2023 Riverwalk Datasheets

Each year 13 groups collect habitat data at over 100 field points in the Santa Ana River.

This year, volunteers were given the option to collect habitat data using the ArcGIS Field Maps Application.

This PDF is a collection of the physical datasheets and does not include the habitat data collected through the ArcGIS Field Maps application.



https://sawpa.gov/task-force/santa-ana-sucker-conservation-team/

Santa Ana Watershed Project Authority

11615 Sterling Avenue Riverside, CA 92503







Transect Name: SAS 99
Target UTM: 448253
Observers (writer/other) lan A, Haley G, Pachel G Coaupa)

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33.946203		
	Channel position (L/C/R*)	C		
	Width of Channel (m)	25m		
	Max Depth (cm) &			
	Location in Channel	58 cm		
	(L/C/R*) Depth @ Left Edge (cm)	L		
	(~4" from bank edge)	52cm		
	Depth @ Right Edge (cm) (~4" from bank edge)	13cm		
	% Veg- Left Bank*	90 %		
	% Veg- Right Bank*	00001		
	% Canopy Over Transect Band	7010		
al	Substrate % mud/silt	100°6		
Should total	Substrate % sand	0		
ould to	Substrate % gravel	0		
hou 1	Substrate % cobble	0		
S	Substrate % boulder	0		
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)	V		
	Photo Right Bank* (time & #)			
	Photo other (describe)	nla		
	Notes (e.g. Islands, Obstructions)	lots of		
	,	avondo		

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

Location between GPS Points SA		
Tally Red algae present? If so, please record coordinary	1	o grand pakings
 2		

Transect Name: SAS 100

Target UTM: 447963

Observers (writer/other) ian 4, training G, Rachel G Csawpu)

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.9464247		
	UTM (@ Left Bank*)	-117.56215220		
	Channel position (L/C/R*)	not sure		
	Width of Channel (m)	33m		
	Max Depth (cm) & Location in Channel	50cm		
	(L/C/R*)	L,		
	Depth @ Left Edge (cm) (~4" from bank edge)	16 cm		
	Depth @ Right Edge (cm) (~4" from bank edge)	23cm		
	% Veg- Left Bank*	5006		
	% Veg- Right Bank*	10000		
	% Canopy Over Transect Band	107010		
F	Substrate % mud/silt	95 100000000		
tot	Substrate % sand	0.10		
Should total	Substrate % sand Substrate % gravel	5 100		
] 100	Substrate % cobble	0 0/0		
22	Substrate % boulder	0%		
	Photo Upstream (time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)			
	Notes (e.g. Islands, Obstructions)	lots of		

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

Location between GPS Points SA	AS and SAS
Red algae present? If so, please record coordina	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+ Volume tes below:

Transect Name: SAS 101 Date 10 26 2023

Target UTM: 447680 3756377

Observers (writer/other) 1 A Pachel G Haley G (Sawpa)

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.9468049		
	UTM (@ Left Bank*)	-117.5664967		
	Channel position (L/C/R*)	9h'		
	Width of Channel (m)	26M		
	Max Depth (cm) &	24 G		
	Location in Channel			
	(L/C/R*)	53cm L		
	Depth @ Left Edge (cm)	42 cm		
	(~4" from bank edge)	120111		
	Depth @ Right Edge (cm)	18cm		
	(~4" from bank edge)			
	% Veg- Left Bank*	50010		
	% Veg- Right Bank*			
	% Canopy Over	5%		
_	Transect Band			
ta]	Substrate % mud/silt	504		
5 %	Substrate % sand	90%		
ould to	Substrate % gravel	5 %		
Should total 100%	Substrate % cobble	0 0 0		
	Substrate % boulder	0 %		
	Photo Upstream			
	(time & #)			
	Photo Downstream			
	(time & #)			
	Photo Left Bank*			
	(time & #)			
	Photo Right Bank*			
	(time & #)	\ ()		
	Photo other (describe)	n/a		
	Notes (e.g. Islands, Obstructions)	LessArundo		
	Obstructions)	,		

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

Location between GPS Points SA	AS and SAS	
Red algae present? If so, please record coordinates	10	Change Anny
	£ 	

Transect Name: SAS 102
Target UTM: 447620
Observers (writer/other) lan A, Rachel G, Haley G (Surpar)

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.94541535		
	UTM (@ Left Bank*)	-117.5669450		
	Channel position (L/C/R*)	notsure		
	Width of Channel (m)	27m		
	Max Depth (cm) &	38		
	Location in Channel			
	(L/C/R*)	L		
	Depth @ Left Edge (cm) (~4" from bank edge)	31cm		
	Depth @ Right Edge (cm) (~4" from bank edge)	26cm		
	% Veg- Left Bank*	100%		
	% Veg- Right Bank*	160010		
	% Canopy Over Transect Band	10%		
- Tes	Substrate % mud/silt	506		
Should total 100%	Substrate % sand 4race	95%		
uld to	Substrate % gravel 5	1 0		
hot 1	Substrate % cobble	0		
S	Substrate % boulder	0		
	Photo Upstream (time & #)	/		
	Photo Downstream (time & #)			
	Photo Left Bank* (time & #)			
	Photo Right Bank* (time & #)			
	Photo other (describe)	na		
	Notes (e.g. Islands, Obstructions)	Arundo lots right boung		
		hight pant		

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

Location	between GPS Points S	AS and SAS	
	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	No Starte vais
Red algae present? If so,	please record coordina	ates below:	
		2	

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.9417901		
	UTM (@ Left Bank*)	-117.5682998		
	Channel position (L/C/R*)	L		
	Width of Channel (m)	29m		
	Max Depth (cm) & Location in Channel (L/C/R*)	52cm C		
	Depth @ Left Edge (cm) (~4" from bank edge)	17.5 cm		
	Depth @ Right Edge (cm) (~4" from bank edge)	26 cm		
	% Veg- Left Bank*	100%		
	% Veg- Right Bank*	90°10		
	% Canopy Over Transect Band	5%		
ਾਫ਼	Substrate % mud/silt	2010		
Should total 100%	Substrate % sand	93 000		
ould to	Substrate % gravel	5º10 traw		
bor 1	Substrate % cobble	0		
<u></u>	Substrate % boulder	0		
	Photo Upstream (time & #)			
	Photo Downstream (time & #)	V		
	Photo Left Bank* (time & #)	V		
	Photo Right Bank* (time & #)			
	Photo other (describe)	n/a		
	Notes (e.g. Islands,			
	Obstructions)	n/a		

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

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 coordinate	es below:			

Transect Name: SAS 104
Target UTM: 447240
Observers (writer/other) ian A Haley G, Rachel G (Sawpa)

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.9402069		
	UTM (@ Left Bank*)	-117.5710132		
	Channel position (L/C/R*)	C		
	Width of Channel (m)	37m		
	Max Depth (cm) &	42cm		
	Location in Channel	, , , , , ,		
	(L/C/R*)	L.		
	Depth @ Left Edge (cm)	19cm		
	(~4" from bank edge)	(() ()		
	Depth @ Right Edge (cm)	42cm L		
	(~4" from bank edge)			
	% Veg- Left Bank*	5%		
	% Veg- Right Bank*	30°10		
	% Canopy Over	1010		
	Transect Band	5260		
tal	Substrate % mud/silt			
Should total 100%	Substrate % sand	90010		
100 July	Substrate % gravel	5%		
Sho	Substrate % cobble	0		
	Substrate % boulder	O		
	Photo Upstream			
	(time & #)			
	Photo Downstream (time & #)			
	Photo Left Bank*			
	(time & #)			
	Photo Right Bank*			
	(time & #)			
	Photo other (describe)	Na		
	Notes (e.g. Islands,	1/4		
	Obstructions)	nla		
		" 100		

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

Location betw	veen GPS Points	SAS and SAS	
	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	Was Rose
Red algae present? If so, pleas			

Transect Name: SAS 105	Date 10 26 2023
Target UTM: 446983	3755713
Observers (writer/other) \an	_ A

no data, construction in area

	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)		1	
	% Veg- Left Bank*			
	% Veg- Right Bank*			
	% Canopy Over			
	Transect Band			
aj	Substrate % mud/silt			
% द	Substrate % sand			
Should total 100%	Substrate % gravel			
hol 1	Substrate % cobble			
S	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.

Location between GPS Points SA	AS and SAS	•
Tally	5m-10m 10m-15m	~/0
Red algae present? If so, please record coordinate	tes below:	

	,————	
	-	
	S	

Transect Name: SAS 106 Date 10 26 2023
Target UTM: 446735 3755827

Target UTM: 446735 3755 Observers (writer/other) \an \A

no data, constructu in area

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	CHAINEL	CHANNEL	CHANNEL
	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			
tal	Substrate % mud/silt			
Should total 100%	Substrate % sand			
ould to 100%	Substrate % gravel			
ho 1	Substrate % cobble			
<i>O</i> 2	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.

Location betweer	n GPS Points SAS and SA	S
	Gravel Patch Siz Min 3m 3m-5m 5m-10m 10m-15m 15m+	e // 0-
Red algae present? If so, please re	cord coordinates below:	

T	ransect Name: SAS 107 arget UTM: 446461 bservers (writer/other) \@	Date 10 Z 3755771	6/2023	
	,		ta, constru	ction in ava
	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			
tal	Substrate % mud/silt			
uld to 100%	Substrate % sand			
onlo 100	Substrate % gravel			
Should total 100%	Substrate % cobble			
0 2	Substrate % boulder			
	Photo Upstream			
	(time & #)			
	Photo Downstream			
	(time & #) Photo Left Bank*			
	(time & #)			
	Photo Right Bank*			
	(time & #)			
	Photo other (describe)			
	Notes (e.g. Islands,			
	Obstructions)			

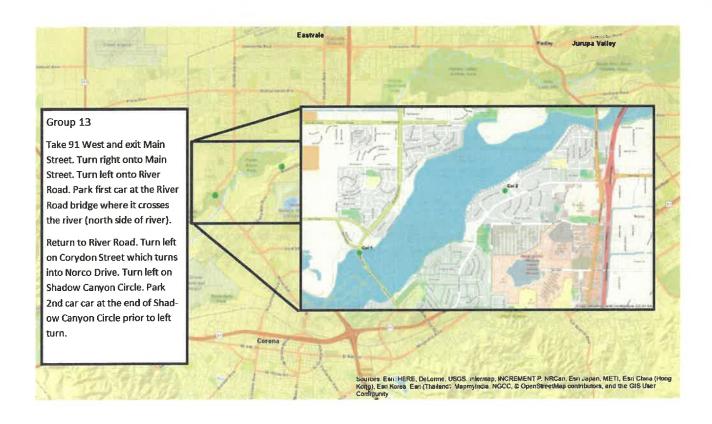
^{*}L/C/R = Left/Center/Right. Face downstream to determine left and right banks.

Location between GPS Points SAS	and SAS	.
Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	n/a
Red algae present? If so, please record coordinate	s below:	

First Car Google Map Point:

https://goo.gl/maps/T8J33hvQQ3m6PkWg7

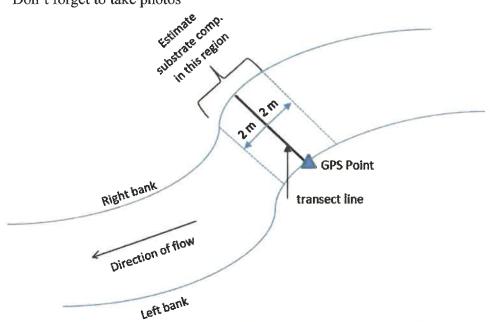
<u>Driving Directions (From SAWPA)</u>: Take 91 West and exit Main Street. Turn right onto Main Street. Turn left onto River Road. Car #1 should park at the River Road bridge where it crosses the river (north side of river). After parking first car, return to River Road. Turn left on Corydon Street which turns into Norco Drive. Turn left on Shadow Canyon Circle. Car #2 should park at the end of Shadow Canyon Circle prior to left turn. Parking the cars as directed, will ensure you are walking downstream.



Technical Questions: Call Cameron Macbeth at (949) 533-5749 Coordination/Logistical Issues: Call Zyanya Ramirez at (951) 354-4244 **Data Collection Instructions:** Locate GPS points shown on the attached Riverwalk Points Map. If the GPS Point is not in the wetted river, walk to the closest location that is in the wetted river and record on your data sheet the actual GPS location on the left bank (note: the left bank is on your left when you face downstream). If there is more than one wetted river channel, record each channel's left bank GPS location.

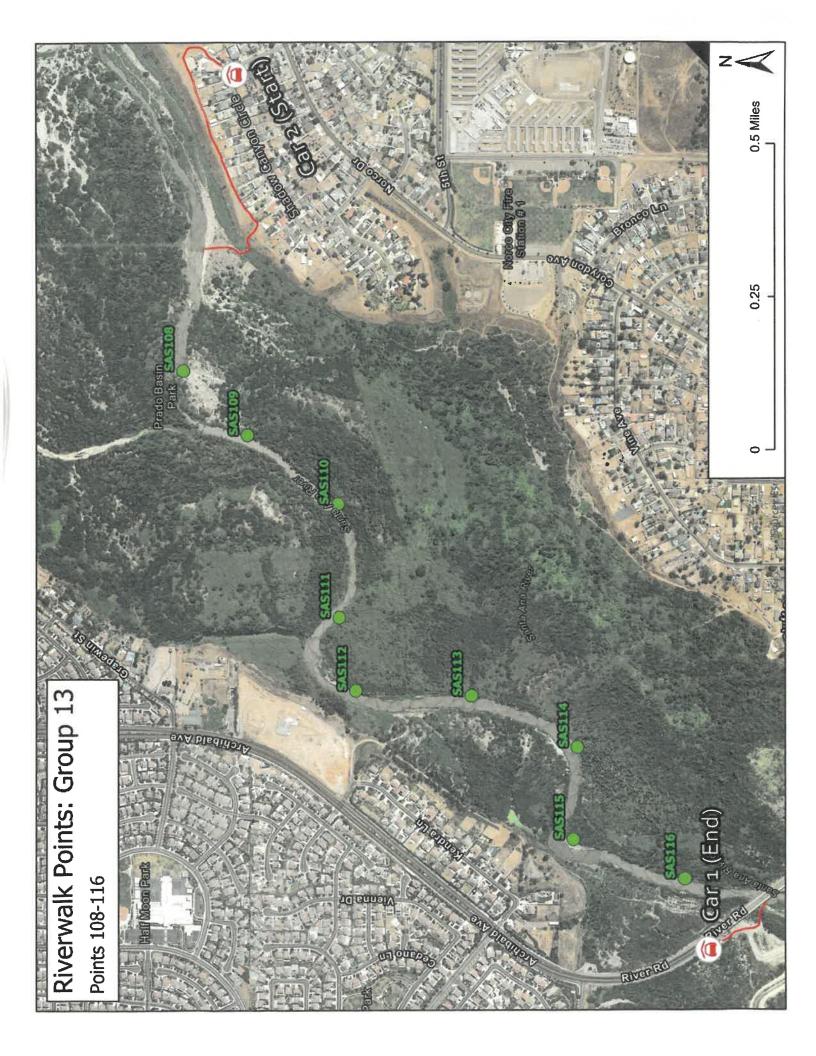
Here are some helpful tips:

- Please record all measurements using the metric system;
- Set up your transect lines perpendicular to the river;
- Estimate substrate components within a 2-m band on either side of the transect; make sure all substrate components add up to 100%;
- Don't forget to take photos



When You Are Done: Within a week of the survey, please return equipment and any paper datasheets to SAWPA at 11615 Sterling Ave Riverside, CA 92503. Photos will be submitted via a dropbox link that you will receive from Zyanya Ramirez (SAWPA staff).

If You Want to Drive Back to SAWPA Immediately After Your Surveying (Optional): From the Car #2 location, on Shadow Canyon Circle, return to Norco Drive. Turn left onto Norco Drive. Norco Drive becomes Sixth Street. On Sixth Street turn right to merge onto 15 South. Continue driving on 15 South and take exit 96B to merge onto 91 East toward Riverside. Take exit 54 onto Pierce St. After exiting, make a right onto Pierce Street. After taking a right, turn left onto Sterling Ave. Stay on Sterling Ave. all the way to the end of the street and arrive at SAWPA.



Transect Name: S	SAS 108	Date	
Target UTM:	446169	3755831	5
Observers (writer	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33,91372,-117.56	ïL	
	Channel position (L/C/R*)	R		
	Width of Channel (m)	32 m		
	Max Depth (cm) &	-64:		
	Location in Channel	LAVE TO IN		
	(L/C/R*)	Allelyin		
	Depth @ Left Edge (cm) (~4" from bank edge)	4 m		
	Depth @ Right Edge (cm)	1		
	(~4" from bank edge)	loin		
	% Veg- Left Bank*	Y).		
	% Veg- Right Bank*	to 190%.		
	% Canopy Over Transect Band	L=07.R=80-1		
- -	Substrate % mud/silt	0		
o toti	Substrate % sand	05		
ould to 100%	Substrate % gravel	5	٥	
Should total 100%	Substrate % cobble	()		
<u>∞</u>	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.

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

Tally

Gravel Patch Size

Min 3m

5m-10m

10m-15m

15m+

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

Transect Name: S	SAS 109	Date	
Target UTM:	445940	3755674	
Observers (writer	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33.9756, -117.5841		
	UTM (@ Left Bank*)	77.1770/ 17016		
	Channel position (L/C/R*)	_ C		
	Width of Channel (m)	23.6m		
	Max Depth (cm) &	L= :		
	Location in Channel	C= 16		
	(L/C/R*)	12= '		
	Depth @ Left Edge (cm)	7.		
	(~4" from bank edge)) in		
	Depth @ Right Edge (cm)	C ·		
	(~4" from bank edge)	ر ا		
	% Veg- Left Bank*	100		
	% Veg- Right Bank*	100		
	% Canopy Over	1=85, 2-180,		
	Transect Band	C- 05) K-1001		
व्य	Substrate % mud/silt	0		
tot %	Substrate % sand	501100		
uld to	Substrate % gravel	0		
Should total 100%	Substrate % cobble	0		
S	Substrate % boulder	0		
	Photo Upstream			
	(time & #)			
	Photo Downstream			
	(time & #)			
	Photo Left Bank*			
	(time & #)			
	Photo Right Bank*			
	(time & #)			
	Photo other (describe)			
	Notes (e.g. Islands,			
	Obstructions)			
	<u> </u>			

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

Location be	tween GPS Points S	AS <u>loq</u> and SAS <u>lo</u> .	
	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	
Red algae present? If so, ple	ase record coordina	ites below:	

Transect Name: SAS 110		Date	
Target UTM:	446000	3755385	
Observers (write	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)			
	Channel position (L/C/R*)	\mathcal{C}		
	Width of Channel (m)	24.8		
	Max Depth (cm) &		v ·	
	Location in Channel (L/C/R*)	12 in		
	Depth @ Left Edge (cm) (~4" from bank edge)	Sin		
	Depth @ Right Edge (cm)	Want of the same		
	(~4" from bank edge)	5 m		
	% Veg- Left Bank*	100		
	% Veg- Right Bank*	100		
	% Canopy Over Transect Band	L=60 R=40		
	Substrate % mud/silt	O		
Should total 100%	Substrate % sand	160%		
ould to 100%	Substrate % gravel	0		
hor 1	Substrate % cobble	Ó		
Σ	Substrate % boulder	0		
	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.

Location between GPS Points SAS and SAS			
Red algae present? If s	Tally o, please record coordinate	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	
		-	

Transect Name: SAS 111		Date	
Target UTM:	445935	3755100	
Observers (write	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in	33 .933,-117.589		
	UTM (@ Left Bank*)	33 4 07, 100 00		
	Channel position (L/C/R*)			
	Width of Channel (m)	24.7		
	Max Depth (cm) &			
	Location in Channel	ly in		
	(L/C/R*)			
	Depth @ Left Edge (cm)	4.		
	(~4" from bank edge)	8 in		
	Depth @ Right Edge (cm)	6 in		
	(~4" from bank edge)	Oin		
	% Veg- Left Bank*	100.		
	% Veg- Right Bank*	501		
	% Canopy Over	L= 75%		
	Transect Band	12-51.		
म्ब	Substrate % mud/silt	0		
े ह	Substrate % sand	1601.		
Should total 100%	Substrate % gravel	0		
bd	Substrate % cobble	0		
\sim	Substrate % boulder	0		
	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.

Locatio	on between GPS Points SAS	s <u> and SAS 7 </u>	
-	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	
Red algae present? If so	o, please record coordinate	es below:	
		:	

Transect Name: SAS 112		Date	
Target UTM:	445723	3754896	
Observers (write	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33.932 -117.5%		
	Channel position (L/C/R*)	7 7		
	Width of Channel (m)	25.72		
	Max Depth (cm) &			
	Location in Channel (L/C/R*)	18in		
	Depth @ Left Edge (cm) (~4" from bank edge)	5'4		
	Depth @ Right Edge (cm)	C		
	(~4" from bank edge)	9in		
	% Veg- Left Bank*	100		
	% Veg- Right Bank*	80		
	% Canopy Over	L=50		
	Transect Band	R = (00)		
a.	Substrate % mud/silt	6		
% tot	Substrate % sand	1001.		
Should total 100%	Substrate % gravel	0		
lod 1	Substrate % cobble	8		
S	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.

Location	between GPS Points SA	S 17 and SAS 11.	
	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	
Red algae present? If so, p	please record coordinat	es below:	

Transect Name: SAS 113		Date	
Target UTM:	445456	3754961	
Observers (writer	c/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33.931,117.5		
	Channel position (L/C/R*)	C		
	Width of Channel (m)	37,9 M		
	Max Depth (cm) &			
	Location in Channel	12 in "		
	(L/C/R*)			
	Depth @ Left Edge (cm)	1.		
	(~4" from bank edge)	bin		
	Depth @ Right Edge (cm)	7.		
	(~4" from bank edge)	DIN		
	% Veg- Left Bank*	100 90%		
	% Veg- Right Bank*	40%		
	% Canopy Over	L= 100		
	Transect Band	R=951		
tal	Substrate % mud/silt	O		
5 2 %	Substrate % sand	160		
ould to	Substrate % gravel	0		
Should total	Substrate % cobble	0		
V 1	Substrate % boulder	0		
	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.

Location between GPS Points SAS	3 13 and SAS 114.
Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+
Red algae present? If so, please record coordinate	es below:

Transect Name: SAS 114		Date	
Target UTM:	445308	3754771	
Observers (write	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33.927, -117.5	13	
	Channel position (L/C/R*)	L		
	Width of Channel (m)	27.9		
	Max Depth (cm) &			
	Location in Channel (L/C/R*)	Min		
	Depth @ Left Edge (cm) (~4" from bank edge)	bin		
	Depth @ Right Edge (cm)	-		
	(~4" from bank edge)	55:4		
	% Veg- Left Bank*	100		
	% Veg- Right Bank*	100		
	% Canopy Over	L= 0		
	Transect Band	12 = 0		
al	Substrate % mud/silt			
Should total 100%	Substrate % sand	00		
ould to	Substrate % gravel	0,		
hor 1	Substrate % cobble			
N N	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.

Location between GPS Points Sa	AS <u>14</u> and SAS <u>15</u> .
Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+
Red algae present? If so, please record coordina	tes below:

Transect Name: SAS 115		Date	
Target UTM:	445271	3754475	
Observers (write	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33,928,-117.59	6	
	Channel position (L/C/R*)	R		
	Width of Channel (m)	34.8		
	Max Depth (cm) &			
	Location in Channel (L/C/R*)	17in		
	Depth @ Left Edge (cm) (~4" from bank edge)	1010		
	Depth @ Right Edge (cm)	1.		
	(~4" from bank edge)	bin		
	% Veg- Left Bank*	0		
	% Veg- Right Bank*	100		
	% Canopy Over	(=O		
	Transect Band	R=95		
T T T	Substrate % mud/silt	6		
tot %	Substrate % sand	100		
uld to	Substrate % gravel	Ö		
Should total 100%	Substrate % cobble	0		
<u>∞</u>	Substrate % boulder	0		
	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.

Locat	tion between GPS Points SAS	and SAS 16.	
	Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+	
Red algae present? If	so, please record coordinate	es below:	

Transect Name: SAS 116		Date	
Target UTM:	445069	3754300	=7/
Observers (writer	r/other)		

	OBSERVATIONS	CHANNEL #1	CHANNEL #2	CHANNEL #3
	Actual GPS coordinates in UTM (@ Left Bank*)	33,9752,-117.597		
	Channel position (L/C/R*)			
	Width of Channel (m)	77.		
	Max Depth (cm) &	a.		
	Location in Channel (L/C/R*)	19Cipa		
	Depth @ Left Edge (cm)	7		
	(~4" from bank edge)	719		
	Depth @ Right Edge (cm) (~4" from bank edge)	Min		
	% Veg- Left Bank*	101.		
	% Veg- Right Bank*	60%		
	% Canopy Over Transect Band	1=10, R=800		
	Substrate % mud/silt	0		
otz (°	0.1.4.4.0/	1001		
ould to	Substrate % gravel	O		
Should total 100%	Substrate % cobble	Ď		
S	Substrate % boulder	6		
	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.

Location between GPS Points SA	as 16 and SAS 17.
Tally	Gravel Patch Size Min 3m 3m-5m 5m-10m 10m-15m 15m+
Red algae present? If so, please record coordinate	tes below: