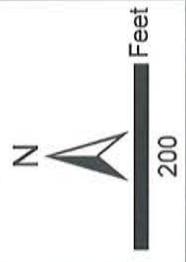
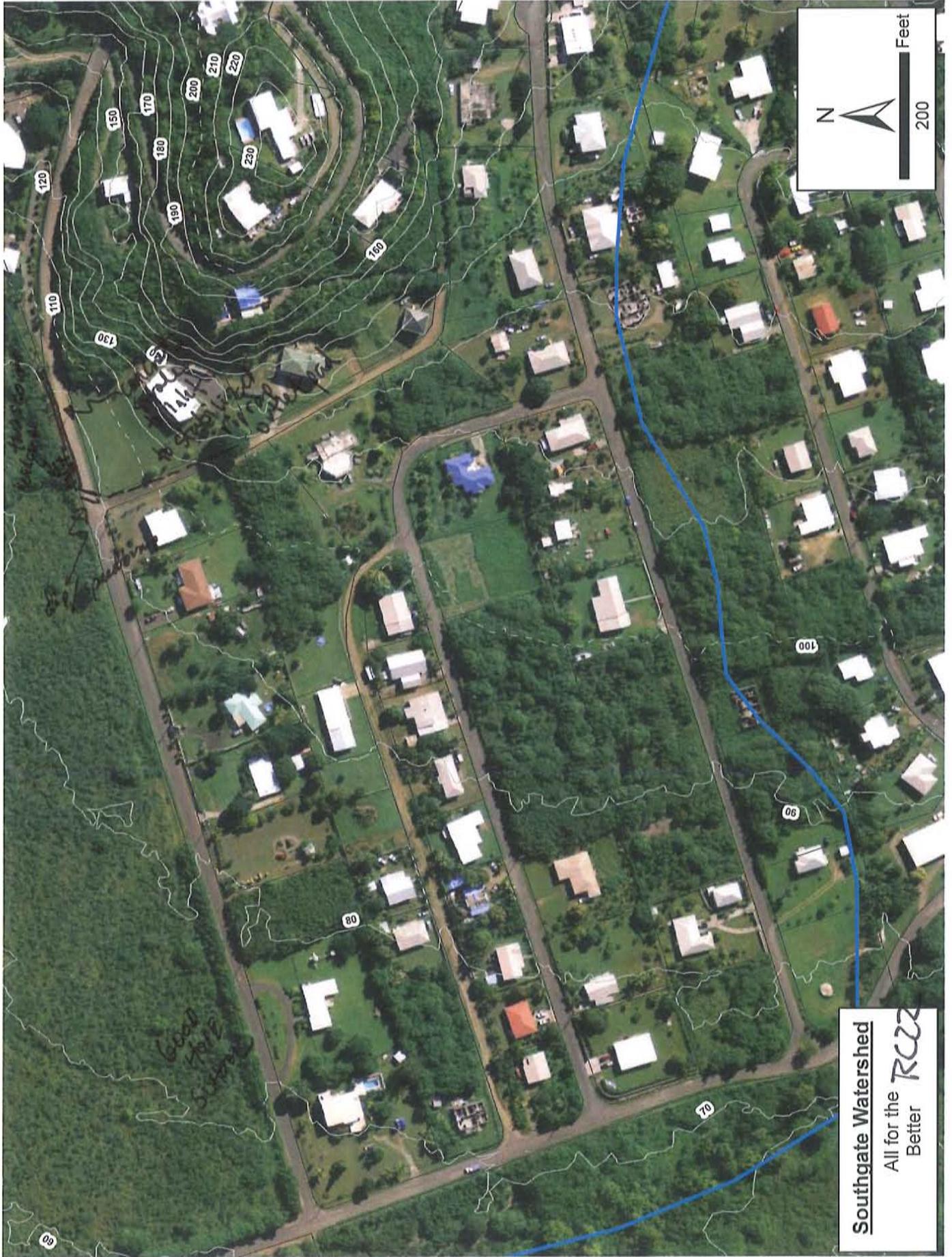
Sketch of

11/20/17
Sewerage system

11/20/17
Sewerage system

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Southgate Watershed
All for the **RCR**
Better

Handwritten: Good 4/12 Survey

Handwritten: 110 120 130 140 150 160 170 180 190 200 210 220 230

100

80

80

70

80

Handwritten scribbles and faint markings, possibly a signature or initials, located in the upper right quadrant of the page.

Faint handwritten text or markings in the lower left area.

Faint handwritten text or markings in the lower right area.



Site/Road Name/ID: SG-RC-30
 Location: Along S Shore Rd.

Watershed: SG
 Assessed by: Kris / Anne

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input checked="" type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input checked="" type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input checked="" type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
 Low priority, basic veg. maintenance/debris removal
 cml deterioration, probably put in first
 >50% submerged w slow pools.
 concrete channel 6 1/2 wide 5 ft deep at headwall

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

downstream / upstream worked good.

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: RC 31/32

Watershed: SG

te: 1

Assessed by: AKK & KH

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Other: <u>DIP</u>	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
New culverts put in / or replaced in December to help alleviate neighborhood "aquifer ooze".

NEXT STEPS

Potential Repair Candidate? YES NO OTHER: *DEMO ON BETTER METHOD TO DO THIS*

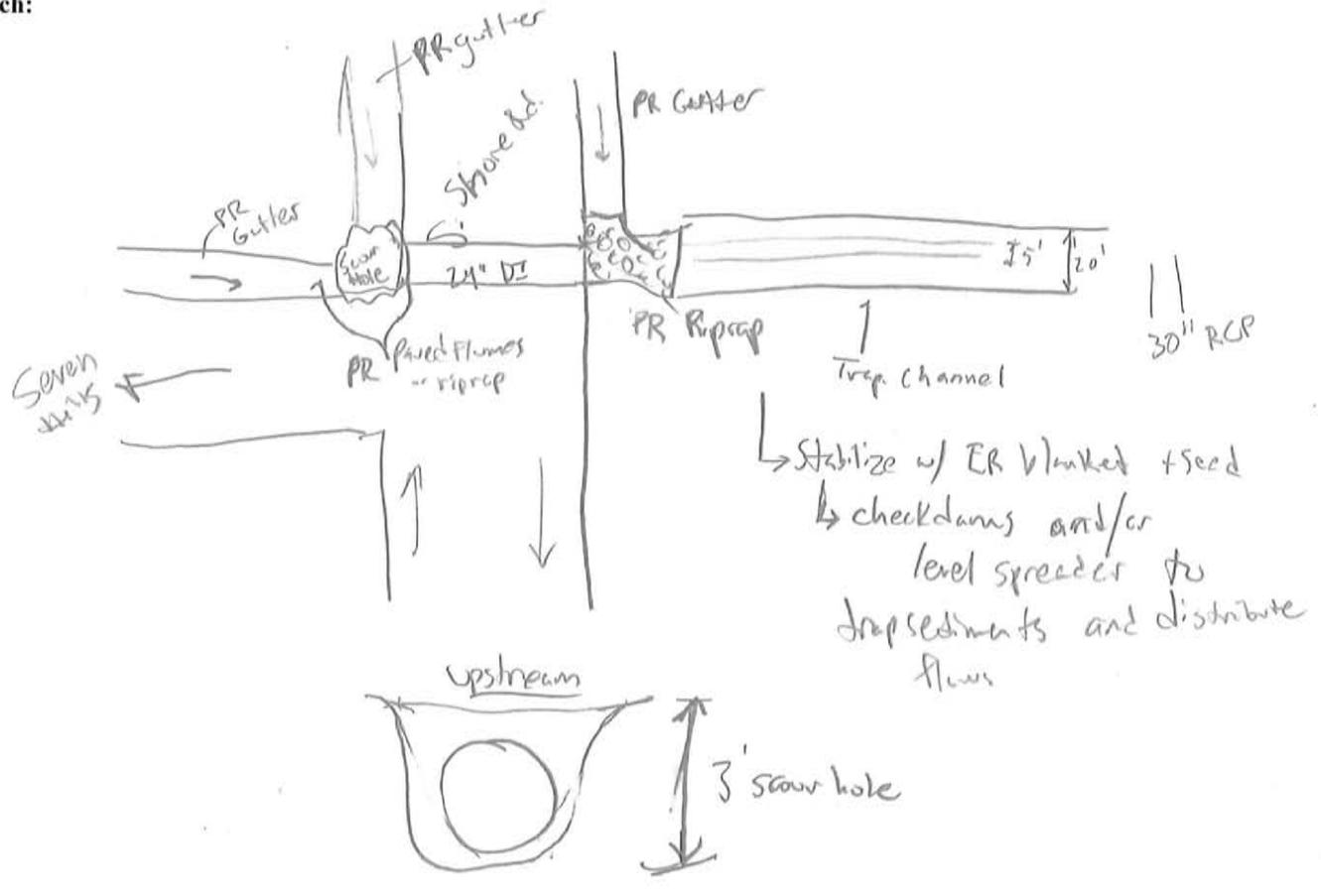
CONTACT DPW; LANDOWNER HOA; OTHER: *cheap quick fix*

REPAIR/IMPROVEMENT CONCEPT

Narrative:

at outlet pipe install concrete box w weir to act as sed. forebay and level spreader. ECB

Sketch:



Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: RC 35 / 36
 Date: 5/24/2016

Watershed: SG
 Assessed by: KMS / Anne

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) RC-35 Barrel diameter: <u>12" (ft)</u> Height: _____ (ft) RC-36 Culvert length: <u>18" → 15" (ft)</u> Width: _____ (ft) <i>changes diameter</i> Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input checked="" type="checkbox"/> Other (describe): <u>BROKEN</u>			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
 IN ROADSIDE DITCH, NOT HIGH IMPORTANCE, BUT COMPLETELY BLOCKED.
 #. RC 36 also single RCP, blocked at downstream end → may be intentional by homeowner to reduce flow across property.

NEXT STEPS

Potential Repair Candidate? YES NO OTHER: low priority

CONTACT DPW; LANDOWNER HOA; OTHER:

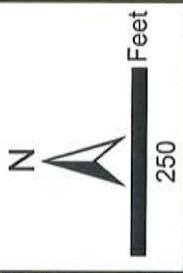
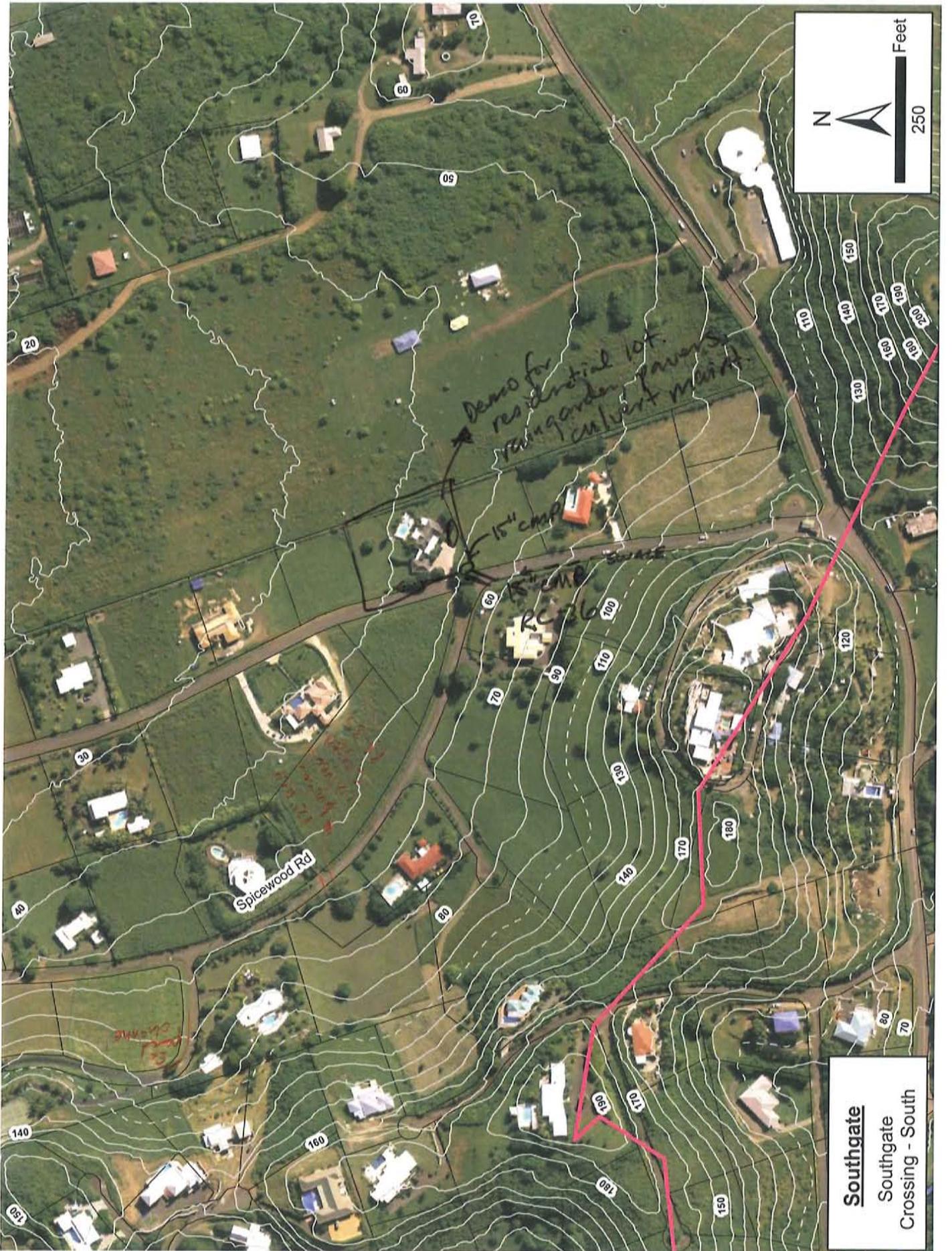
REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Southgate
Southgate
Crossing - South

STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: Southgate Crossing (FARM)

Watershed: Southgate
Assessed by: AKK & KRIS

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names: Southgate Rd? / Spicewood

Approximate Neighborhood Area (acres) _____ # of lots ~40 (# or % undeveloped >50%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe): ACTIVE CLEARING

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:
one area where resident added curbing

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare 55% turf 5% landscape(include trees) 30% rooftop 10% driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:
A few examples of eroded driveways, one example of permeable pavers

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution? Severity: Low Medium High
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading lawn? septic?
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

NEXT STEPS

need some culvert maintenance

PROPOSED RESTORATION ACTIVITIES

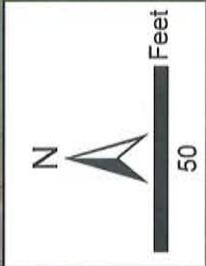
Neighborhood-wide Actions:

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> On-site retrofit potential individual lots? | <input type="checkbox"/> Better lawn/landscaping practices? | <input checked="" type="checkbox"/> Other action(s): |
| <input checked="" type="checkbox"/> Street ROW retrofit <input type="checkbox"/> Pond retrofit | <input type="checkbox"/> Household hazardous waste | <i>culvert maintenance</i> |
| <input type="checkbox"/> Parking Lot retrofit | <input type="checkbox"/> Septic improvements | |

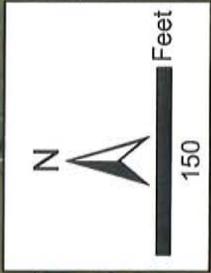
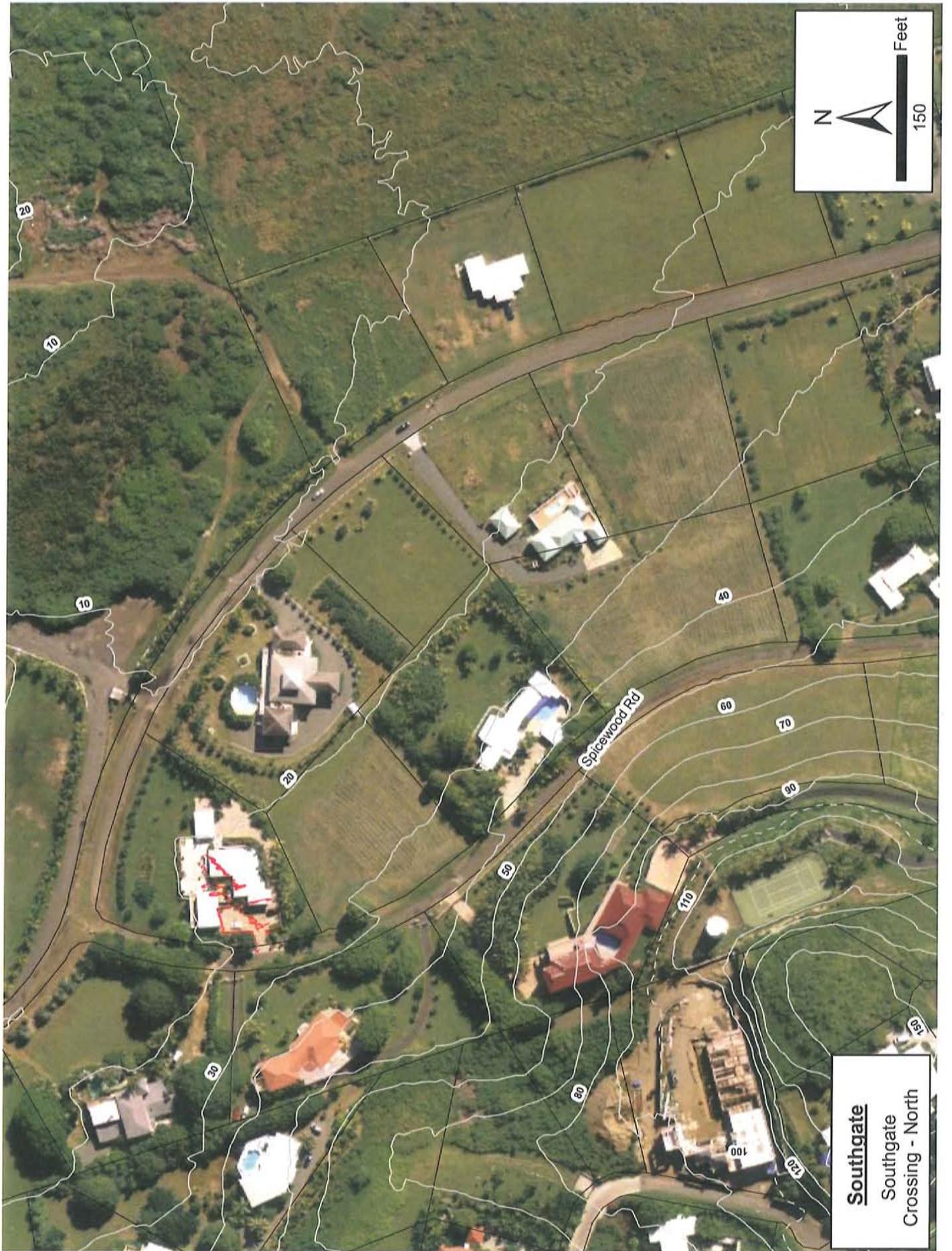
Narrative description:

→ wealthy area, some examples of driveways w pervious pavers
could install rain gardens, but maybe better
to make sure using low fertilizer... native
plants, etc.

Sketch



Southgate Watershed
Rental House



Southgate
Southgate
Crossing - North

STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: Seven Hills

Watershed: Southgate

Date: 1/24/11

Assessed by: KMH + ACS

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown *possible* If yes, name and contact information:

Main Road Names:

Approximate Neighborhood Area (acres) _____ # of lots _____ (# or % undeveloped ~75%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:
culverts only; ~~drainage~~; all need maintenance

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____%turf _____%landscape(include trees) _____%rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable *few eroded driveways*

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:
steep driveways lead to roads

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:
No wetlands, steep slopes/hillsides; well vegetated slopes

Evidence of Residential Pollution? Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading *septic?*
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:
Severity: Low Medium High
Describe source:

NEXT STEPS

Few measures needed; drainage maintenance needed. Some road repairs needed; half of watershed nearby unattached.

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit Pond retrofit
- Parking Lot retrofit

- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements

Other action(s):

None *with water
obscure*

Narrative description:

Sketch

STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: All for the better

Watershed: SG

Date: 1/25/11

Assessed by: ACK + KMH

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names:

Approximate Neighborhood Area (acres) _____ # of lots _____ (# or % undeveloped > 50%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached two types <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):
obvious septic area defined in residential area photo

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:
few culverts/drain inlets present; maintenance needed

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____%turf _____%landscape(include trees) _____% rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity: Low Medium High
Describe source:

NEXT STEPS

Area includes eroded gut into Schuster's property

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots? Better lawn/landscaping practices? Other action(s):
 Street ROW retrofit Pond retrofit Household hazardous waste
 Parking Lot retrofit *drainage improvement* Septic improvements

Narrative description:

Groundwater seepage causing problems.
wet yards, pavement issues, new curbs
Some properties (undeveloped) back up to gut

Sketch



Southgate Watershed
 Good Hope
 Preschool

All for the Better

NEW CURRENT PROJECTS

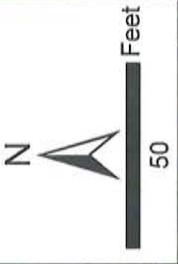
Handwritten notes or scribbles in the bottom left corner, possibly including a date or reference number.

Small handwritten mark or signature in the center of the page.

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Southgate Watershed
Good Hope
Preschool



STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: Tippary

Watershed: Southgate

Date: _____

Assessed by: Ack & Kris

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names: Tippary Rd

Approximate Neighborhood Area (acres) _____ # of lots ~30 (# or % undeveloped 10%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____%turf _____%landscape(include trees) _____% rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Encroachment: possible relocation of gut

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

NEXT STEPS

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit
- Parking Lot retrofit
- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements
- Other action(s):
gut/buffer

Narrative description:

*Groundwater flowing to surface and
several properties have wet yards/driveways.
Pumping taking place at certain places*

Sketch

Some properties back up to the gut

STX EE WATERSHEDS

Site Name/ID: Mt. Washington

Date: _____

RESIDENTIAL

Watershed: Southgate/GP

Assessed by: Anne & Kris



EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

WIDE ROW STEEP SLOPES CLEARING

Main Road Names: Tipperary ??

Approximate Neighborhood Area (acres) _____ # of lots _____ (# or % undeveloped >95%)

Single Family Attached (Duplexes, Row Homes) Multifamily (Apts., Condos)
 Single Family Detached Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant

Problems observed with septic systems? No Yes (describe): *DUMPING; CLEARING FOR SEPTIC*

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____%turf _____%landscape(include trees) _____%rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

HARD TO TELL, NOT A LOT OF HOMES YET.

Evidence of Residential Pollution? Severity: Low Medium High

<input type="checkbox"/> Limited <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Observed for sediment loading <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Likely <input type="checkbox"/> Observed for oil/grease <input type="checkbox"/> Limited <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Observed for trash and yard waste <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Likely <input type="checkbox"/> Observed for nutrient loading <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Likely <input type="checkbox"/> Observed for bacteria <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Likely <input type="checkbox"/> Observed for other:	Describe source:
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NEXT STEPS

TARGET W SMALL, STEEP LOT CONSTRUCTION BMPs - good example of driveway

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit Pond retrofit
- Parking Lot retrofit

- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements

Other action(s):

TRASH DUMPING

Narrative description:

Sketch

STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: Punnett Bay

Watershed: Southgate

Date: _____

Assessed by: Kris / Rich

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names: Crescent Beach/mid Valley *2 parts to neighborhood large lots flat & slope of (smaller)*

Approximate Neighborhood Area (acres) _____ # of lots ~ 70 (# or % undeveloped 20%)

Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/2 1/3 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 5 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant

Problems observed with septic systems? No Yes (describe): *Access thru gated / Buccanun*

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other: ONE INLET

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other:
SEE CULVERT SG-PC-6

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____%turf _____%landscape(include trees) _____% rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Driveways

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?

Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

NEXT STEPS

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit Pond retrofit
- Parking Lot retrofit

- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements

Other action(s):

*CULVERT REPAIR/
STABILIZATION*

Narrative description:

Sketch



Site Name/ID: Parava

Watershed: South gate

Date: _____

Assessed by: _____

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names: UNKNOWN

Approximate Neighborhood Area (acres) _____ # of lots ≈ 30 (# or % undeveloped > 90%)

Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved *old pave, deteriorated/grassy*

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other: NOT RECORDED

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Average Lot Cover: _____%bare _____% turf _____%landscape(include trees) _____% rooftop _____%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash and yard waste
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

There is a car maintenance area

NEXT STEPS

