Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 1 **Date_____**
Target UTM: 469370 3767151
Observers (writer/other) _____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 2 **Date_____**
Target UTM: 469088 3767234
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & location in channel (L/C/R*)			
	Depth @ Left Bank (cm) (~4" from bank edge)			
	Depth @ Right Bank(cm) (~4" from bank edge)			
	% Veg - Left Bank*			
	% Veg - Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 3 **Date_____**
Target UTM: 468835 3767394
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & location in channel (L/C/R*)			
	Depth @ Left Bank (cm) (~4" from bank edge)			
	Depth @ Right Bank (cm) (~4" from bank edge)			
	% Veg – Left Bank*			
	% Veg – Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 4 **Date_____**
Target UTM: 468587 3767562
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 5 **Date_____**
Target UTM: 468370 3767769
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 6 **Date_____**
Target UTM: 468084 3767727
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 7 **Date_____**
Target UTM: 467847 3767592
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 8 **Date_____**
Target UTM: 467709 3767330
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 9 **Date_____**
Target UTM: 467461 3767169
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 10 **Date_____**
Target UTM: 467340 3766938
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 11 **Date_____**
Target UTM: 467256 3766659
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 12 **Date_____**
Target UTM: 467150 3766398
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 13 **Date_____**
Target UTM: 467044 3766133
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 14 **Date_____**
Target UTM: 466961 3765847
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 15 **Date_____**
Target UTM: 466938 3765563
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 16 **Date_____**
Target UTM: 466759 3765354
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 17 **Date_____**
Target UTM: 466587 3765111
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 18 **Date_____**
Target UTM: 466399 3764883
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 19 **Date_____**
Target UTM: 466227 3764671
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 20 **Date_____**
Target UTM: 466104 3764403
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 21 **Date_____**
Target UTM: 465953 3764146
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 22 **Date_____**
Target UTM: 465757 3763921
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 23 **Date_____**
Target UTM: 465548 3763710
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 24 **Date_____**
Target UTM: 465400 3763456
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 25 **Date_____**
Target UTM: 465129 3763345
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 26 **Date_____**
Target UTM: 464939 3763126
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 27 **Date_____**
Target UTM: 464730 3762923
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 28 **Date_____**
Target UTM: 464595 3762657
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 29 **Date_____**
Target UTM: 464539 3762368
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 30 **Date_____**
Target UTM: 464467 3762083
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 31 **Date_____**
Target UTM: 464296 3761837
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 32 **Date_____**
Target UTM: 464096 3761623
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 33 **Date_____**
Target UTM: 463908 3761402
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 34 **Date_____**
Target UTM: 463646 3761265
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 35 **Date_____**
Target UTM: 463439 3761054
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 36 **Date_____**
Target UTM: 463262 3760812
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 37 **Date_____**
Target UTM: 463084 3760573
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 38 **Date_____**
Target UTM: 462880 3760354
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 39 **Date_____**
Target UTM: 462706 3760111
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 40 **Date_____**
Target UTM: 462526 3759882
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 41 **Date_____**
Target UTM: 462388 3759638
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 42 **Date_____**
Target UTM: 462124 3759501
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 43 **Date_____**
Target UTM: 461833 3759443
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 44 **Date_____**
Target UTM: 461555 3759337
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 45 **Date_____**
Target UTM: 461287 3759267
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 46 **Date_____**
Target UTM: 461003 3759182
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 47 **Date_____**
Target UTM: 460830 3758944
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 48 **Date_____**
Target UTM: 460606 3758749
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 49 **Date_____**
Target UTM: 460324 3758705
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 50 **Date_____**
Target UTM: 460046 3758748
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 51 **Date_____**
Target UTM: 459807 3758720
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 52 **Date_____**
Target UTM: 459545 3758820
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 53 **Date_____**
Target UTM: 459260 3758737
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 54 **Date_____**
Target UTM: 458984 3758633
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 55 **Date_____**
Target UTM: 458706 3758704
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 56 **Date_____**
Target UTM: 458409 3758736
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 57 **Date_____**
Target UTM: 458138 3758633
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 58 **Date_____**
Target UTM: 457904 3758451
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 59 **Date_____**
Target UTM: 457622 3758348
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 60 **Date_____**
Target UTM: 457350 3758251
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 61 **Date_____**
Target UTM: 457069 3758165
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 62 **Date_____**
Target UTM: 456796 3758041
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 63 **Date_____**
Target UTM: 456516 3758092
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 64 **Date_____**
Target UTM: 456219 3758120
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 65 **Date_____**
Target UTM: 455953 3758238
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 66 **Date_____**
Target UTM: 455786 3758478
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 67 **Date_____**
Target UTM: 455537 3758623
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 68 **Date_____**
Target UTM: 455246 3758601
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 69 **Date_____**
Target UTM: 455019 3758411
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 70 **Date_____**
Target UTM: 454789 3758479
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 71 **Date_____**
Target UTM: 454863 3758759
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 72 **Date_____**
Target UTM: 454748 3758936
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 73 **Date_____**
Target UTM: 454455 3758993
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 74 **Date_____**
Target UTM: 454159 3759037
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 75 **Date_____**
Target UTM: 453874 3759120
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 76 **Date_____**
Target UTM: 453587 3759156
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 77 **Date_____**
Target UTM: 453294 3759167
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 78 **Date_____**
Target UTM: 453010 3759212
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 79 **Date_____**
Target UTM: 452731 3759199
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 80 **Date_____**
Target UTM: 452566 3758961
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 81 **Date_____**
Target UTM: 452441 3758698
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 82 **Date_____**
Target UTM: 452149 3758681
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 83 **Date_____**
Target UTM: 451873 3758631
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 84 **Date_____**
Target UTM: 451638 3758497
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 85 **Date_____**
Target UTM: 451443 3758279
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 86 **Date_____**
Target UTM: 451303 3758016
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 87 **Date_____**
Target UTM: 451176 3757746
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 88 **Date_____**
Target UTM: 451034 3757486
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 89 **Date_____**
Target UTM: 450811 3757315
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 90 **Date_____**
Target UTM: 450524 3757255
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 91 **Date_____**
Target UTM: 450228 3757211
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 92 **Date_____**
Target UTM: 449957 3757085
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 93 **Date_____**
Target UTM: 449781 3756859
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 94 **Date_____**
Target UTM: 449669 3756630
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 95 **Date_____**
Target UTM: 449377 3756566
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 96 **Date_____**
Target UTM: 449118 3756431
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 97 **Date_____**
Target UTM: 448822 3756408
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 98 **Date_____**
Target UTM: 448534 3756384
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 99 **Date_____**
Target UTM: 448253 3756327
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 100 **Date_____**
Target UTM: 447963 3756361
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 101 **Date_____**
Target UTM: 447680 3756377
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 102 **Date_____**
Target UTM: 447620 3756088
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 103 **Date_____**
Target UTM: 447481 3755829
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 104 **Date_____**
Target UTM: 447240 3755663
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 105 **Date_____**
Target UTM: 446983 3755713
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 106 **Date_____**
Target UTM: 446735 3755827
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 107 **Date_____**
Target UTM: 446461 3755771
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 108 **Date_____**
Target UTM: 446169 3755831
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 109 **Date_____**
Target UTM: 445940 3755674
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 110 **Date_____**
Target UTM: 446000 3755385
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 111 **Date_____**
Target UTM: 445935 3755100
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 112 **Date_____**
Target UTM: 445723 3754896
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 113 **Date_____**
Target UTM: 445456 3754961
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 114 **Date_____**
Target UTM: 445308 3754771
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 115 **Date_____**
Target UTM: 445271 3754475
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 116 **Date_____**
Target UTM: 445069 3754300
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 117 **Date_____**
Target UTM: 444878 3754208
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 118 **Date_____**
Target UTM: 444830 3753915
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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Riverwalk
Santa Ana River Sucker Habitat Evaluation

Transect Name: SAS 119 **Date_____**
Target UTM: 444722 3753648
Observers (writer/other)_____

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)			
	Width of Channel (m)			
	Max Depth (cm) & Location in Channel (L/C/R*)			
	Depth @ Left Edge (cm) (~4" from bank edge)			
	Depth @ Right Edge (cm) (~4" from bank edge)			
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over Transect Band			
Should total 100%	Substrate % mud/silt			
	Substrate % sand			
	Substrate % gravel			
	Substrate % cobble			
	Substrate % boulder			
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)			

*L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Additional Information

Please use this form to tally any gravel patches measuring a minimum of roughly 3mx3m you find OUTSIDE of your point/locations.

Location between GPS Points SAS _____ and SAS _____.

Tally	Gravel Patch Size
_____	Min 3m
_____	3m-5m
_____	5m-10m
_____	10m-15m
_____	15m+

Red algae present? If so, please record coordinates below:

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