

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by

Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

January 3, 2021

Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 1-3-2021		High Tide: 5.08 ft @ 12:06 PM	Low Tide: 2.85 ft @ 6:20 AM	Sandbar Breached: No		Stage (718): 2.05	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	9:58 AM	9:41 AM	9:35 AM	9:26 AM	9:03 AM	8:56 AM	8:51 AM
Weather (°F, Cloud cover)	54, fog	54, fog	54, fog	54, fog	54, fog	54, fog	54, fog
Habitat							
Stream type (run, riffle, pool)	Pool	Top of riffle	Dry	Run above riffle	Run below riffle	Dry	Dry
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	c, s	c, g	s	c, g	s, c	s, g	c, g, s
Substrate embeddedness (%)	85	25	100	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	0	0	0	0	0	0	0
Vegetation							
Instream cover (%)	10	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	14.9	4.3	10.1	26.8	50	16.3	15.7
Riparian Moisture-Lt Bank (%)	3.5	16.2	5.5	47.5	42.6	20.5	17.3
Hydrology							
Maximum depth (ft)	0	0	0	0.8	2.8	0	0
Wetted width (ft)	0	0	0	21	51.5	0	0
Flow = Area x Rate (cfs)	0.0	0.0	0.0	0.0	5.9	0	0
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	0	0	0	0.6	0.3	0	0
Depth 2 @ 1/2 (ft)	0	0	0	0.4	1.5	0	0
Depth 3 @ 3/4 (ft)	0	0	0	0.8	2.8	0	0
Average Depth = total/4 (ft)	0.0	0.0	0.0	0.5	1.2	0	0
Area = Width x Avg Depth (ft^2)	0.0	0.0	0.0	9.5	59.2	0	0
Rate from meter (ft/sec)	0	0	0	0.0	0.1	0	0

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	Dry	Dry	Dry	60.7	58.8	Dry	Dry
Dissolved Oxygen (%)	Dry	Dry	Dry	5.2	62.6	Dry	Dry
Dissolved Oxygen (ppm)	Dry	Dry	Dry	0.51	5.76	Dry	Dry
Total Dissolved Solids (mg/L)	Dry	Dry	Dry	1117	16473	Dry	Dry
Salinity (ppt)	Dry	Dry	Dry	0.88	15.54	Dry	Dry
Species Observed	Many stickleback in wetted locations.						
Comments	Stream continuous up to Site 4, intermittent to Site 3, mostly dry ustream of Site 3.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	18.6						
East (%)	15.5						
South (%)	14.8						
West (%)	15.3						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring January 3, 2021



Site 1



Site 1



Site 1



Site 1

CCSD Monitoring January 3, 2021



Site 2



Site 2



Site 2



Site 2

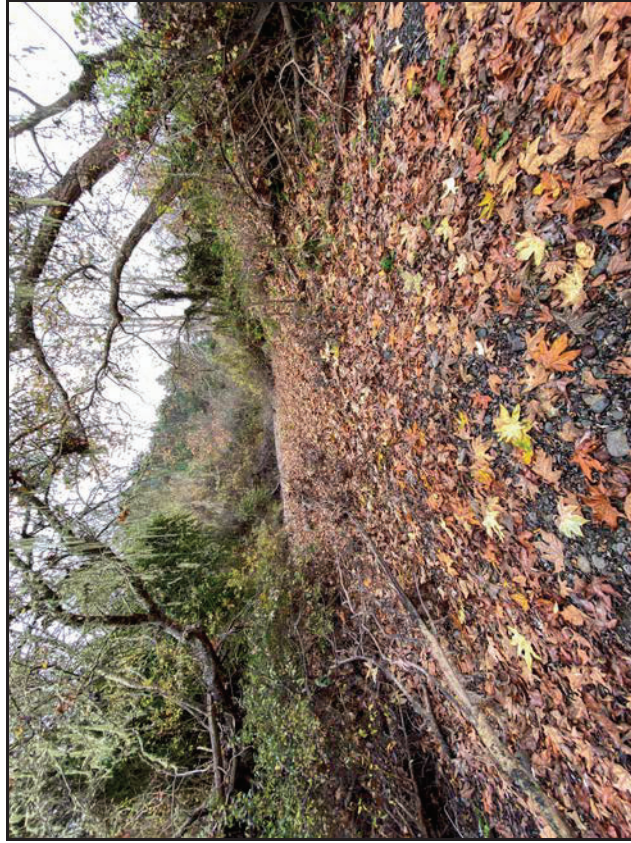
CCSD Monitoring January 3, 2021



Site 3



Site 3



Site 3



Site 3

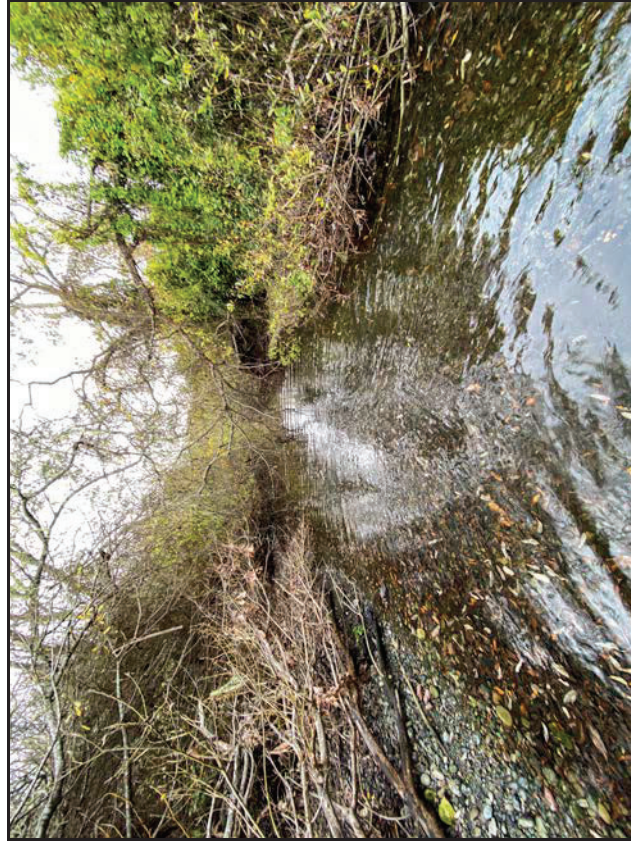
CCSD Monitoring January 3, 2021



Site 4



Site 4



Site 4

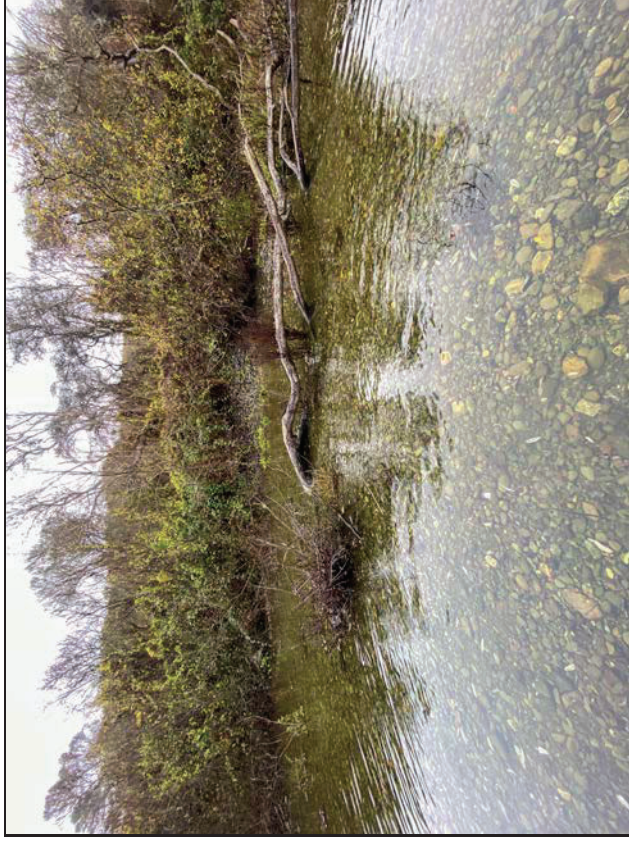


Site 4

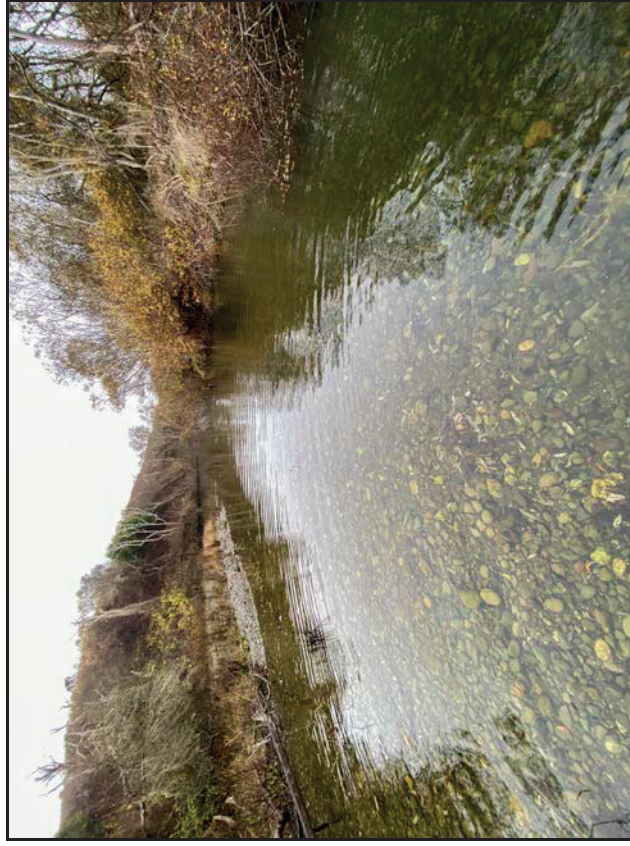
CCSD Monitoring January 3, 2021



Site 5



Site 5



Site 5

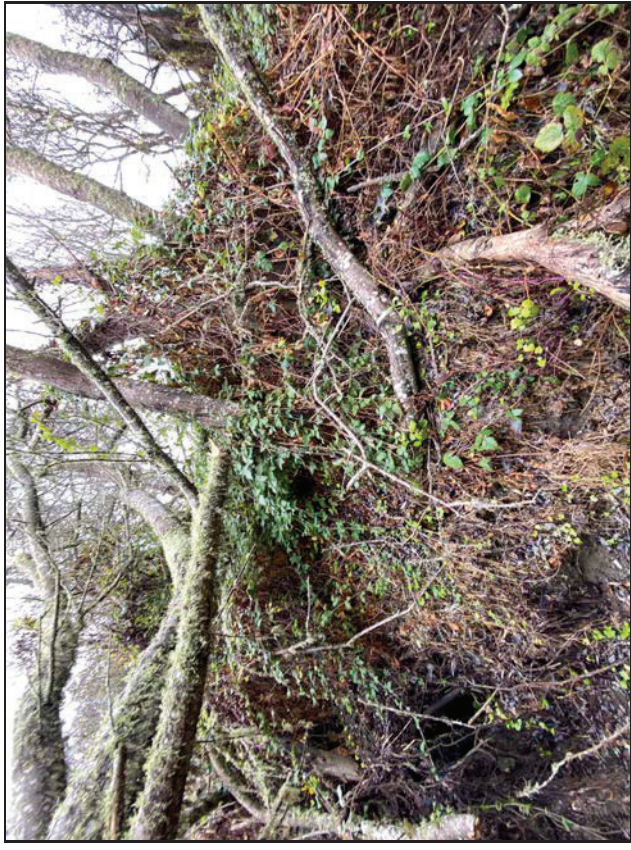


Site 5

CCSD Monitoring January 3, 2021



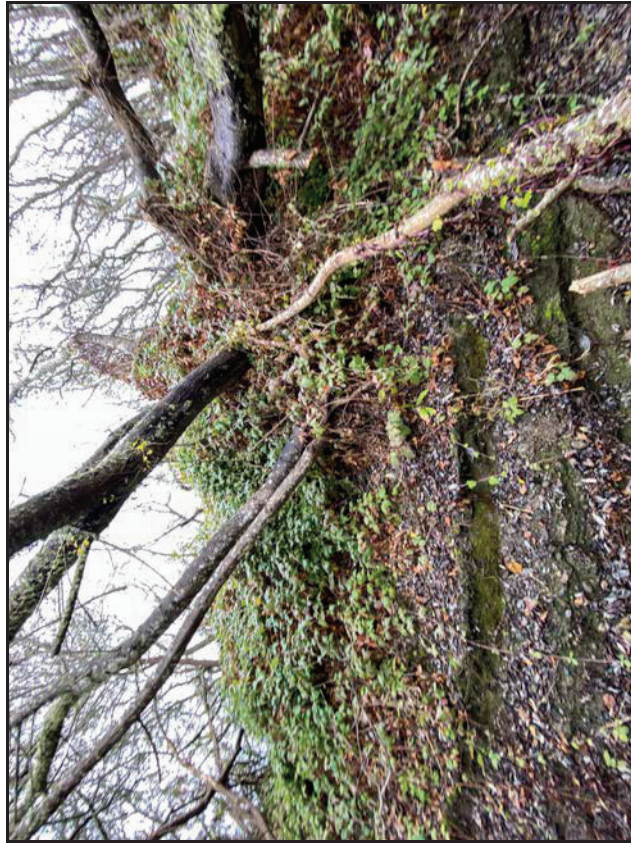
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring January 3, 2021



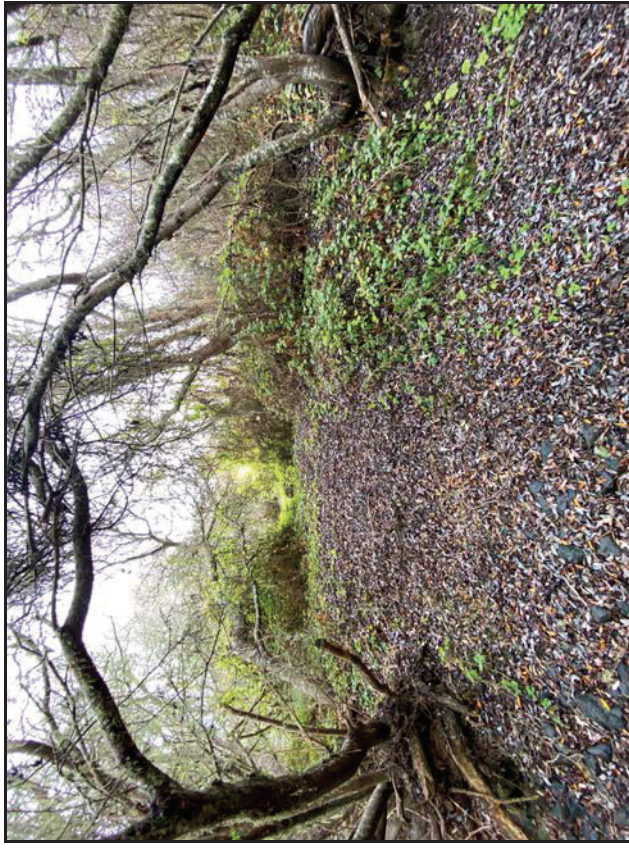
Site 8



Site 8

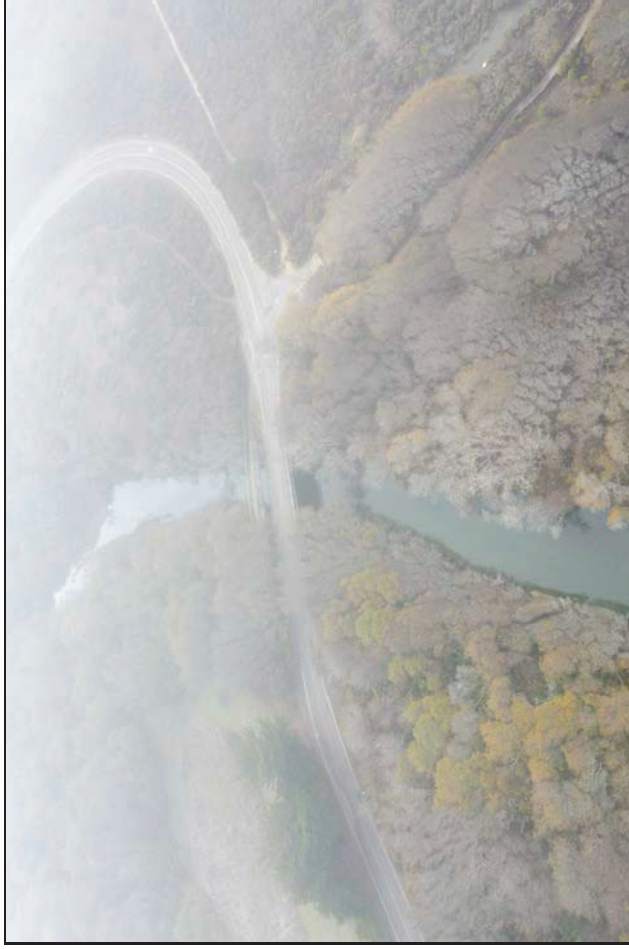


Site 8



Site 8

CCSD Monitoring January 3, 2021



Walking Bridge PS-1



Estuary PS-2



9P7 Well

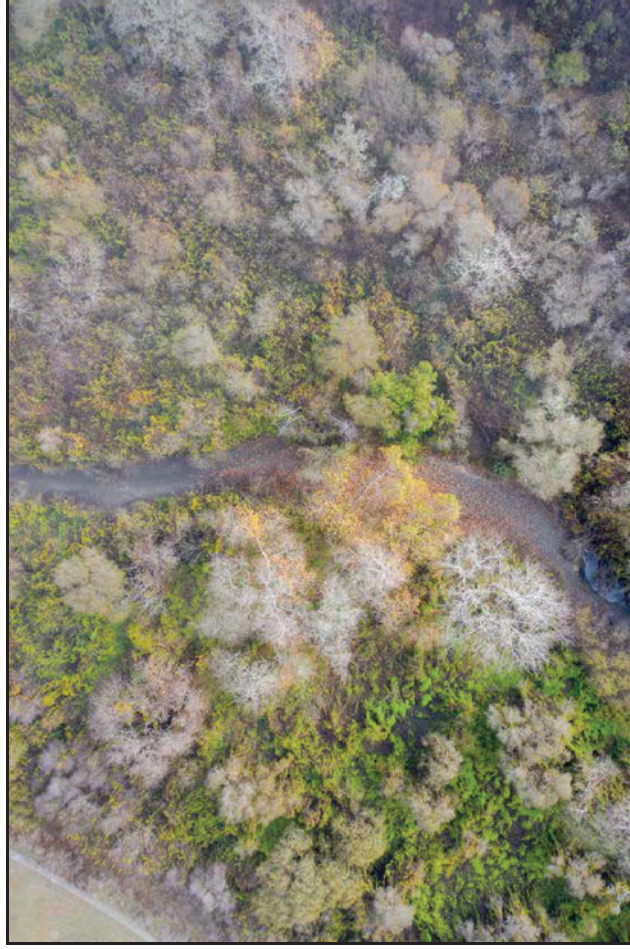
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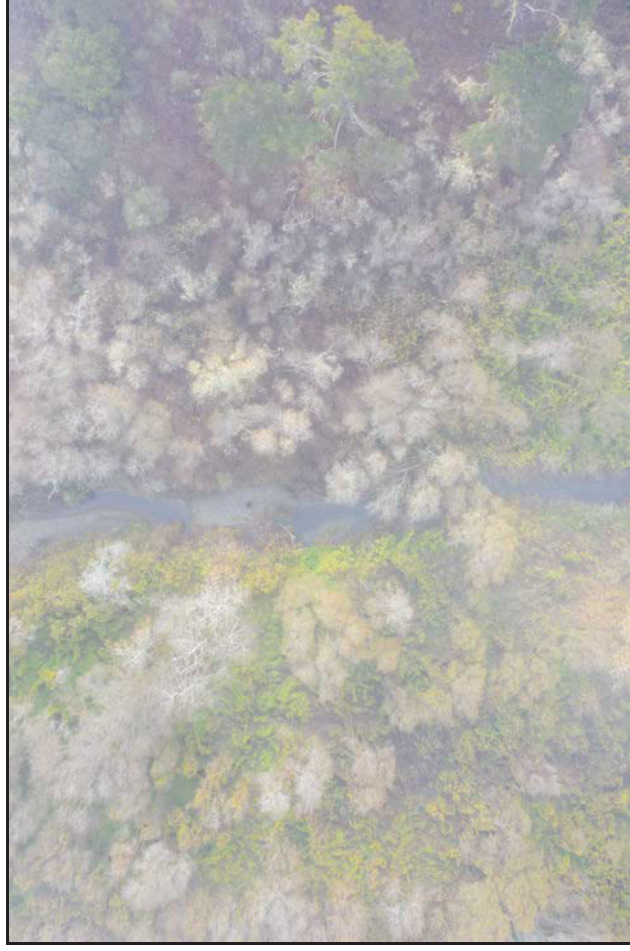
Site 1 Aerial



Site 2 Aerial



Site 3 Aerial



Site 4 Aerial

CCSD Monitoring January 3, 2021



Site 5 Aerial



Site 7 Aerial



Site 8 Aerial

CCSD Monitoring January 3, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring January 3, 2021



Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left



Site 4 Riparian Right

CCSD Monitoring January 3, 2021



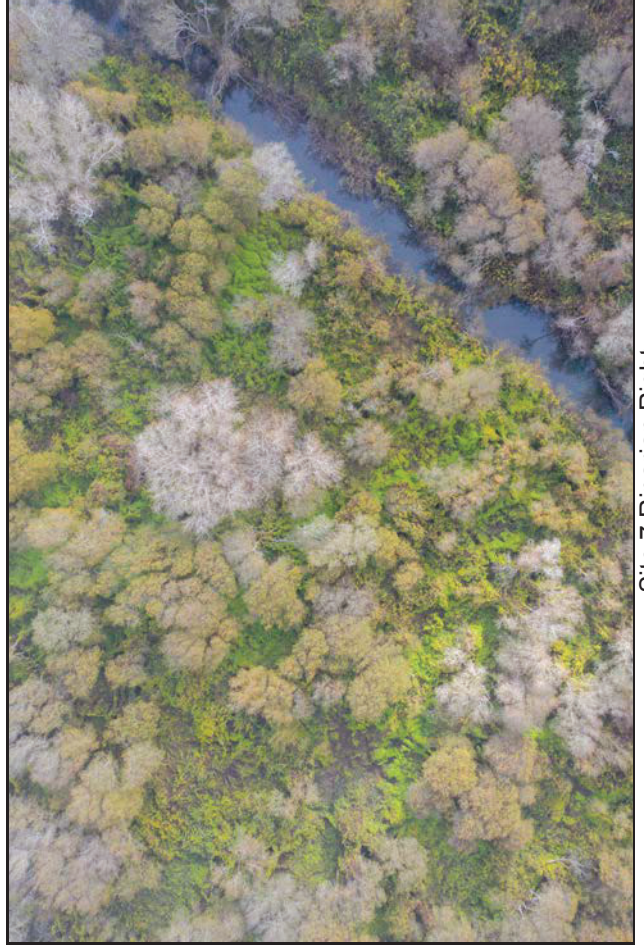
Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring January 3, 2021



Site 8 Riparian Left & Right

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January 17, 2021

Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 1-17-2021		High Tide: 1:99 ft @ 11:40 AM	Low Tide: -0.02 ft @ 6:08 AM	Sandbar Breached: No	Stage (718): 2.05		
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	12:15 PM	11:27 AM	11:19 AM	11:01 AM	10:41 AM	10:34 AM	10:28 AM
Weather (°F, Cloud cover)	66, clear	65, clear	60, clear	58, clear	64, clear	64, clear	68, clear
Habitat							
Stream type (run, riffle, pool)	Pool	Top of riffle	Dry	Run above riffle	Run below riffle	Dry	Dry
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	c, s	c, g	s	c, g	s, c	s, g	c, g, s
Substrate embeddedness (%)	85	25	100	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	0	0	0	0	0	0	0
Vegetation							
Instream cover (%)	10	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	12	2.8	16.1	50	50	15.5	17.4
Riparian Moisture-Lt Bank (%)	0	14.5	3.3	50	50	17	17.6
Hydrology							
Maximum depth (ft)	0	0	0	1.5	3.5	0	0
Wetted width (ft)	0	0	0	2.5	61	0	0
Flow = Area x Rate (cfs)	0.0	0.0	0.0	0.0	9.2	0	0
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	0	0	0	1.2	0.8	0	0
Depth 2 @ 1/2 (ft)	0	0	0	1	1.7	0	0
Depth 3 @ 3/4 (ft)	0	0	0	1.5	3.5	0	0
Average Depth = total/4 (ft)	0.0	0.0	0.0	0.9	1.5	0	0
Area = Width x Avg Depth (ft^2)	0.0	0.0	0.0	2.3	91.5	0	0
Rate from meter (ft/sec)	0	0	0	0.0	0.1	0	0

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	Dry	Dry	Dry	60.6	59.7	Dry	Dry
Dissolved Oxygen (%)	Dry	Dry	Dry	99	51.5	Dry	Dry
Dissolved Oxygen (ppm)	Dry	Dry	Dry	9.79	4.35	Dry	Dry
Total Dissolved Solids (mg/L)	Dry	Dry	Dry	17218	20240	Dry	Dry
Salinity (ppt)	Dry	Dry	Dry	16.27	20.3	Dry	Dry
Species Observed	Few stickleback in wetted locations. Small schools of very small (1 inch) fish observed below Site 4, possible tidewater goby in brackish waters.						
Comments	Stream continuous and waist deep up to Site 4, intermittent to Site 3, mostly dry upstream of Site 3. Salinity level drops to 2.42 above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	16.2						
East (%)	11.7						
South (%)	13.1						
West (%)	8.4						
†Moisture measured on each side of well casing. Max reading is 50%.							

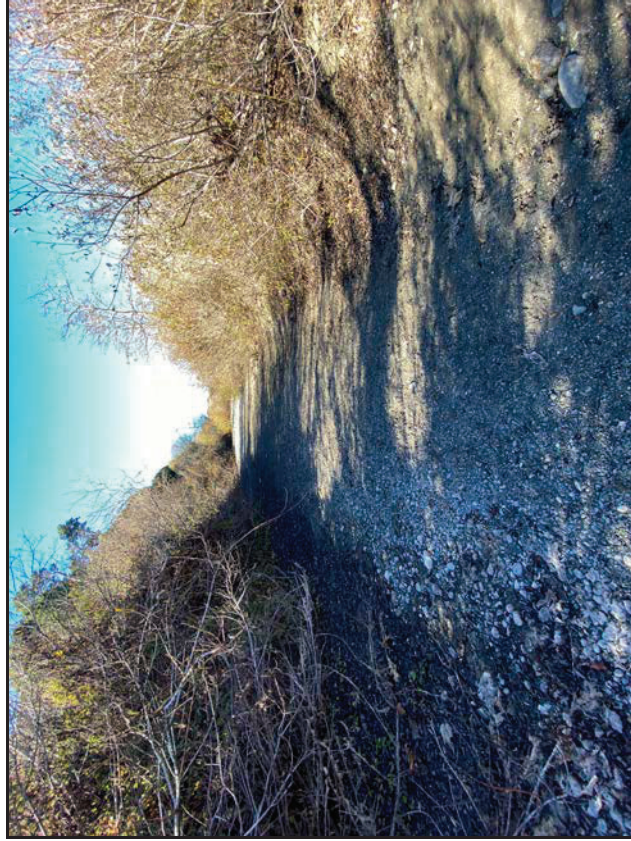
CCSD Monitoring January 17, 2021



Site 1



Site 1

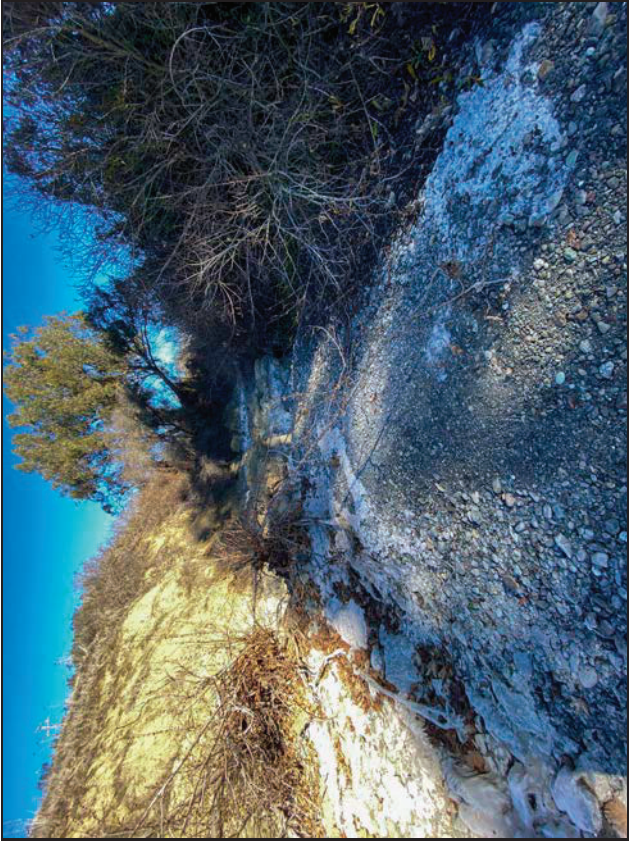


Site 1



Site 1

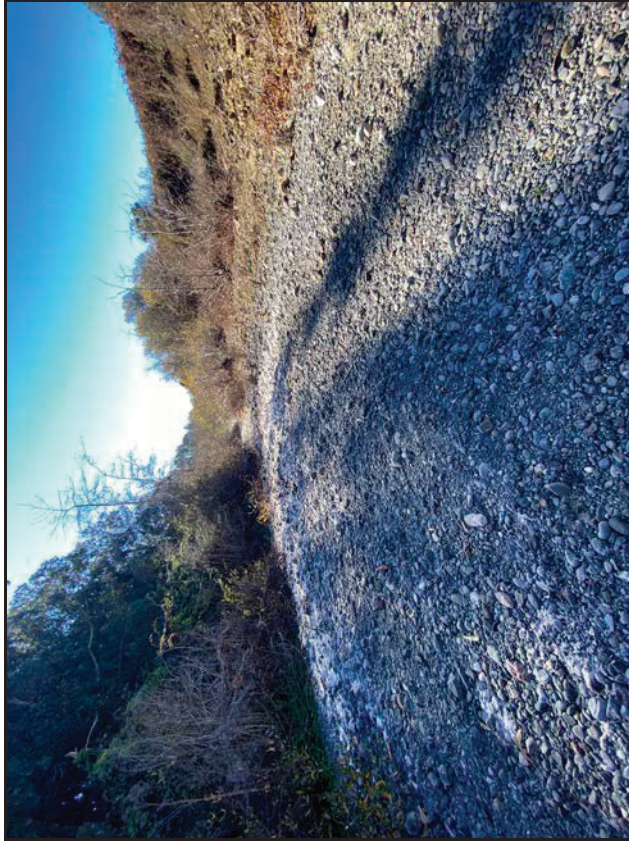
CCSD Monitoring January 17, 2021



Site 2



Site 2



Site 2



Site 2

CCSD Monitoring January 17, 2021



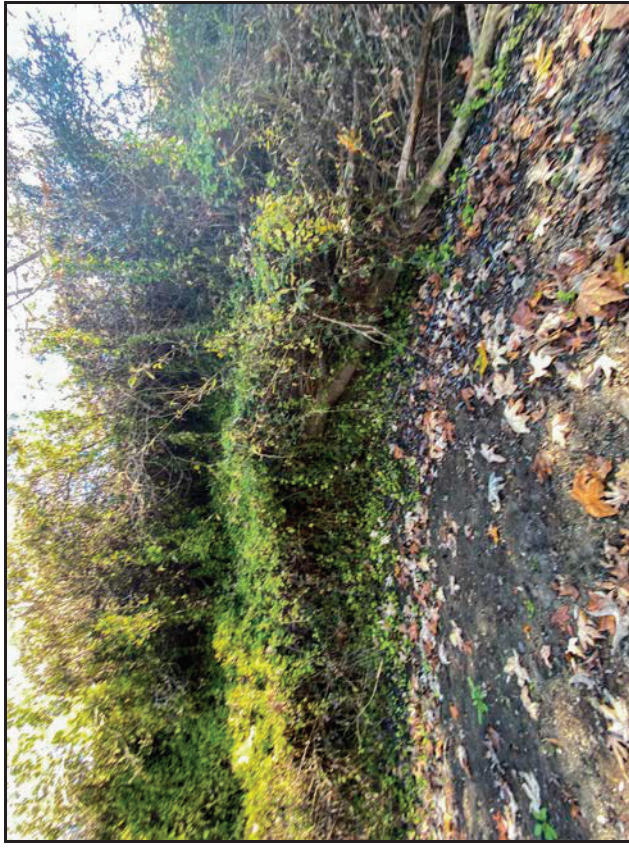
Site 3



Site 3

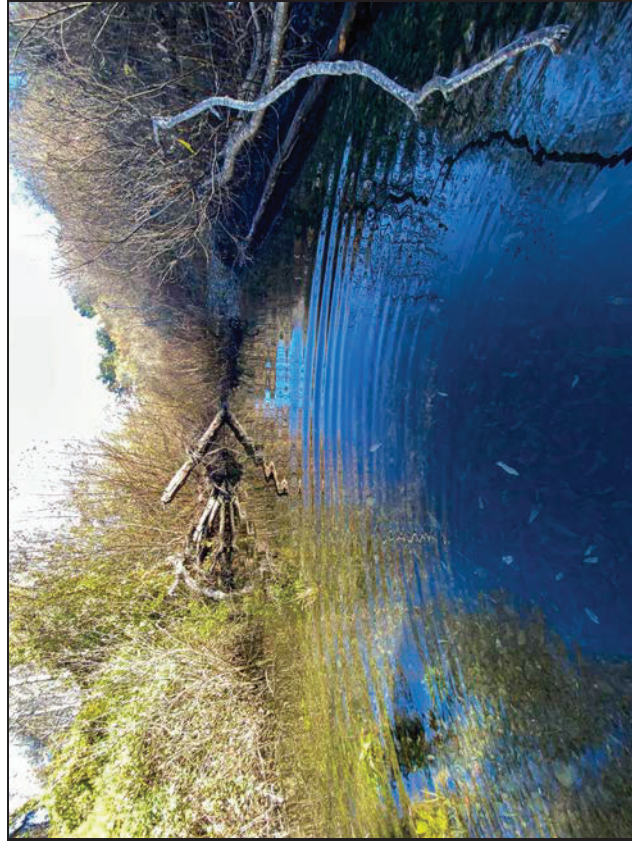


Site 3

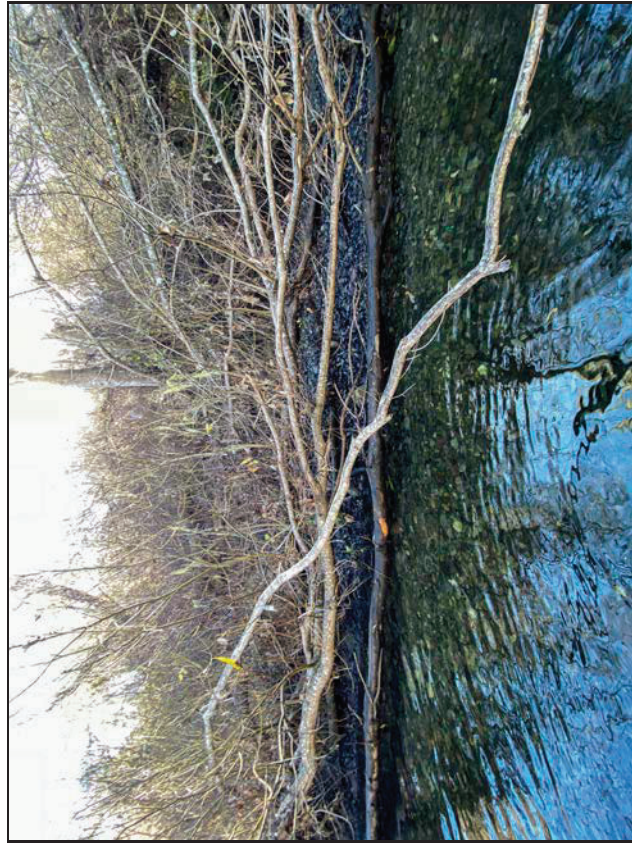


Site 3

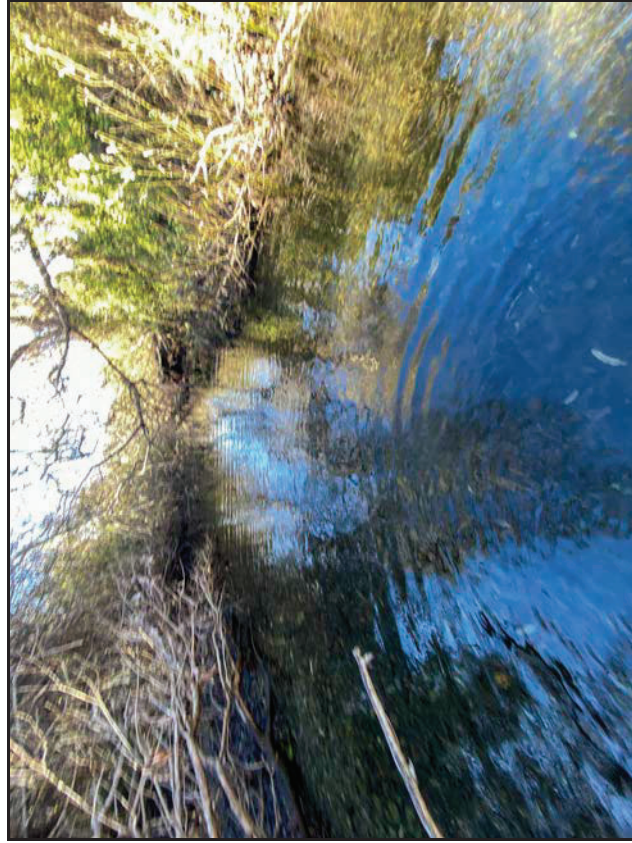
CCSD Monitoring January 17, 2021



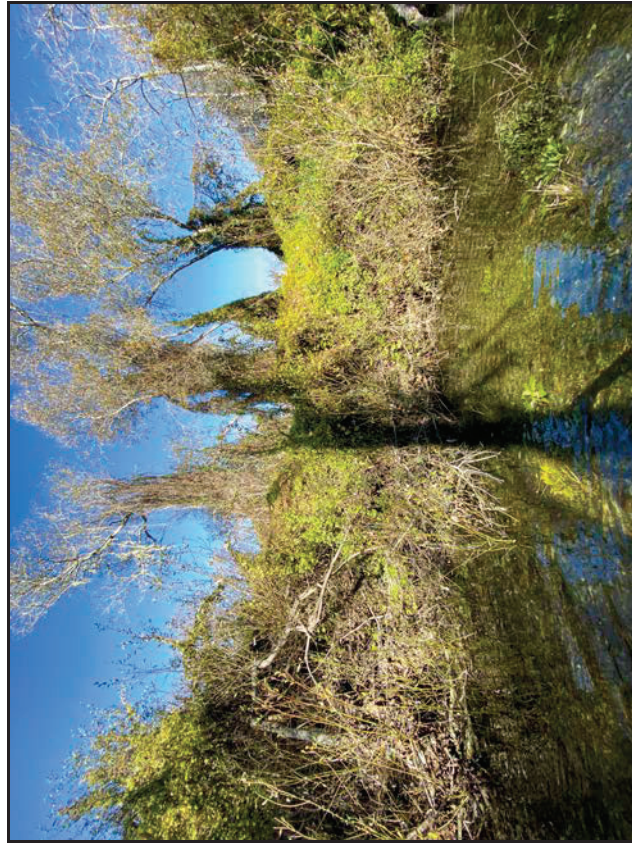
Site 4



Site 4

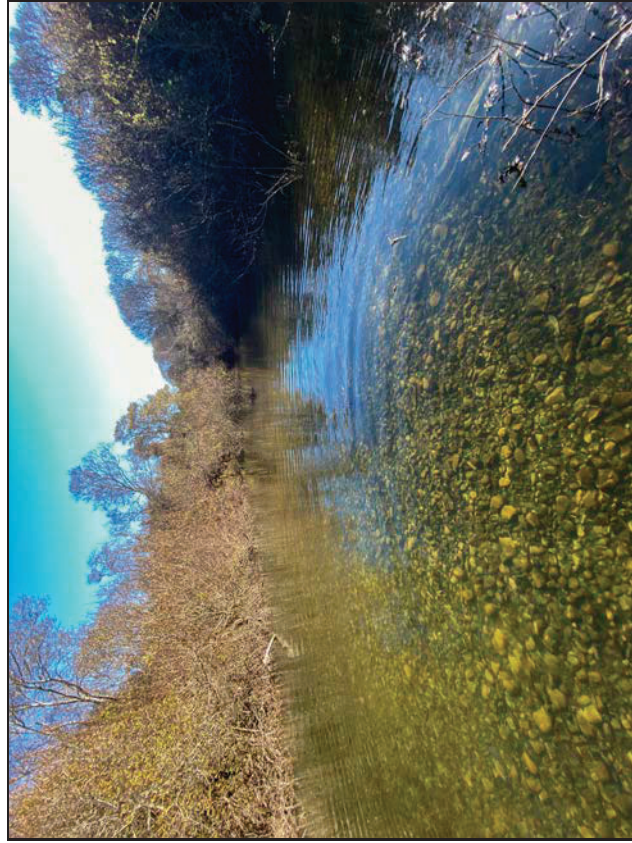


Site 4

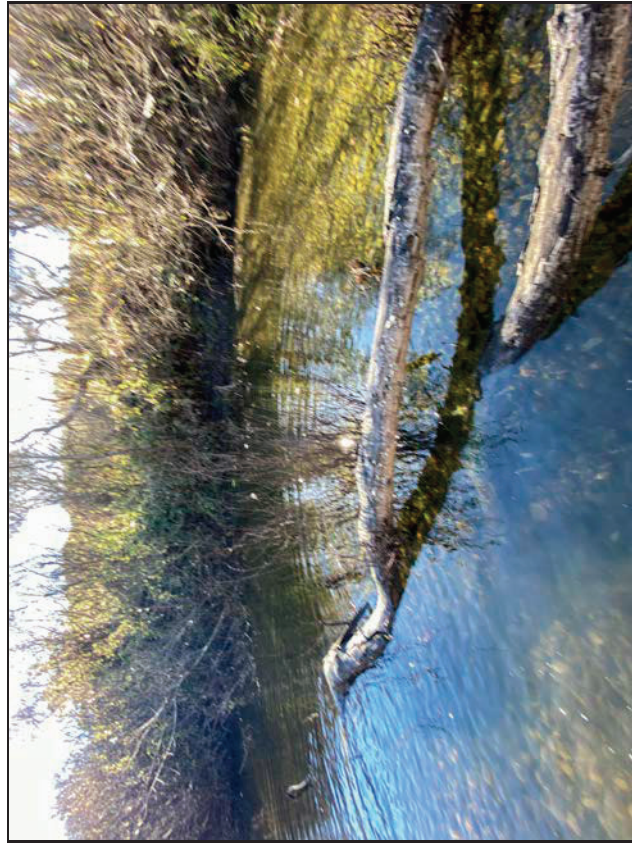


Site 4

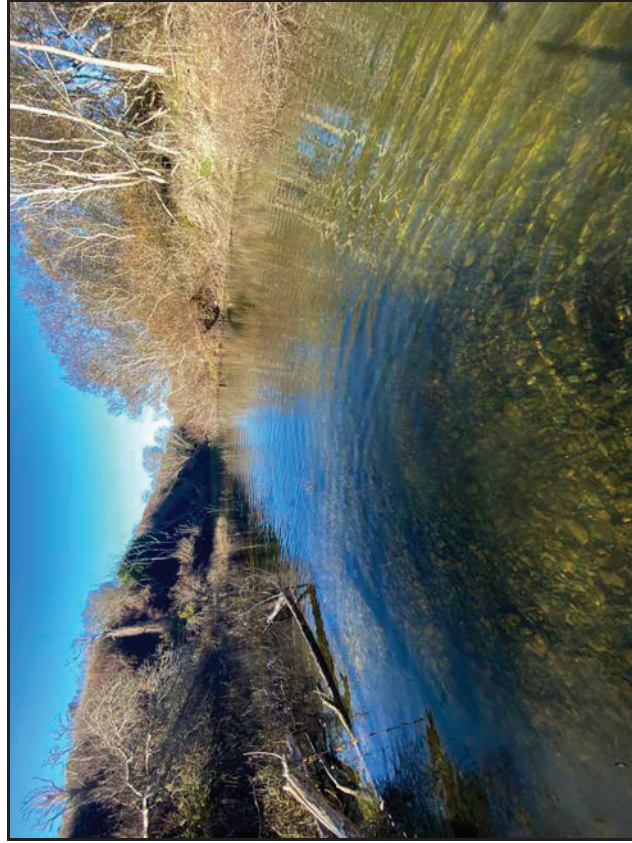
CCSD Monitoring January 17, 2021



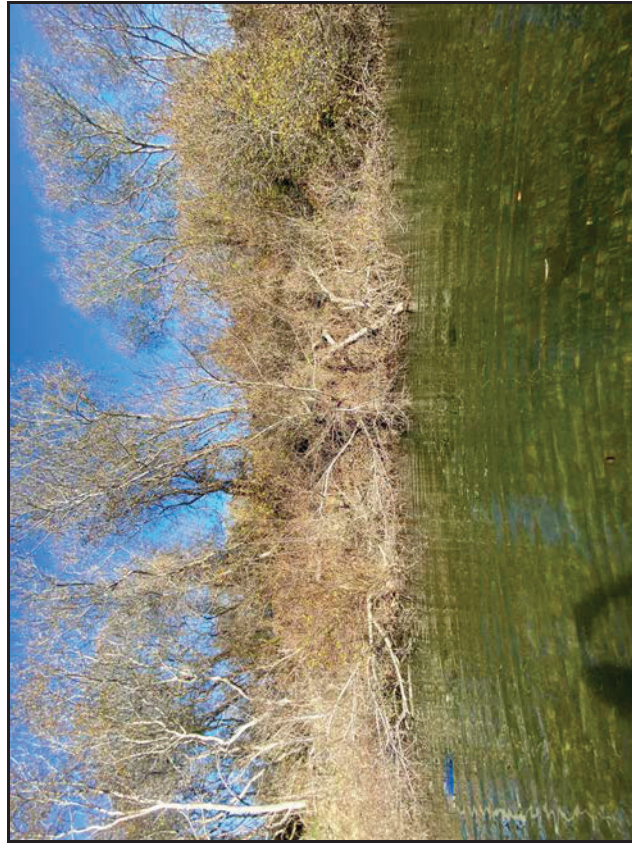
Site 5



Site 5

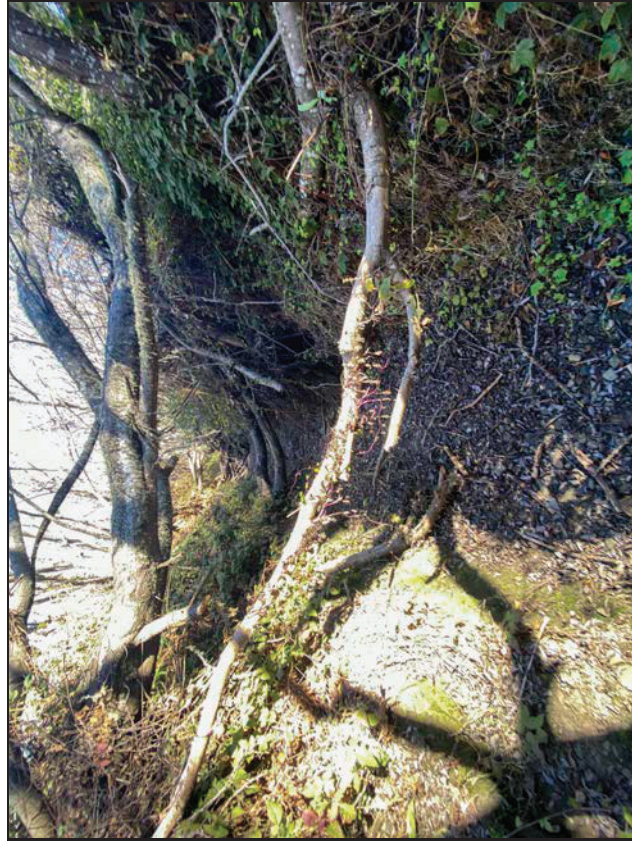


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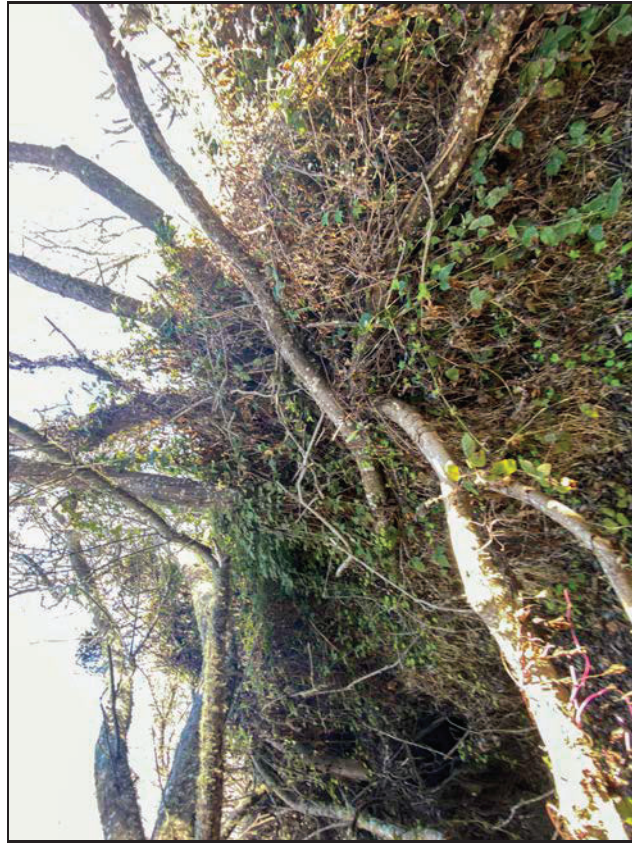


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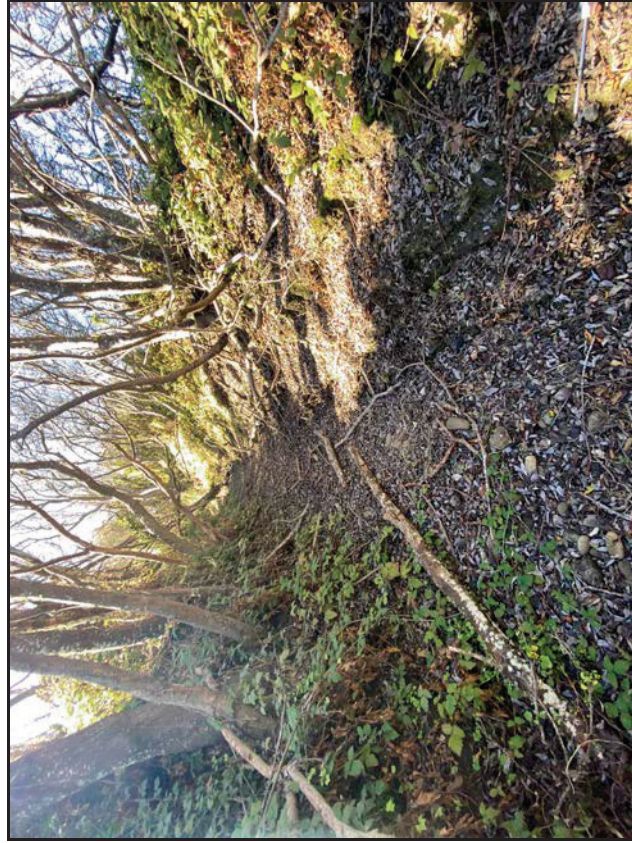
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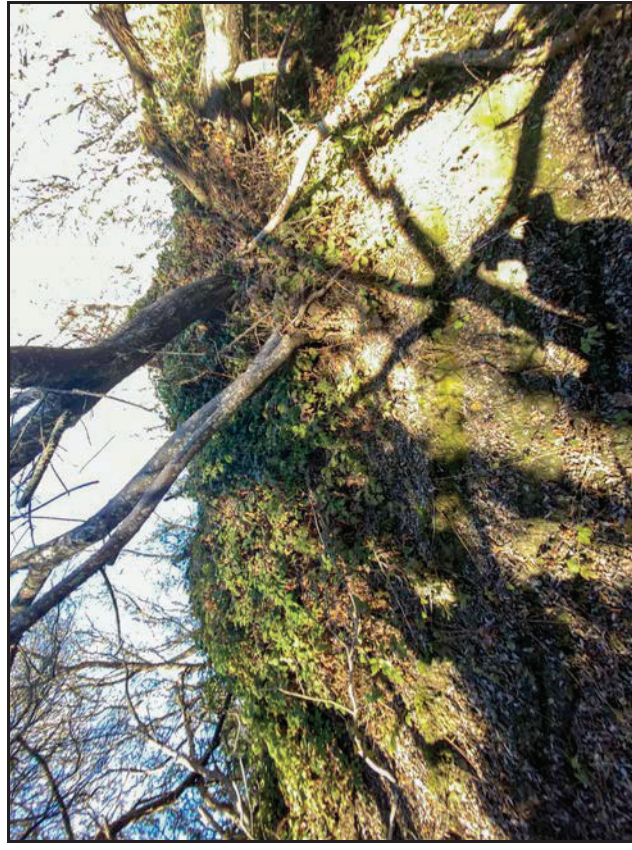
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring January 17, 2021



Site 8



Site 8

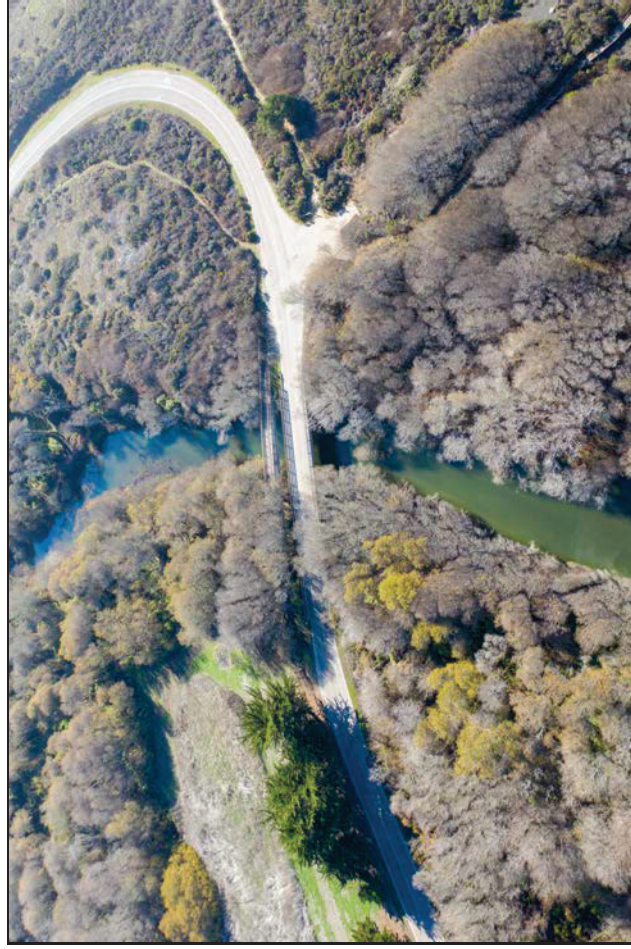


Site 8

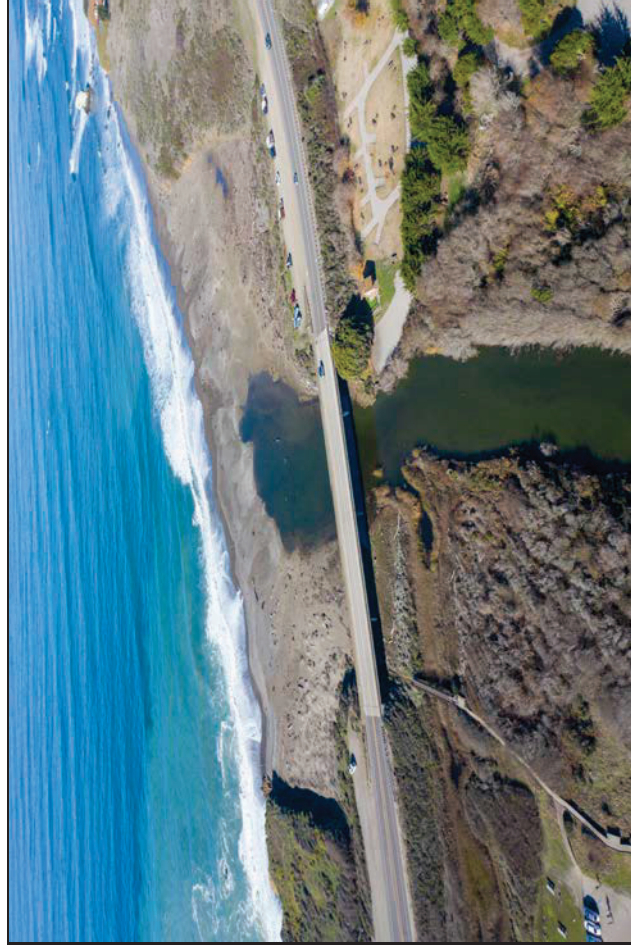


Site 8

CCSD Monitoring January 17, 2021



Walking Bridge PS-1

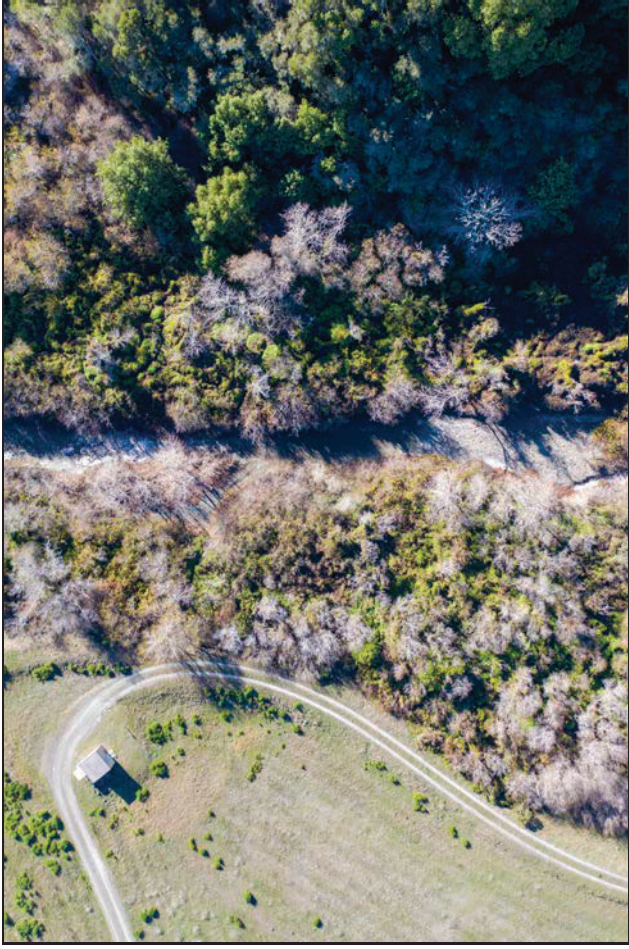


Estuary PS-2



9P7 Well

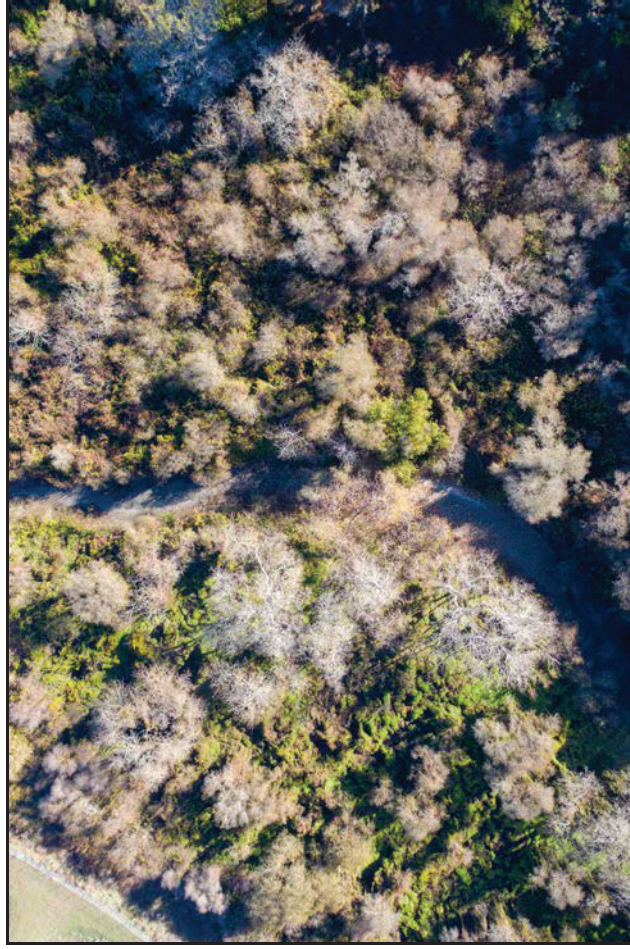
CCSD Monitoring January 17, 2021



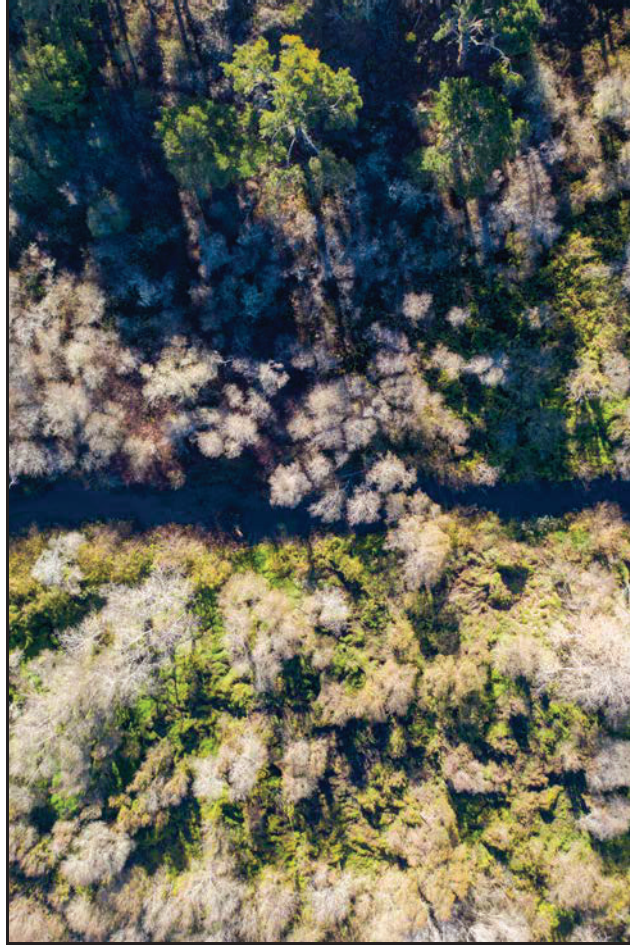
Site 1 Aerial



Site 2 Aerial

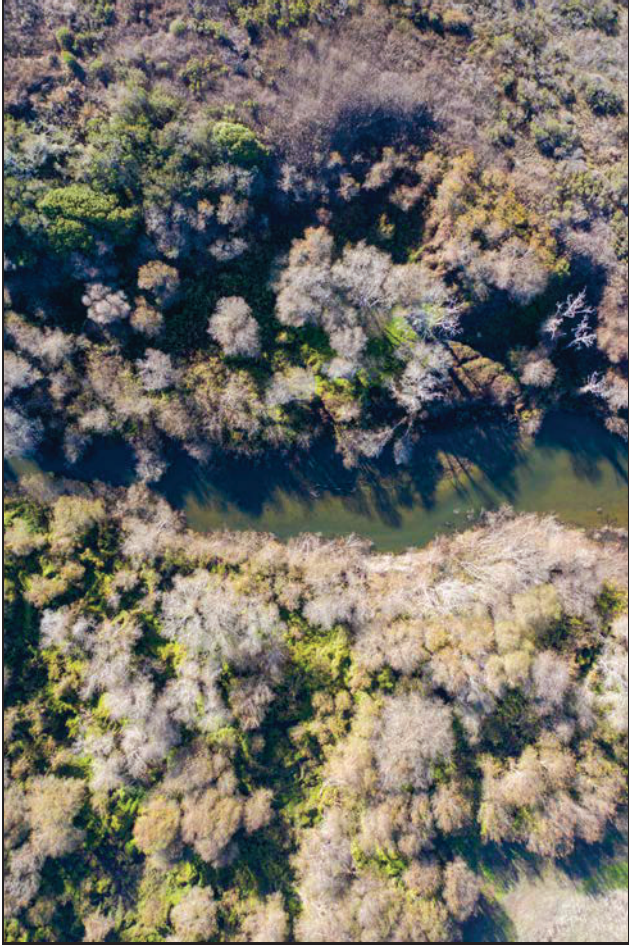


Site 3 Aerial

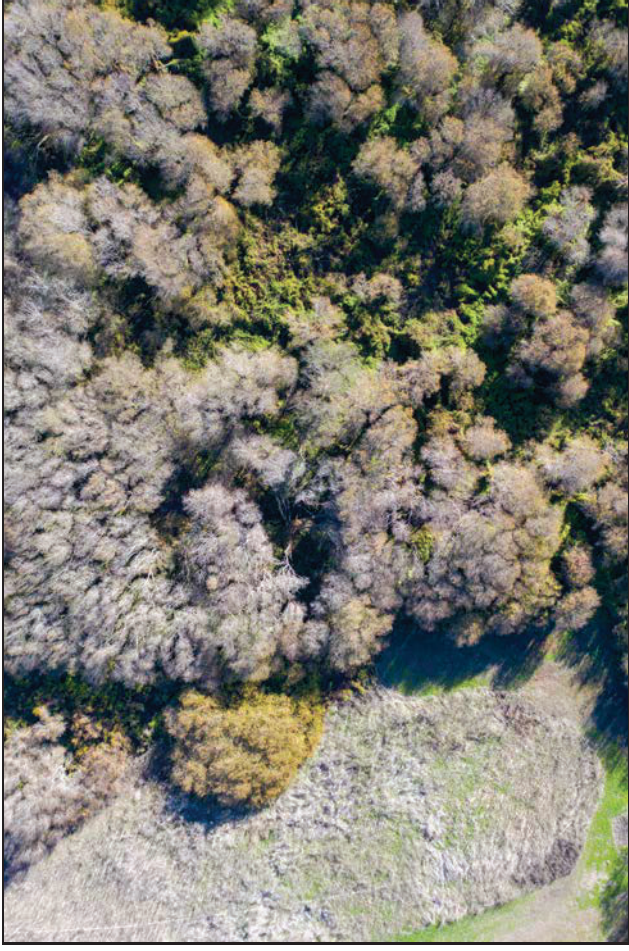


Site 4 Aerial

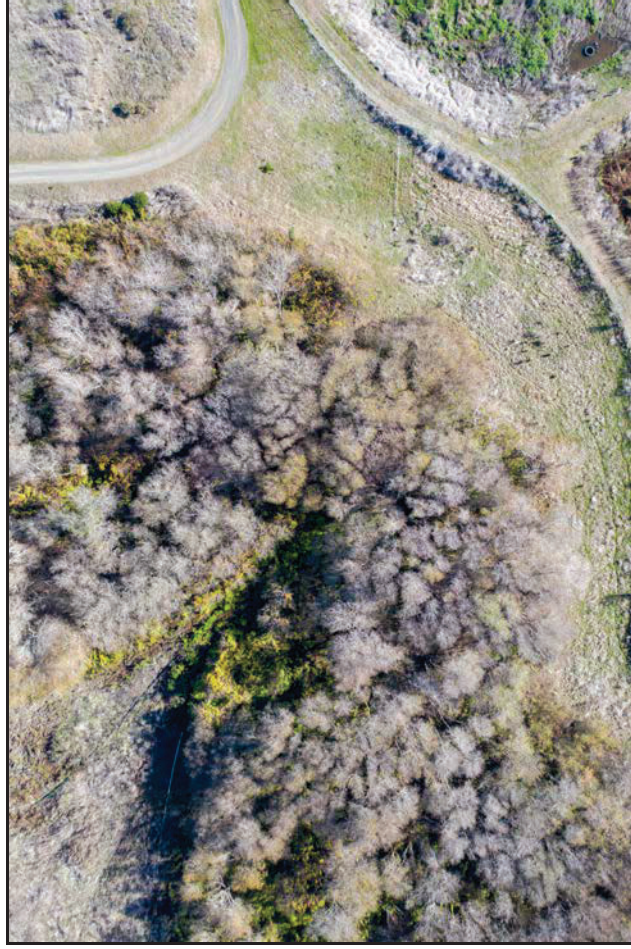
CCSD Monitoring January 17, 2021



Site 5 Aerial



Site 7 Aerial

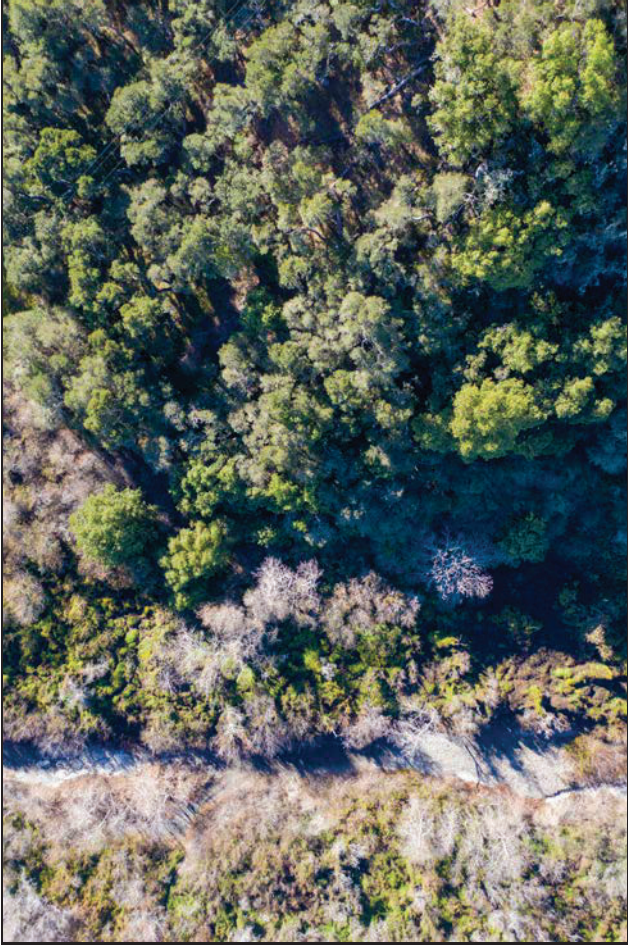


Site 8 Aerial

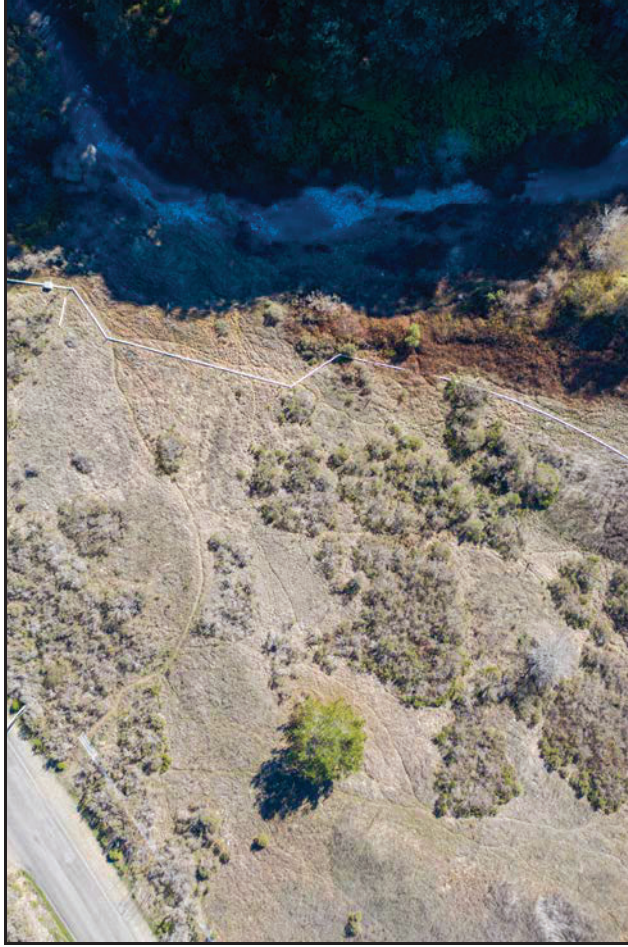
CCSD Monitoring January 17, 2021



Site 1 Riparian Left



Site 1 Riparian Right

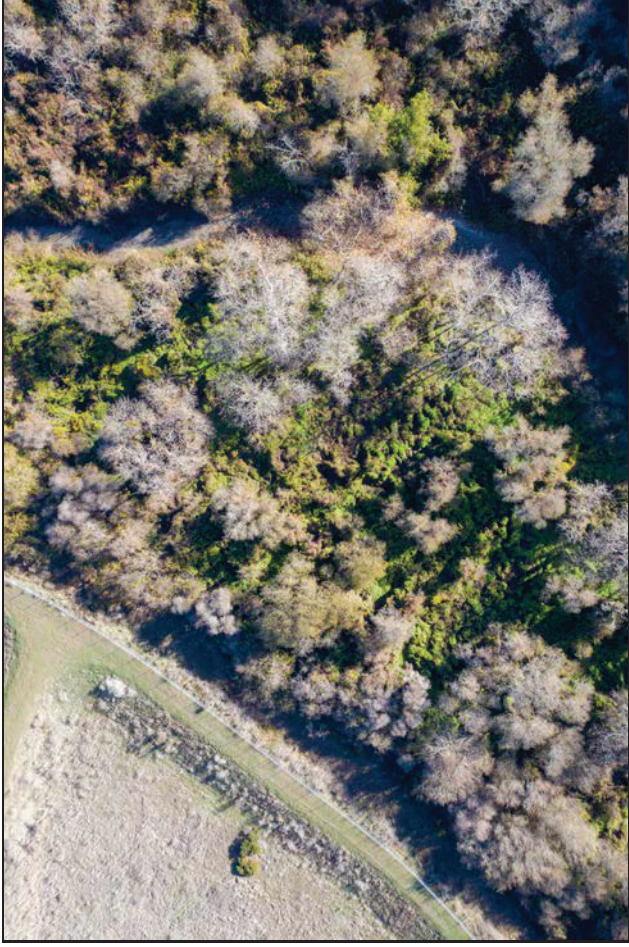


Site 2 Riparian Left

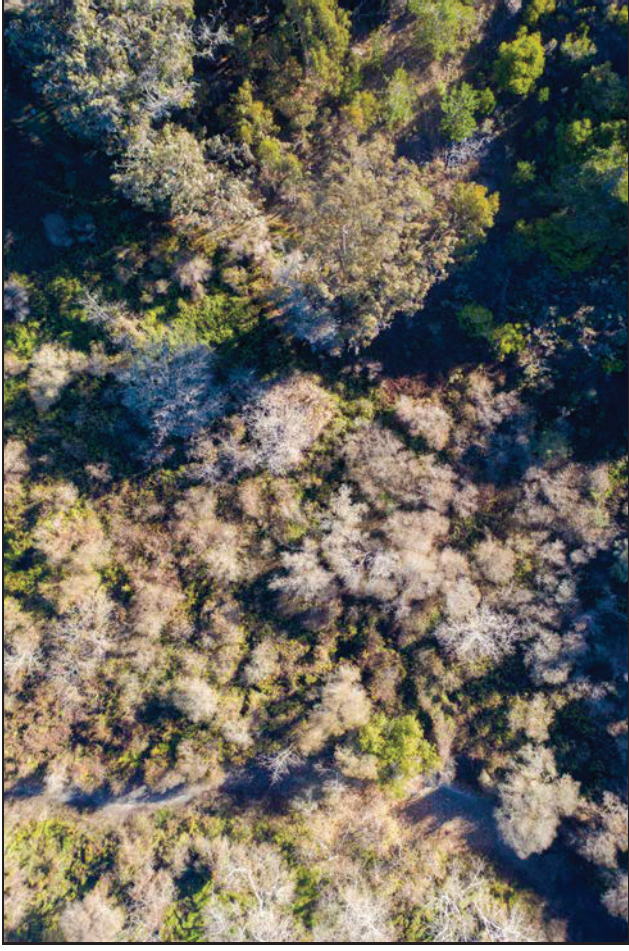


Site 2 Riparian Right

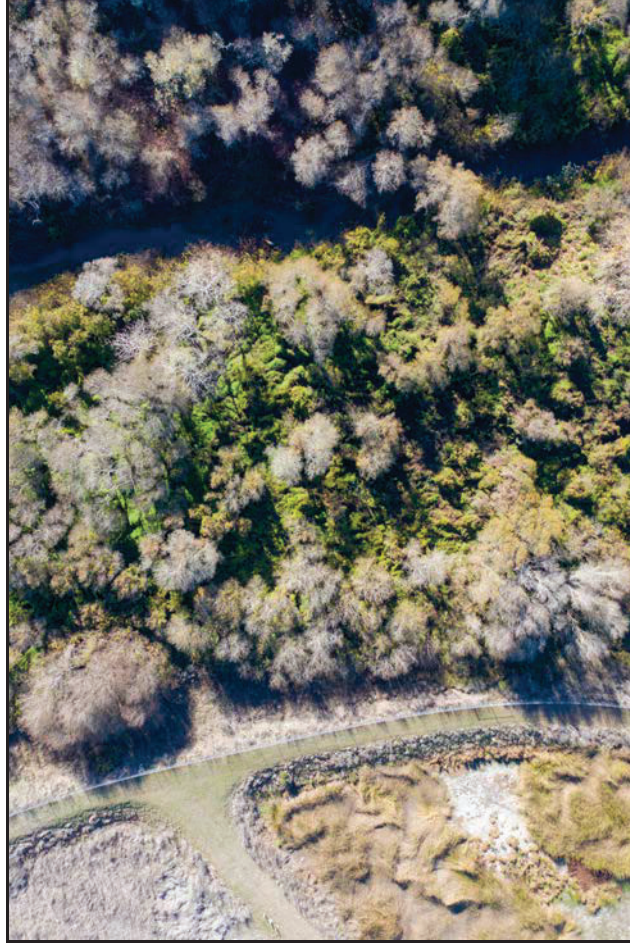
CCSD Monitoring January 17, 2021



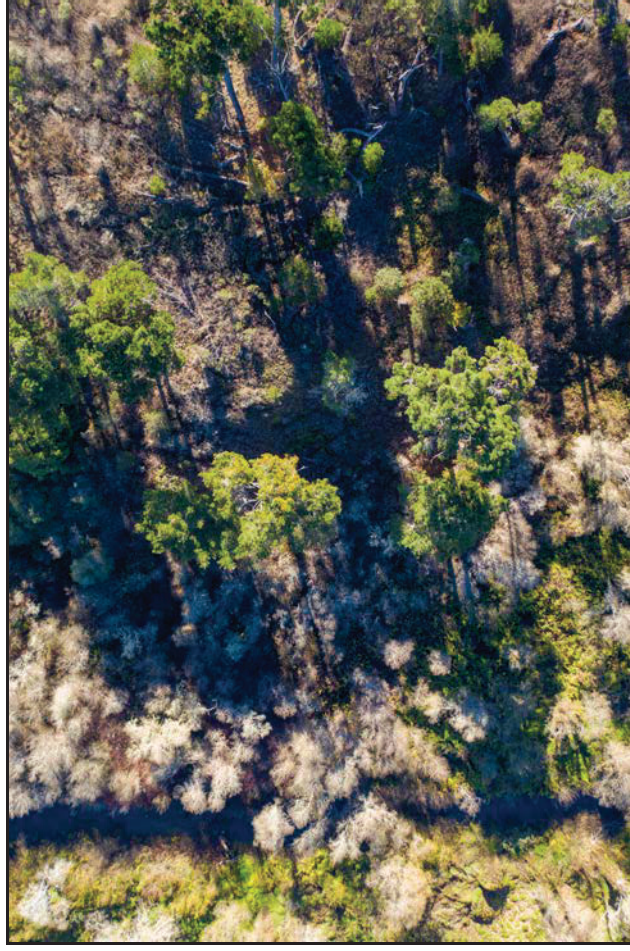
Site 3 Riparian Left



Site 3 Riparian Right

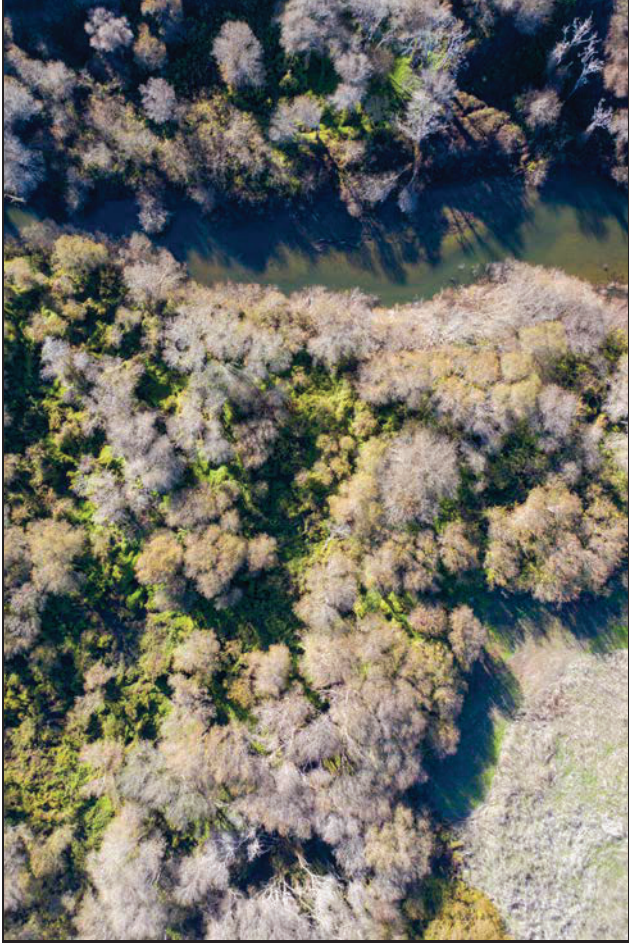


Site 4 Riparian Left

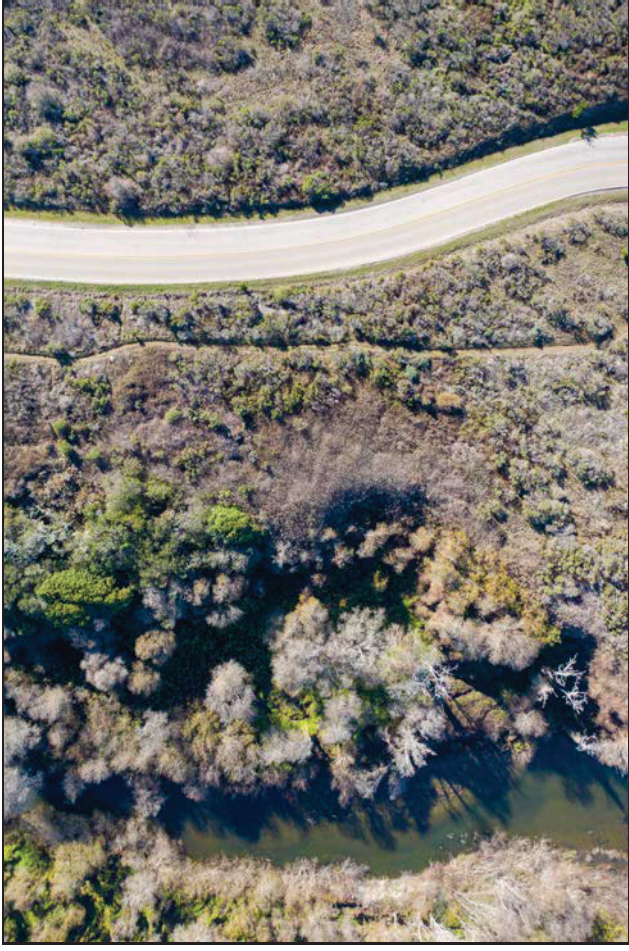


Site 4 Riparian Right

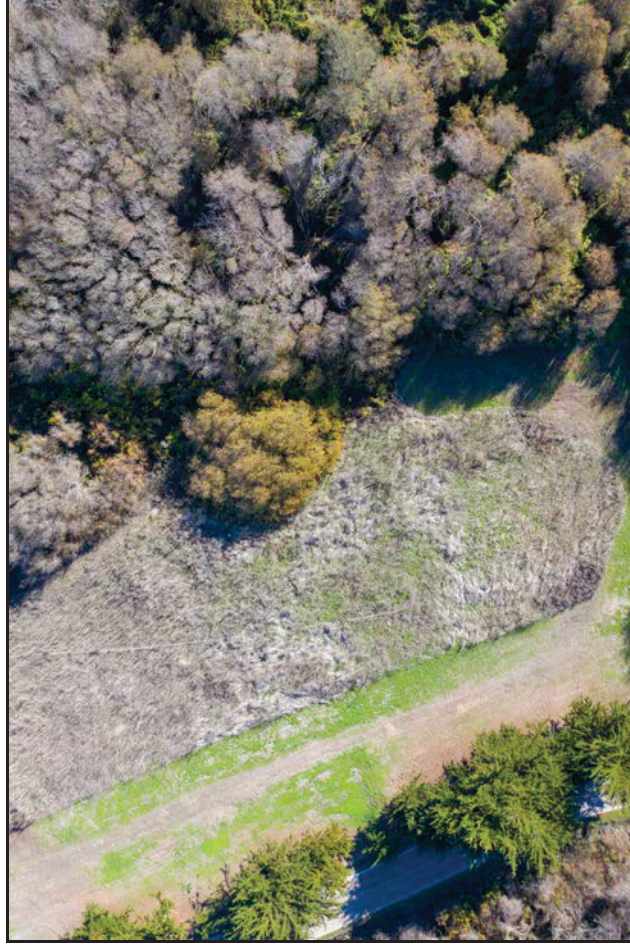
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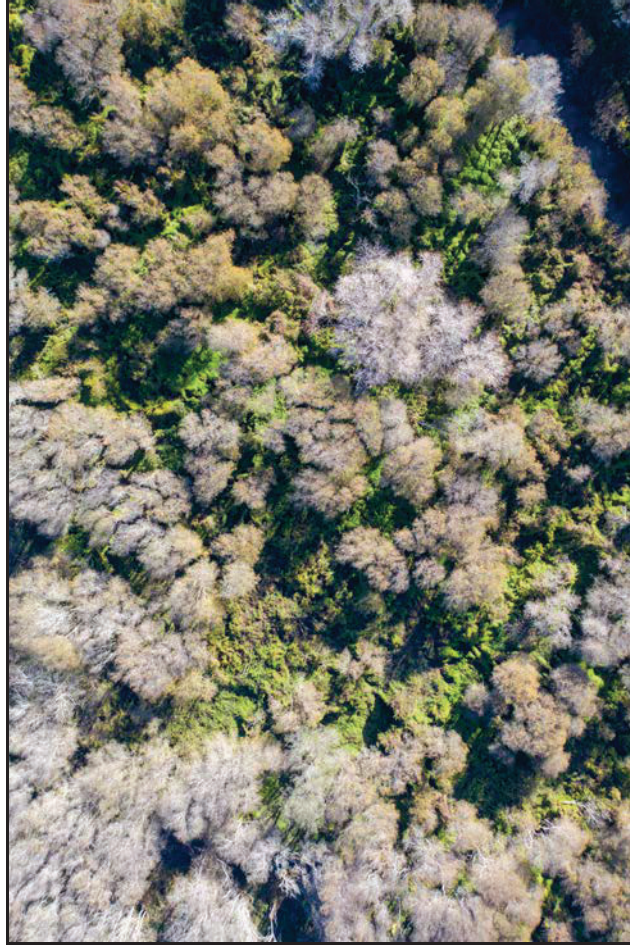
Site 5 Riparian Left



Site 5 Riparian Right

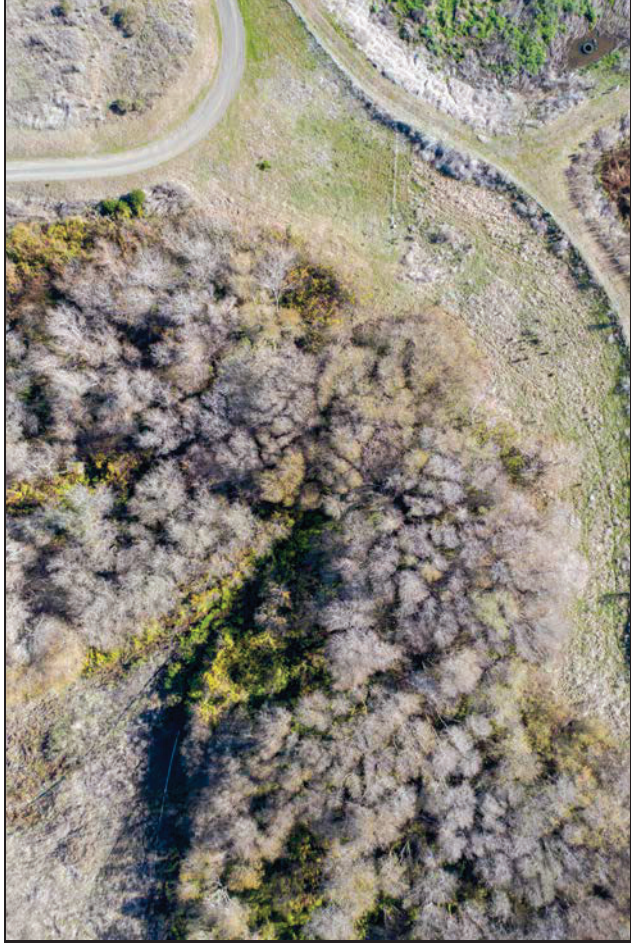


Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring January 17, 2021



Site 8 Riparian Left & Right

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February 14, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



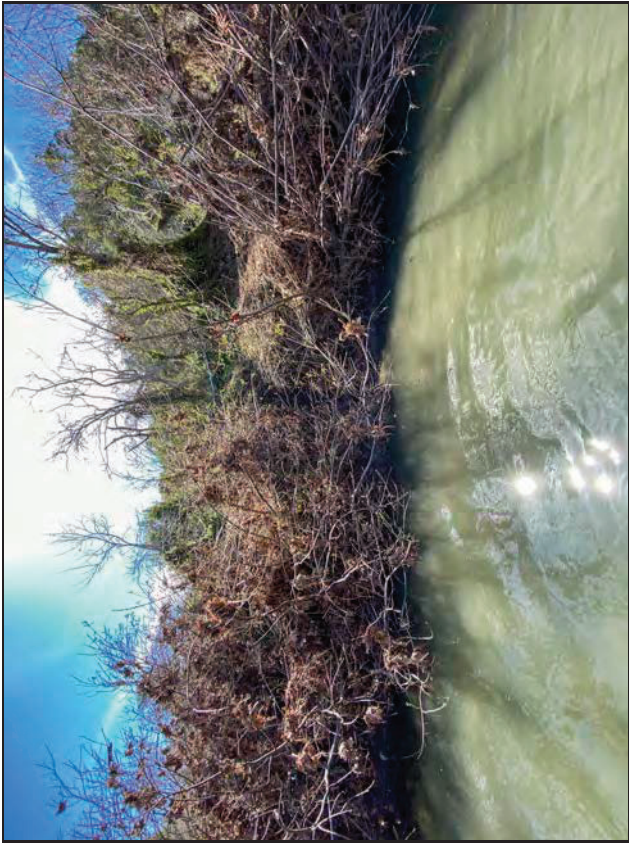
Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 2-14-2021		High Tide: 4.88 ft @ 11:20 AM	Low Tide: 1.77 ft @ 5:27 AM	Sandbar Breached: Yes	Stage (718): 2.39		
Location	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8
Time	12:20 PM	11:46 AM	11:00 AM	10:30 AM	10:06	9:55 AM	9:37 AM
Weather (°F, Cloud cover)	71, clear	64, clear	55, clear	54, clear	54, few clouds	54, few clouds	56, few clouds
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	0	0	0	0	0	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	30.3	50	21.5	50	50	21.6	23.3
Riparian Moisture-Lt Bank (%)	18.1	50	17.5	50	23.4	20.1	17.1
Hydrology							
Maximum depth (ft)	1.4	0.7	0.6	1.3	3.4	dry	0.2
Wetted width (ft)	15.2	34	23.5	34.5	54.5	dry	5.2
Flow = Area x Rate (cfs)	3.9	4.1	5.3	21.7	19.9	dry	0.0
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	1	0.3	0.5	1.2	0.8	dry	0.1
Depth 2 @ 1/2 (ft)	1.4	0.2	0.3	1.2	3.2	dry	0.1
Depth 3 @ 3/4 (ft)	1	0.7	0.2	6	3.3	dry	0.1
Average Depth = total/4 (ft)	0.9	0.3	0.3	2.1	1.8	dry	0.1
Area = Width x Avg Depth (ft^2)	12.9	10.2	5.9	72.5	99.5	dry	0.4
Rate from meter (ft/sec)	0.3	0.4	0.9	0.3	0.2	dry	0.1

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	55.3	53.9	52.6	51.8	50.2	dry	50.1
Dissolved Oxygen (%)	100.3	92.7	94.2	86.9	91.4	dry	84.4
Dissolved Oxygen (ppm)	10.57	10.41	10.27	9.56	10.25	dry	9.47
Total Dissolved Solids (mg/L)	378	380	237	429	468	dry	780
Salinity (ppt)	0.28	0.29	0.17	0.32	0.35	dry	0.6
Species Observed	No fish observed in fairly clear water. Birds - Great blue heron, Wilson's warbler, 2 Red-tailed hawks, Turkey vultures, Black phoebe.						
Comments	Water flow continuous at all San Simeon Creek sites. Van Gordon dry 50 ft downstream of Site 8.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	12.8						
East (%)	9						
South (%)	13						
West (%)	14.1						
†Moisture measured on each side of well casing. Max reading is 50%.							

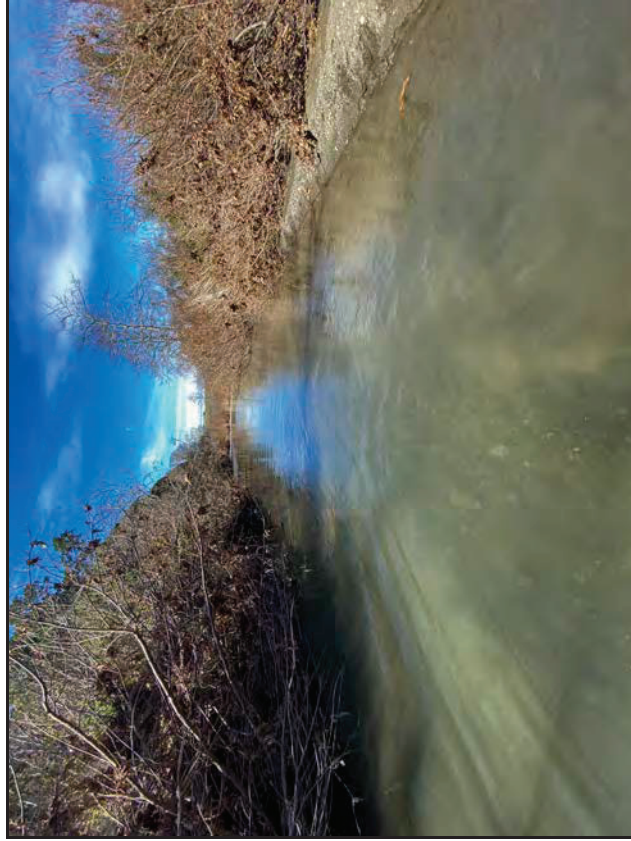
CCSD Monitoring February 14, 2021



Site 1



Site 1



Site 1

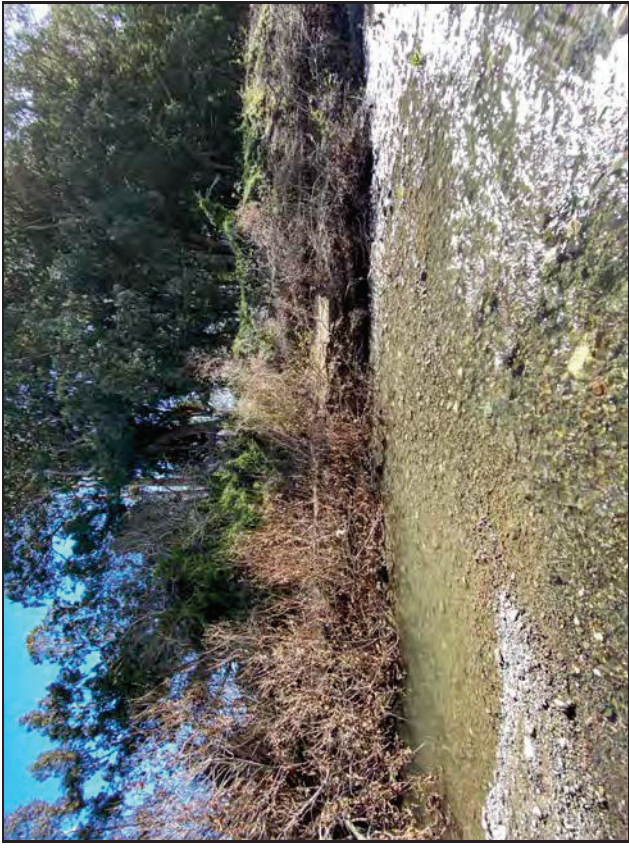


Site 1

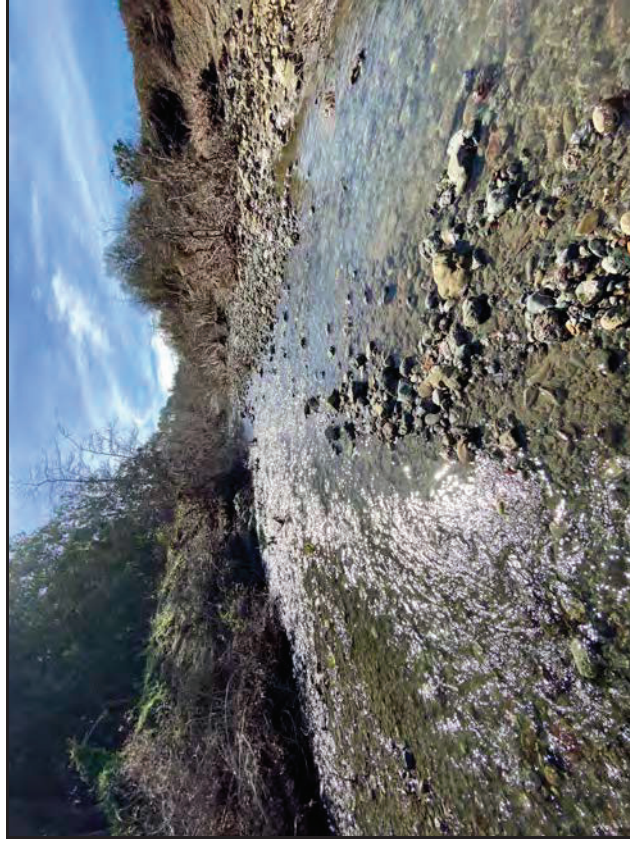
CCSD Monitoring February 14, 2021



Site 2



Site 2



Site 2

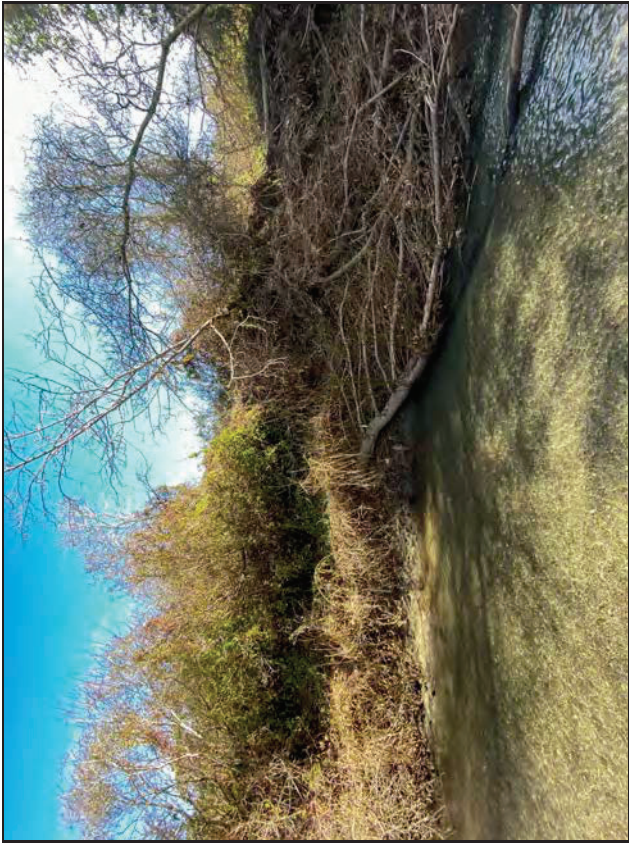


Site 2

CCSD Monitoring February 14, 2021



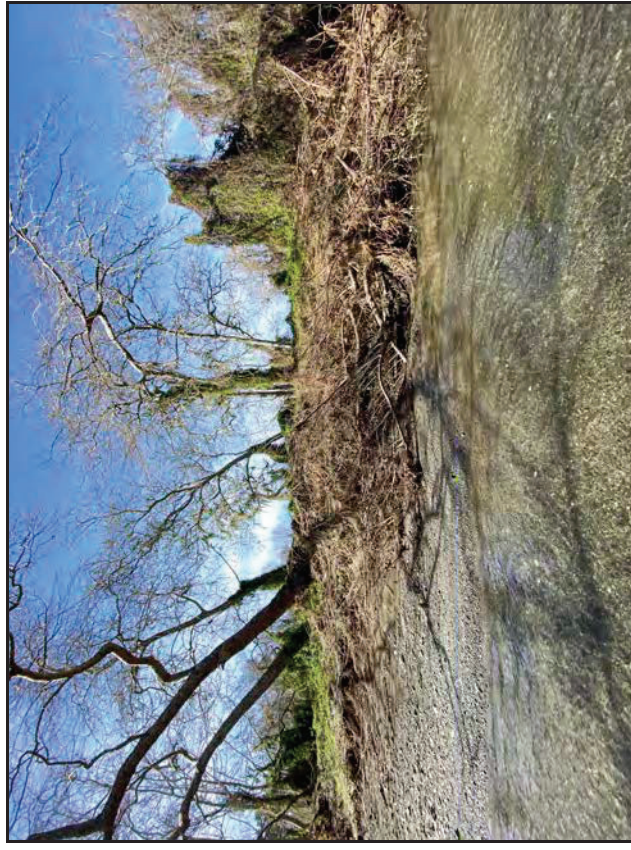
Site 3



Site 3

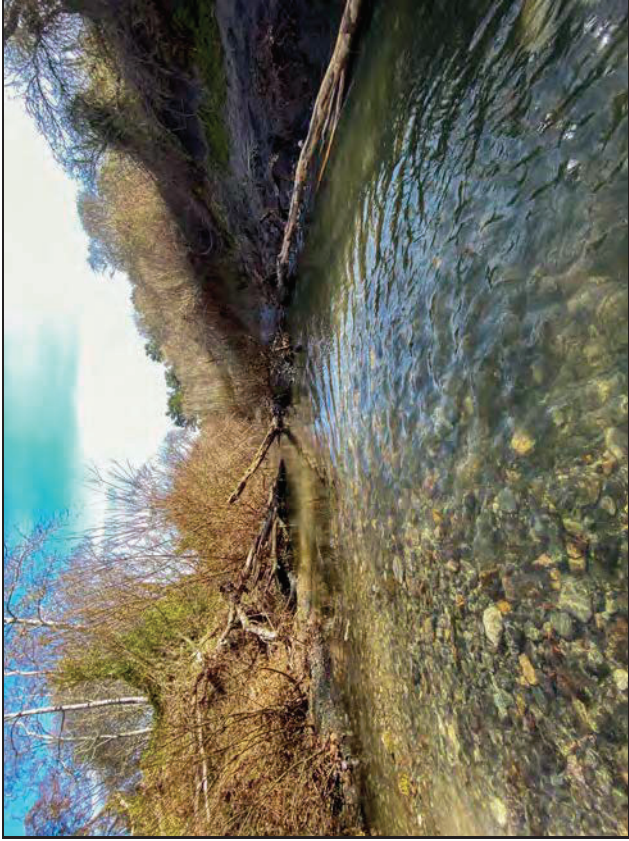


Site 3



Site 3

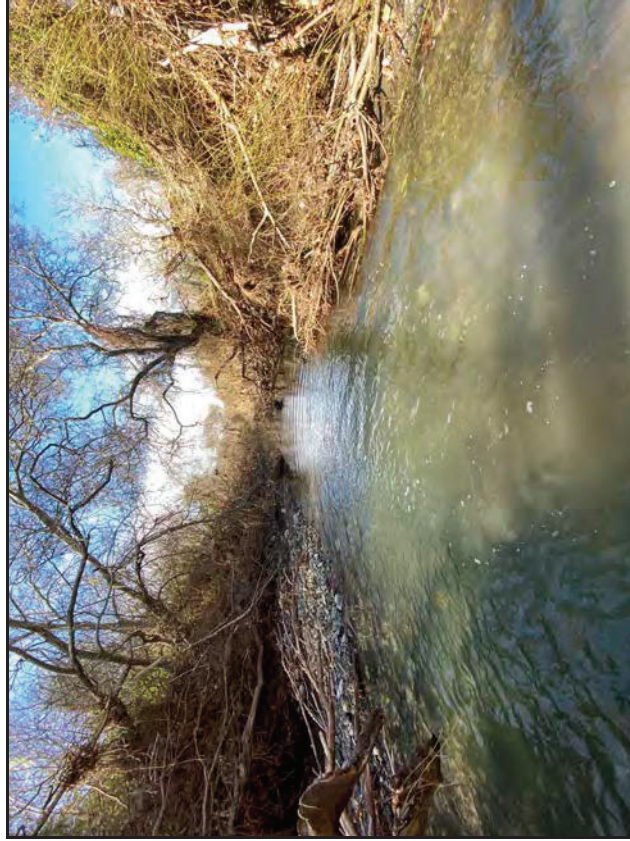
CCSD Monitoring February 14, 2021



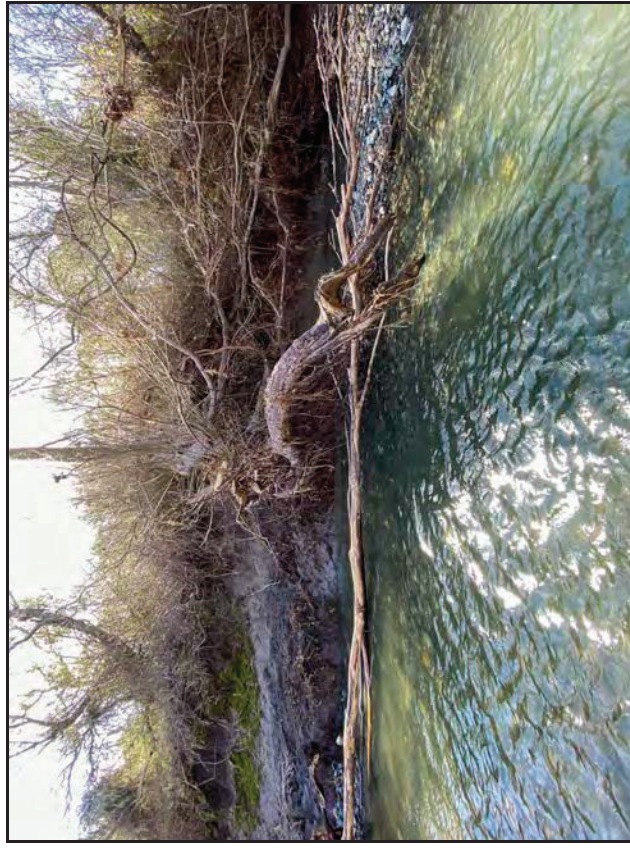
Site 4



Site 4

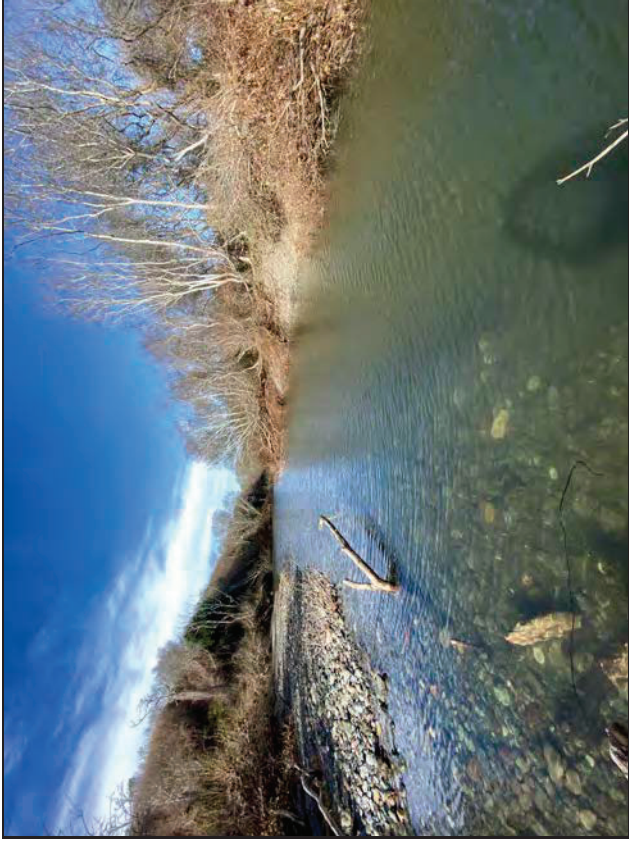


Site 4



Site 4

CCSD Monitoring February 14, 2021



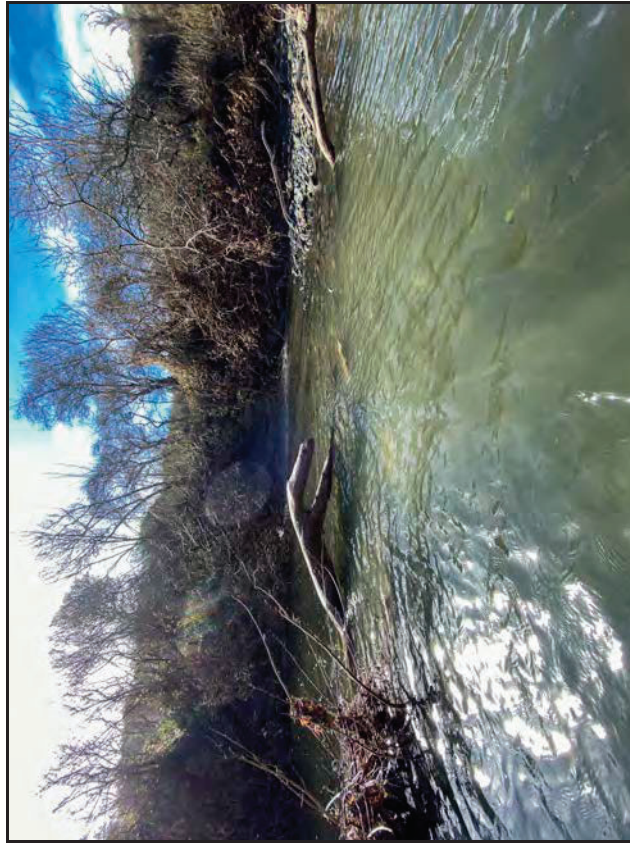
Site 5



Site 5



Site 5



Site 5

CCSD Monitoring February 14, 2021



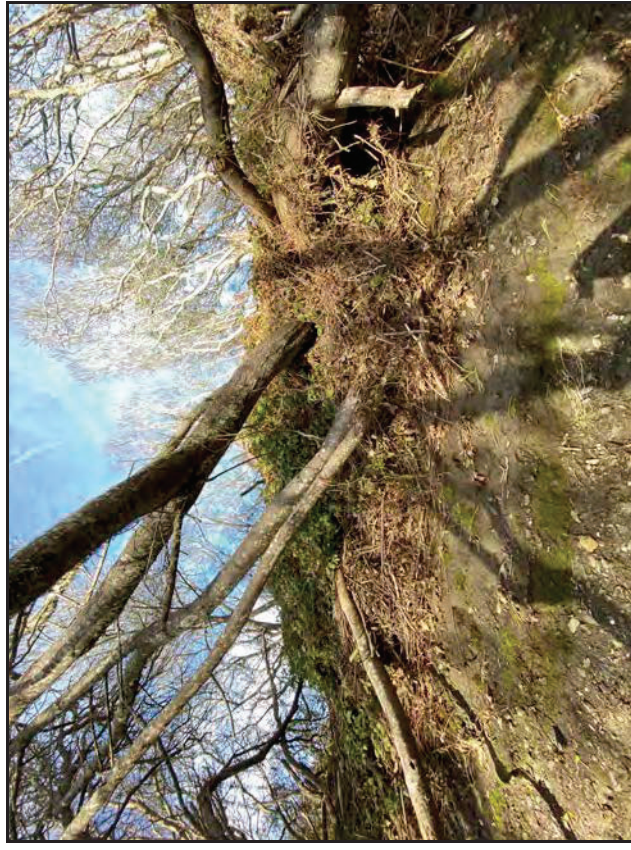
Site 7



Site 7



Site 7



Site 7

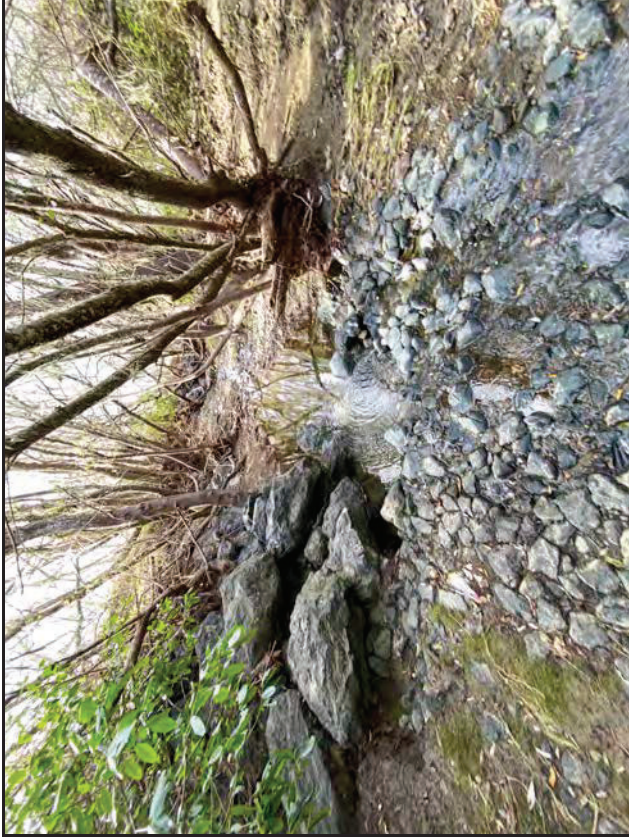
CCSD Monitoring February 14, 2021



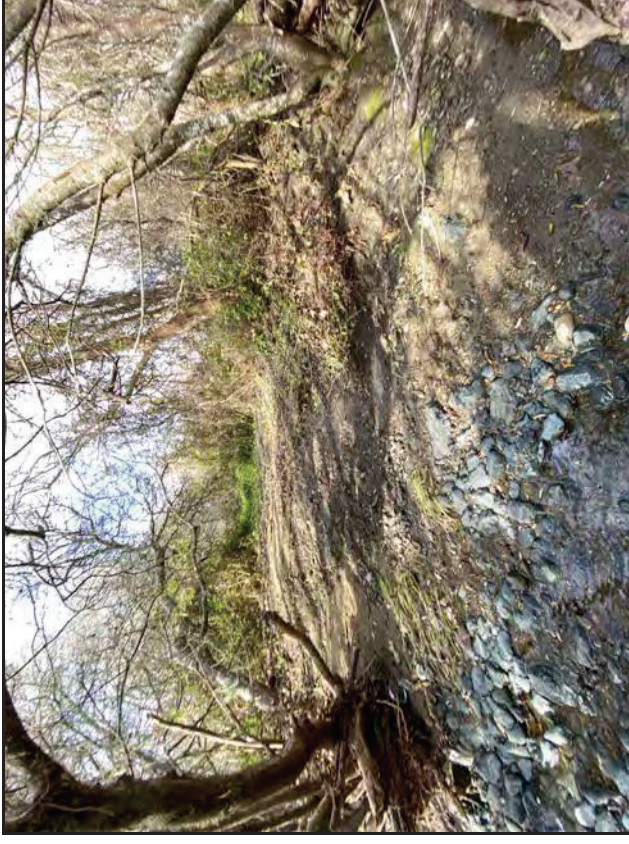
Site 8



Site 8

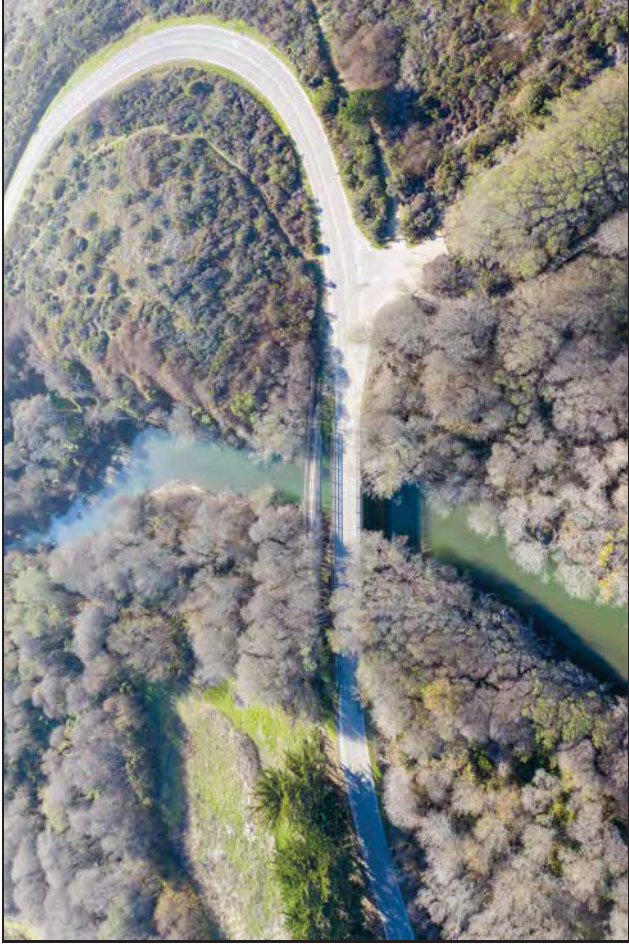


Site 8

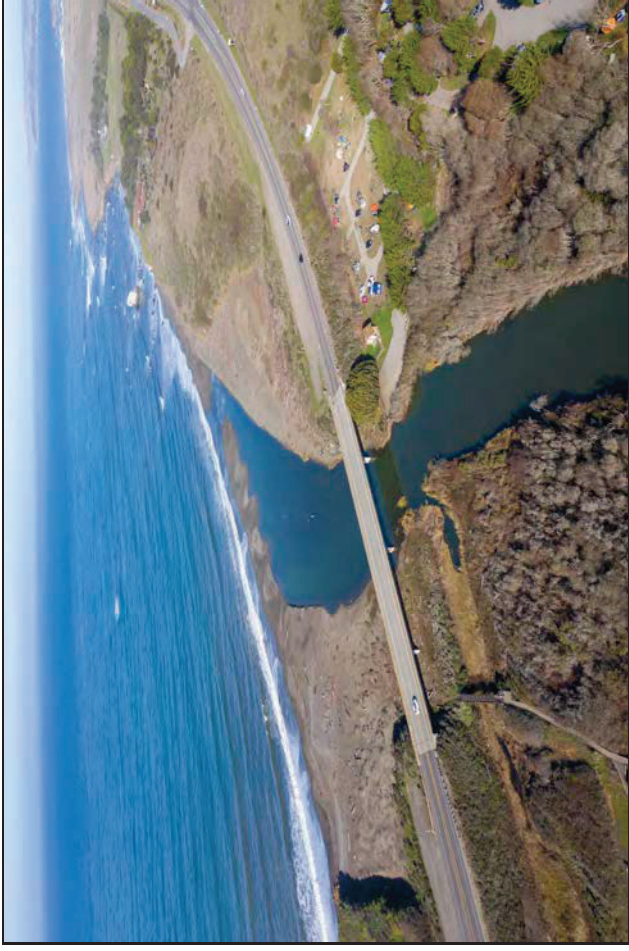


Site 8

CCSD Monitoring February 14, 2021



Walking Bridge PS-1

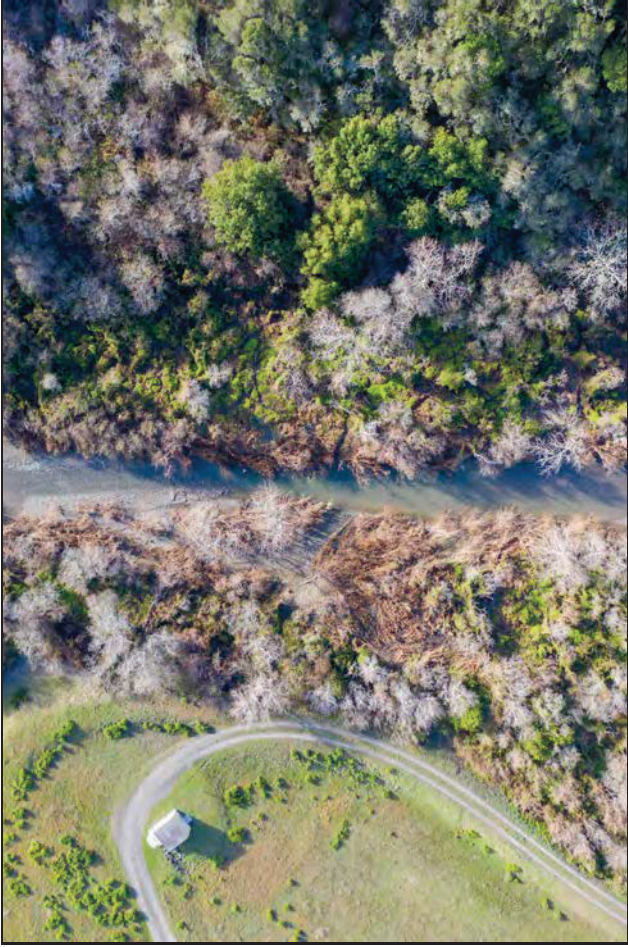


Estuary PS-2



9P7 Well

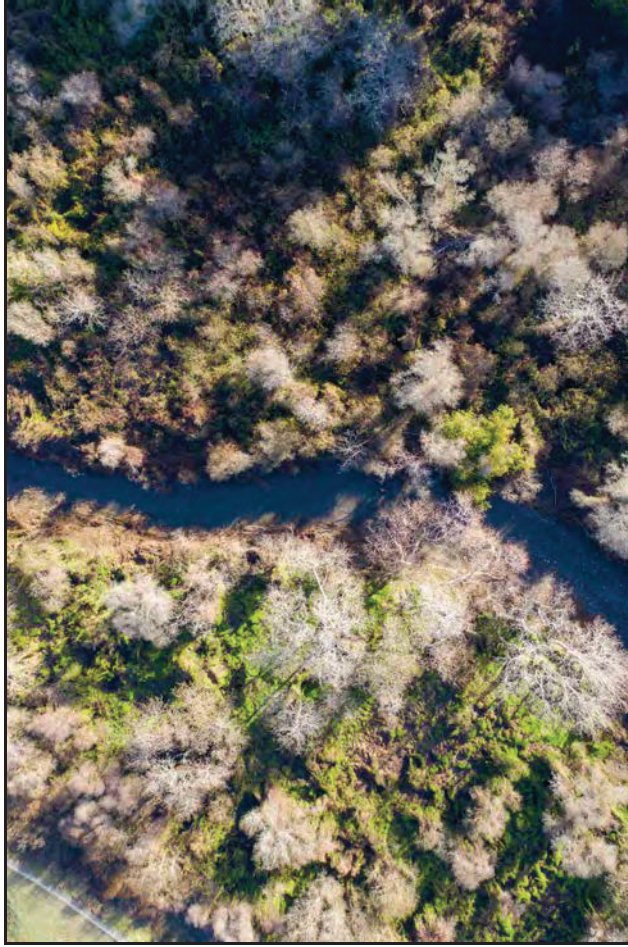
CCSD Monitoring February 14, 2021



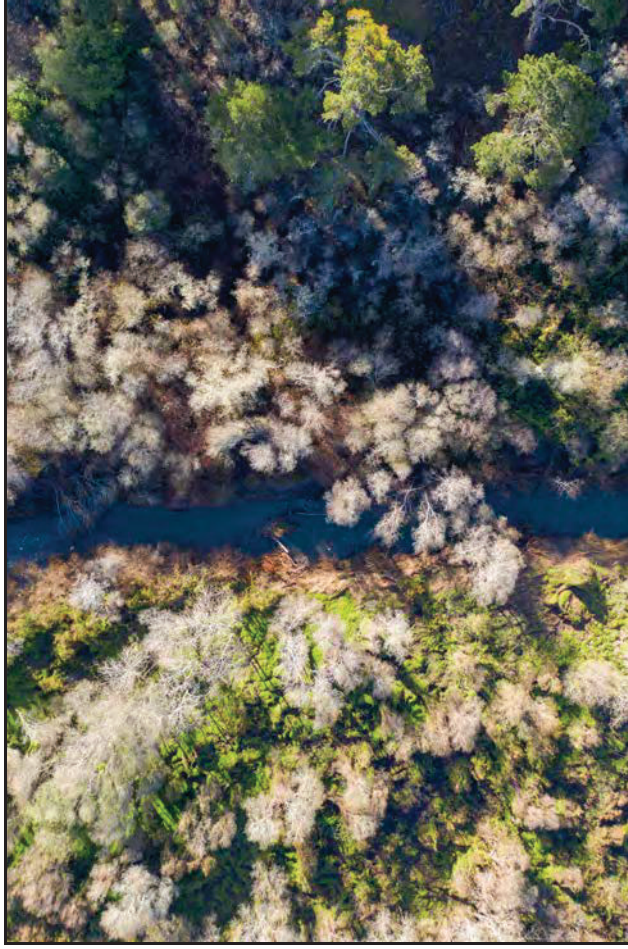
Site 1 Aerial



Site 2 Aerial

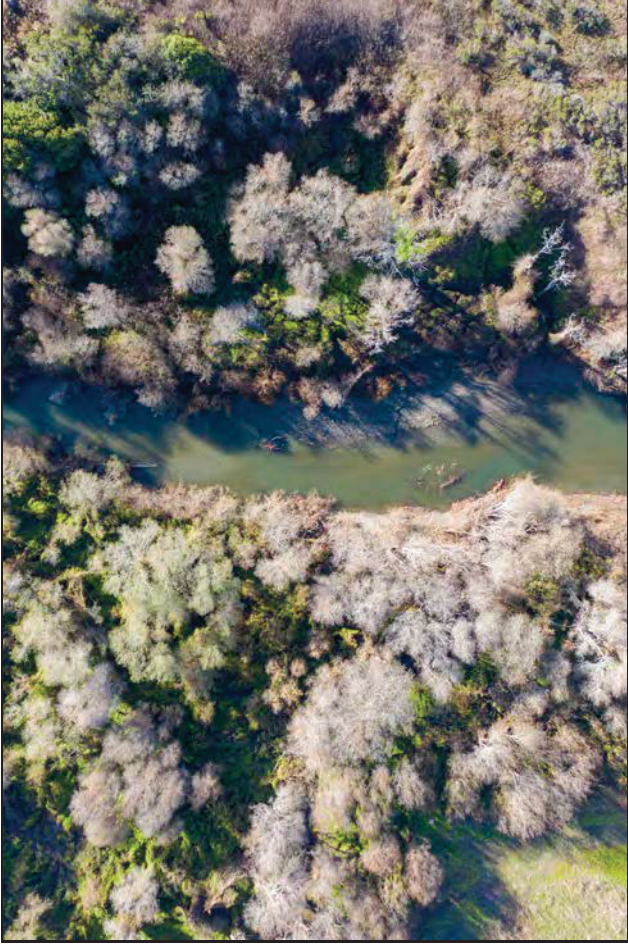


Site 3 Aerial



Site 4 Aerial

CCSD Monitoring February 14, 2021



Site 5 Aerial

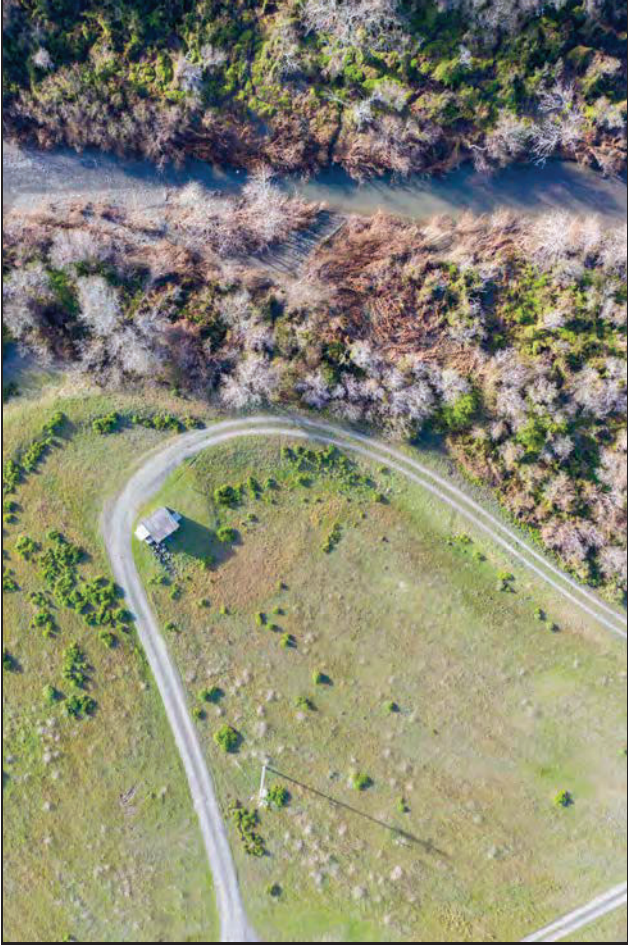


Site 7 Aerial

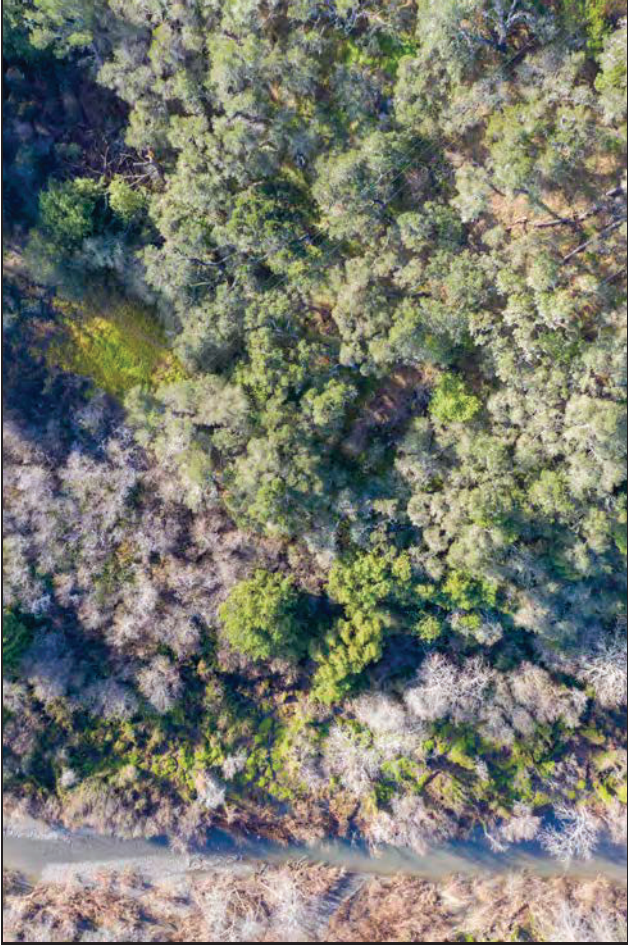


Site 8 Aerial

CCSD Monitoring February 14, 2021



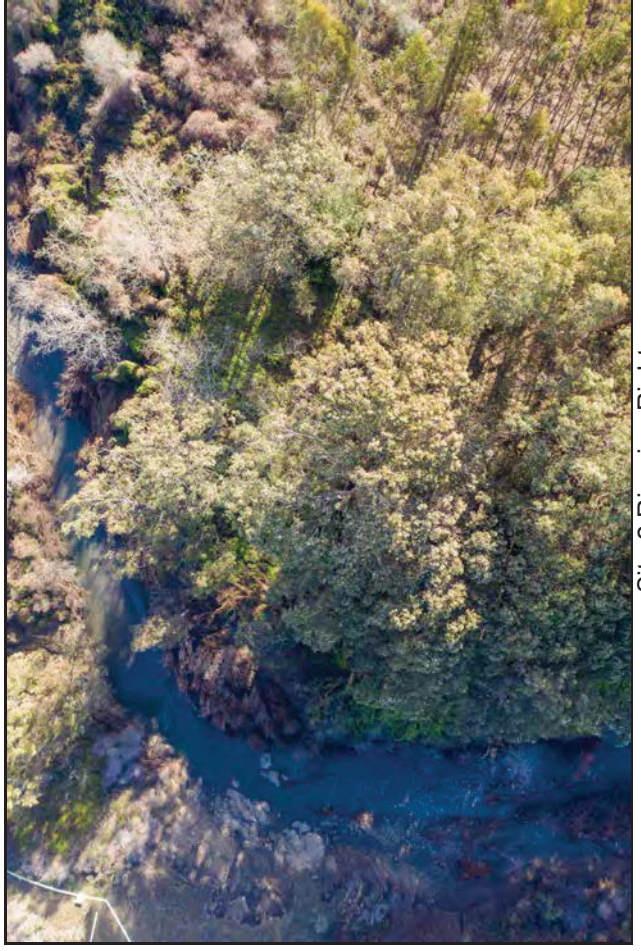
Site 1 Riparian Left



Site 1 Riparian Right

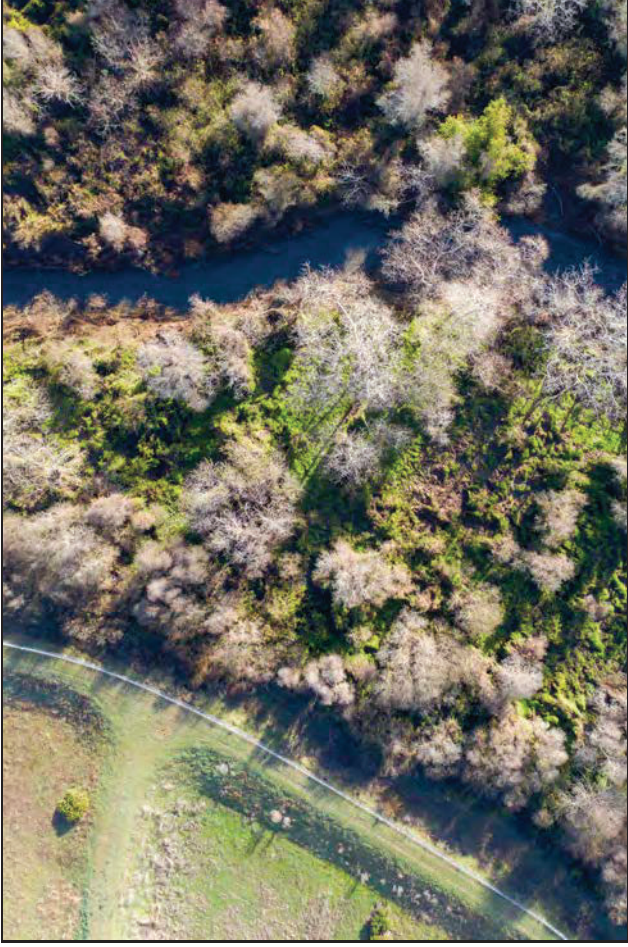


Site 2 Riparian Left

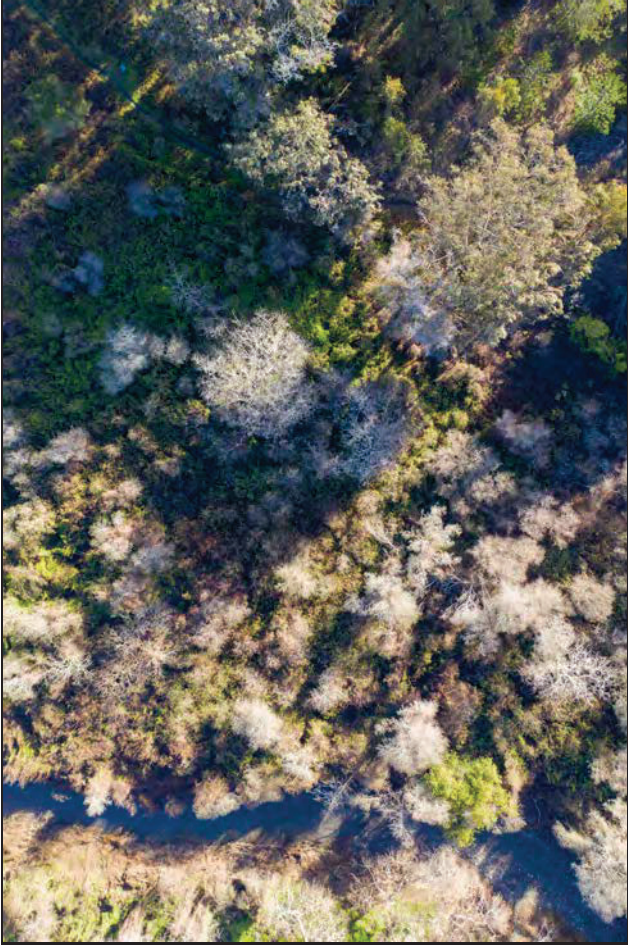


Site 2 Riparian Right

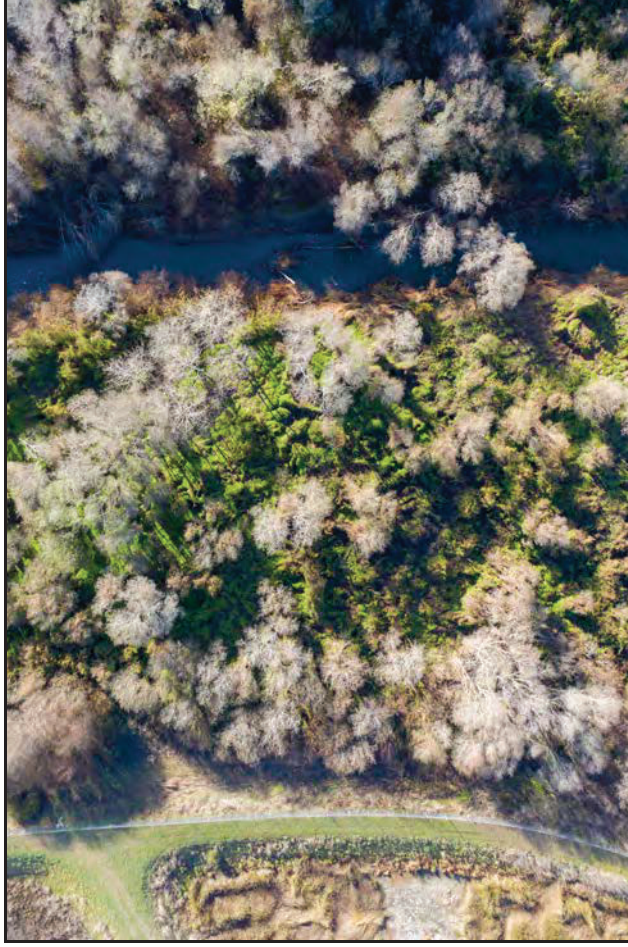
CCSD Monitoring February 14, 2021



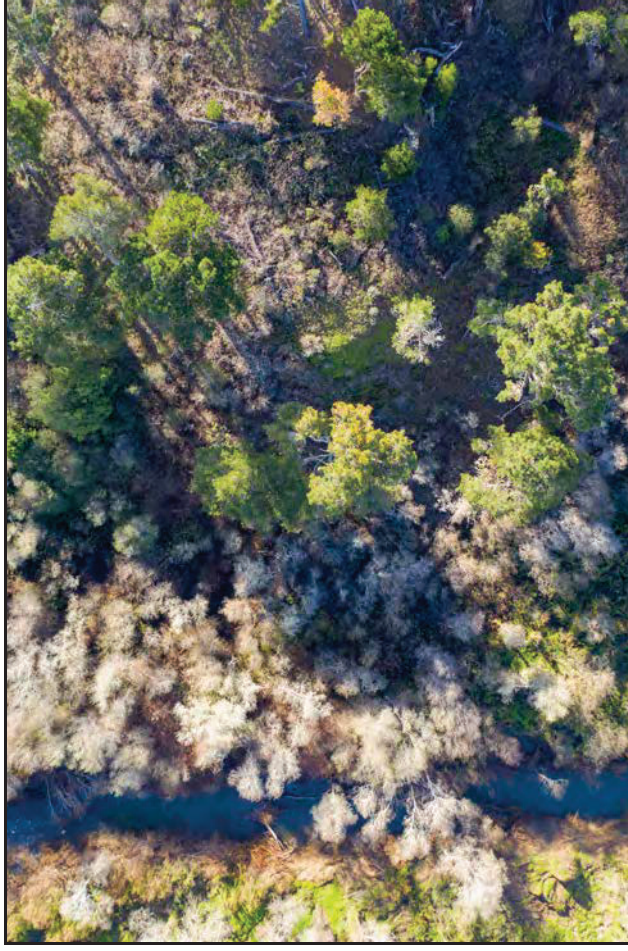
Site 3 Riparian Left



Site 3 Riparian Right

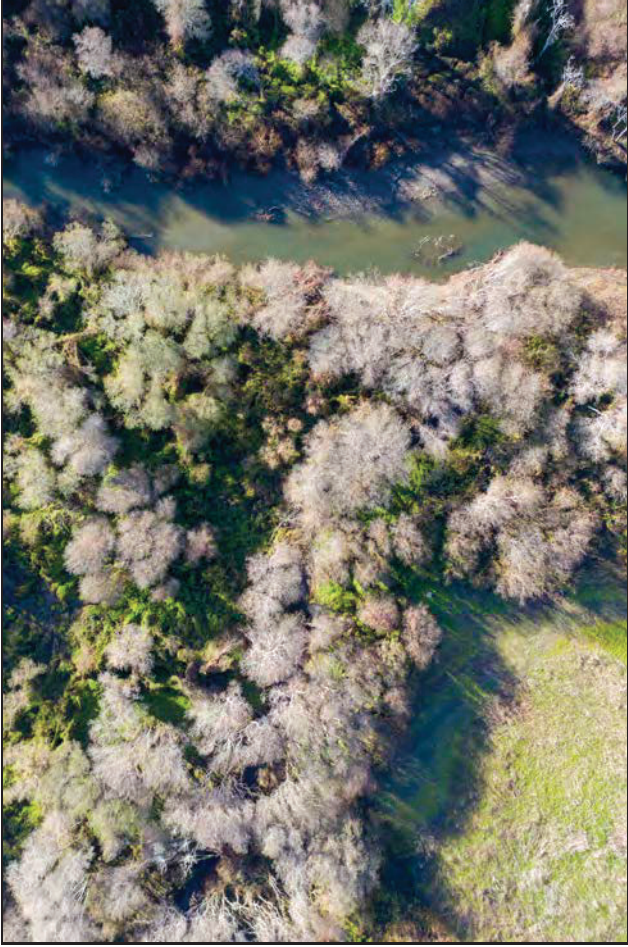


Site 4 Riparian Left



Site 4 Riparian Right

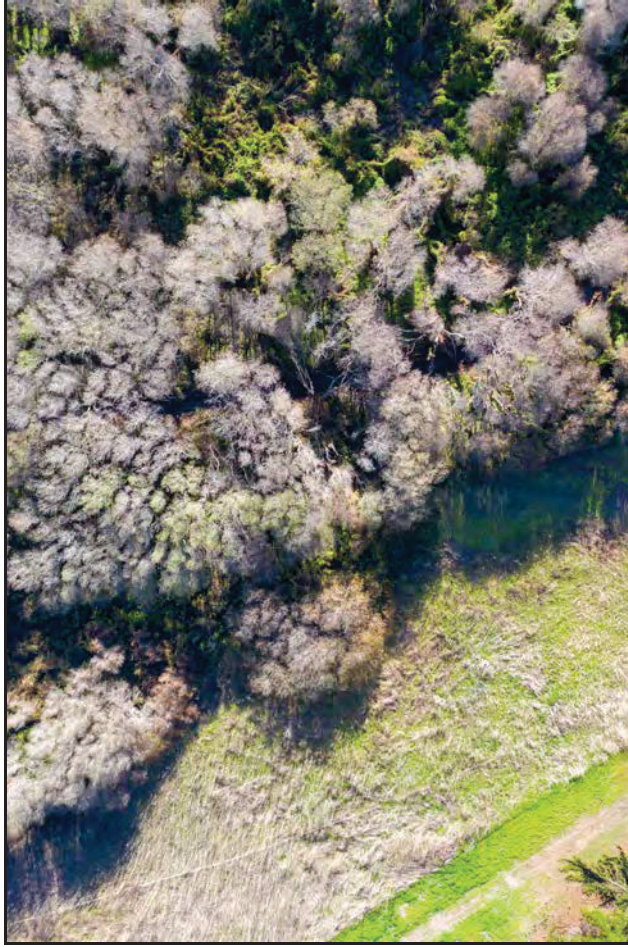
CCSD Monitoring February 14, 2021



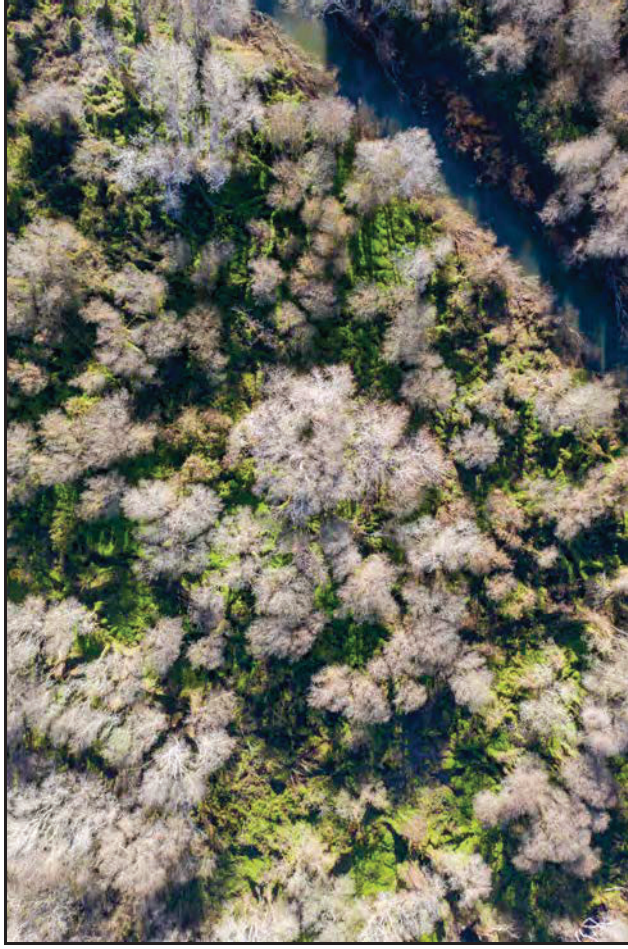
Site 5 Riparian Left



Site 5 Riparian Right

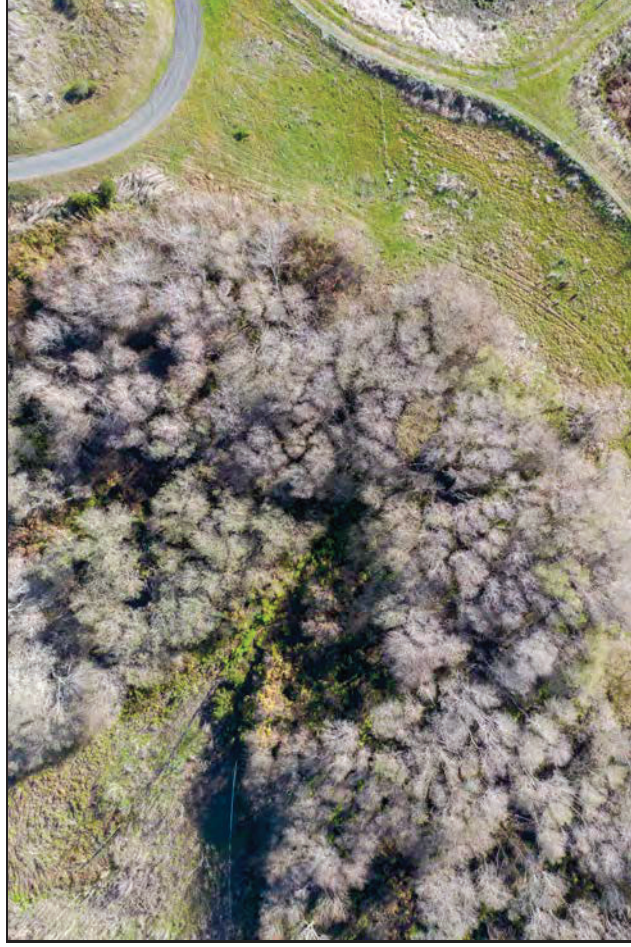


Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring February 14, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

February 28, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

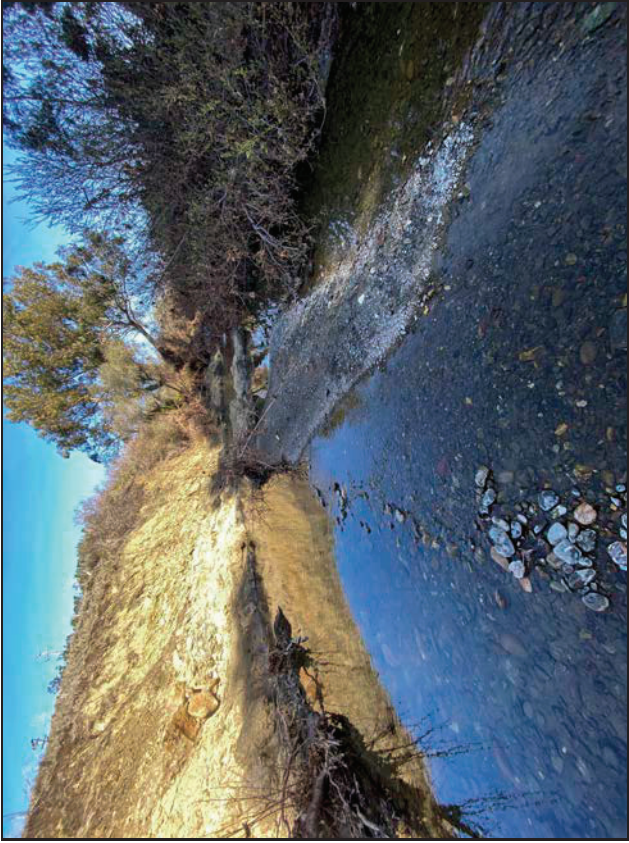
 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 2-28-2021		High Tide: 5:55 ft @ 10:23 AM	Low Tide: 1:22 ft @ 4:21 AM	Sandbar Breached: No	Stage (718): 2.29		
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	12:00 PM	10:31 AM	10:06 AM	9:42 AM	9:21	9:08 AM	9:00 AM
Weather (°F, Cloud cover)	64, clear	62, clear	58, clear	58, clear	56, clear	56, clear	56, clear
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	0	0	0	0	0	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	29.5	19.2	13.4	30.1	25.2	23.6	21.2
Riparian Moisture-Lt Bank (%)	8.7	50	17.4	48	19	17.8	17.4
Hydrology							
Maximum depth (ft)	1.4	0.6	0.4	1.5	3.1	dry	0.15
Wetted width (ft)	22	32	22.5	22	51.5	dry	3.9
Flow = Area x Rate (cfs)	3.7	1.4	0.8	3.8	8.8	dry	0.04
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	1.2	0.6	0.4	1.1	1	dry	0.15
Depth 2 @ 1/2 (ft)	1.3	0.2	0.2	0.9	2.8	dry	0.15
Depth 3 @ 3/4 (ft)	0.9	0.1	0.1	0.3	3	dry	0.15
Average Depth = total/4 (ft)	0.9	0.2	0.2	0.6	1.7	dry	0.1
Area = Width x Avg Depth (ft^2)	18.7	7.2	3.9	12.7	87.6	dry	0.4
Rate from meter (ft/sec)	0.2	0.2	0.2	0.3	0.1	dry	0.1

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	57.2	52.8	53.4	53.4	56.5	dry	47.3
Dissolved Oxygen (%)	104.7	99.9	83.6	83.6	103.5	dry	83.2
Dissolved Oxygen (ppm)	10.77	10.86	9.01	9.01	10.1	dry	9.73
Total Dissolved Solids (mg/L)	409	409	542	542	1503	dry	785
Salinity (ppt)	0.31	0.31	0.41	0.41	1.21	dry	0.6
Species Observed	No fish observed in fairly clear water.						
Comments	Water flow continuous at all San Simeon Creek sites. Van Gordon dry 50 ft downstream of Site 8.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	16.6						
East (%)	8.4						
South (%)	9.6						
West (%)	10.8						
†Moisture measured on each side of well casing. Max reading is 50%.							

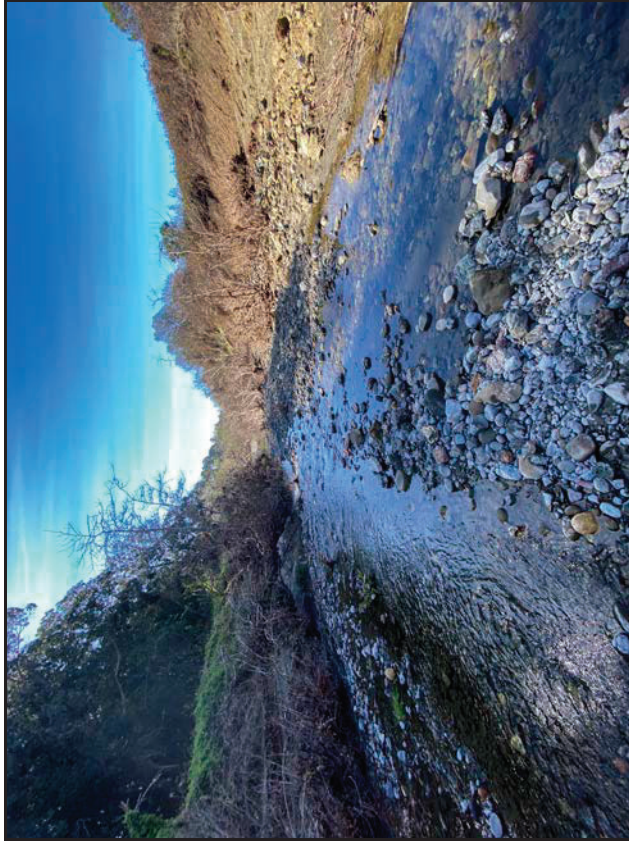
CCSD Monitoring February 28, 2021



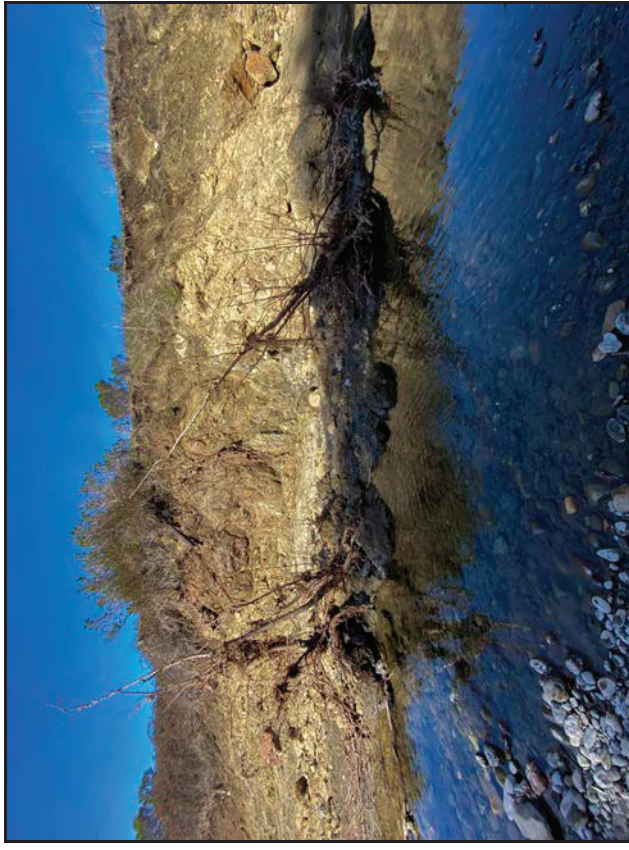
Site 2



Site 2

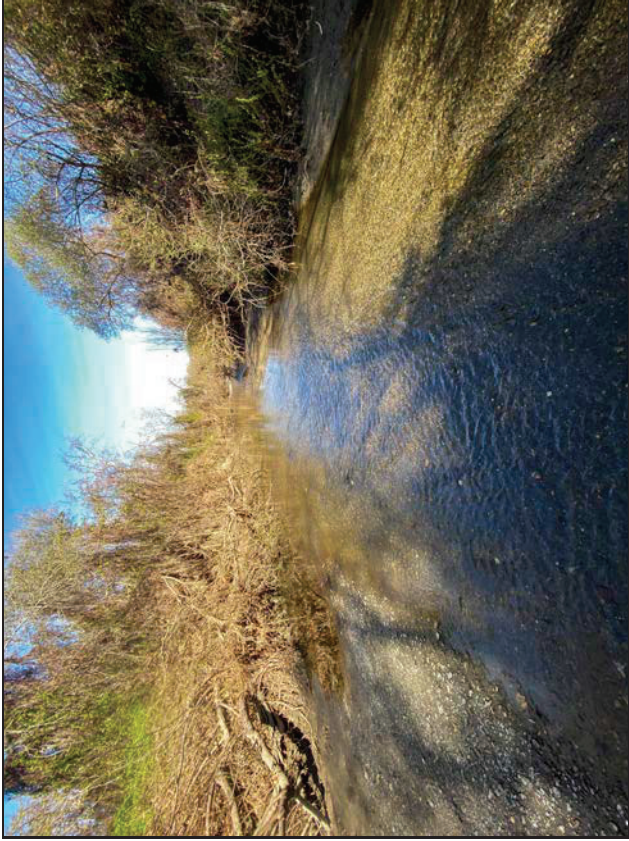


Site 2

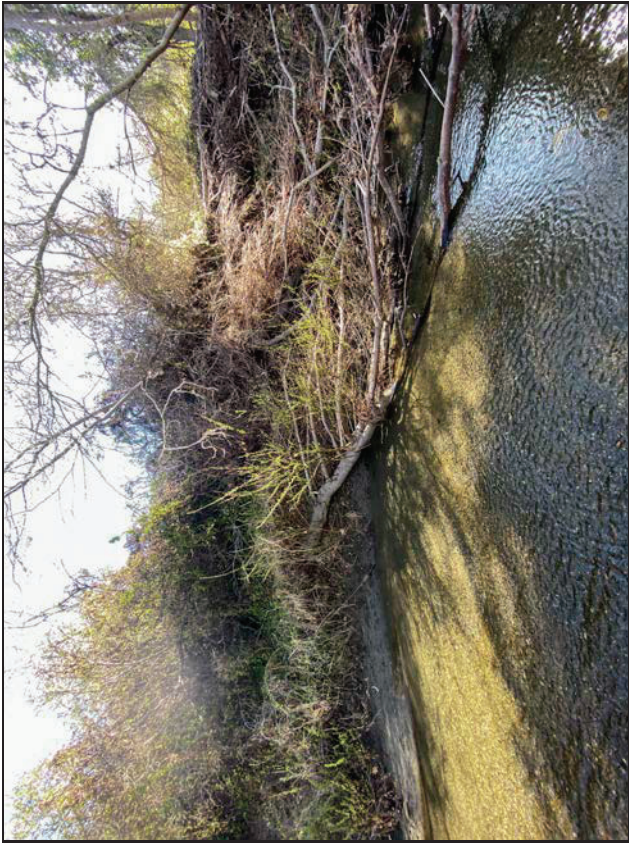


Site 2

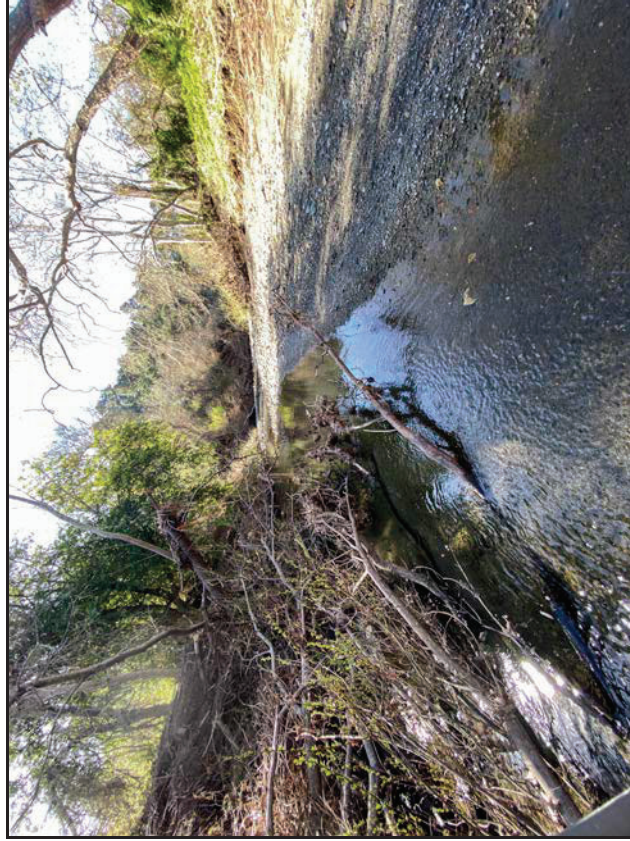
CCSD Monitoring February 28, 2021



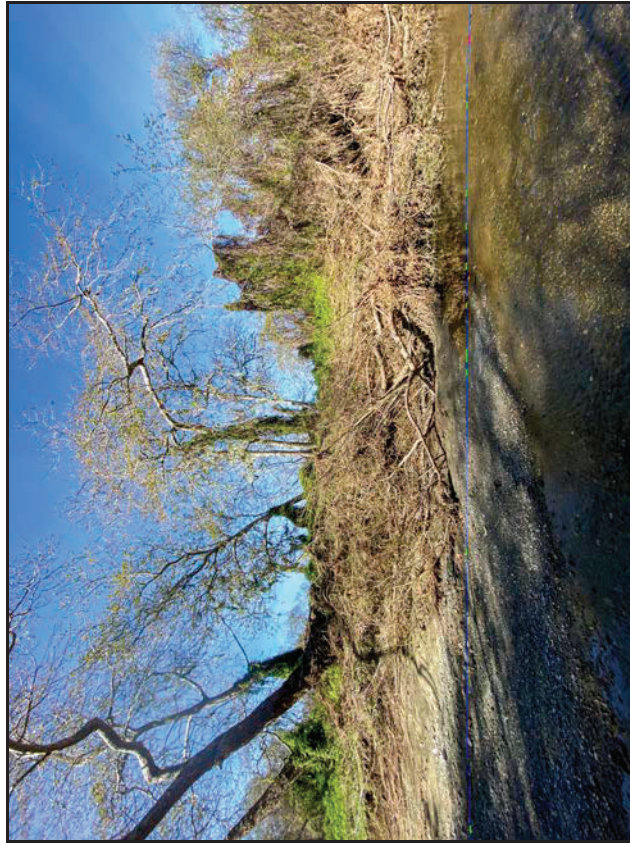
Site 3



Site 3



Site 3



Site 3

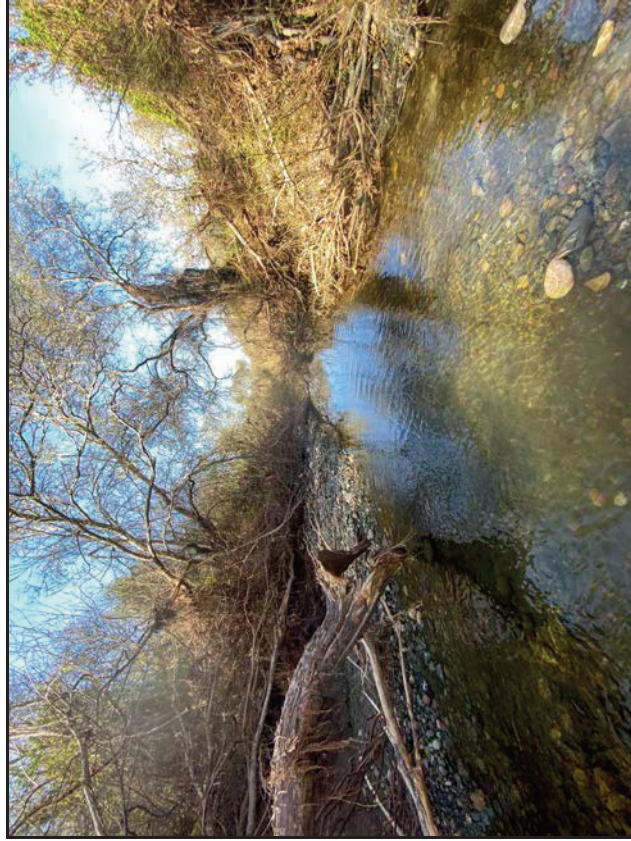
CCSD Monitoring February 28, 2021



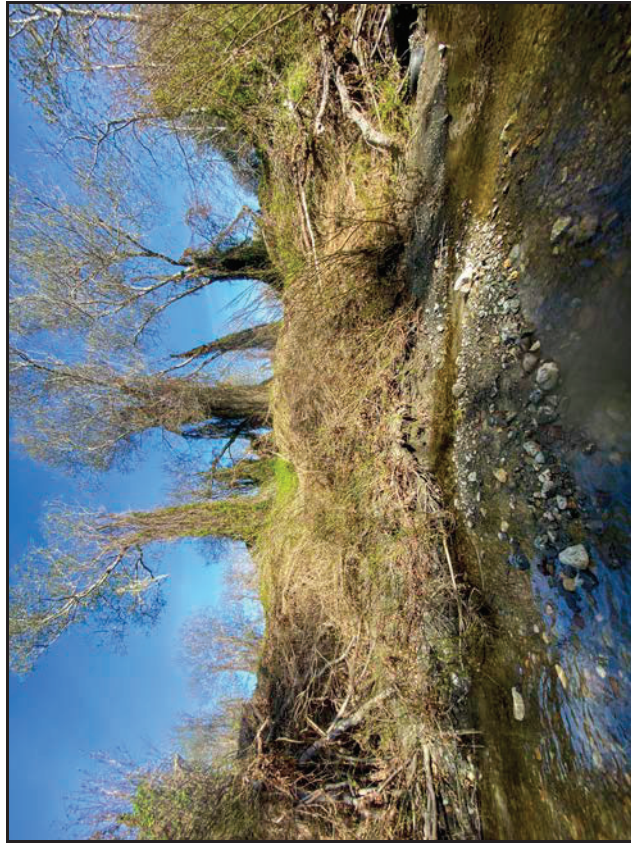
Site 4



Site 4



Site 4

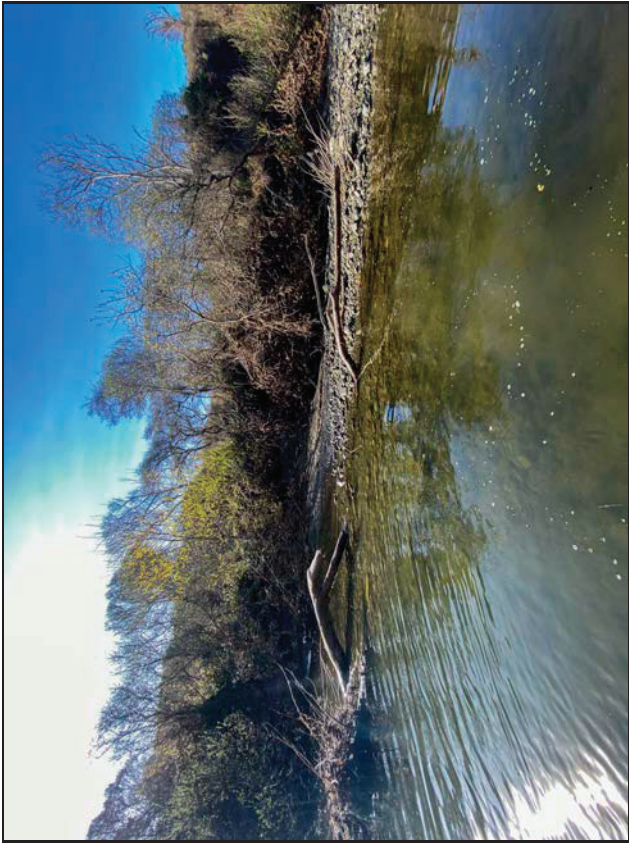


Site 4

CCSD Monitoring February 28, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring February 28, 2021



Site 7



Site 7



Site 7



Site 7

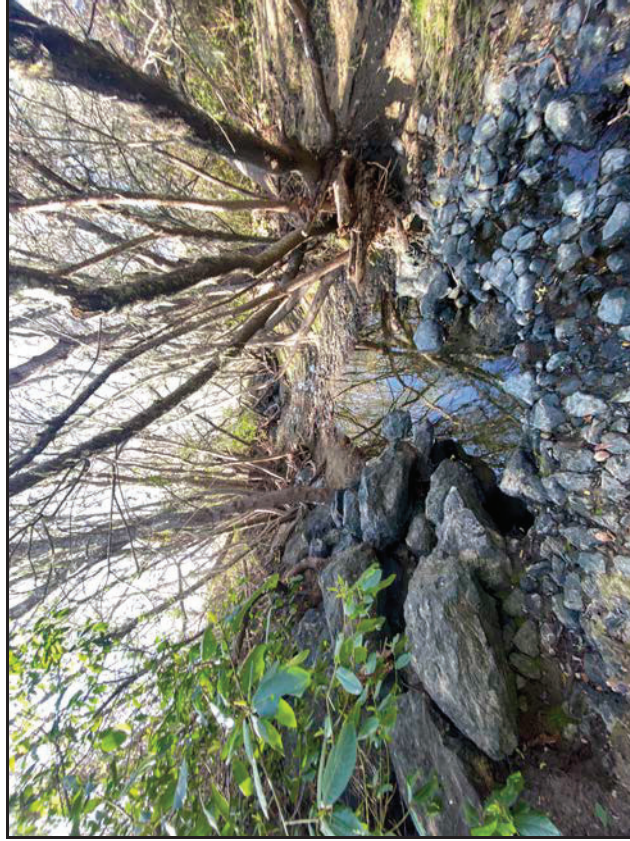
CCSD Monitoring February 28, 2021



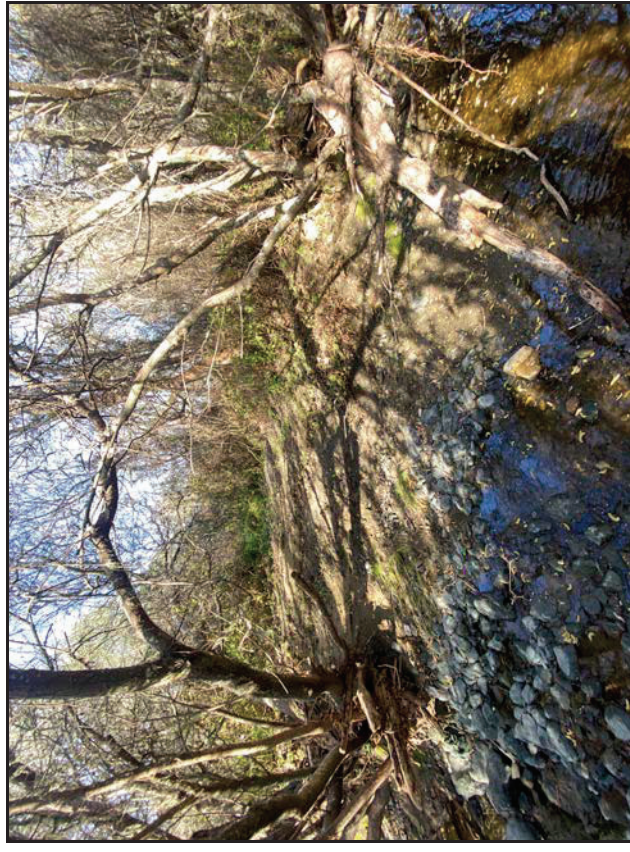
Site 8



Site 8

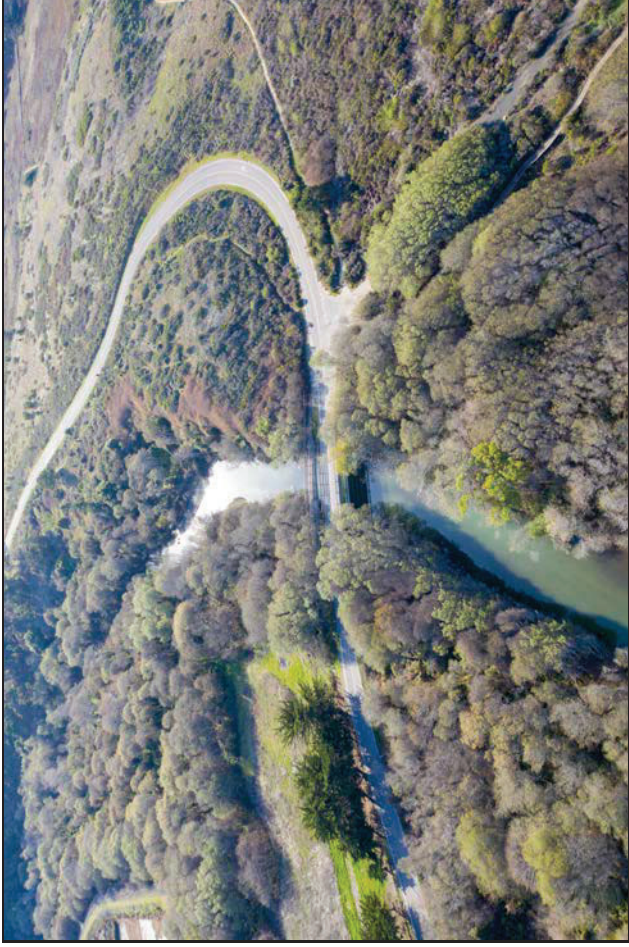


Site 8



Site 8

CCSD Monitoring February 28, 2021



Walking Bridge PS-1

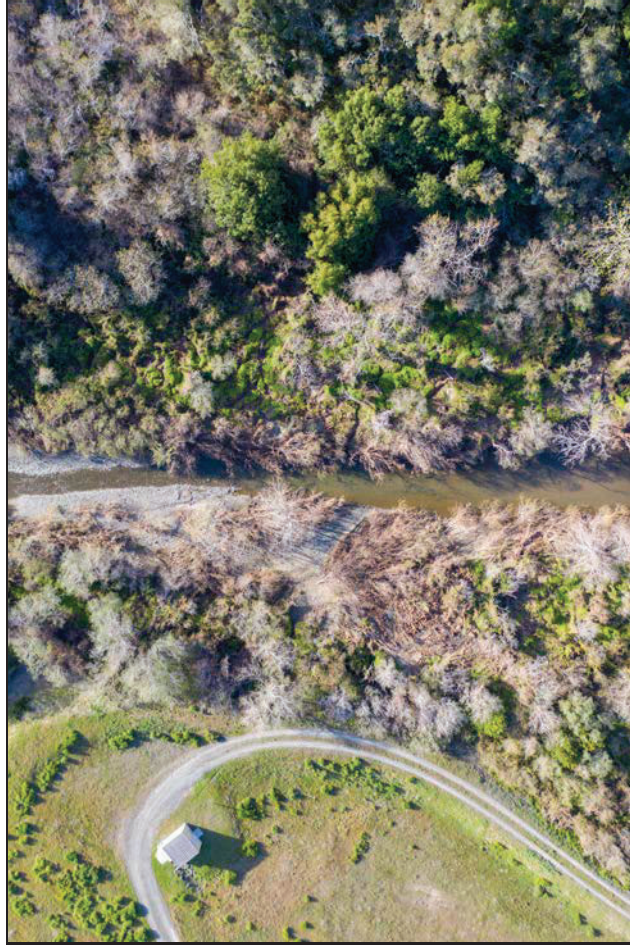


Estuary PS-2

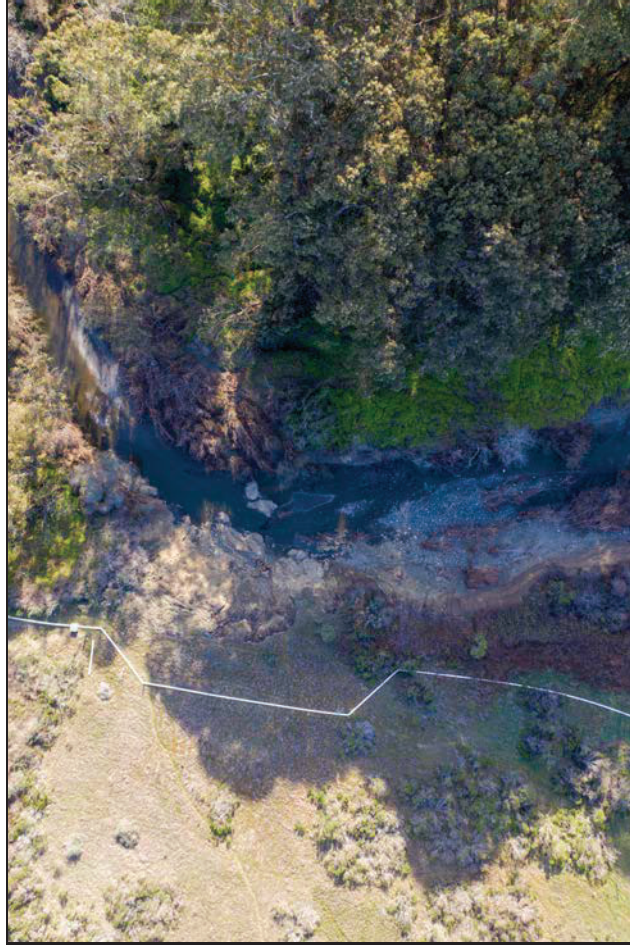


9P7 Well

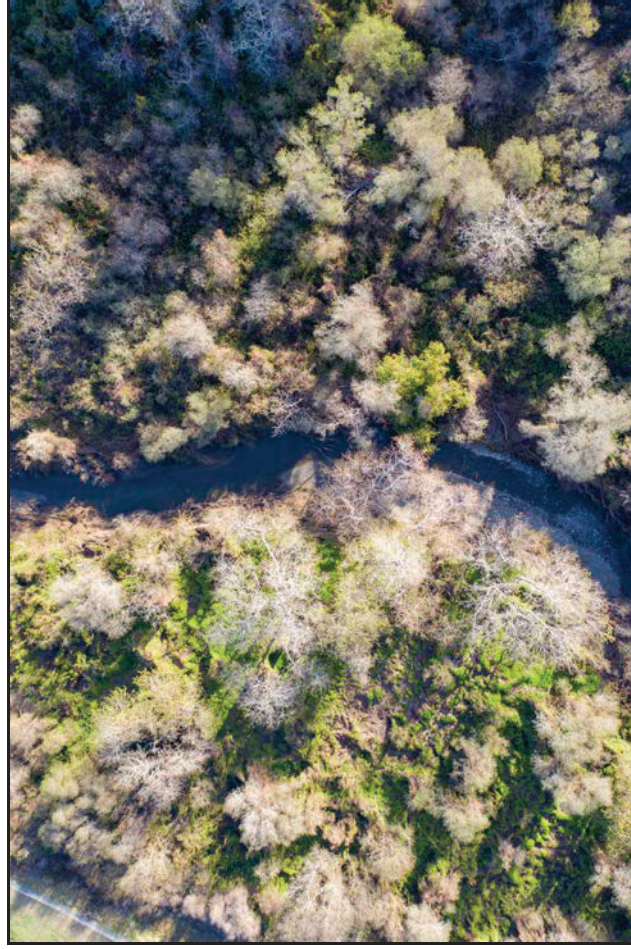
CCSD Monitoring February 28, 2021



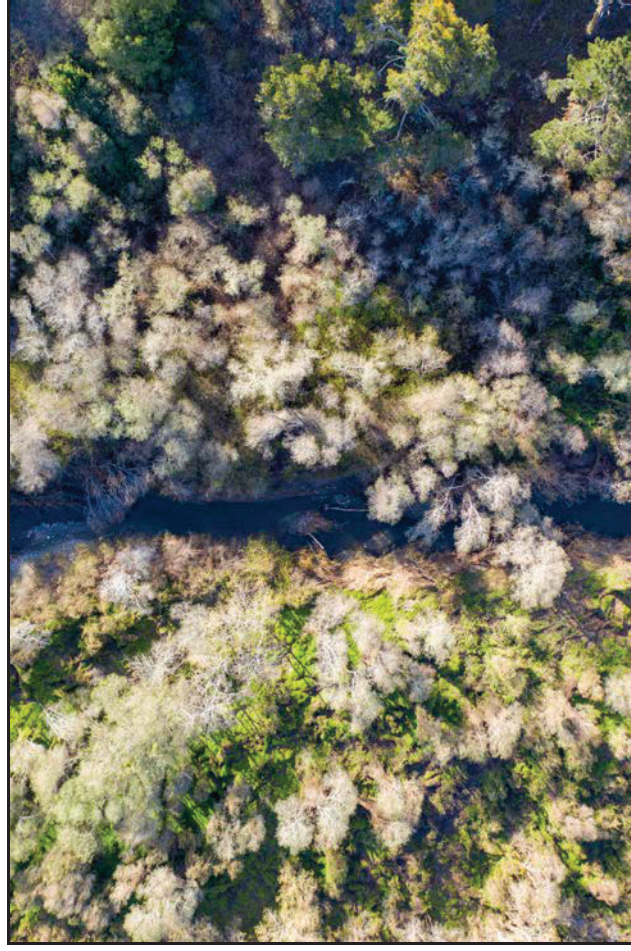
Site 1 Aerial



Site 2 Aerial

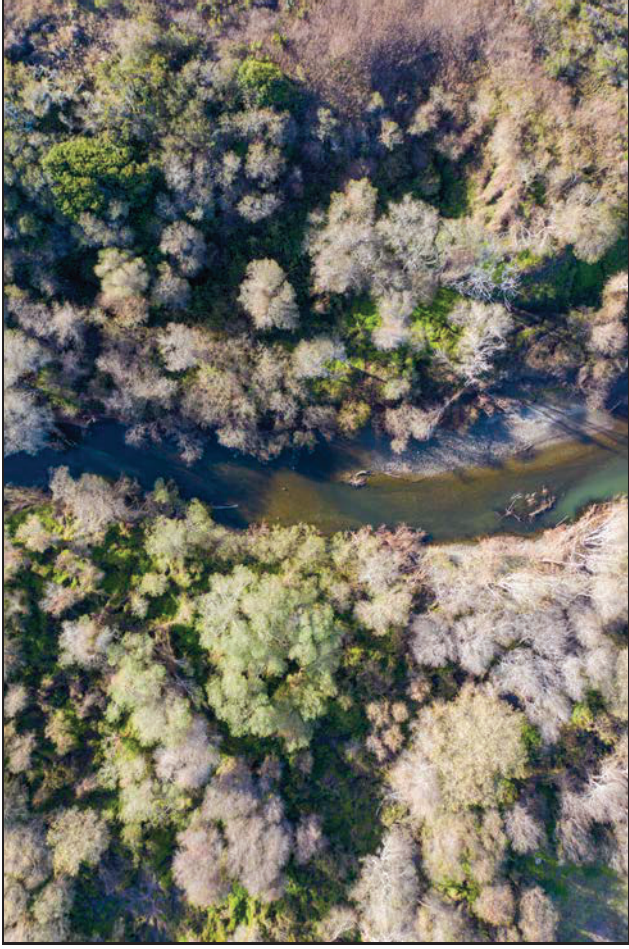


Site 3 Aerial

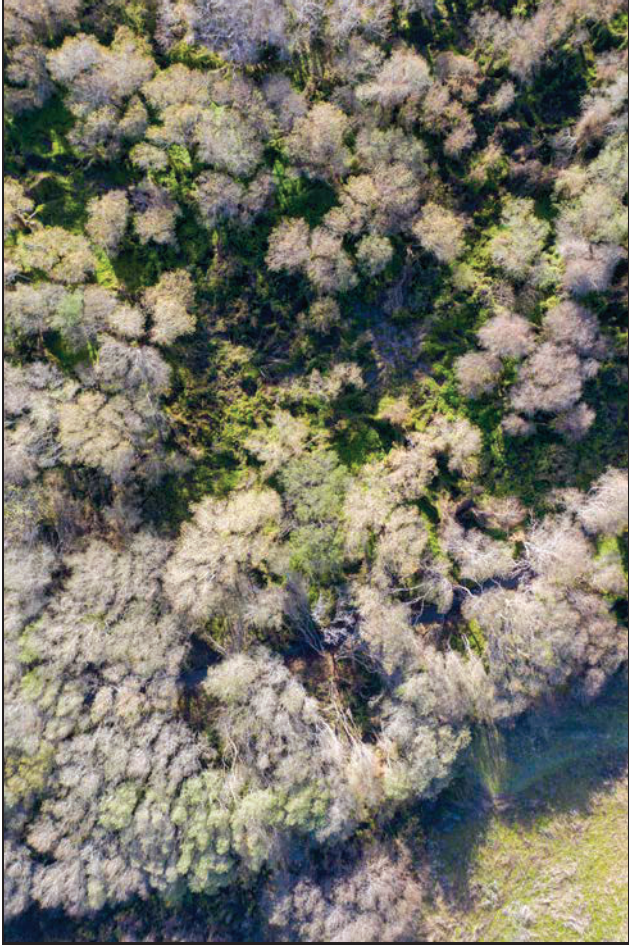


Site 4 Aerial

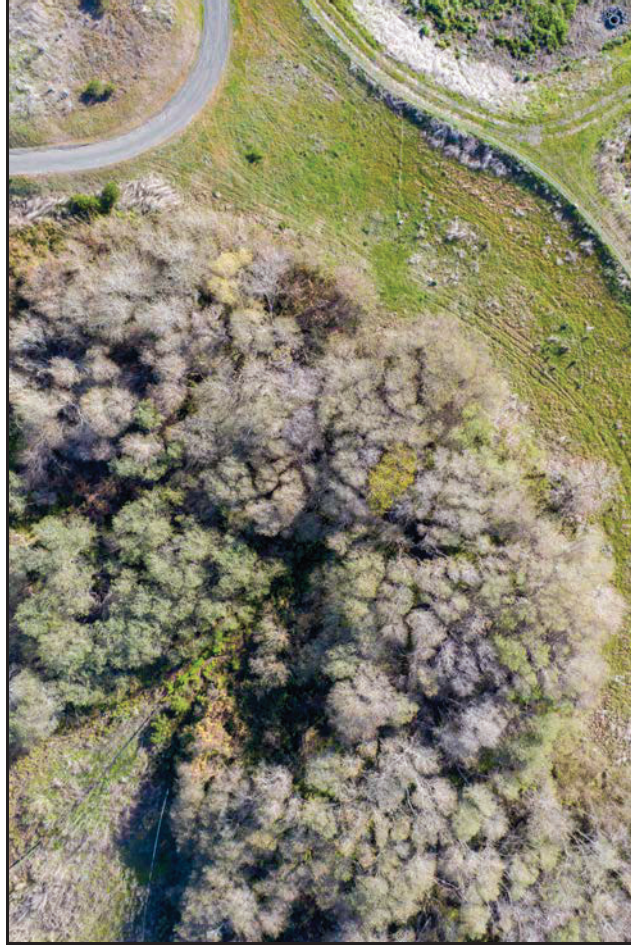
CCSD Monitoring February 28, 2021



Site 5 Aerial

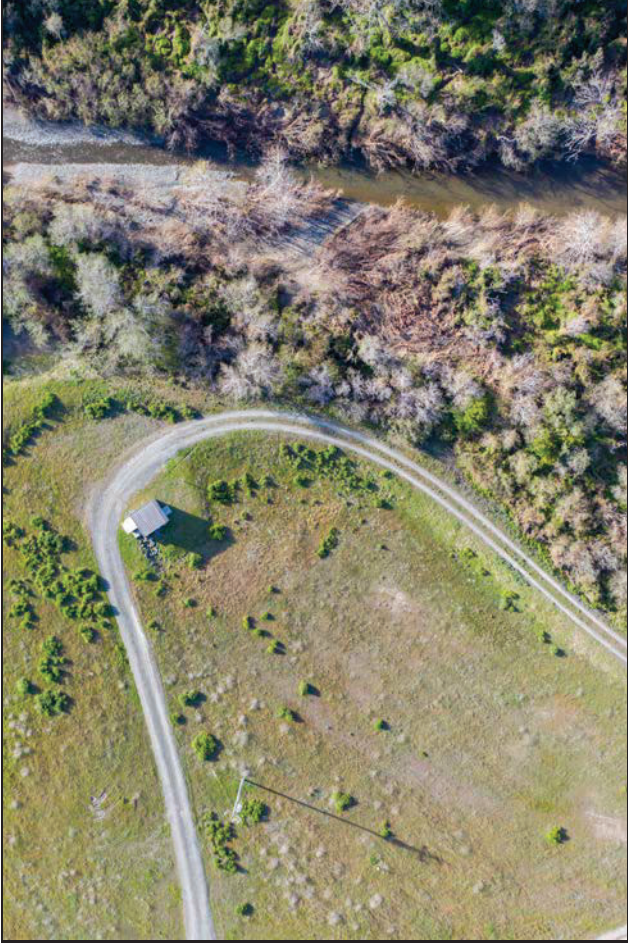


Site 7 Aerial



Site 8 Aerial

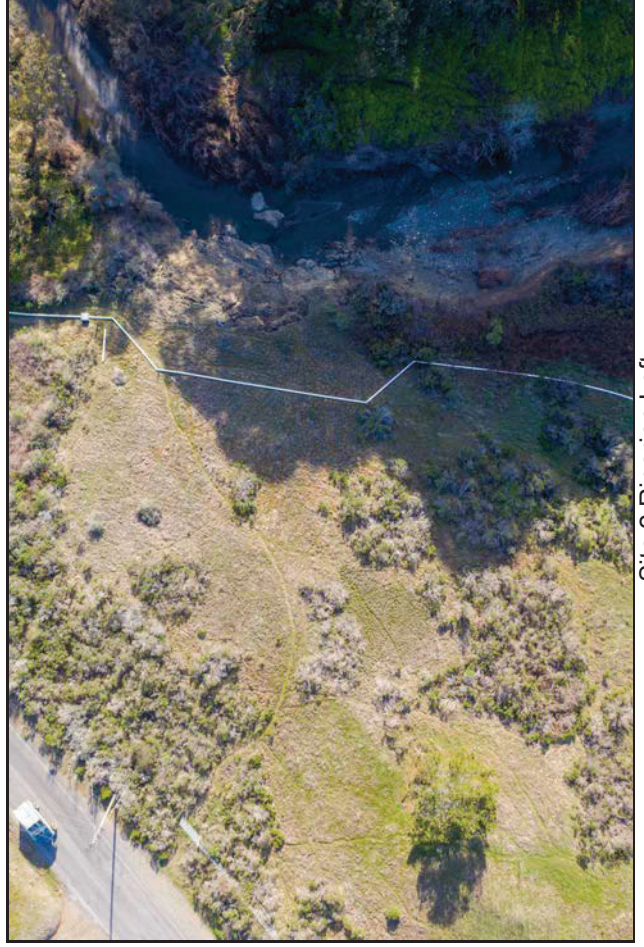
CCSD Monitoring February 28, 2021



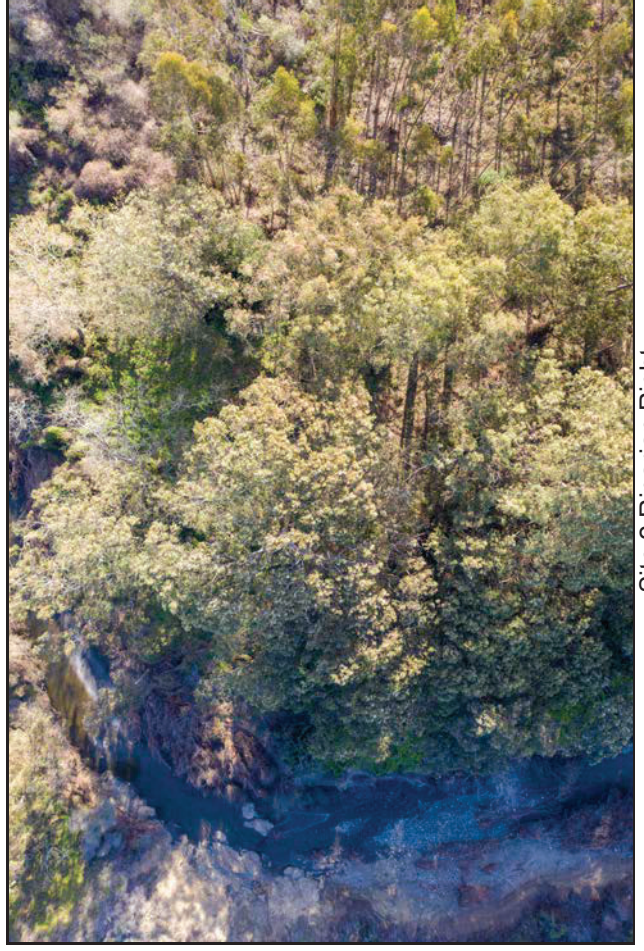
Site 1 Riparian Left



Site 1 Riparian Right

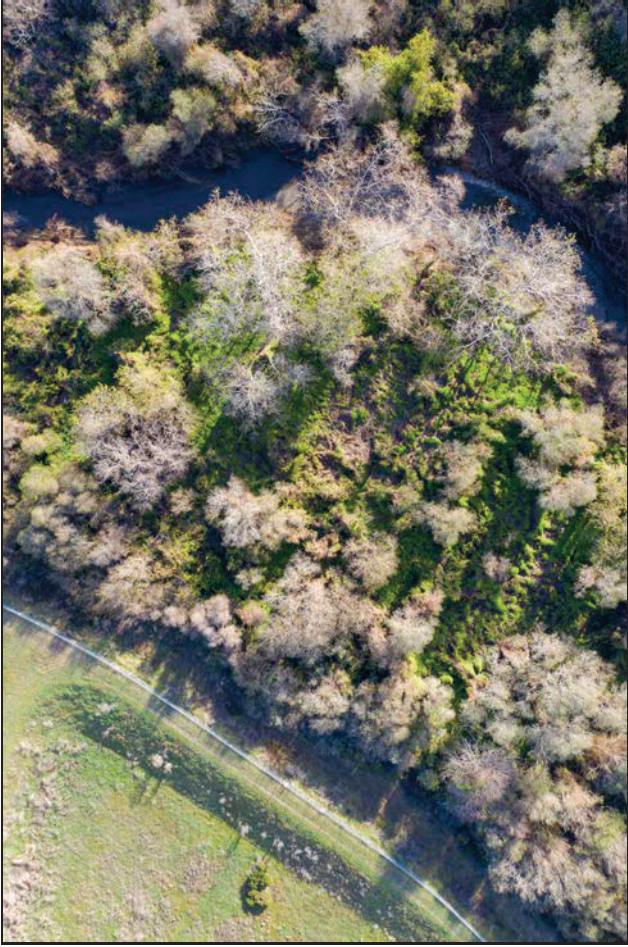


Site 2 Riparian Left

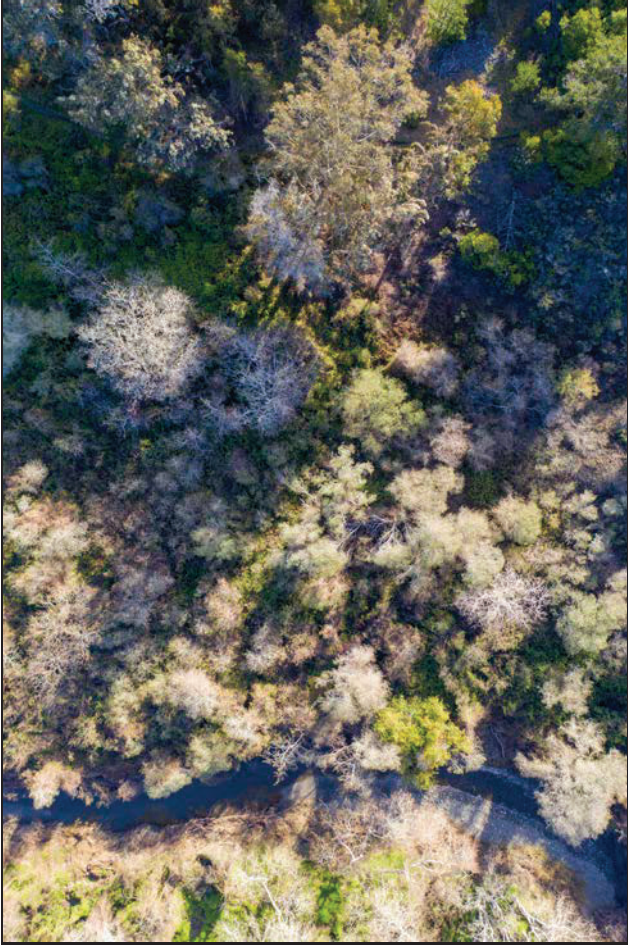


Site 2 Riparian Right

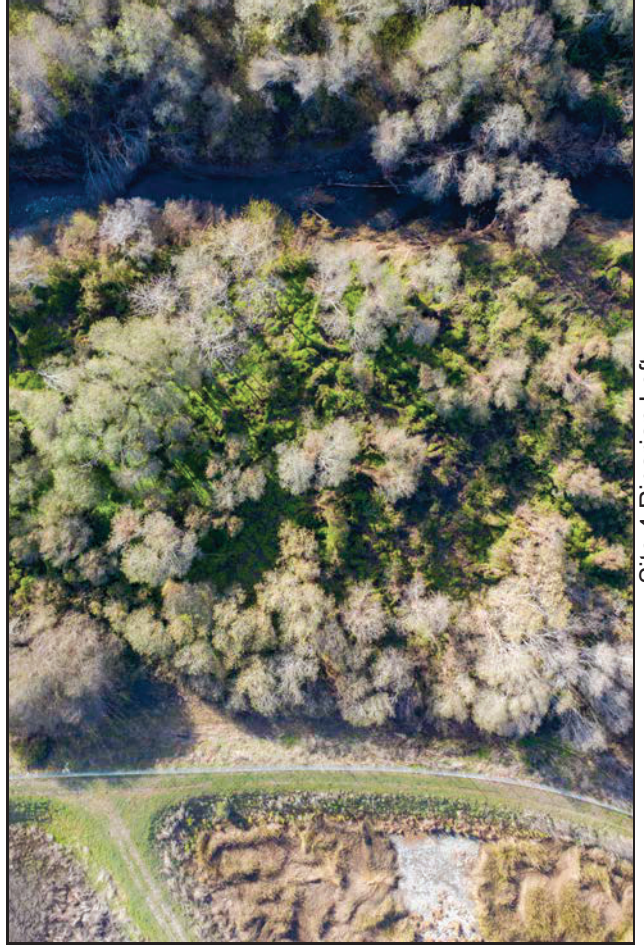
CCSD Monitoring February 28, 2021



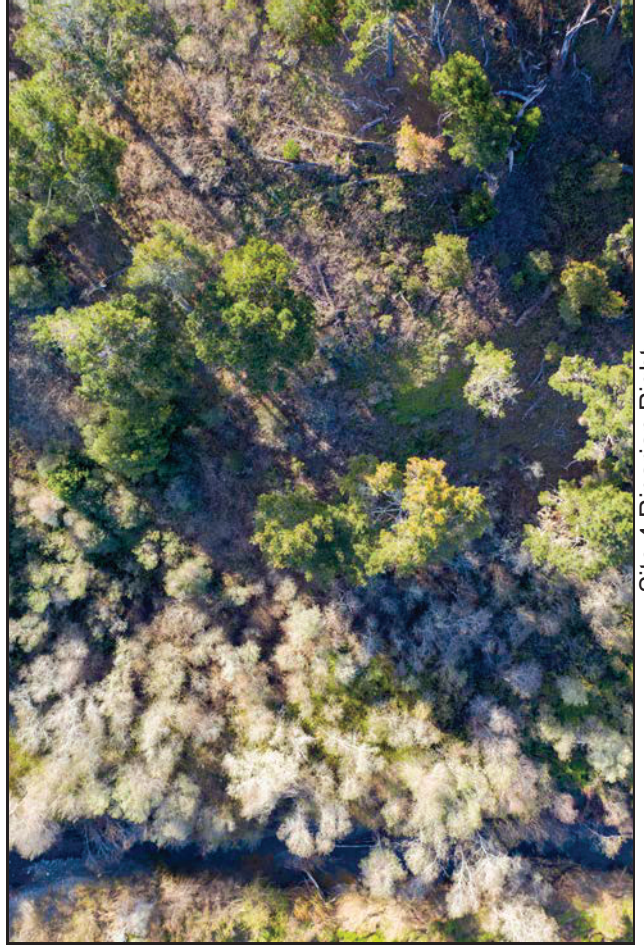
Site 3 Riparian Left



Site 3 Riparian Right

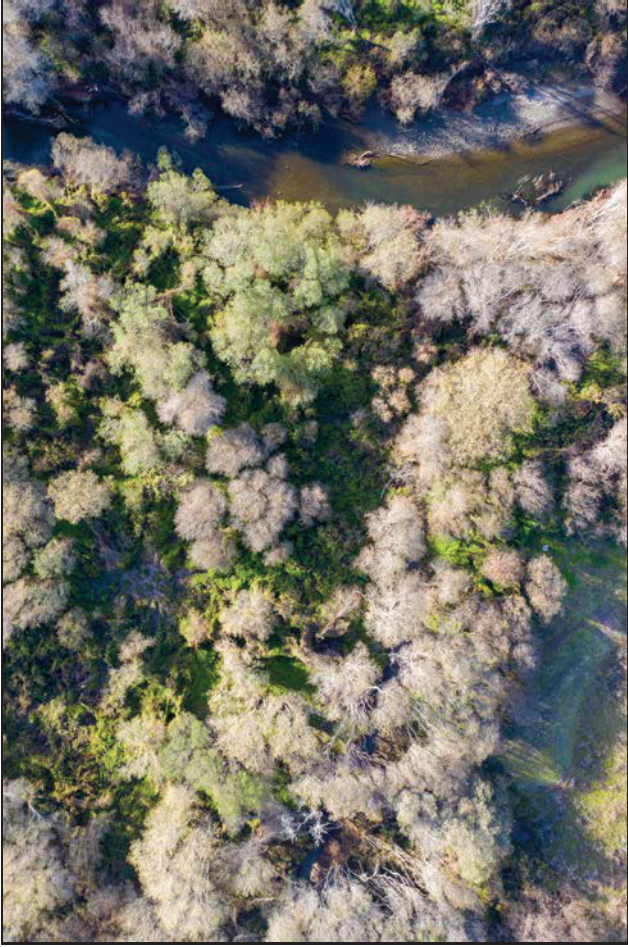


Site 4 Riparian Left

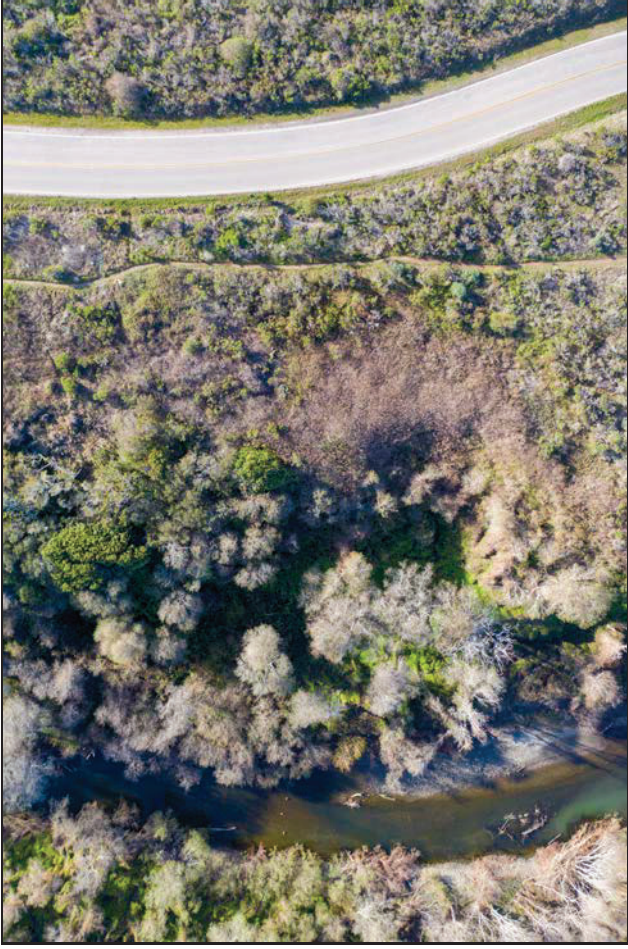


Site 4 Riparian Right

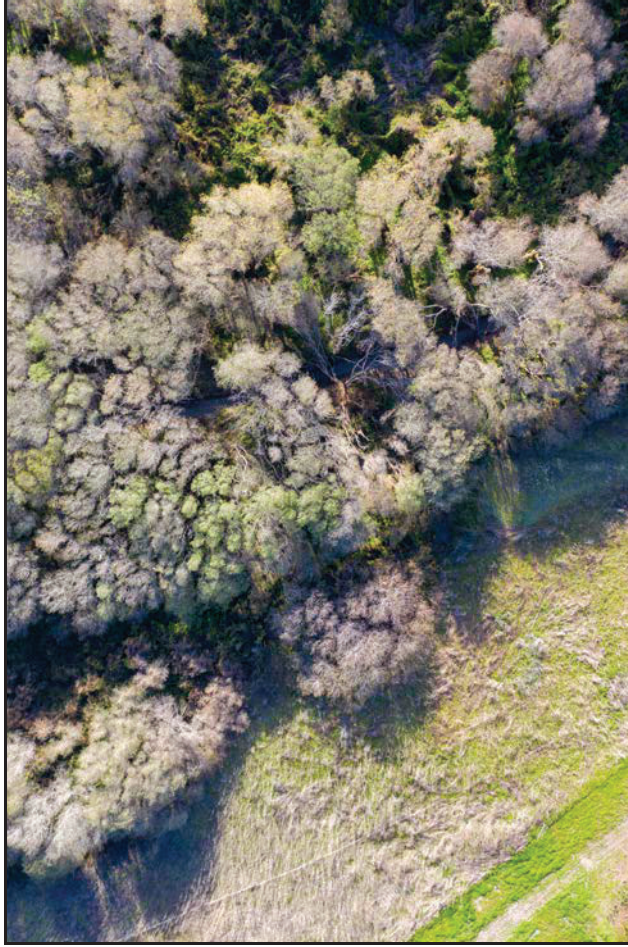
CCSD Monitoring February 28, 2021



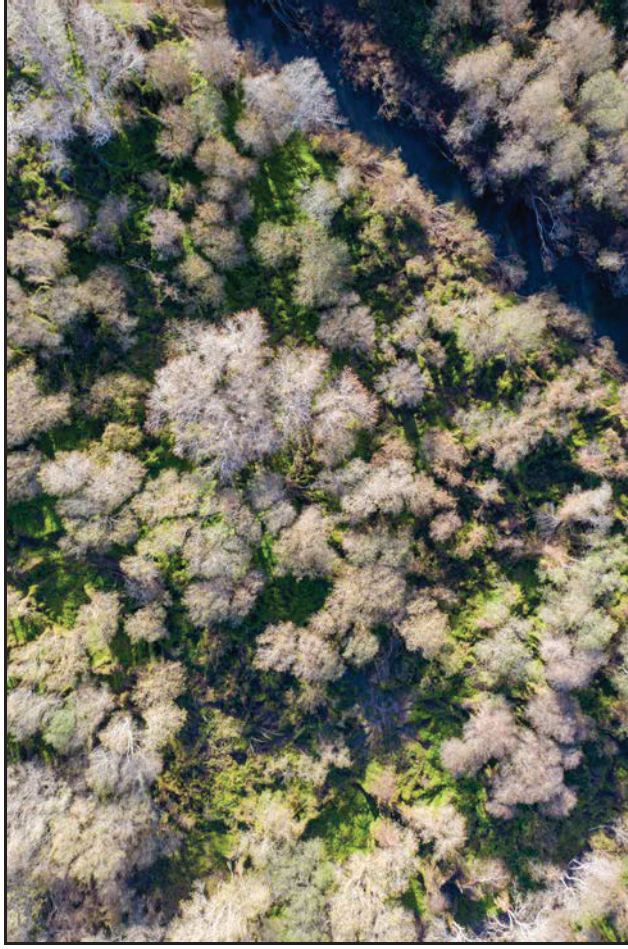
Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring February 28, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


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March 14, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



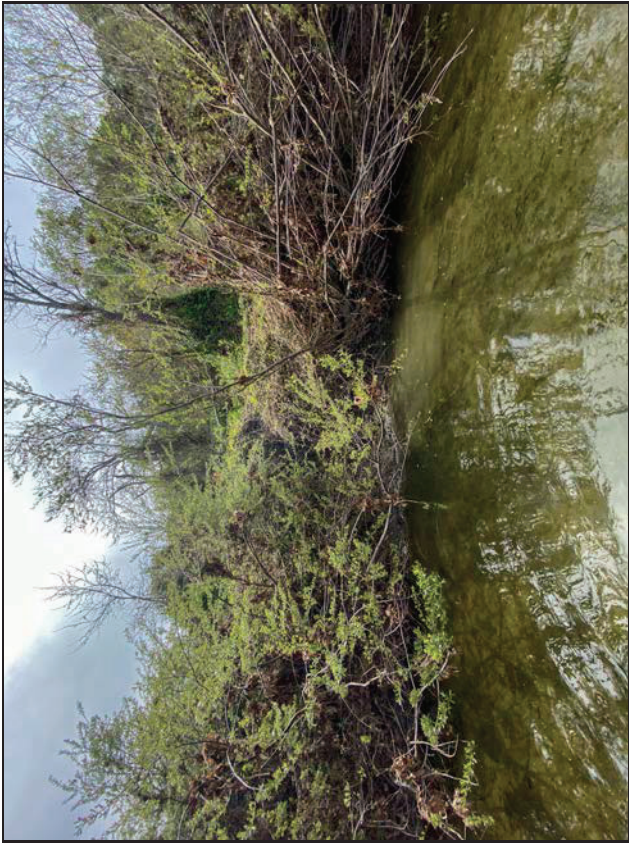
Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 3-14-2021		High Tide: 4.72 ft @ 11:29 AM		Low Tide: 1.03 ft @ 5:30 AM		Sandbar Breached: No	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	12:45 PM	12:00 PM	11:25 AM	11:00 AM	10:37	10:15 AM	10:06 AM
Weather (°F, Cloud cover)	58, clear	56, cloudy	56, cloudy	56, cloudy	56, cloudy	56, cloudy	56, cloudy
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	10	25	10	0	25	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	26.8	22.9	17.5	24.5	50	24.3	21.8
Riparian Moisture-Lt Bank (%)	16.5	22.8	18.3	47.8	22.8	21.3	16.6
Hydrology							
Maximum depth (ft)	1.4	0.5	0.4	1.3	3	dry	dry
Wetted width (ft)	2.1	32	21.5	17.5	39	dry	dry
Flow = Area x Rate (cfs)	1.8	0.6	0.8	2.8	7.2	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	1.1	0.2	0.3	1.2	1.7	dry	dry
Depth 2 @ 1/2 (ft)	1.4	0.1	0.1	1.3	2.7	dry	dry
Depth 3 @ 3/4 (ft)	1	0.5	0.1	0.7	3	dry	dry
Average Depth = total/4 (ft)	0.9	0.2	0.1	0.8	1.9	dry	dry
Area = Width x Avg Depth (ft^2)	18.4	6.4	2.7	14.0	72.2	dry	dry
Rate from meter (ft/sec)	0.1	0.1	0.3	0.2	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	60.2	58.1	57.1	56.6	56.2	dry	dry
Dissolved Oxygen (%)	142.2	144.6	123.6	104.9	75.5	dry	dry
Dissolved Oxygen (ppm)	14.12	14.73	12.73	10.86	7.85	dry	dry
Total Dissolved Solids (mg/L)	401	398	399	542	669	dry	dry
Salinity (ppt)	0.3	0.3	0.3	0.41	0.51	dry	dry
Species Observed	No fish observed in fairly clear water.						
Comments	Water flow continuous at all San Simeon Creek sites. Three nice pool-riffle complexes between Sites 3 & 4. Rainfall of 0.87 inches was recorded between Mar 6 and 12.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	17.9						
East (%)	12.2						
South (%)	15.1						
West (%)	13.3						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring March 14, 2021



Site 1



Site 1

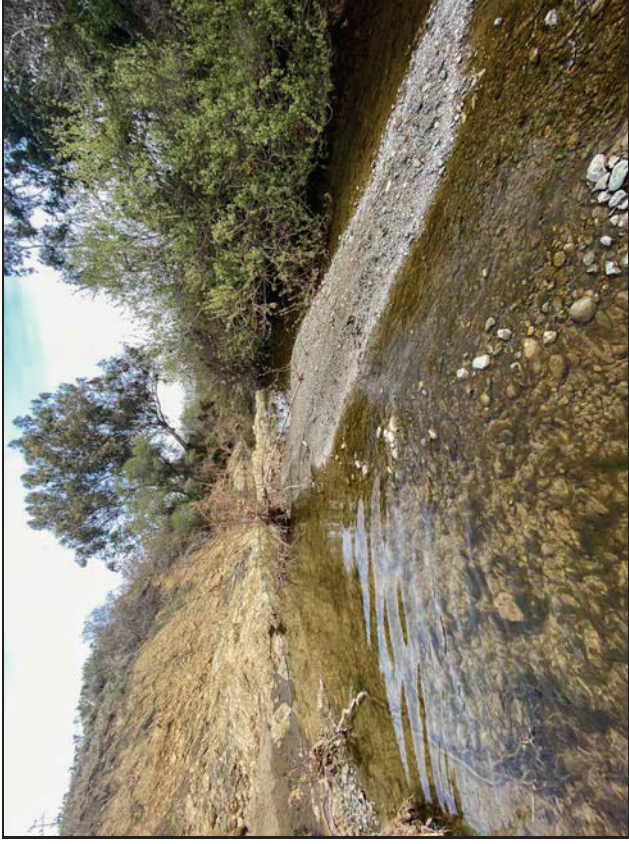


Site 1

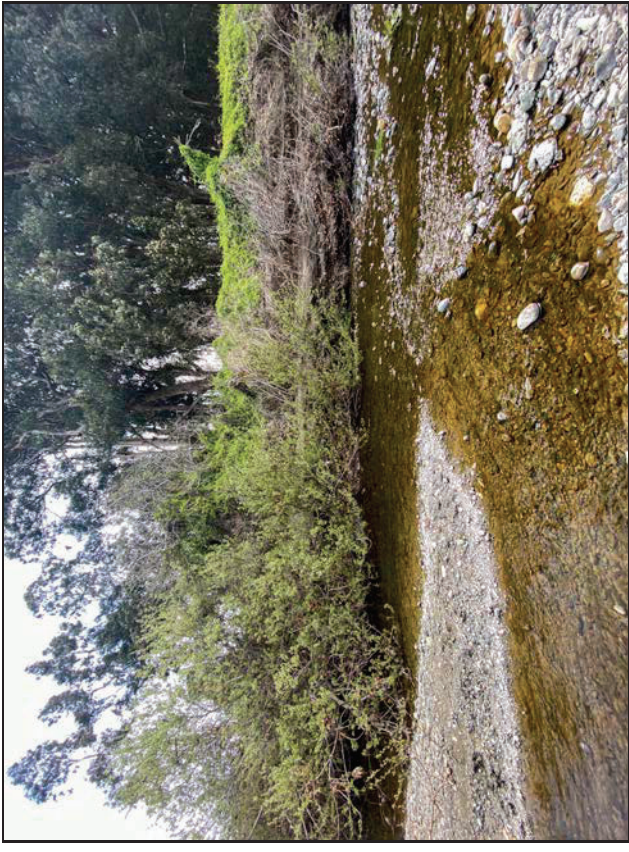


Site 1

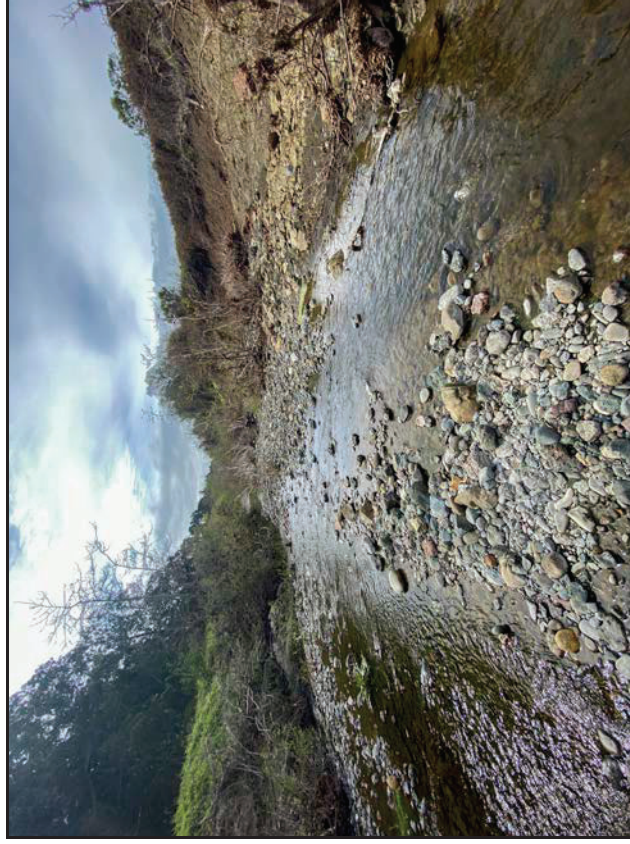
CCSD Monitoring March 14, 2021



Site 2



Site 2

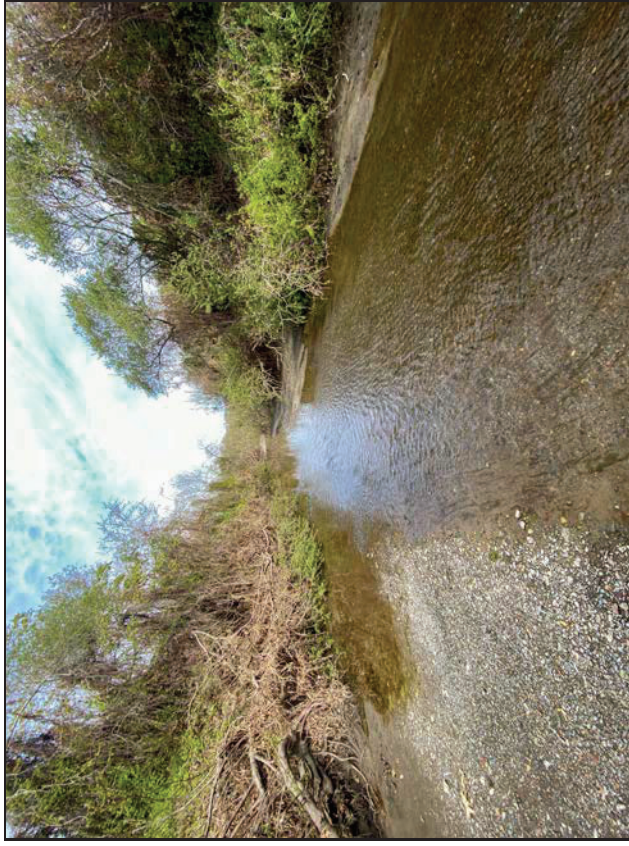


Site 2

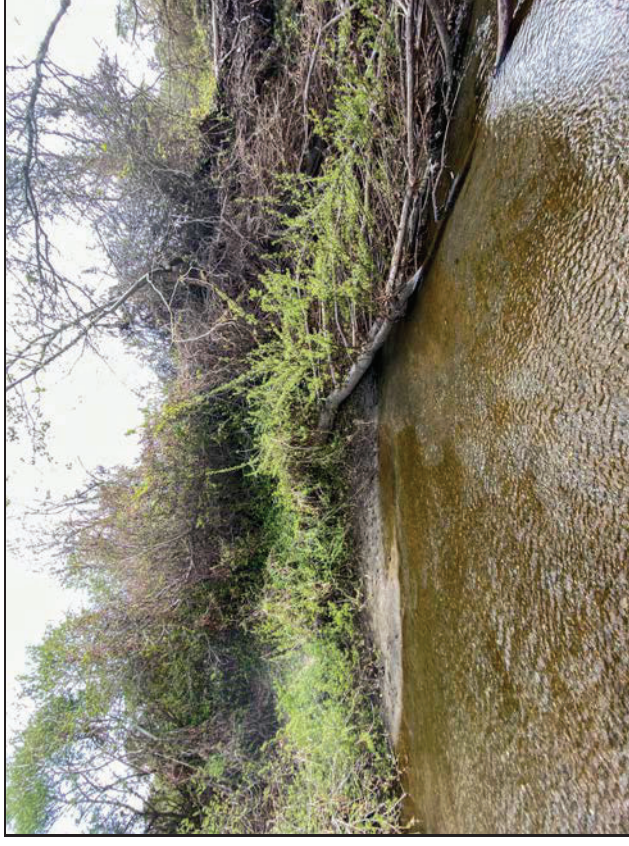


Site 2

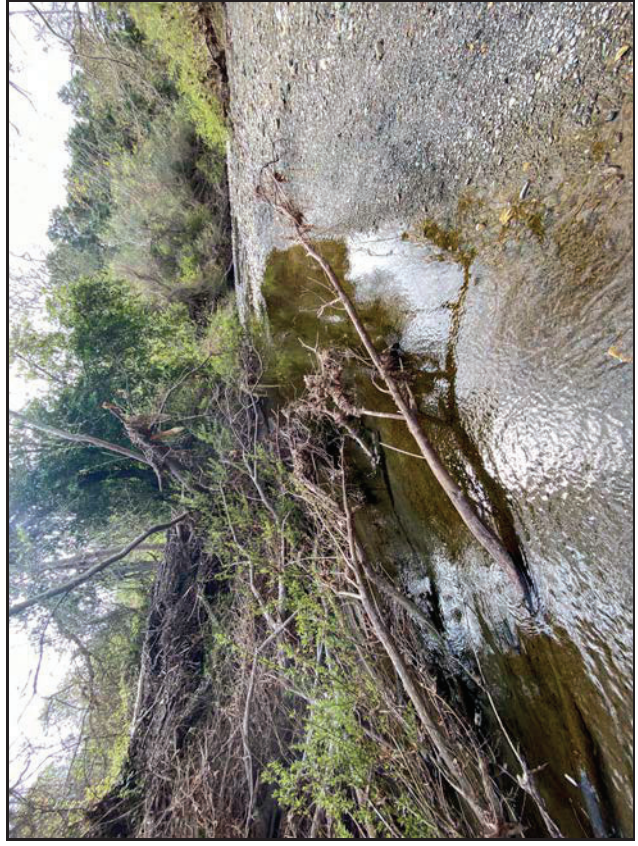
CCSD Monitoring March 14, 2021



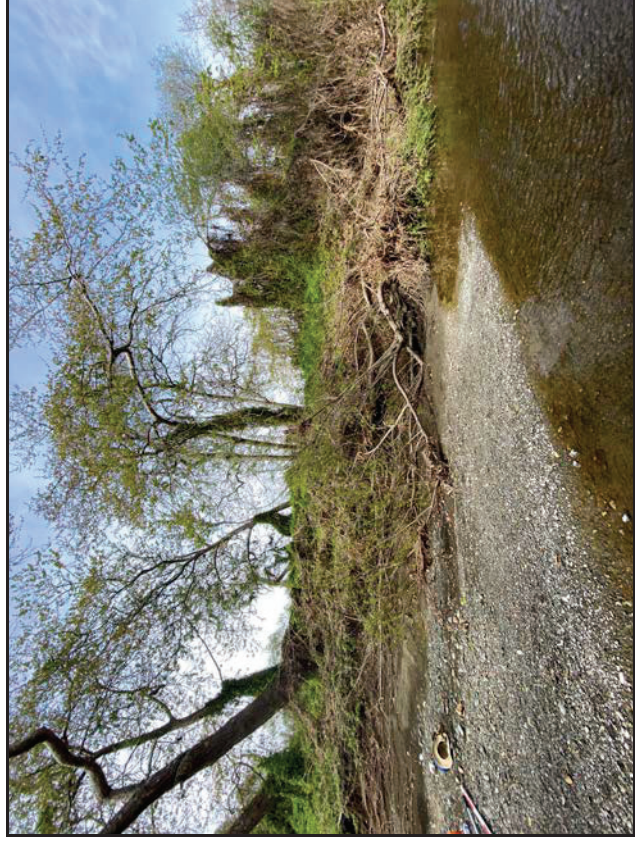
Site 3



Site 3



Site 3



Site 3

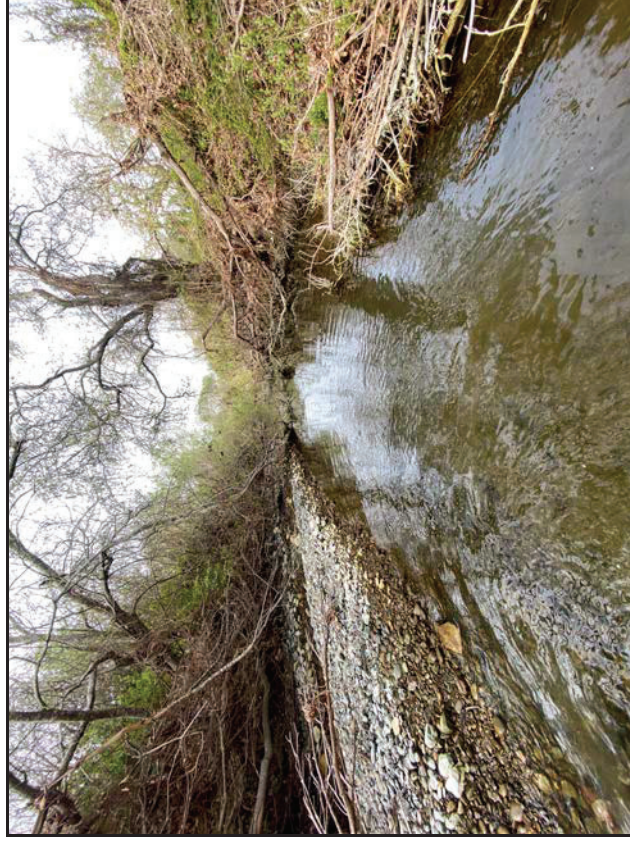
CCSD Monitoring March 14, 2021



Site 4



Site 4



Site 4



Site 4

CCSD Monitoring March 14, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring March 14, 2021



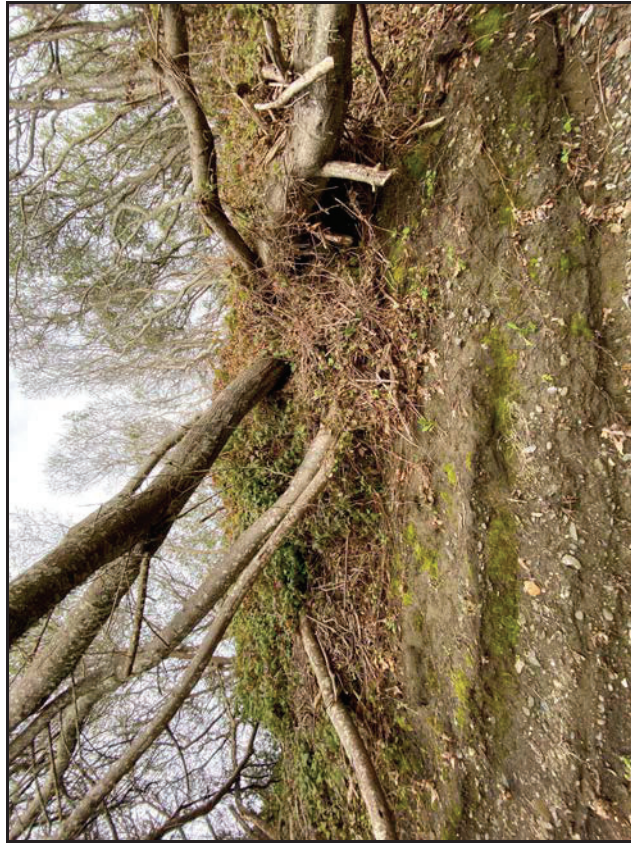
Site 7



Site 7



Site 7



Site 7

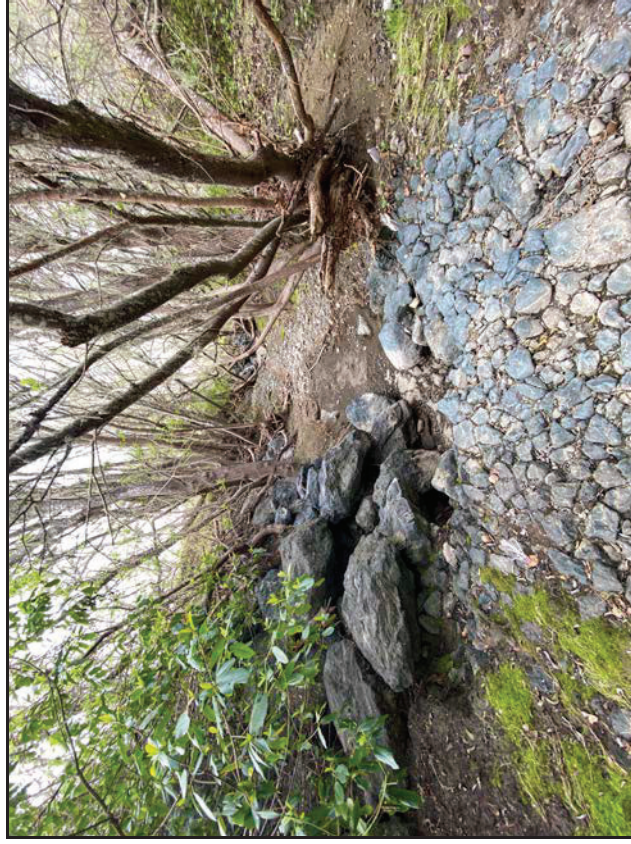
CCSD Monitoring March 14, 2021



Site 8



Site 8

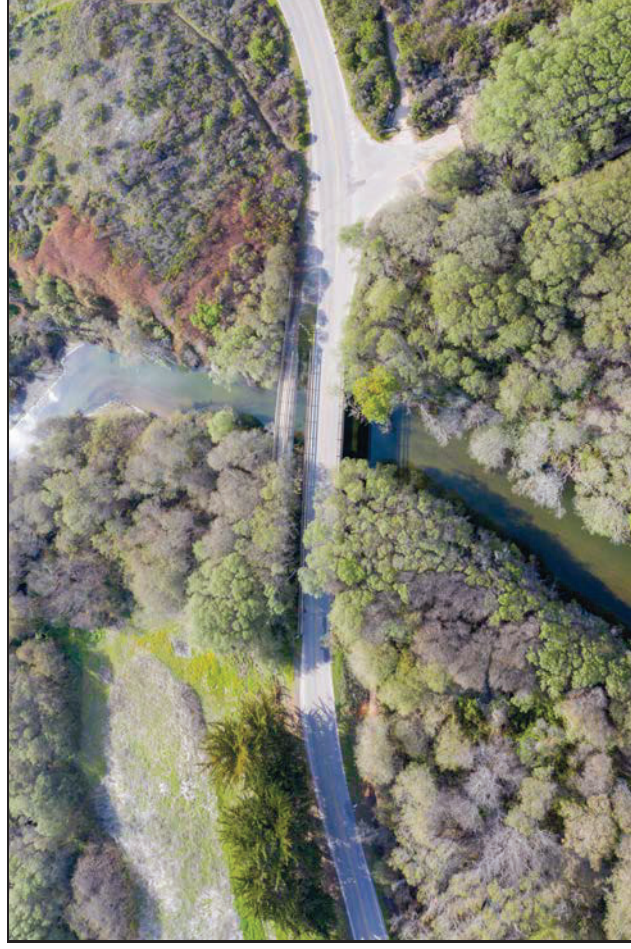


Site 8

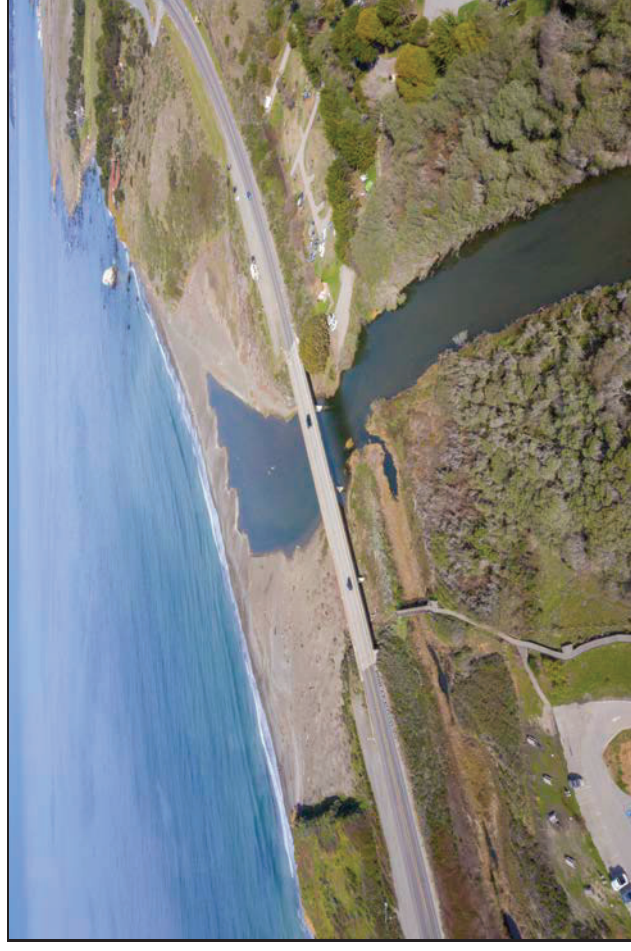


Site 8

CCSD Monitoring March 14, 2021



Walking Bridge PS-1

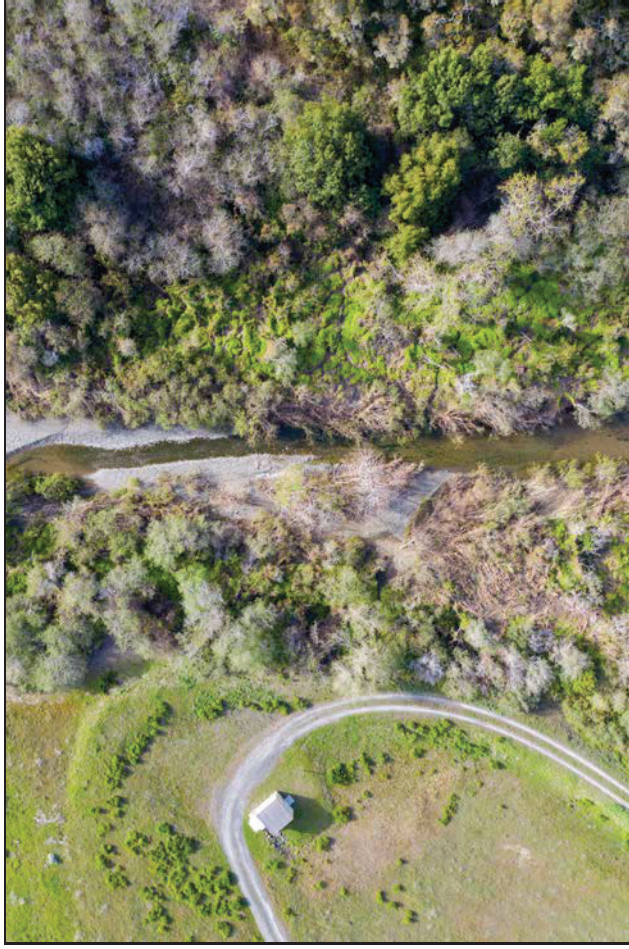


Estuary PS-2



9P7 Well

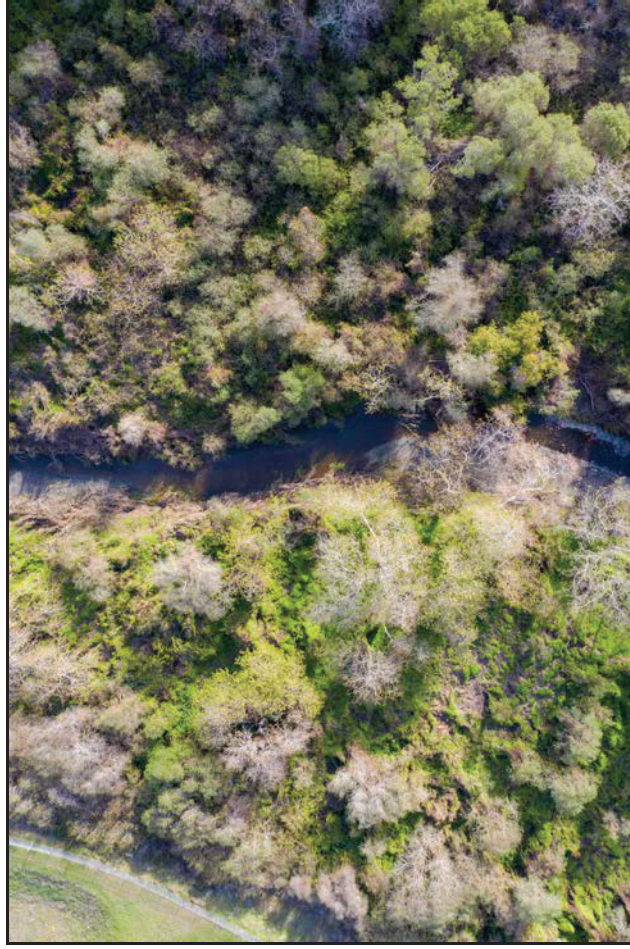
CCSD Monitoring March 14, 2021



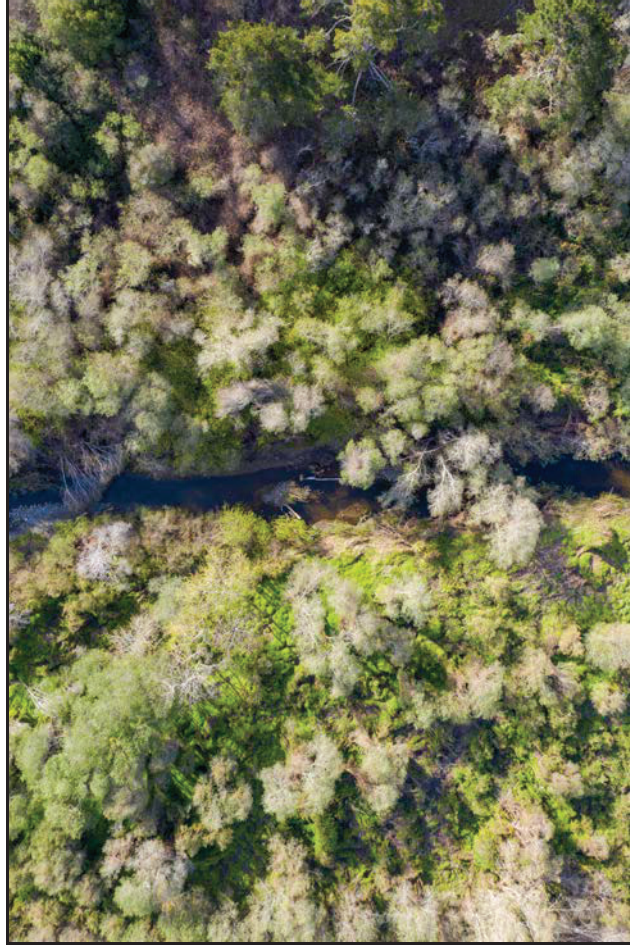
Site 1 Aerial



Site 2 Aerial

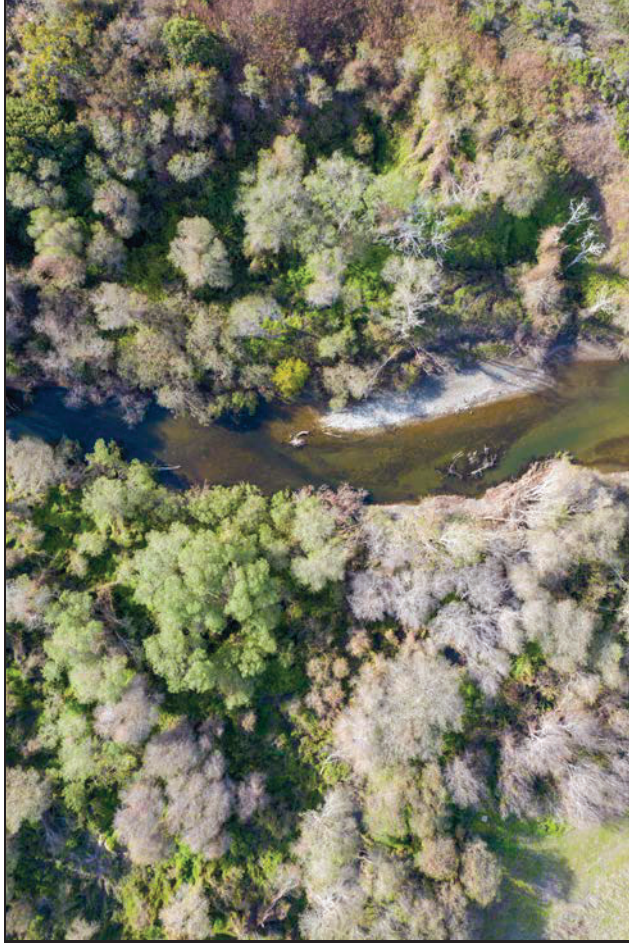


Site 3 Aerial

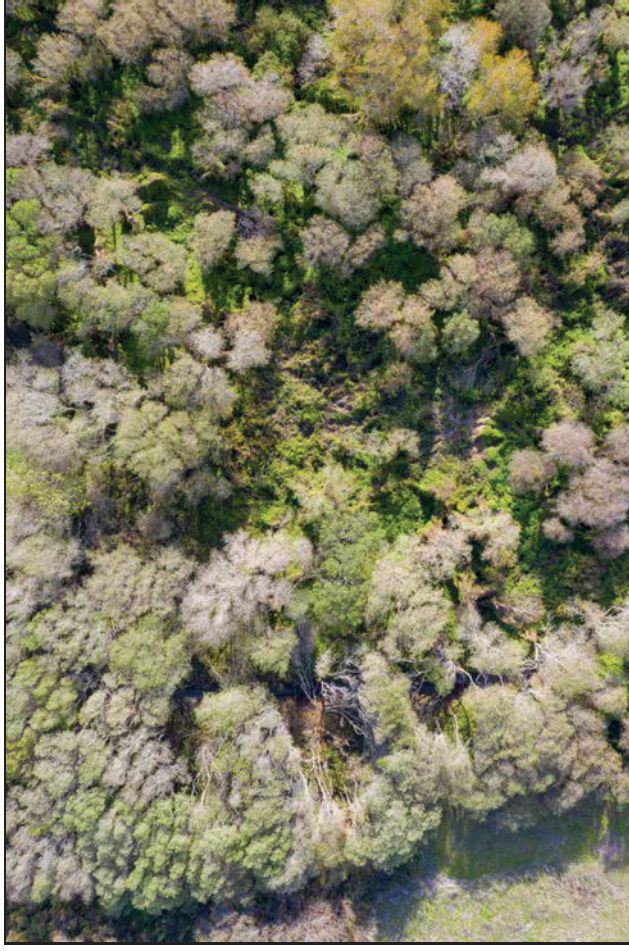


Site 4 Aerial

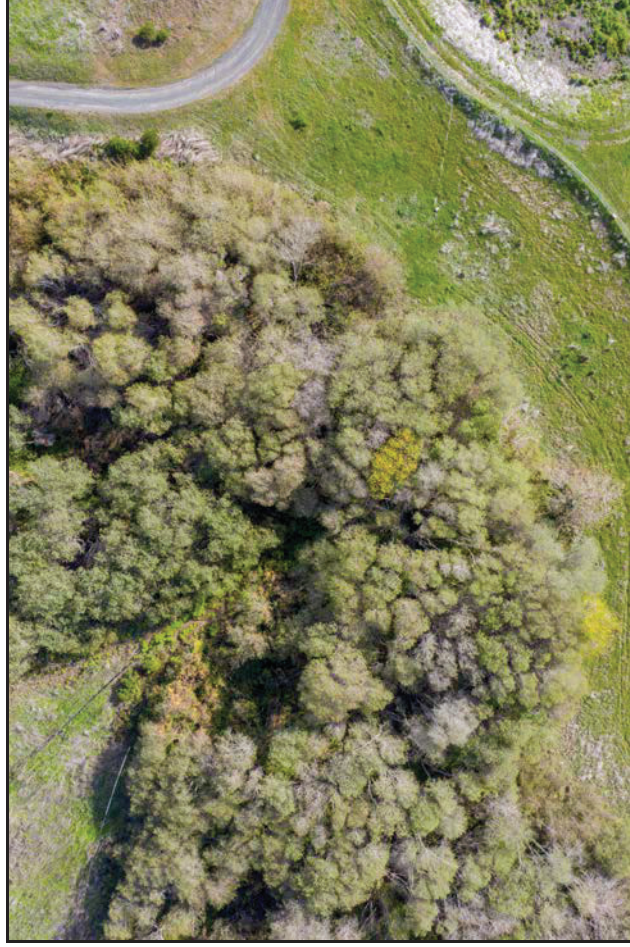
CCSD Monitoring March 14, 2021



Site 5 Aerial

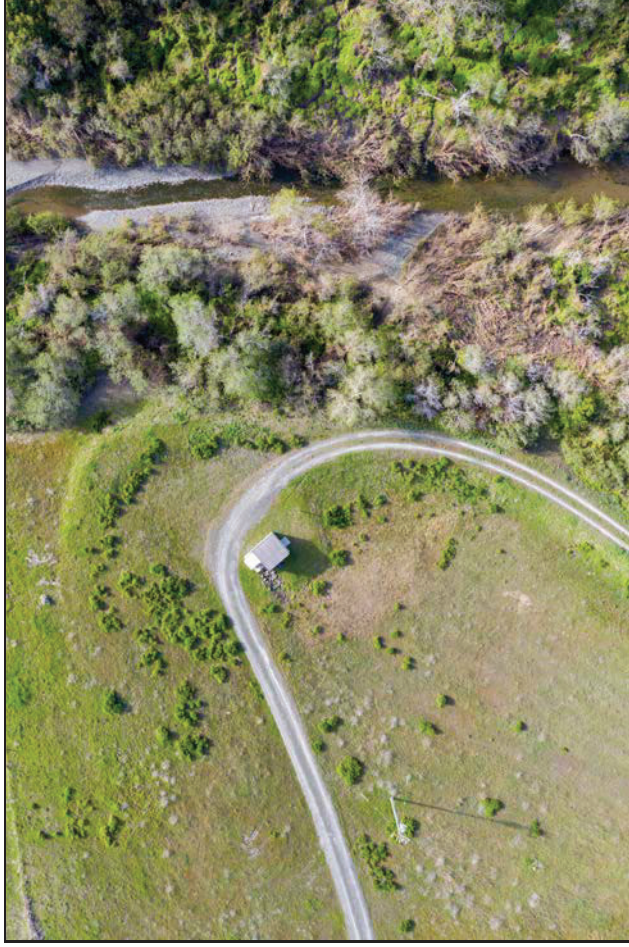


Site 7 Aerial

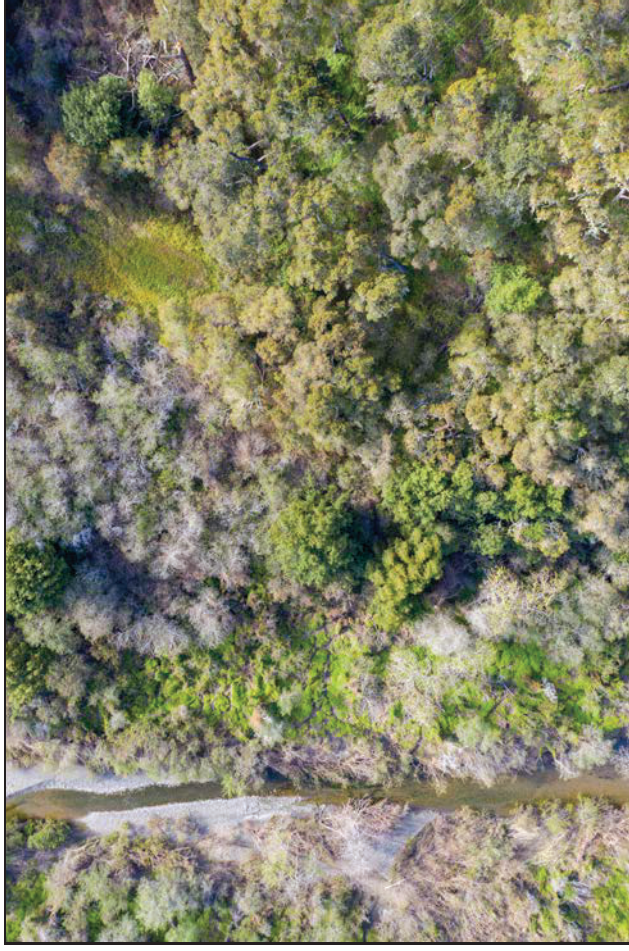


Site 8 Aerial

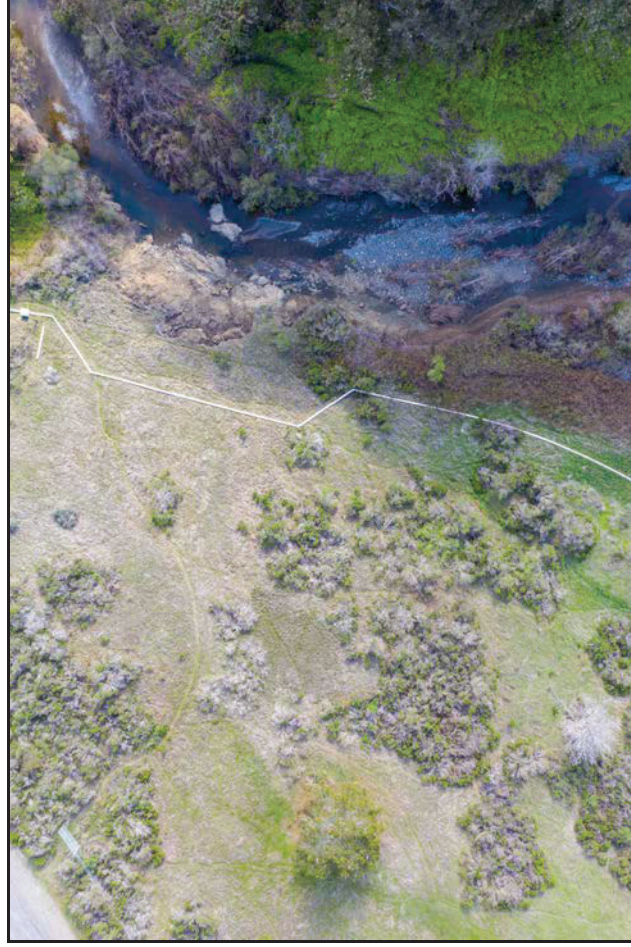
CCSD Monitoring March 14, 2021



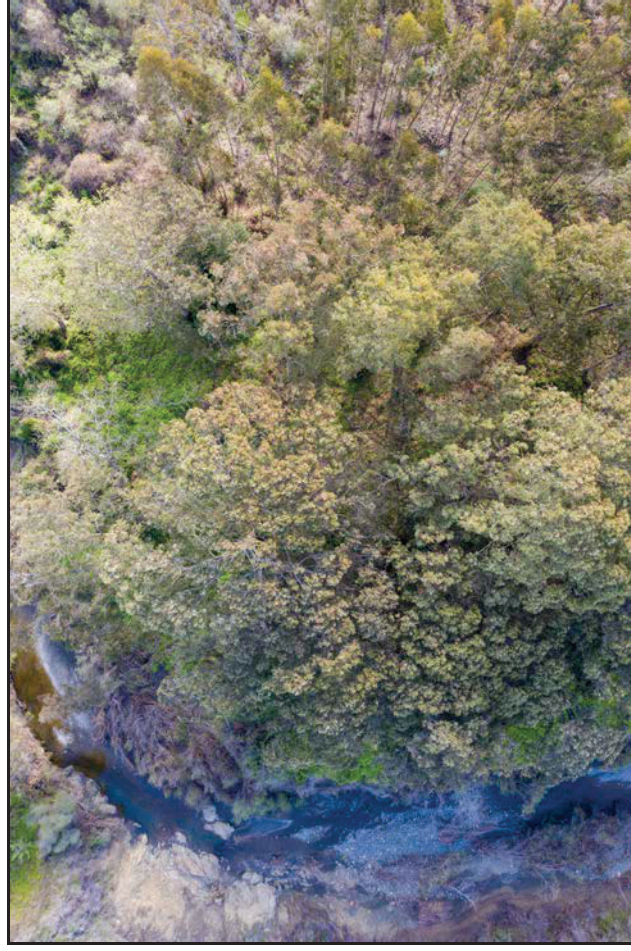
Site 1 Riparian Left



Site 1 Riparian Right

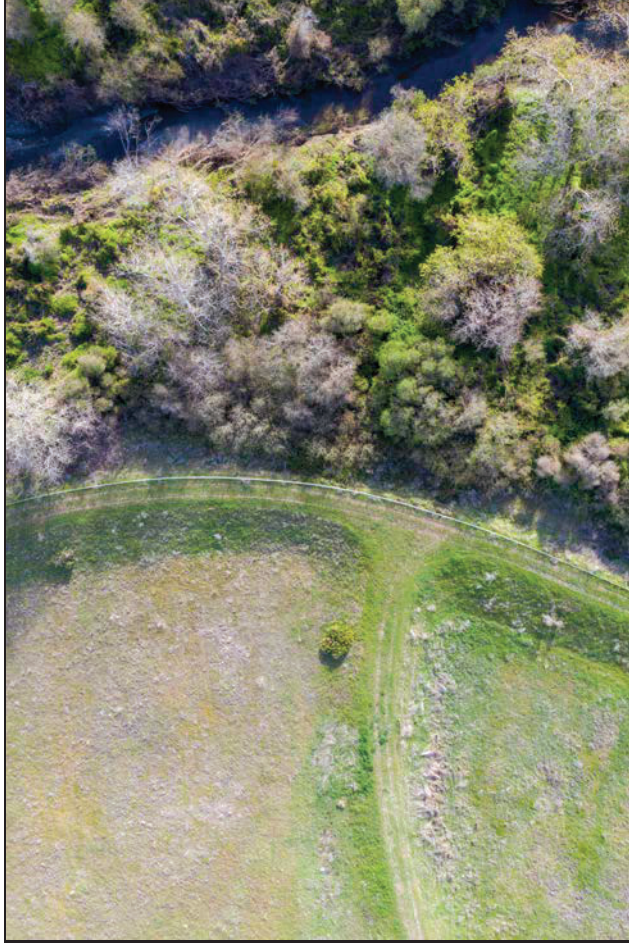


Site 2 Riparian Left

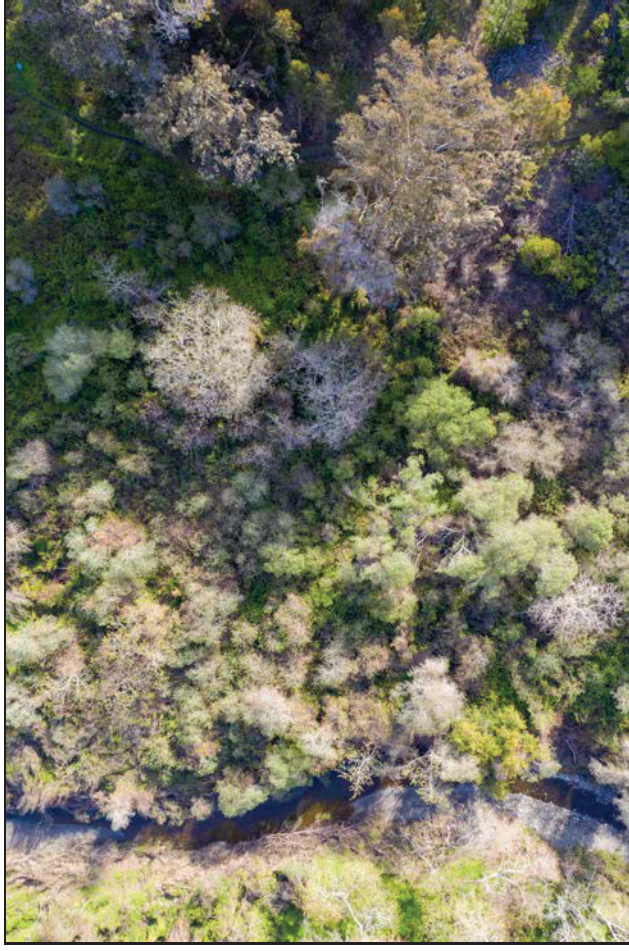


Site 2 Riparian Right

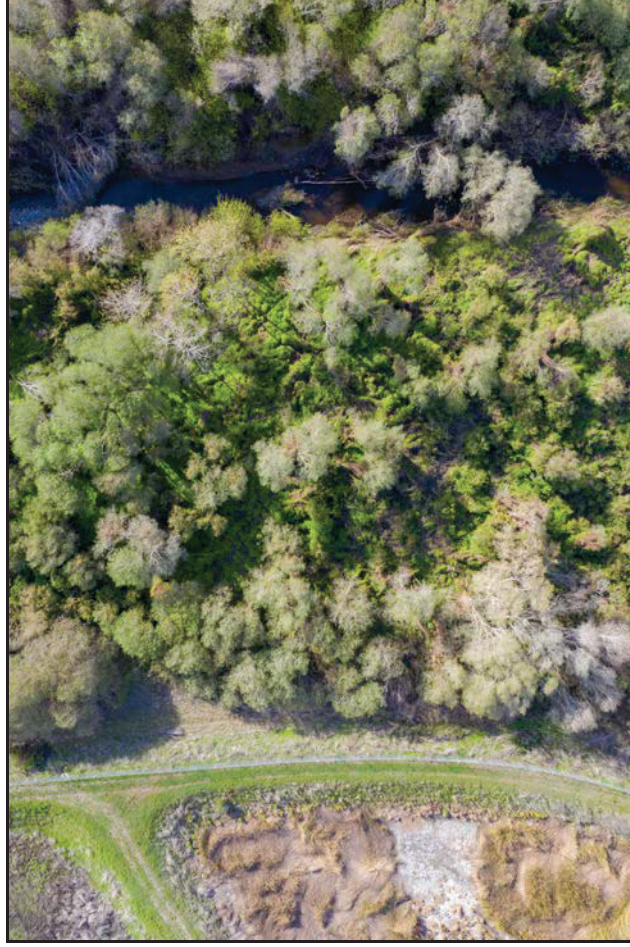
CCSD Monitoring March 14, 2021



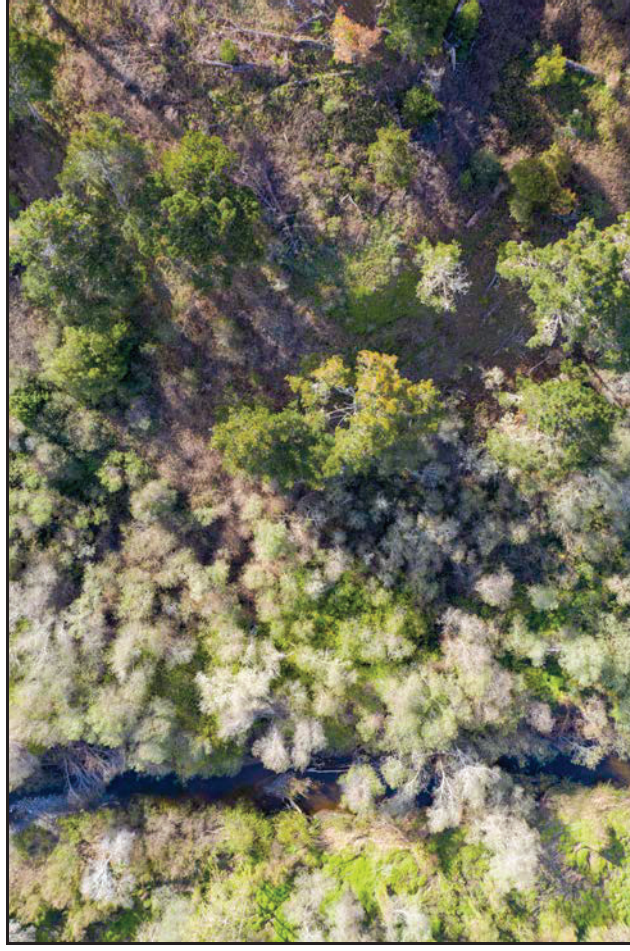
Site 3 Riparian Left



Site 3 Riparian Right

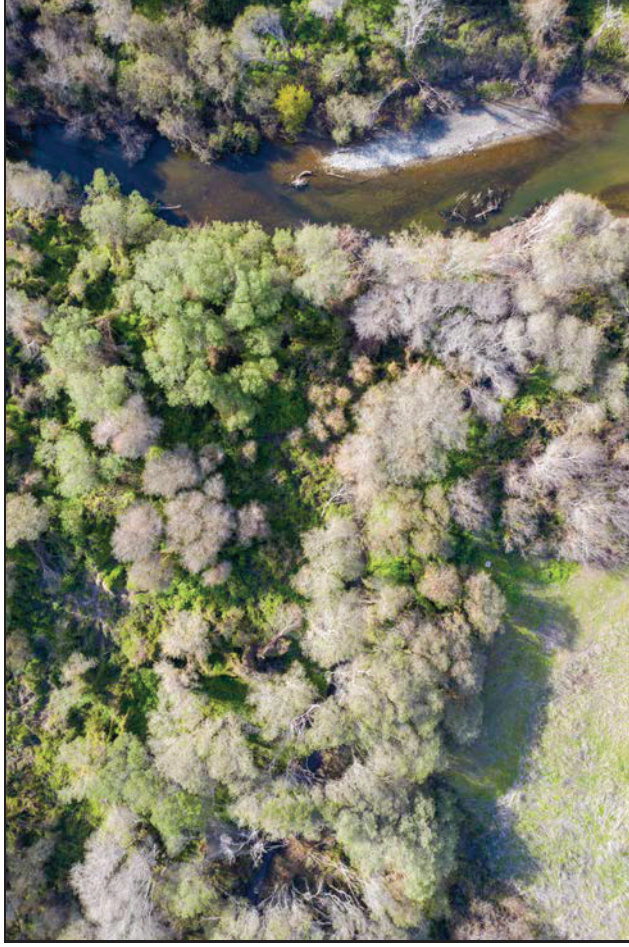


Site 4 Riparian Left

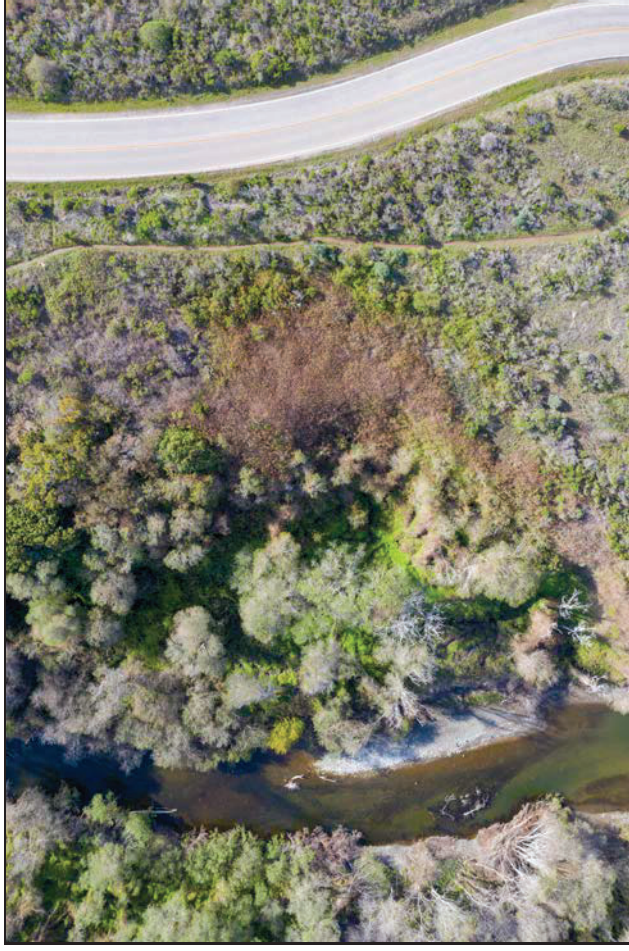


Site 4 Riparian Right

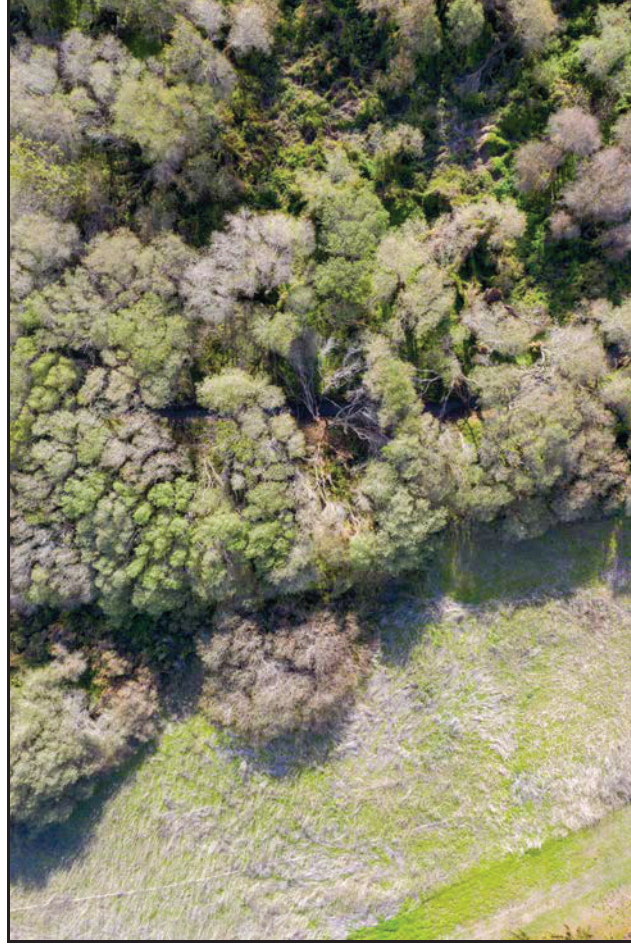
CCSD Monitoring March 14, 2021



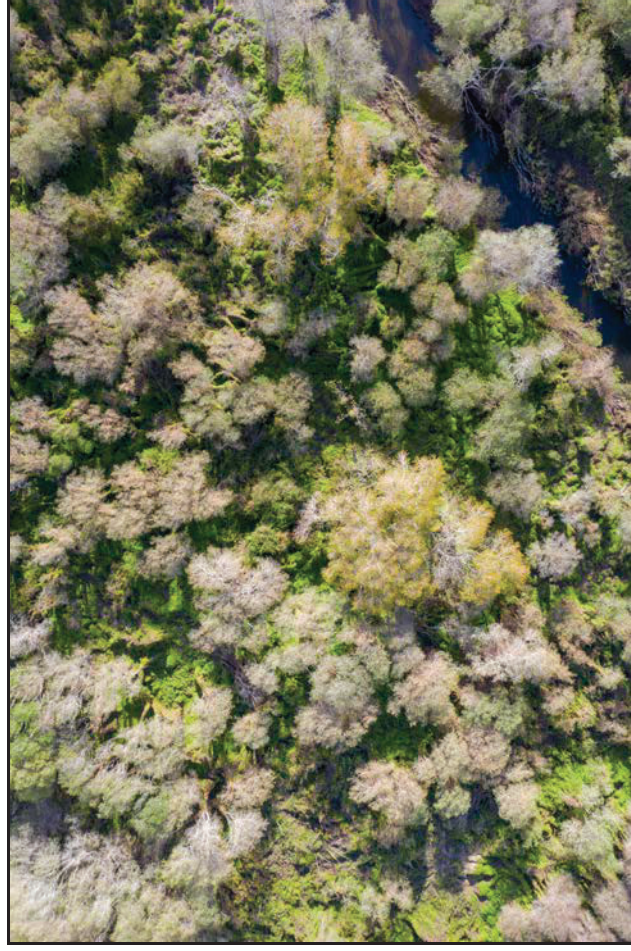
Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring March 14, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

March 28, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

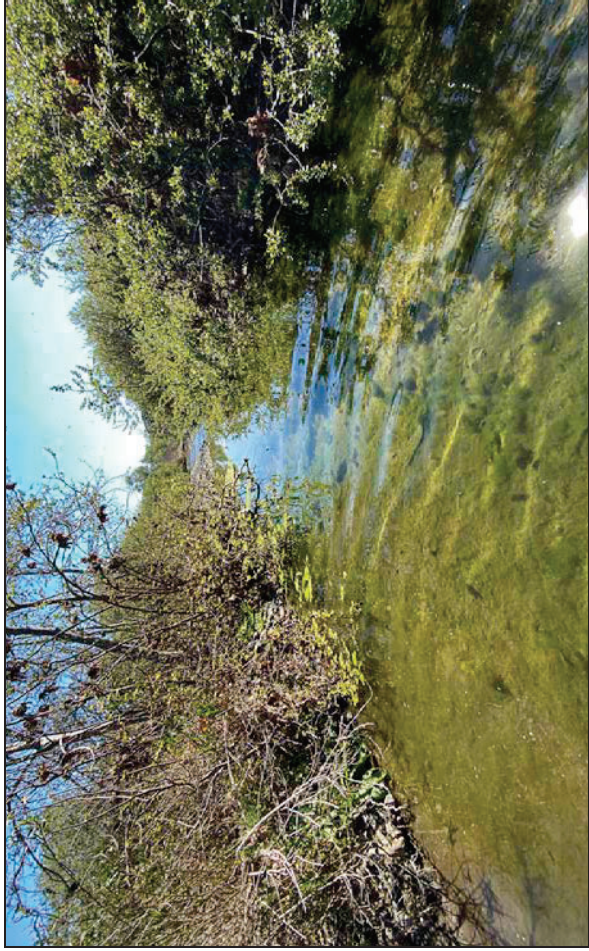
 Study Sites



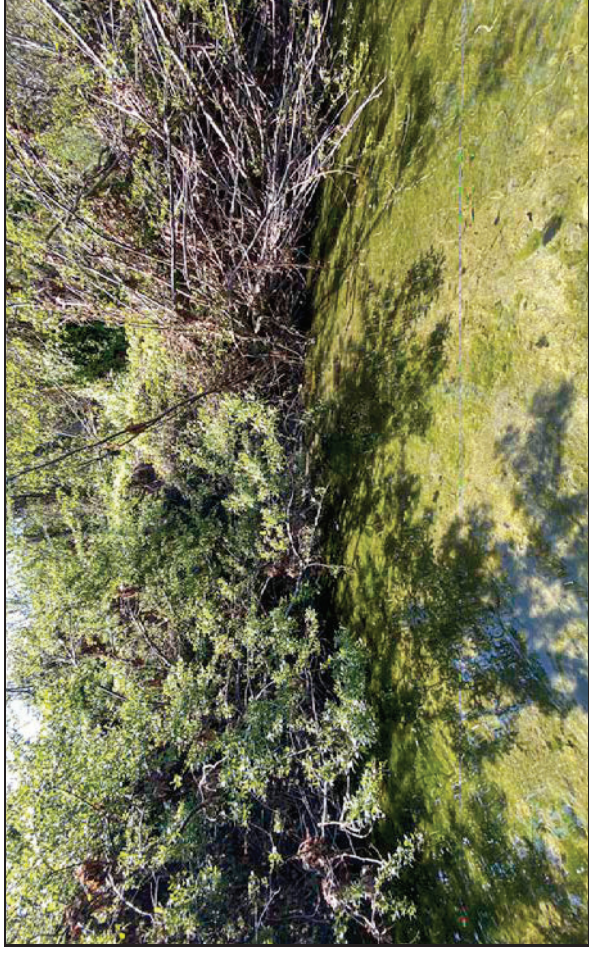
Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 3-28-2021		High Tide: 5:22 ft @ 10:31 AM	Low Tide: 0:51 ft @ 4:26 AM	Sandbar Breached: No	Stage (718): 2.16		
Location	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8
Time	11:30 AM	10:28 AM	10:11 AM	10:00 AM	9:35	9:21 AM	9:15 AM
Weather (°F, Cloud cover)	72, clear	58, clear	57, clear	57, clear	57, clear	52, clear	56, clear
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	10	25	10	25	25	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	18.1	22.5	16.5	22	17	19.5	21.3
Riparian Moisture-Lt Bank (%)	25.1	18.8	17.3	28.8	13.9	18	19.8
Hydrology							
Maximum depth (ft)	1.3	0.5	0.3	1	2.5	dry	dry
Wetted width (ft)	23	30	21	9	34	dry	dry
Flow = Area x Rate (cfs)	1.9	0.7	0.5	1.4	5.8	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	1.1	0.2	0.3	0.6	2	dry	dry
Depth 2 @ 1/2 (ft)	1.2	0.2	0.1	1	2.3	dry	dry
Depth 3 @ 3/4 (ft)	1	0.5	0.1	0.5	2.5	dry	dry
Average Depth = total/4 (ft)	0.8	0.2	0.1	0.5	1.7	dry	dry
Area = Width x Avg Depth (ft^2)	19.0	6.8	2.6	4.7	57.8	dry	dry
Rate from meter (ft/sec)	0.1	0.1	0.2	0.3	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	61.2	55	56.2	57.3	55.4	dry	dry
Dissolved Oxygen (%)	138.7	99.2	85.5	40.9	52.1	dry	dry
Dissolved Oxygen (ppm)	13.6	10.48	8.59	4.2	5.47	dry	dry
Total Dissolved Solids (mg/L)	408	417	279	736	795	dry	dry
Salinity (ppt)	0.31	0.31	0.3	0.57	0.61	dry	dry
Species Observed	No fish observed in very clear water.						
Comments	Water flow continuous at all San Simeon Creek sites.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	14.4						
East (%)	8.4						
South (%)	14.3						
West (%)	12.6						
†Moisture measured on each side of well casing. Max reading is 50%.							

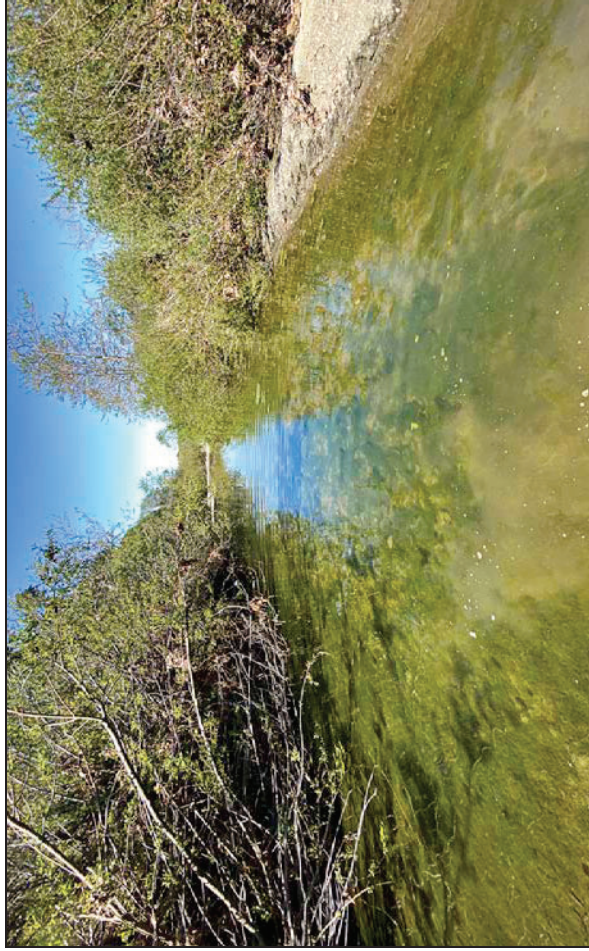
CCSD Monitoring March 28, 2021



Site 1



Site 1

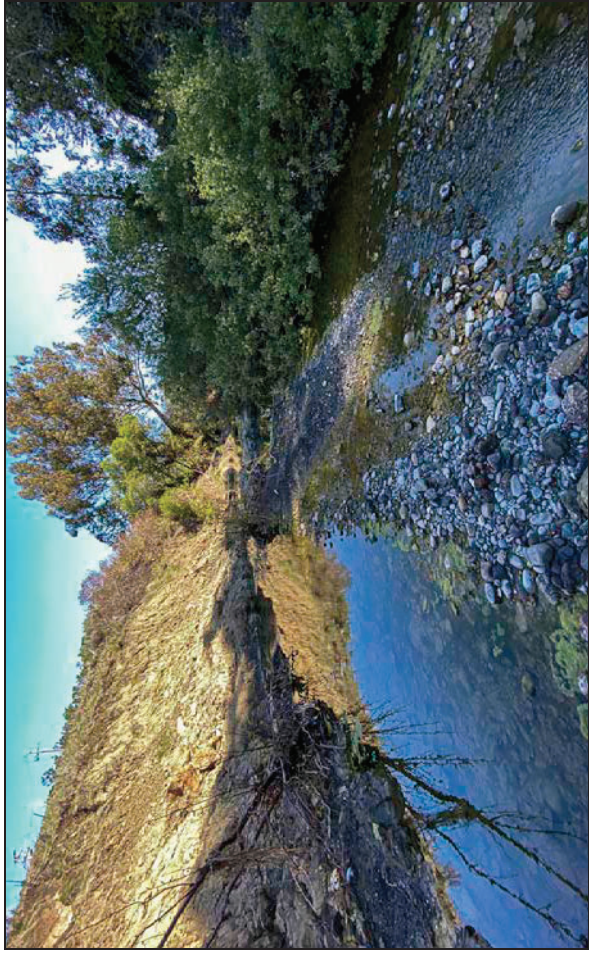


Site 1



Site 1

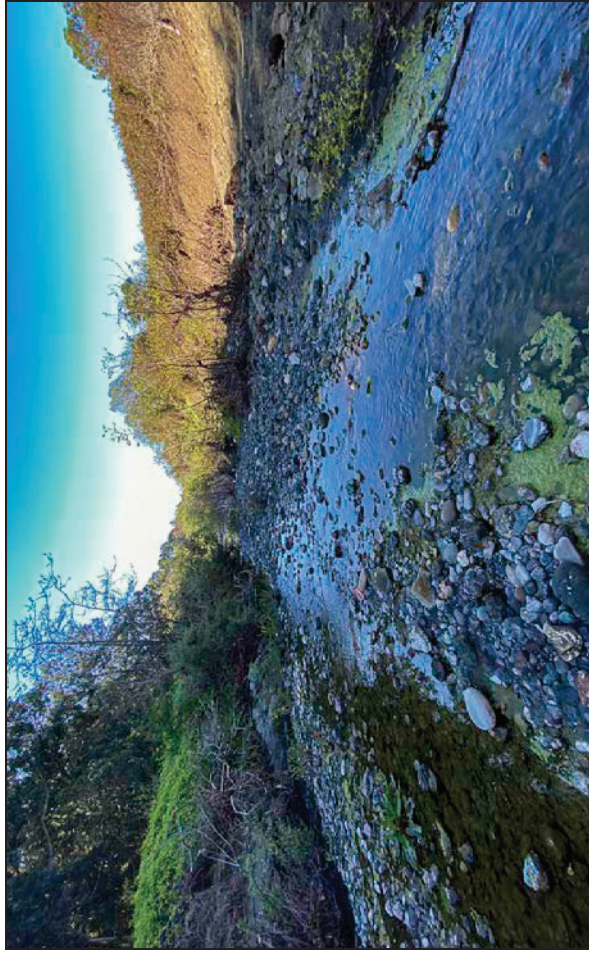
CCSD Monitoring March 28, 2021



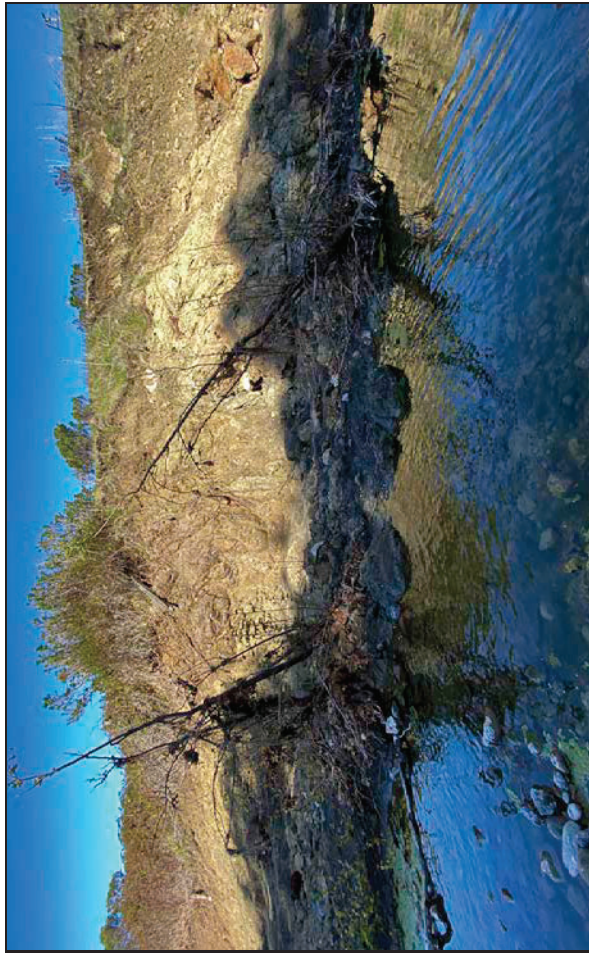
Site 2



Site 2

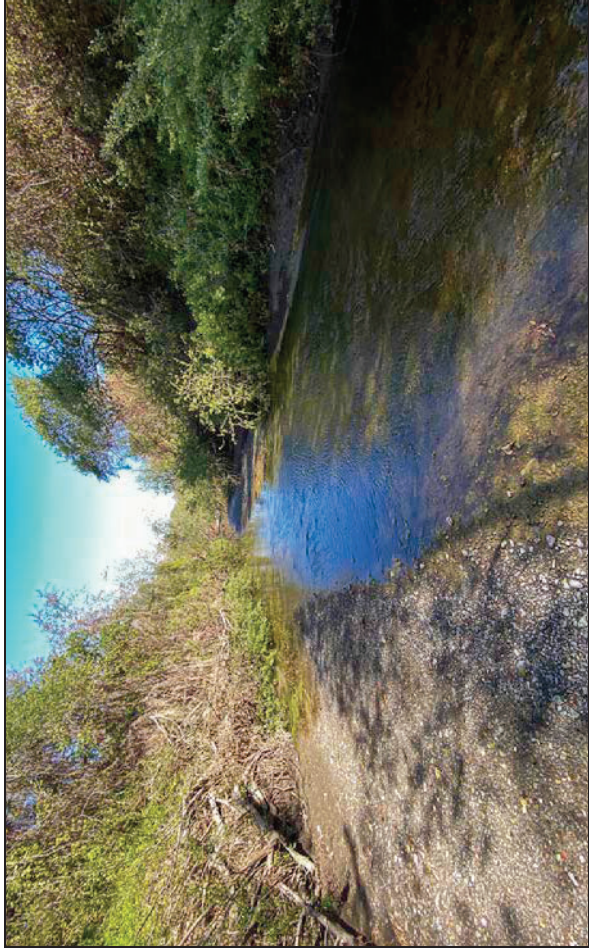


Site 2



Site 2

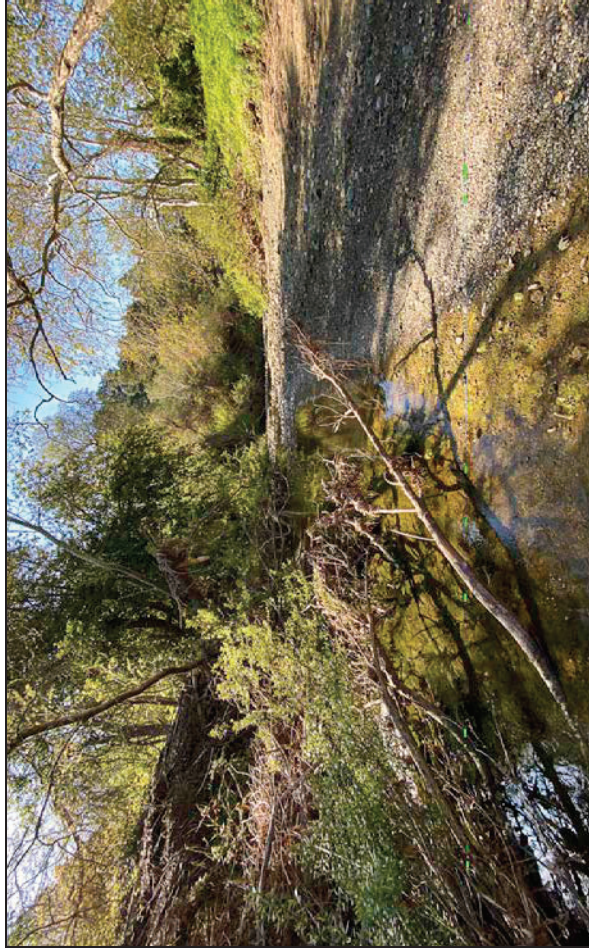
CCSD Monitoring March 28, 2021



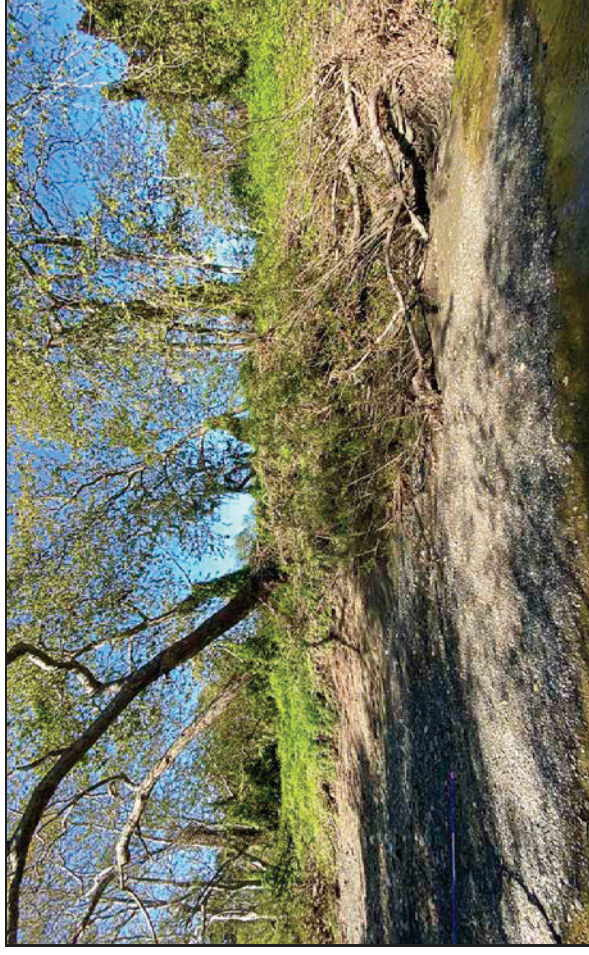
Site 3



Site 3

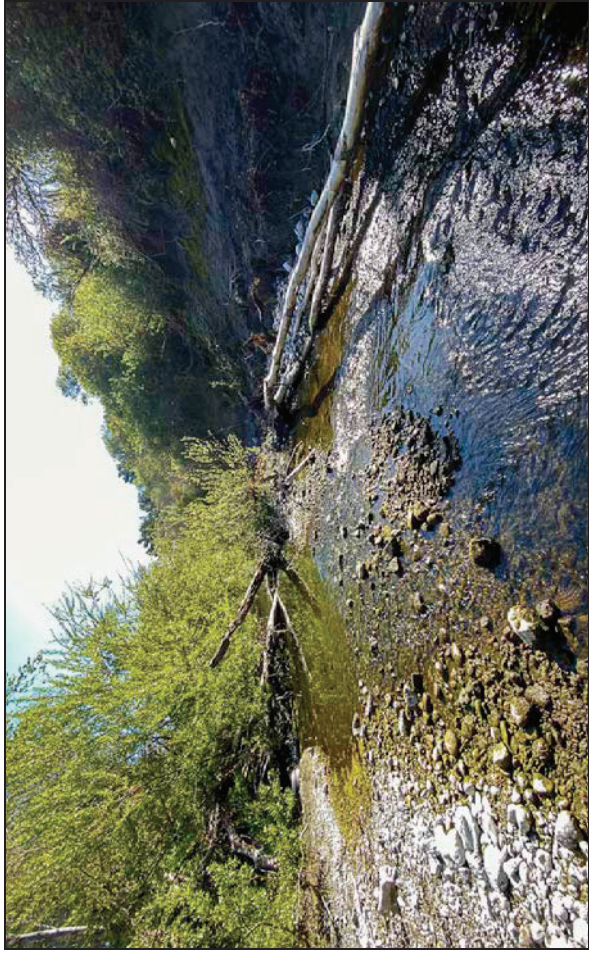


Site 3



Site 3

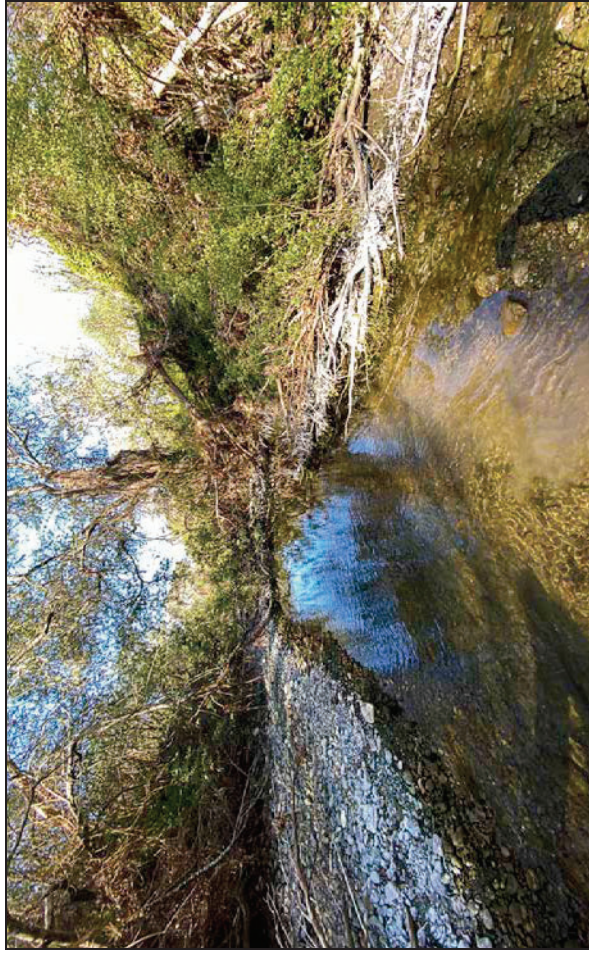
CCSD Monitoring March 28, 2021



Site 4



Site 4

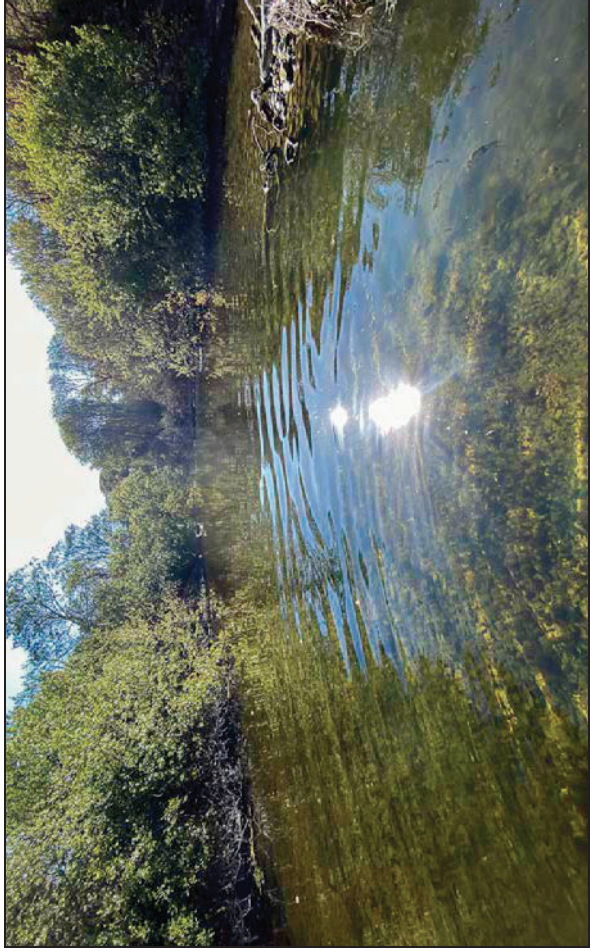


Site 4



Site 4

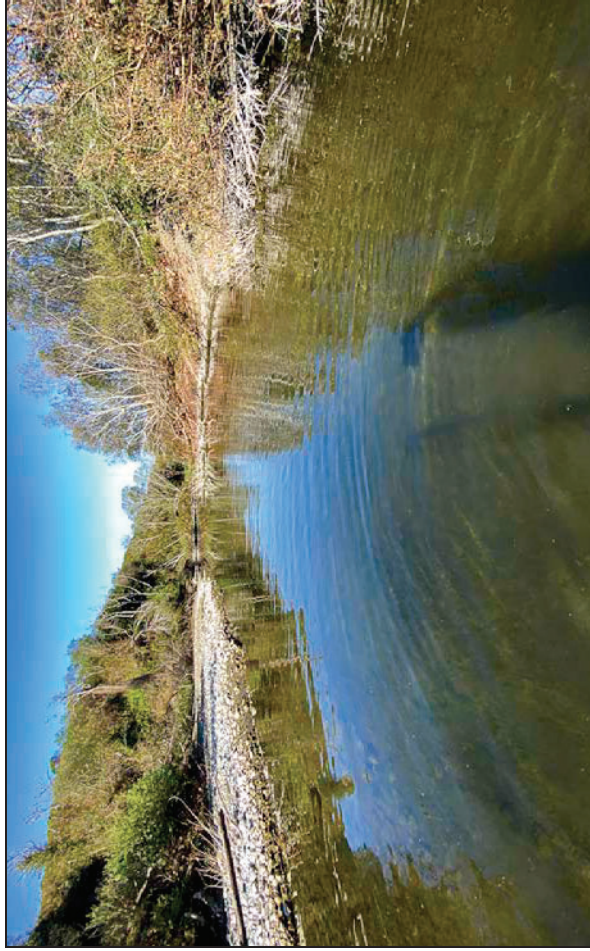
CCSD Monitoring March 28, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring March 28, 2021



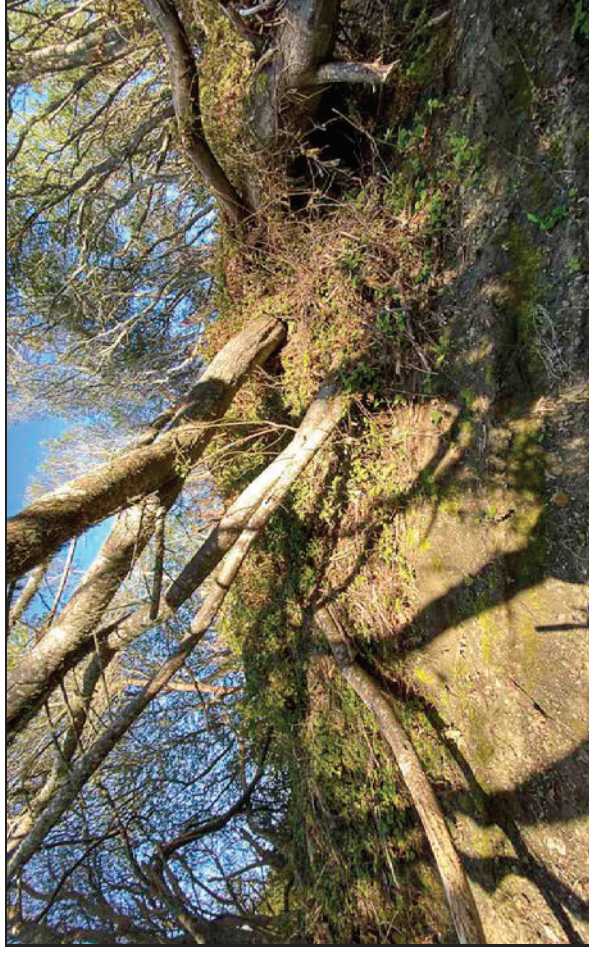
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring March 28, 2021



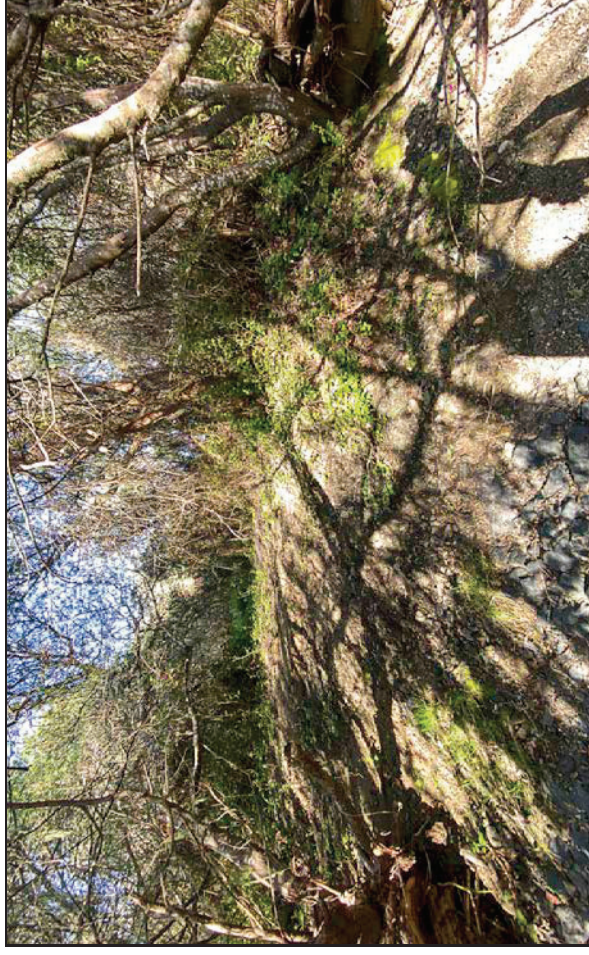
Site 8



Site 8

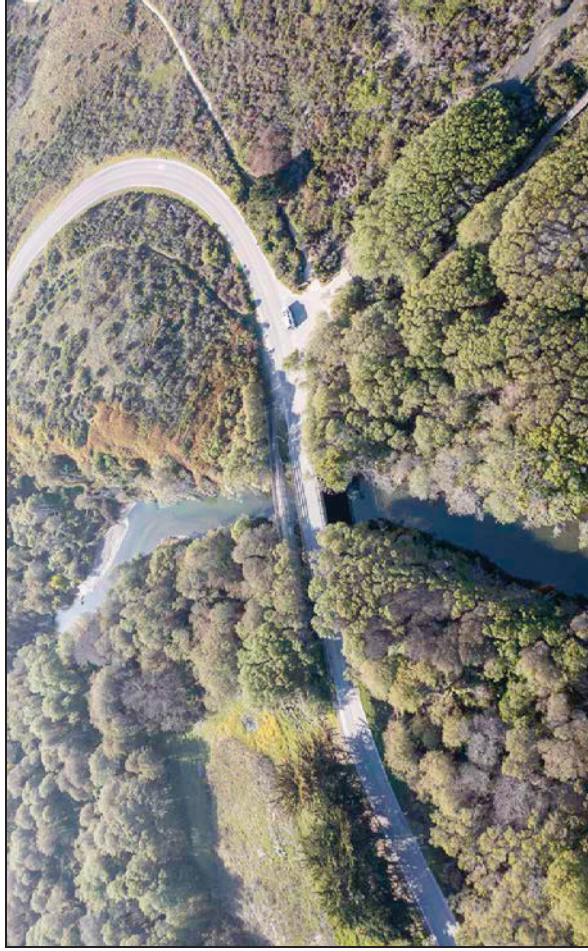


Site 8



Site 8

CCSD Monitoring March 28, 2021



Walking Bridge PS-1

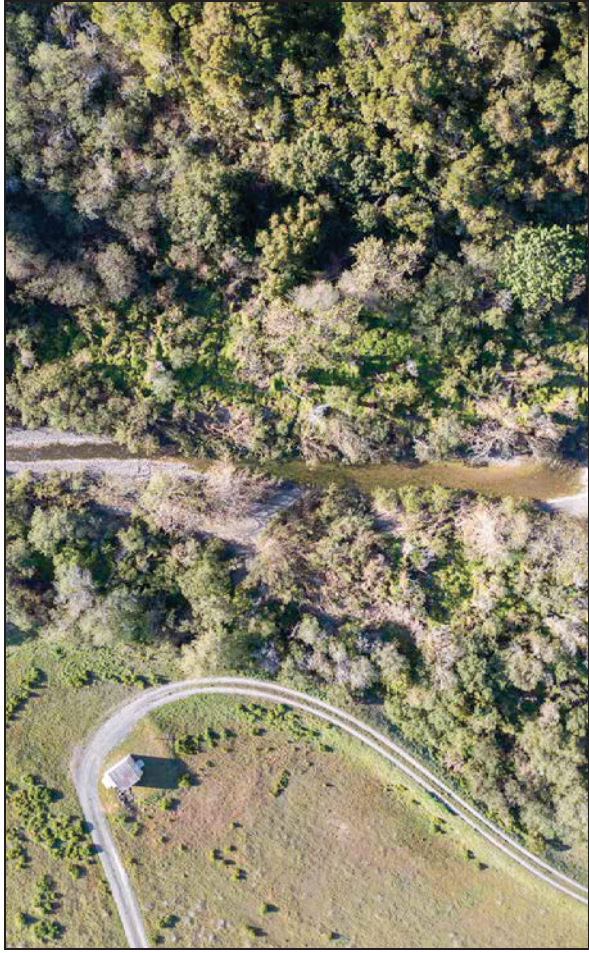


Estuary PS-2



9P7 Well

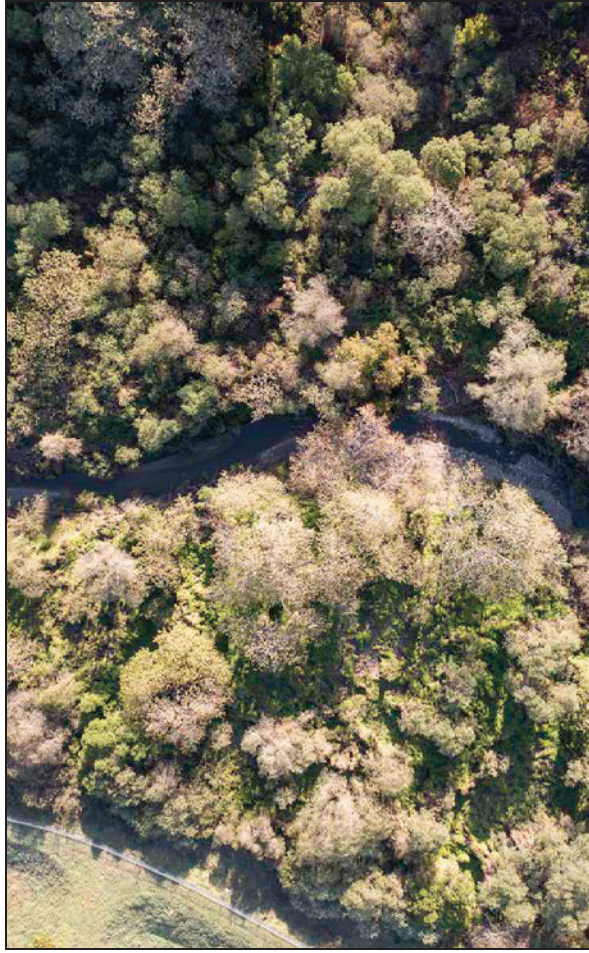
CCSD Monitoring March 28, 2021



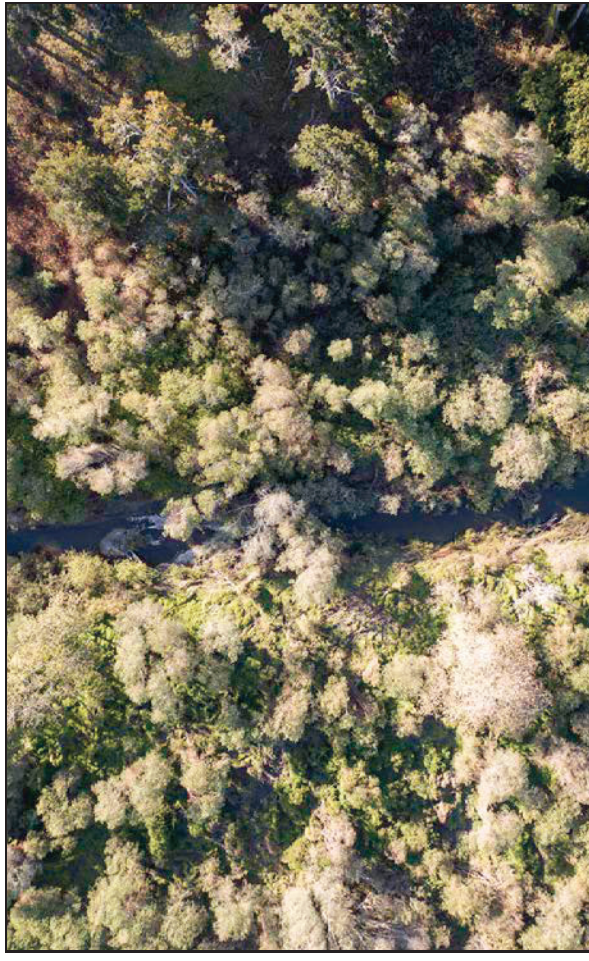
Site 1 Aerial



Site 2 Aerial

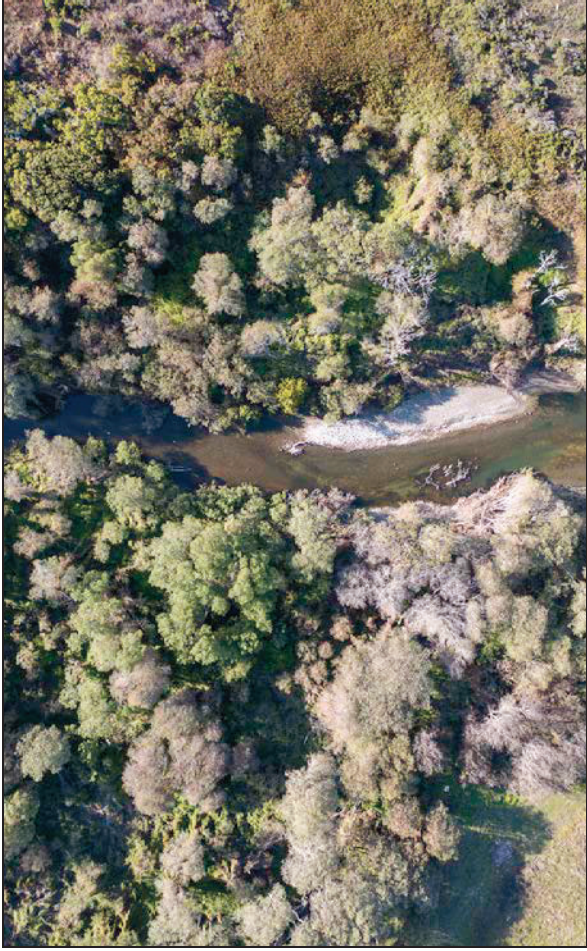


Site 3 Aerial



Site 4 Aerial

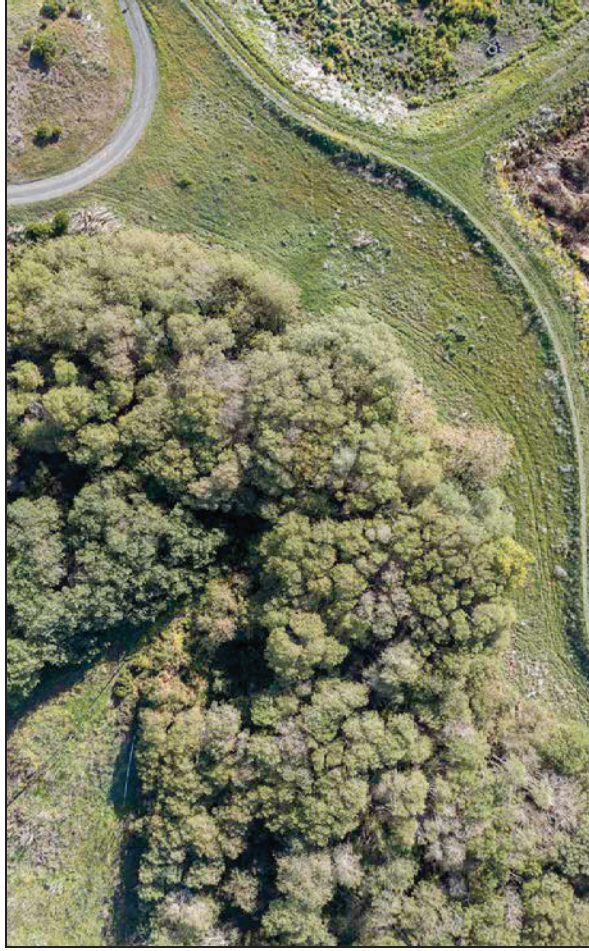
CCSD Monitoring March 28, 2021



Site 5 Aerial

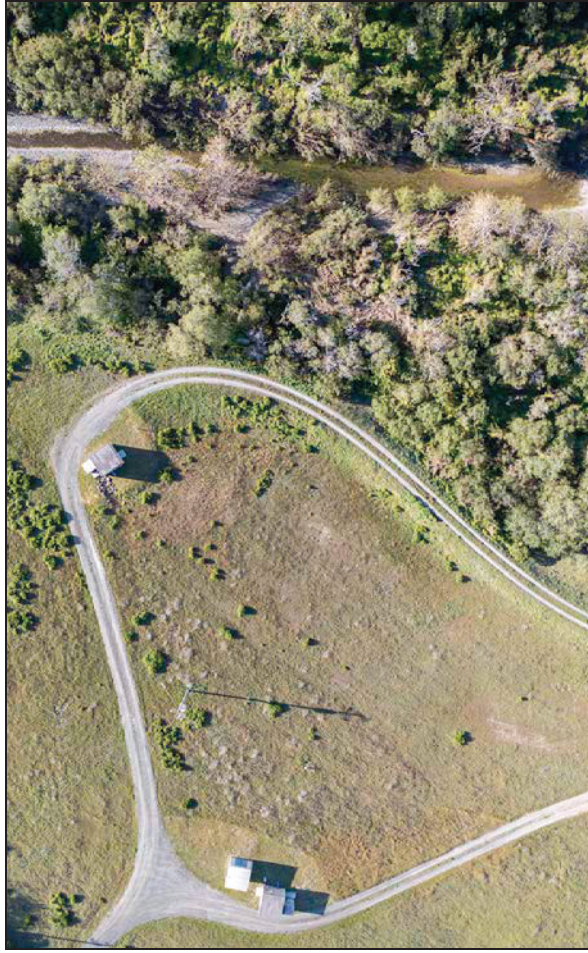


Site 7 Aerial

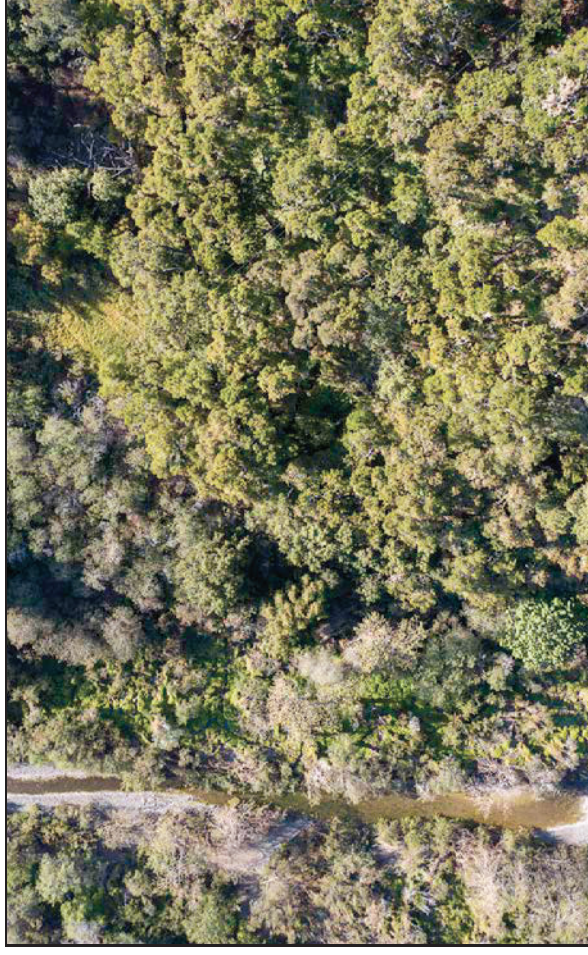


Site 8 Aerial

CCSD Monitoring March 28, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left

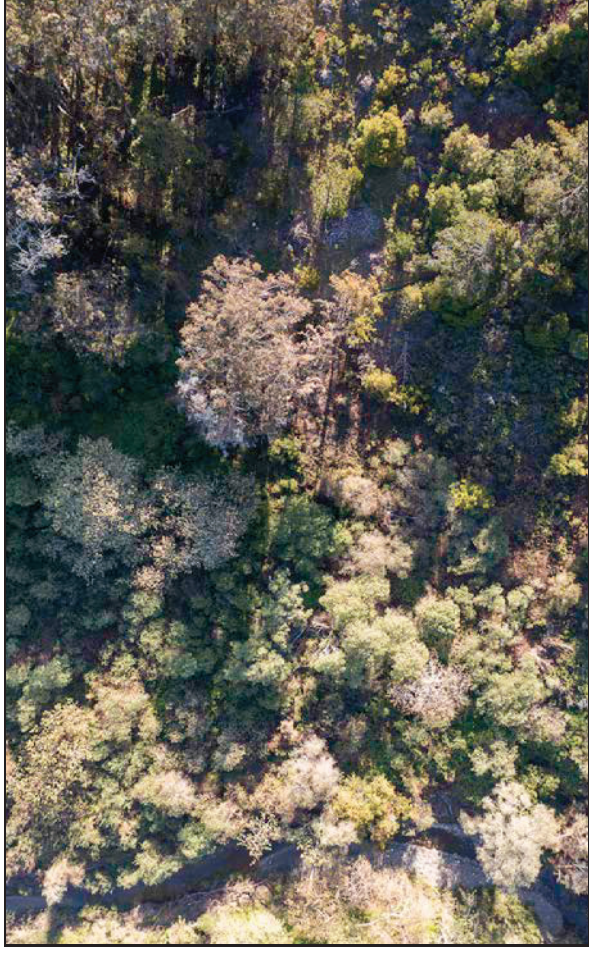


Site 2 Riparian Right

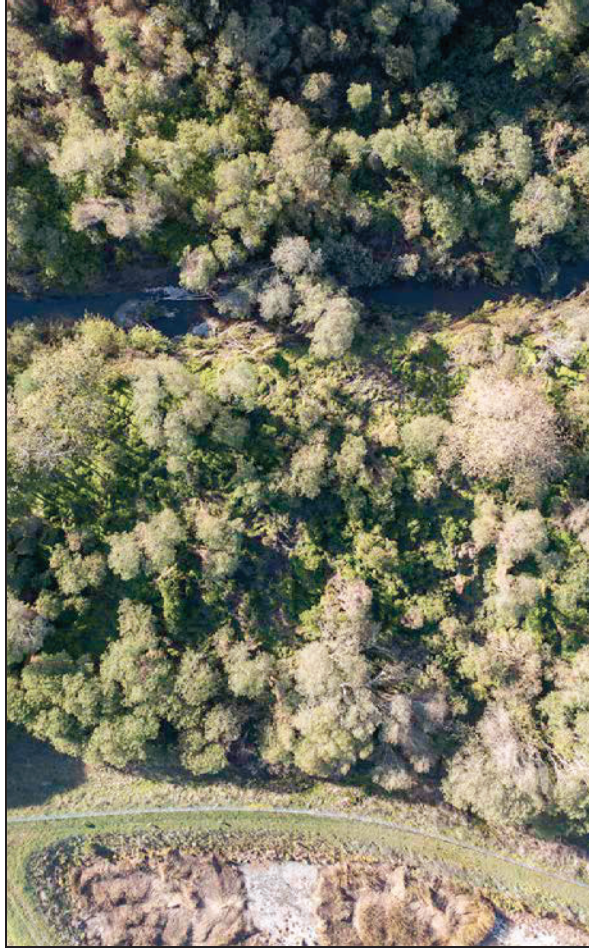
CCSD Monitoring March 28, 2021



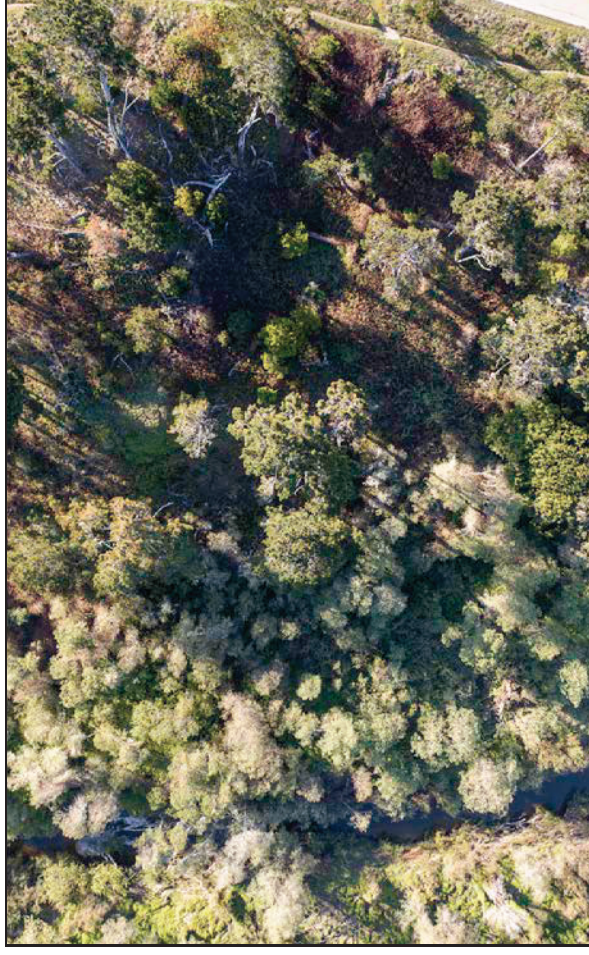
Site 3 Riparian Left



Site 3 Riparian Right

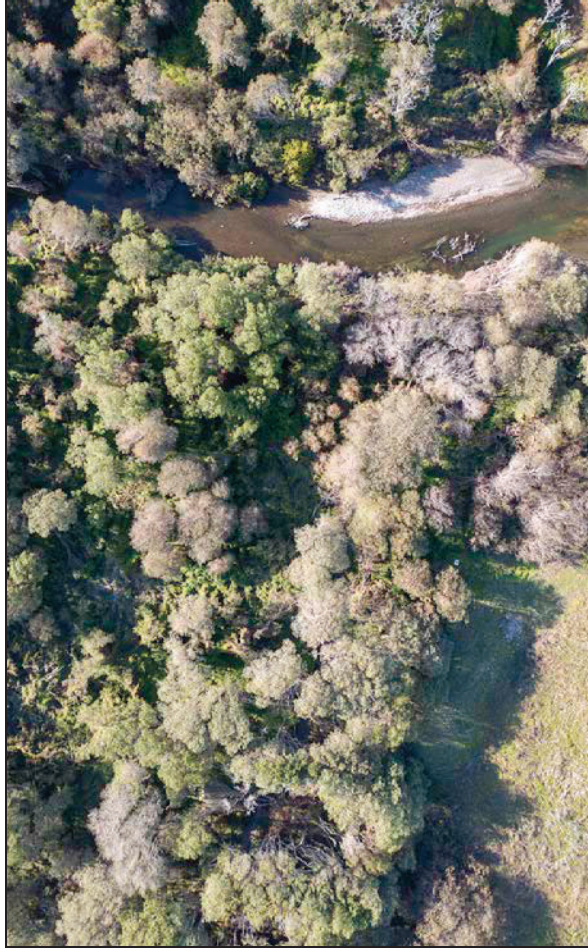


Site 4 Riparian Left

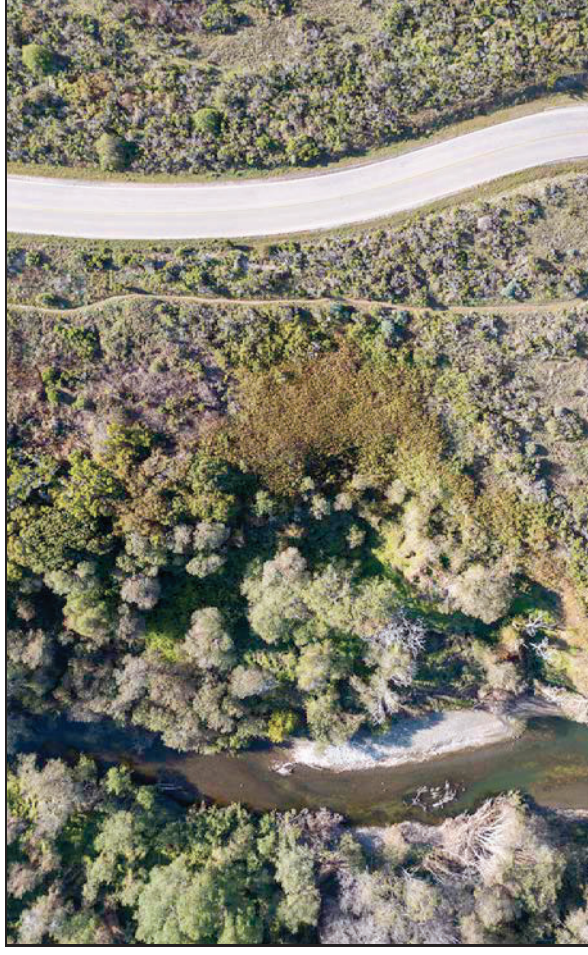


Site 4 Riparian Right

CCSD Monitoring March 28, 2021



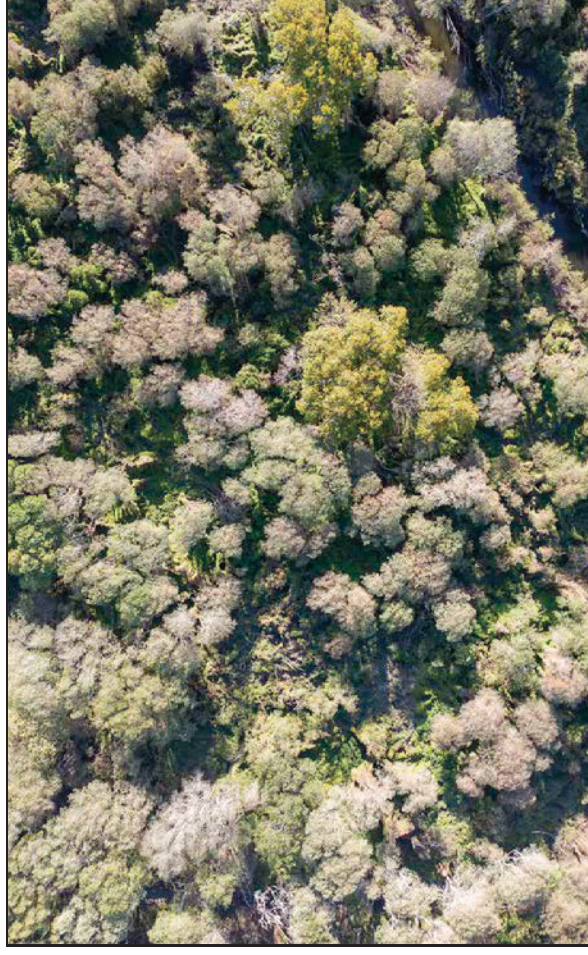
Site 5 Riparian Left



Site 5 Riparian Right

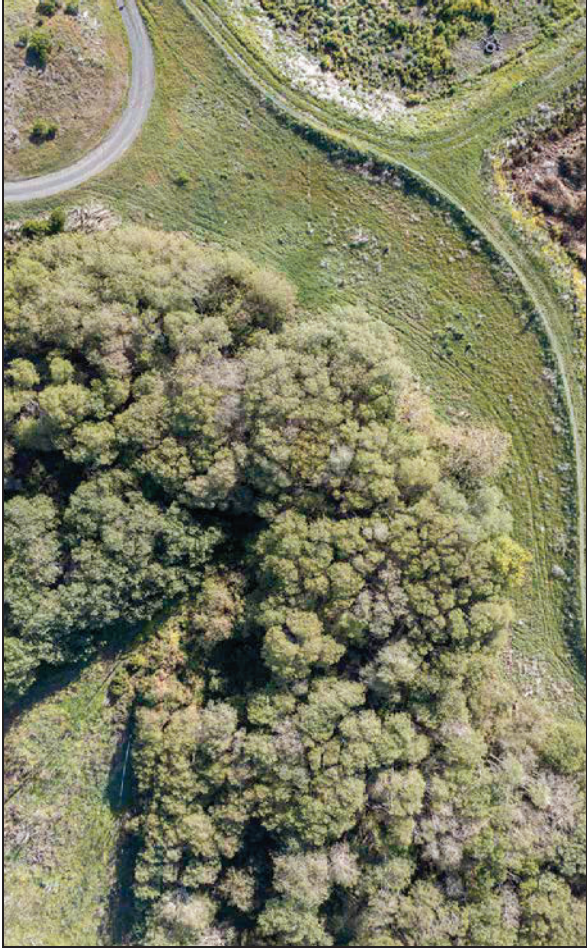


Site 7 Aerial Riparian Left



Site 7 Riparian Right

CCSD Monitoring March 28, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

April 11, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



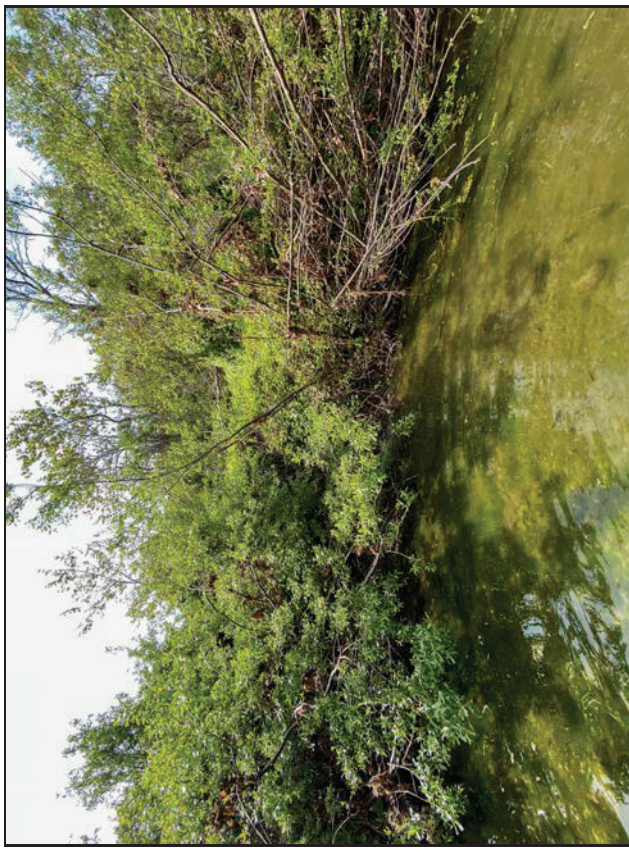
Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 4-11-2021		High Tide: 4:24 ft @10:45 AM	Low Tide: 0:48 ft @ 4:42 AM		Sandbar Breached: No	Stage (718): 2.07	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	11:07 AM	10:34 AM	10:25 AM	10:13 AM	9:54	9:40 AM	9:33 AM
Weather (°F, Cloud cover)	68, clear	58, clear	58, clear	56, clearing	52, clearing	52, overcast	52, overcast
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	10	0	75	50	75	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	22.4	17.7	18.5	22	11.5	19.5	21.3
Riparian Moisture-Lt Bank (%)	14.1	17.4	9	22.1	8.7	18	19.8
Hydrology							
Maximum depth (ft)	1.1	dry	0.2	0.6	2	dry	dry
Wetted width (ft)	20.5	dry	21.5	6.6	29	dry	dry
Flow = Area x Rate (cfs)	1.3	dry	0.2	0.6	3.9	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	1.1	dry	0.2	0.3	1.7	dry	dry
Depth 2 @ 1/2 (ft)	0.8	dry	0.1	0.5	1.8	dry	dry
Depth 3 @ 3/4 (ft)	0.7	dry	0.05	0.4	1.9	dry	dry
Average Depth = total/4 (ft)	0.7	dry	0.1	0.3	1.4	dry	dry
Area = Width x Avg Depth (ft^2)	13.3	dry	1.9	2.0	39.2	dry	dry
Rate from meter (ft/sec)	0.1	dry	0.1	0.3	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	59.8	dry	58.7	56.9	56.1	dry	dry
Dissolved Oxygen (%)	116.3	dry	81.5	58.9	60.4	dry	dry
Dissolved Oxygen (ppm)	11.38	dry	8.23	6.08	6.28	dry	dry
Total Dissolved Solids (mg/L)	395	dry	410	595	889	dry	dry
Salinity (ppt)	0.3	dry	0.31	0.45	0.69	dry	dry
Species Observed	Approximately 40 stickleback observed at and in the pool directly above Site 4. Two stickleback observed at Site 1.						
Comments	Water flow subsurface at Site 2 for approx. 100 yards, continuous at all San Simeon Creek sites.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	18.7						
East (%)	10.7						
South (%)	14.5						
West (%)	8.4						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring April 11, 2021



Site 1



Site 1



Site 1

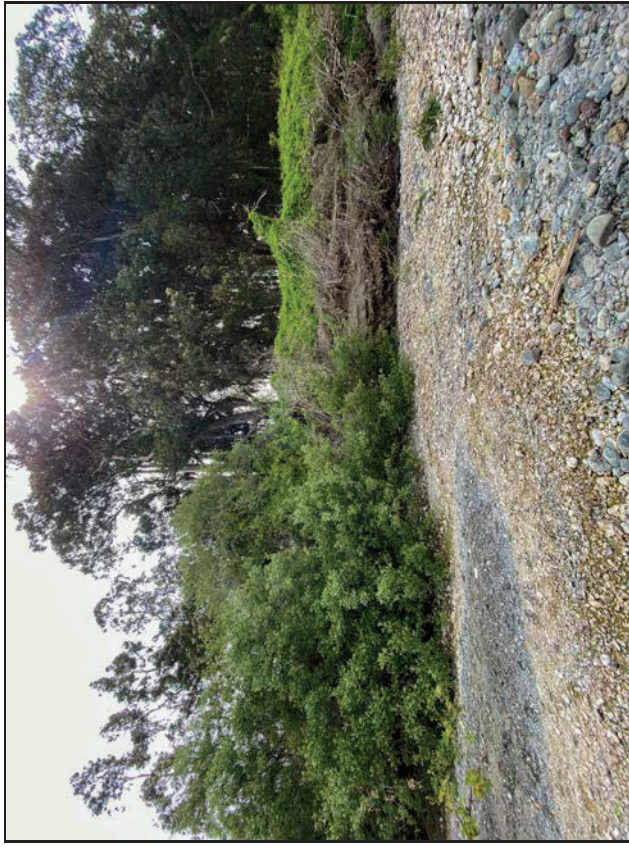


Site 1

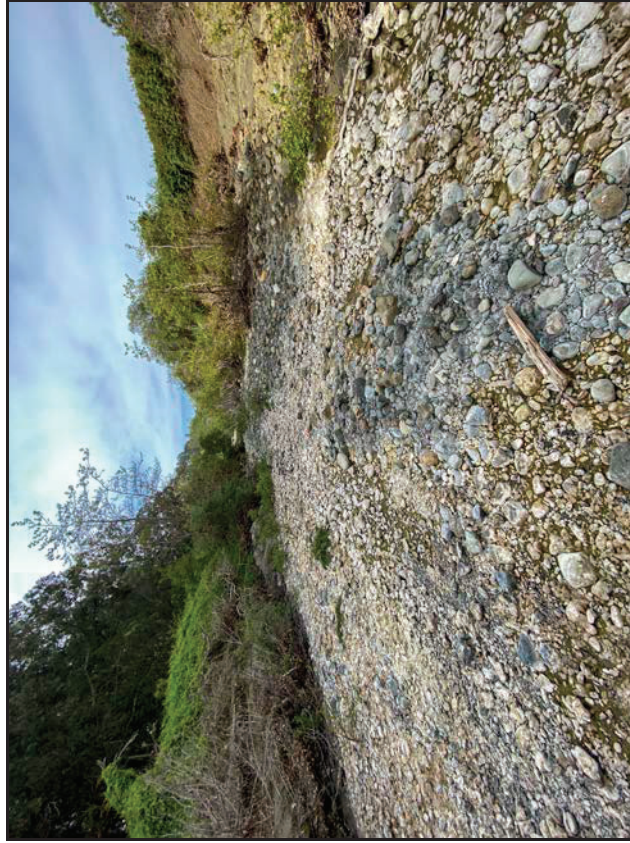
CCSD Monitoring April 11, 2021



Site 2



Site 2



Site 2



Site 2

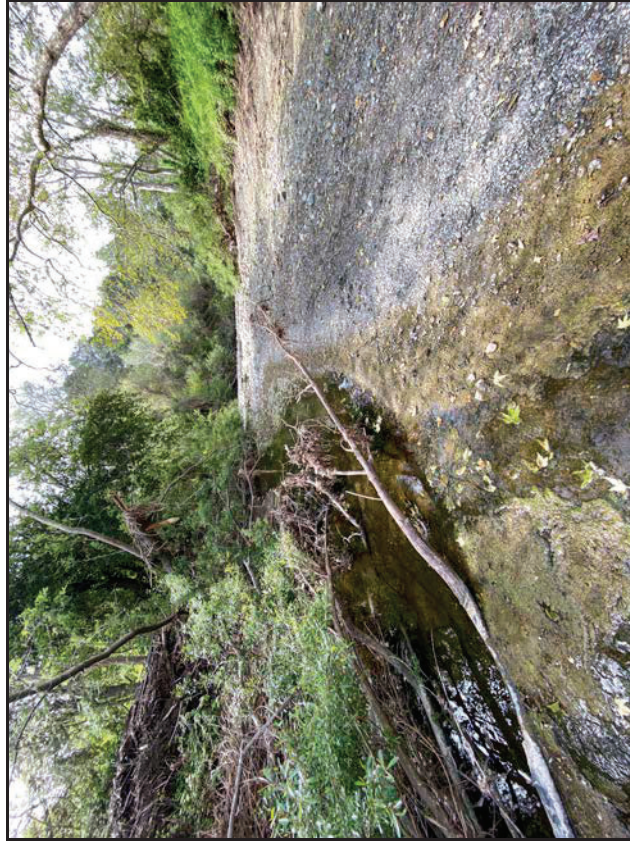
CCSD Monitoring April 11, 2021



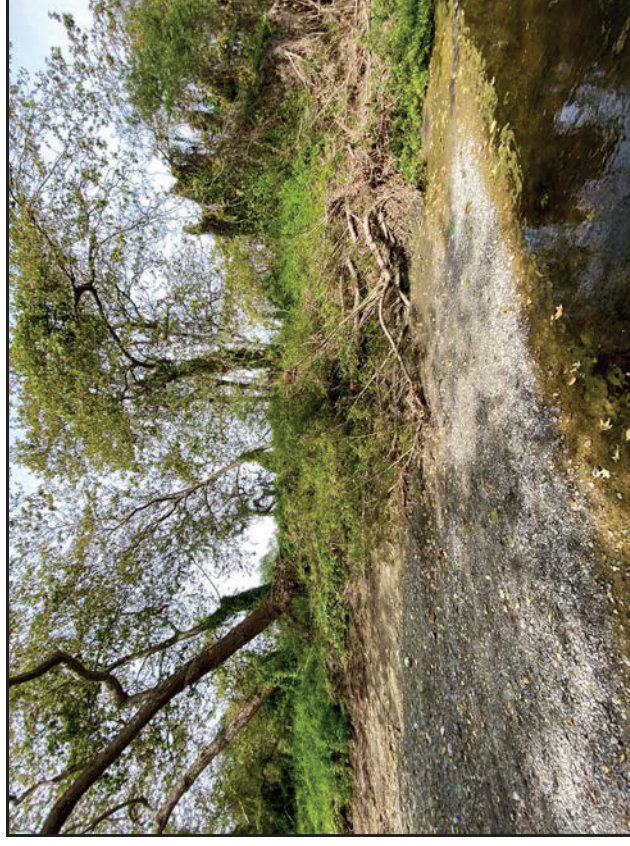
Site 3



Site 3



Site 3



Site 3

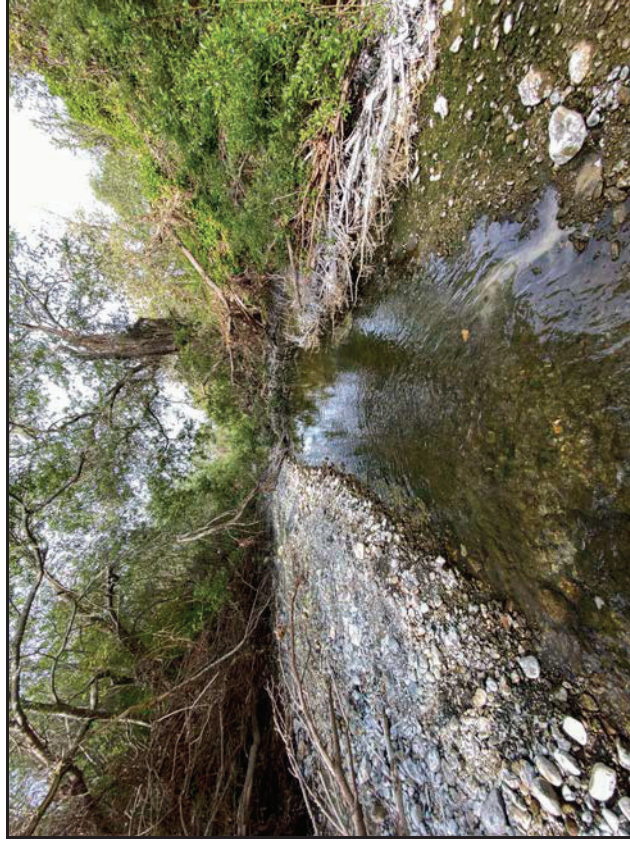
CCSD Monitoring April 11, 2021



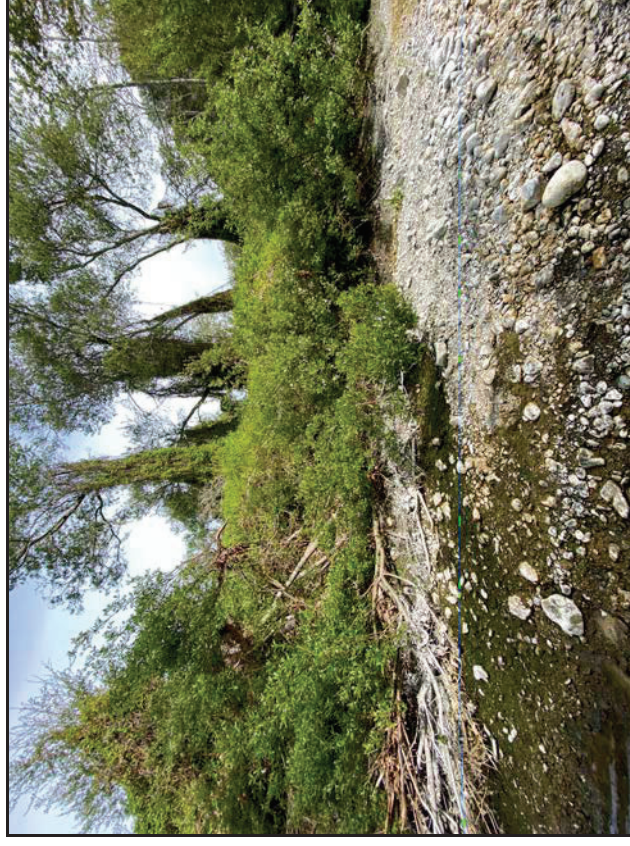
Site 4



Site 4

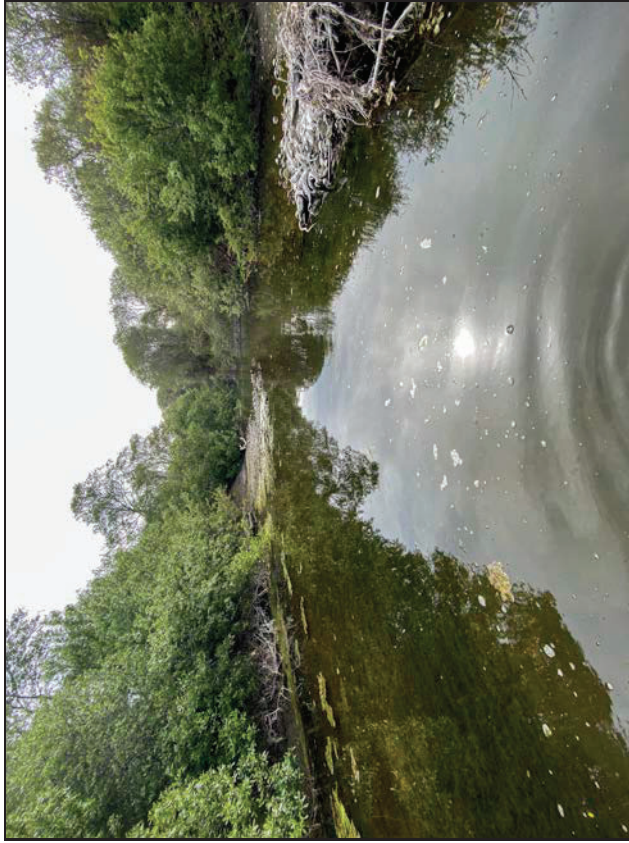


Site 4



Site 4

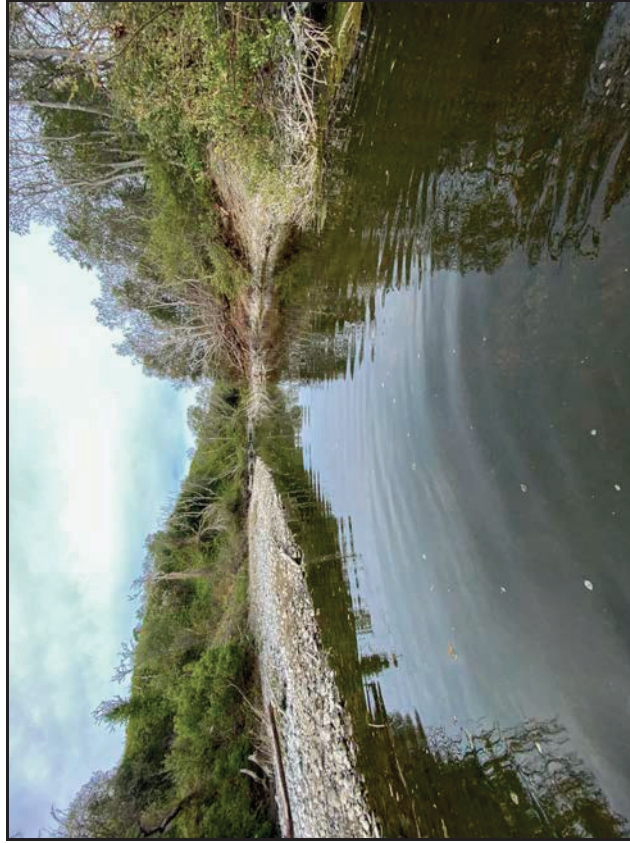
CCSD Monitoring April 11, 2021



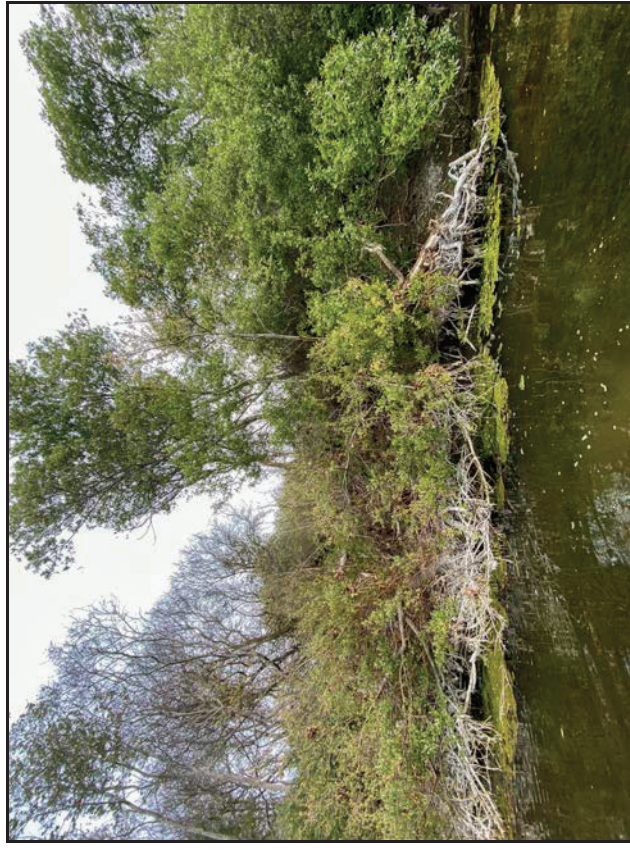
Site 5



Site 5



Site 5



Site 5

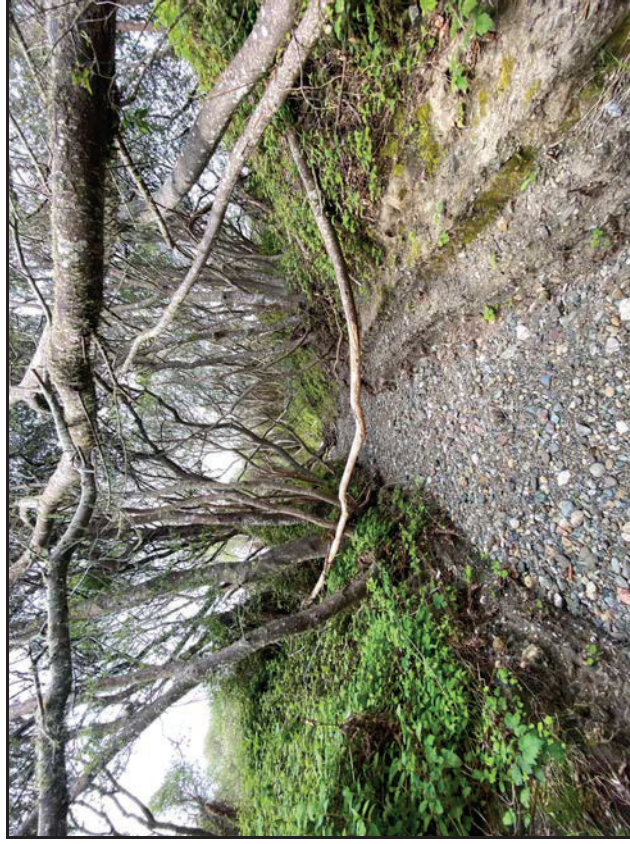
CCSD Monitoring April 11, 2021



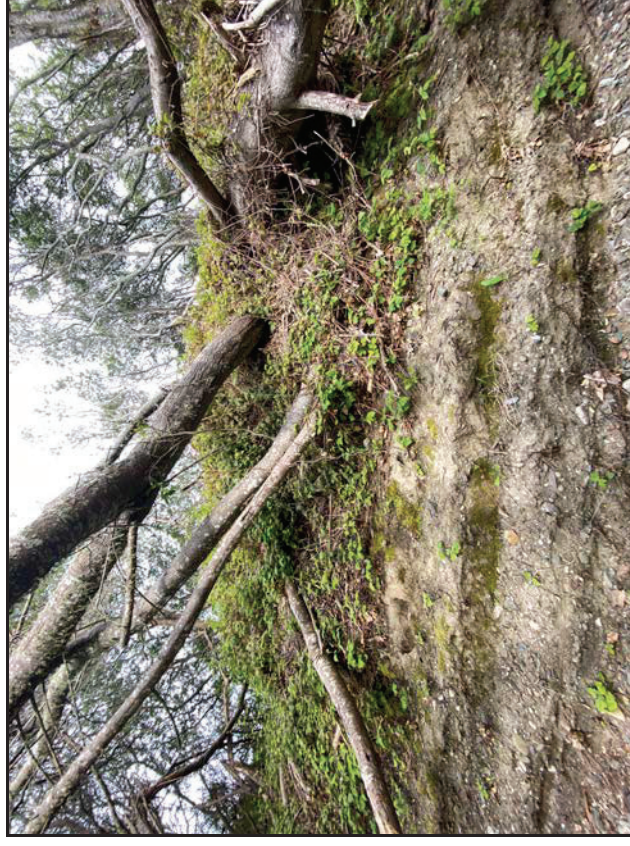
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring April 11, 2021



Site 8



Site 8

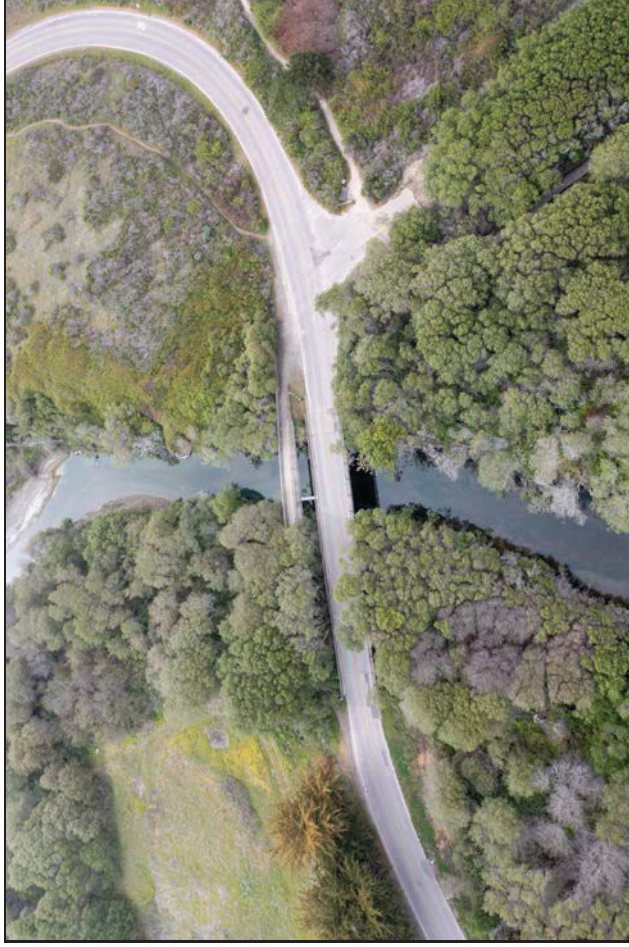


Site 8



Site 8

CCSD Monitoring April 11, 2021



Walking Bridge PS-1

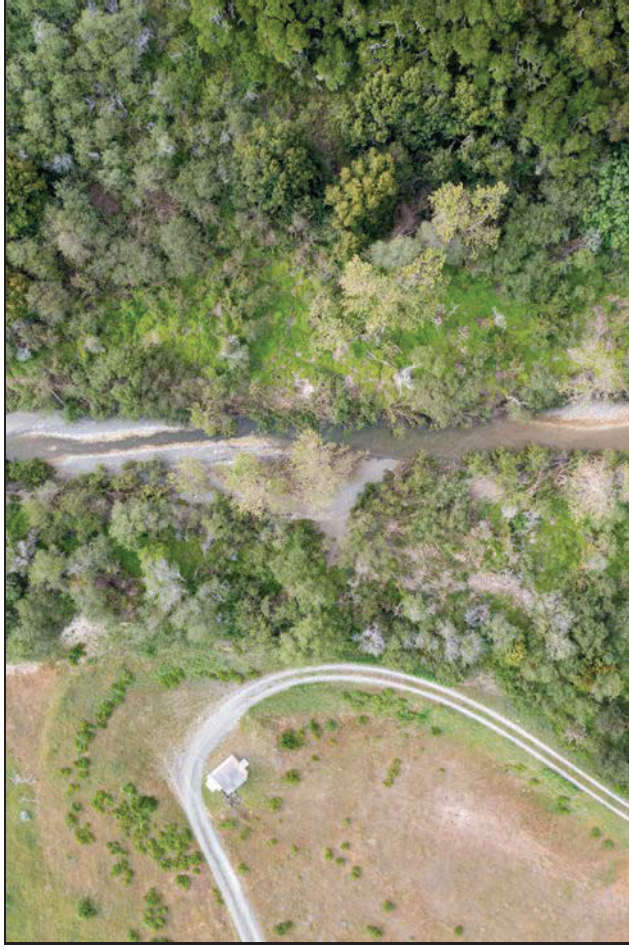


Estuary PS-2



9P7 Well

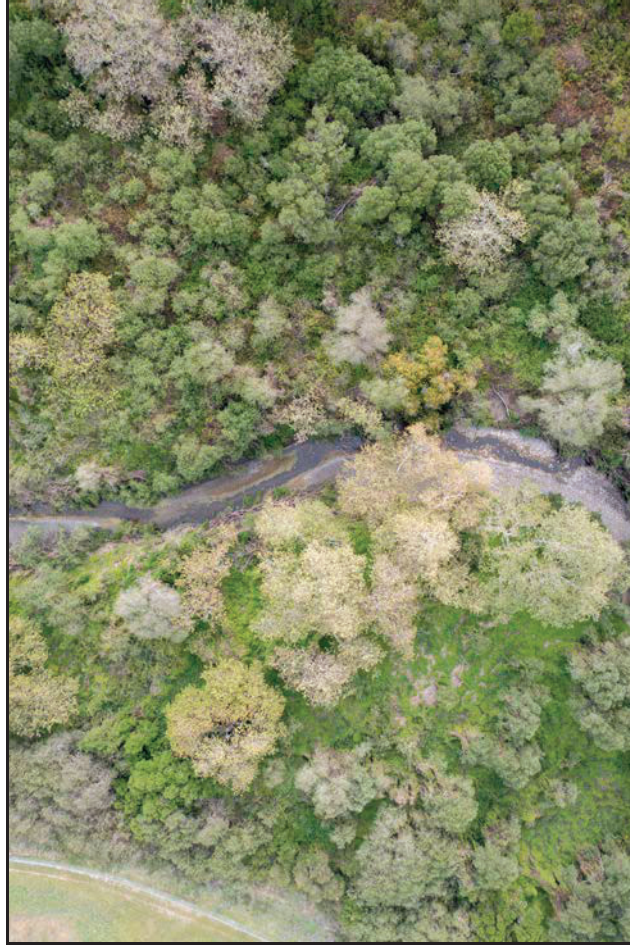
CCSD Monitoring April 11, 2021



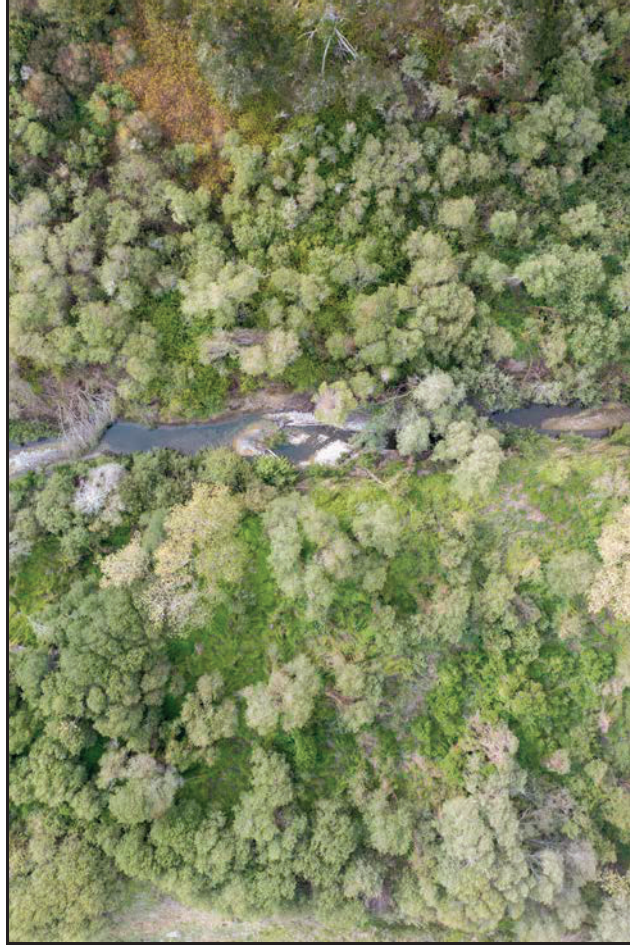
Site 1 Aerial



Site 2 Aerial

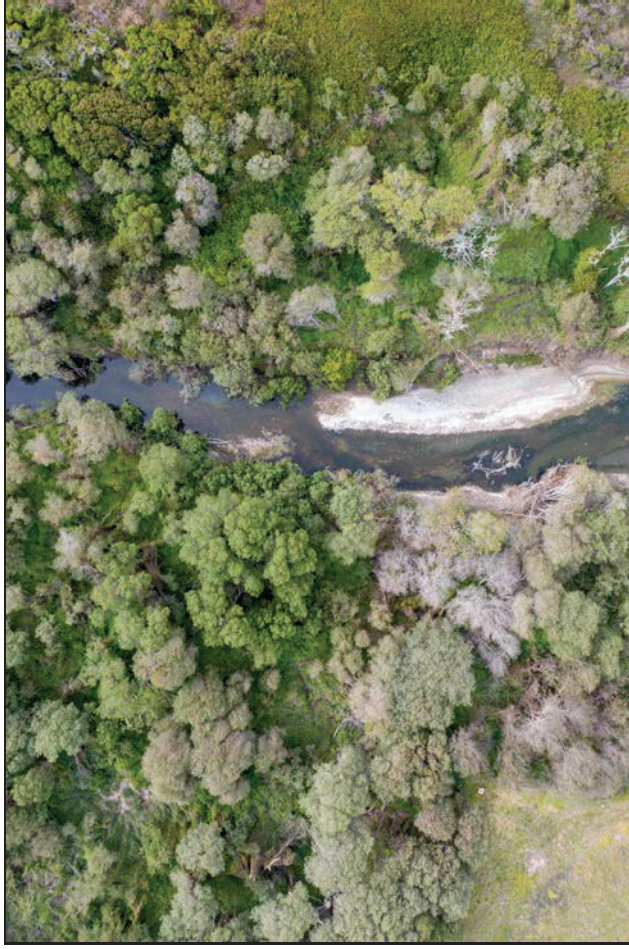


Site 3 Aerial

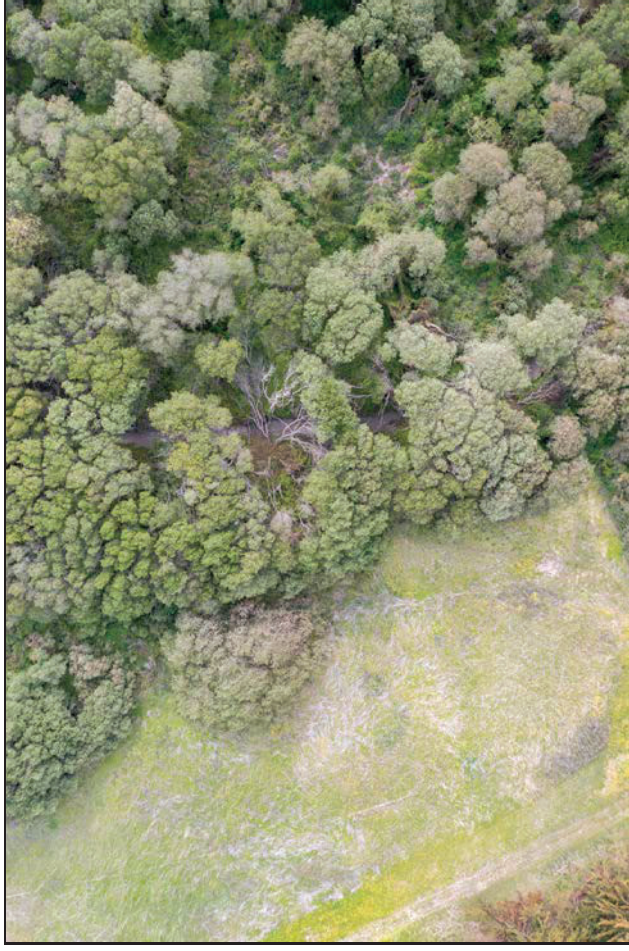


Site 4 Aerial

CCSD Monitoring April 11, 2021



Site 5 Aerial

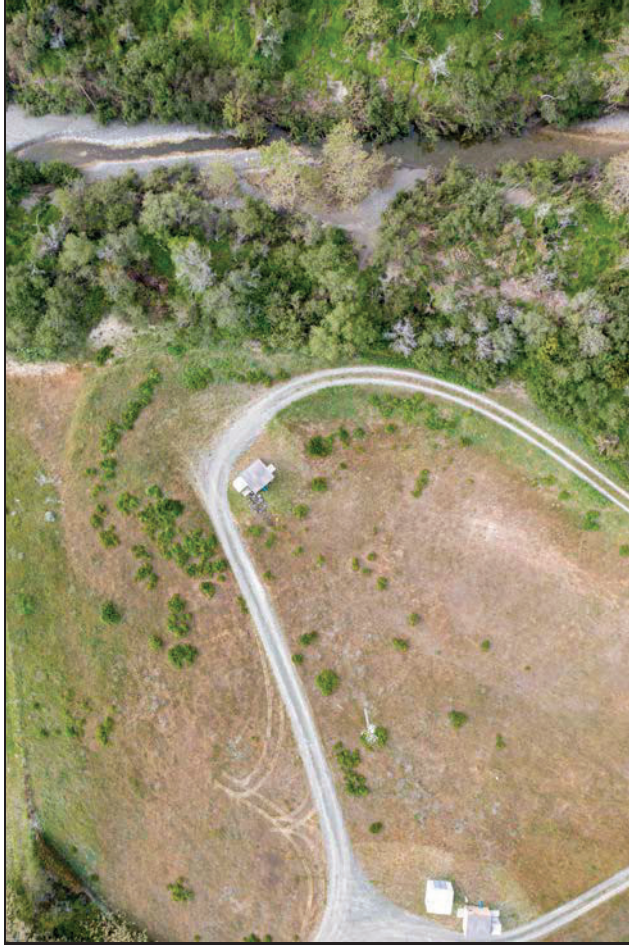


Site 7 Aerial



Site 8 Aerial

CCSD Monitoring April 11, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring April 11, 2021



Site 3 Riparian Left



Site 3 Riparian Right

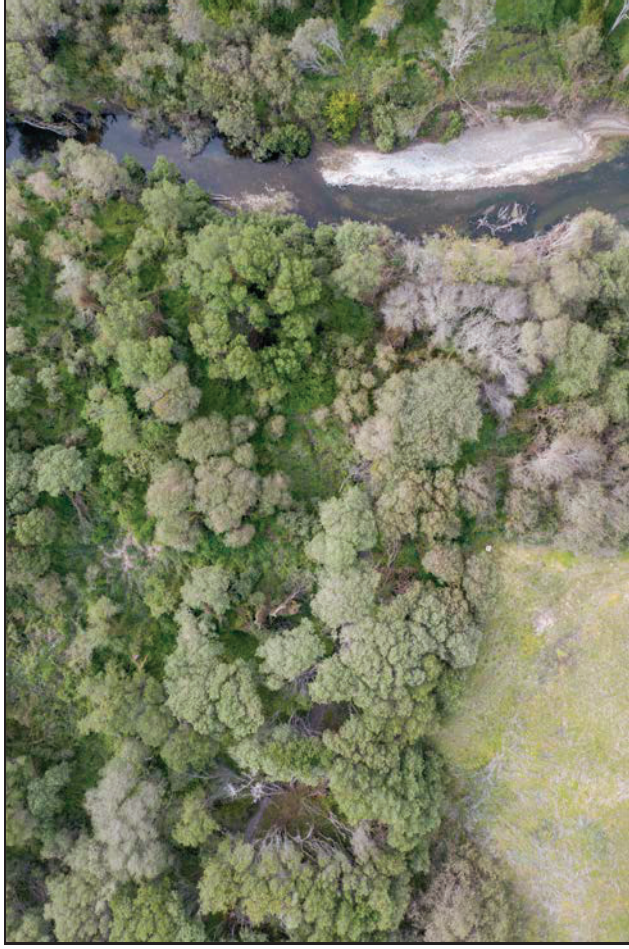


Site 4 Riparian Left



Site 4 Riparian Right

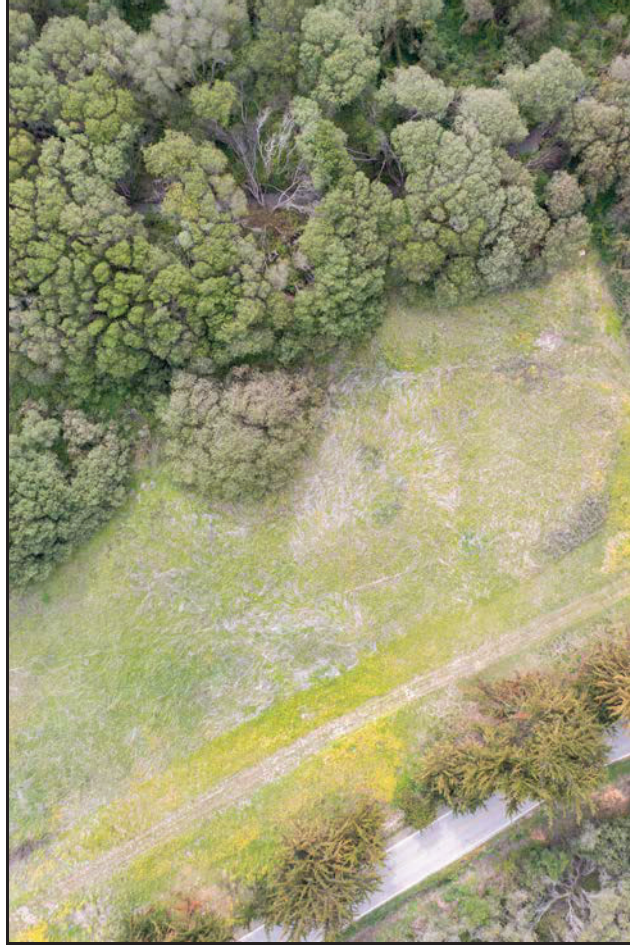
CCSD Monitoring April 11, 2021



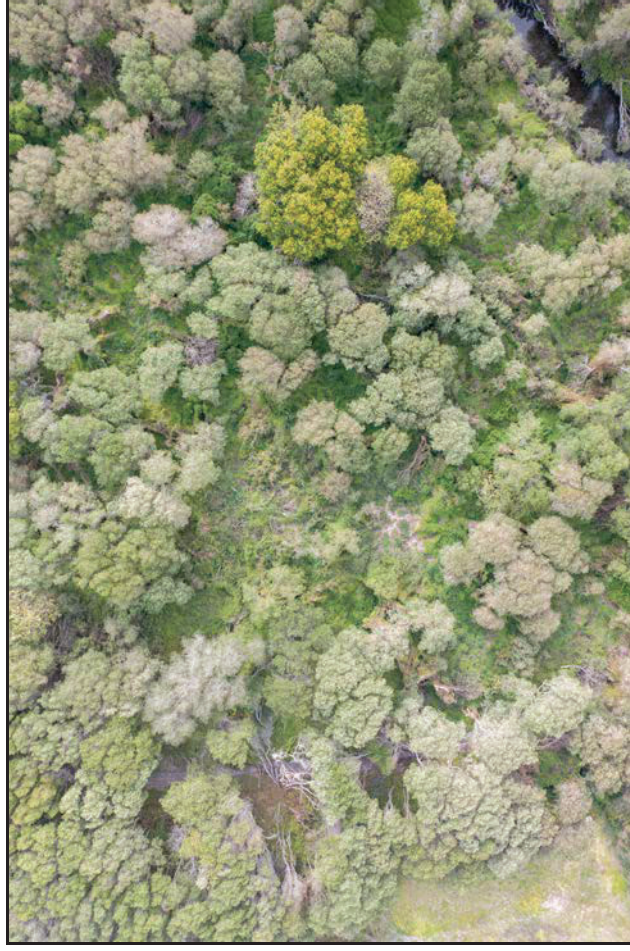
Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring April 11, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

April 25, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 4-25-2021		High Tide: 4:57 ft @9:34 AM	Low Tide: 0:20 ft @ 3:31 AM		Sandbar Breached: No		Stage (718): 2.05
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	12:02 PM	10:55 AM	10:38 AM	10:22 AM	10:05	9:55 AM	9:42 AM
Weather (°F, Cloud cover)	56, cloudy	54, cloudy	52, cloudy	52, cloudy	52, cloudy	52, cloudy	52, cloudy
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	50	0	0	0	0
Algae Subsurface (%)	100	0	75	75	75	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	6.3	10.6	16.3	23.5	12.9	20	14.6
Riparian Moisture-Lt Bank (%)	16.9-	15.2	8.4	24.5	17.9	18.8	13.5
Hydrology							
Maximum depth (ft)	0.45	dry	0.25	0.6	2.2	dry	dry
Wetted width (ft)	10.5	dry	6.5	7.5	31	dry	dry
Flow = Area x Rate (cfs)	0.2	dry	0.1	0.7	4.3	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	0.25	dry	0.25	0.5	1.6	dry	dry
Depth 2 @ 1/2 (ft)	0.4	dry	0.1	0.55	1.9	dry	dry
Depth 3 @ 3/4 (ft)	0.3	dry	0.05	0.25	2.1	dry	dry
Average Depth = total/4 (ft)	0.2	dry	0.1	0.3	1.4	dry	dry
Area = Width x Avg Depth (ft^2)	2.5	dry	0.7	2.4	43.4	dry	dry
Rate from meter (ft/sec)	0.1	dry	0.1	0.3	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	60.6	dry	58.5	56.9	56.9	dry	dry
Dissolved Oxygen (%)	74.3	dry	29	48.2	48.2	dry	dry
Dissolved Oxygen (ppm)	7.34	dry	2.94	4.96	4.96	dry	dry
Total Dissolved Solids (mg/L)	262	dry	205	854	854	dry	dry
Salinity (ppt)	0.19	dry	0.15	0.66	0.66	dry	dry
Water Gauge							
Water Level (ft)				2.86	1.94		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	A small number of stickleback observed throughout. One Steelhead trout, approx. 24 inches, seen in pool above Site 2 (same place smaller trout were seen last year). Pool is approx 10 x 60 ft, 3.5 max depth, temp 57.2 F, dissolved oxygen 3.37 ppm. Possible steelhead fry seen near Site 5.						
Comments	New Water level gauges installed at Sites 4 and 5. Water flow intermittent above Site 4. At Site 3 there was a strong raw sewage odor.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	11.8						
East (%)	8.1						
South (%)	11.4						
West (%)	8.8						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring April 25, 2021



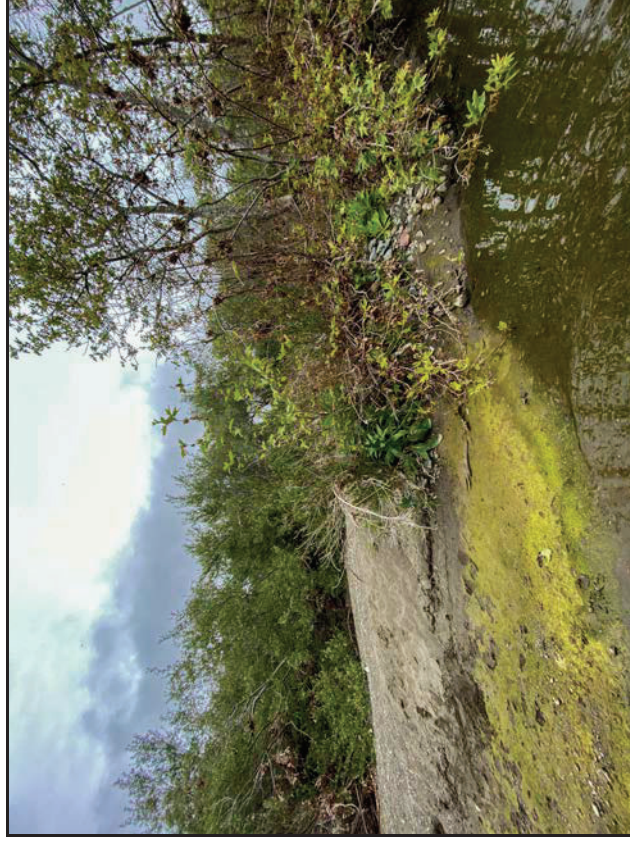
Site 1



Site 1



Site 1



Site 1

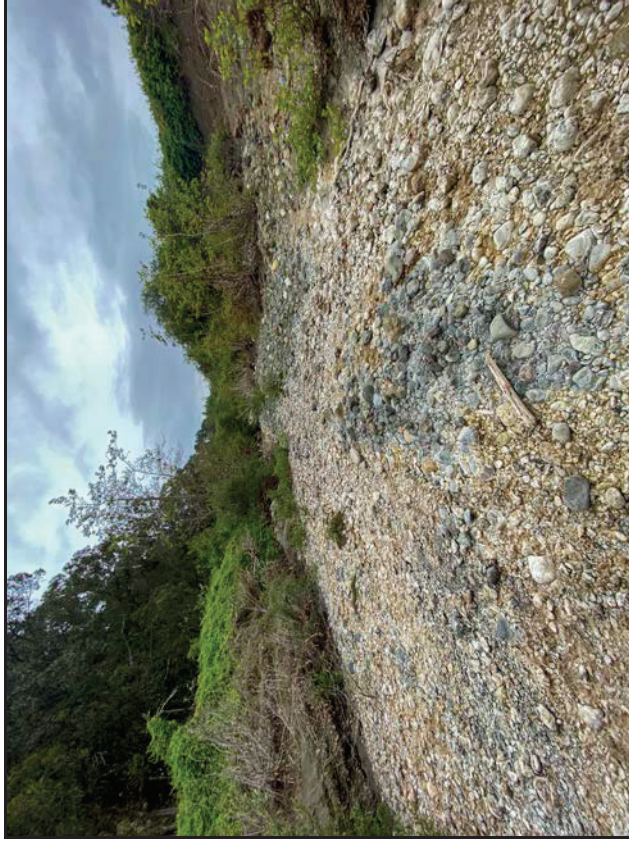
CCSD Monitoring April 25, 2021



Site 2



Site 2

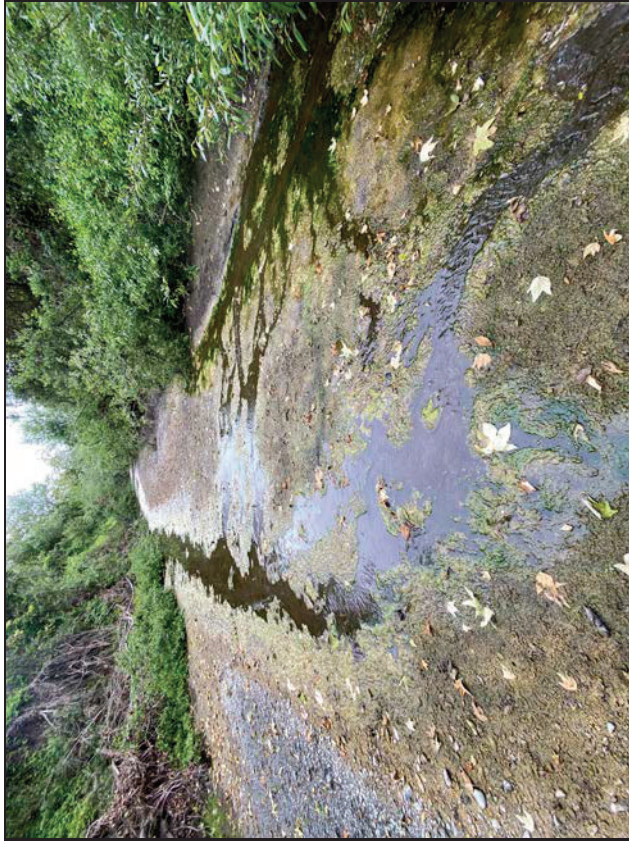


Site 2



Site 2

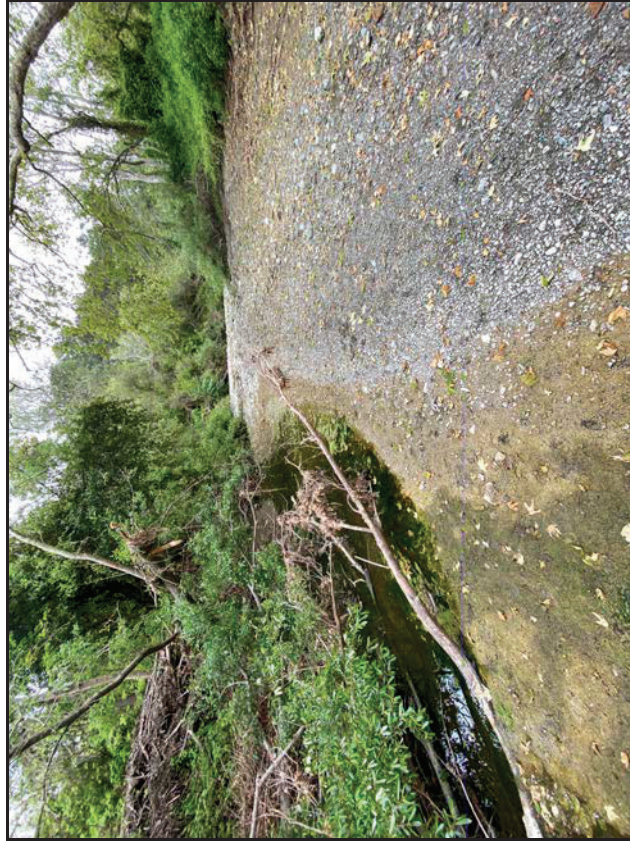
CCSD Monitoring April 25, 2021



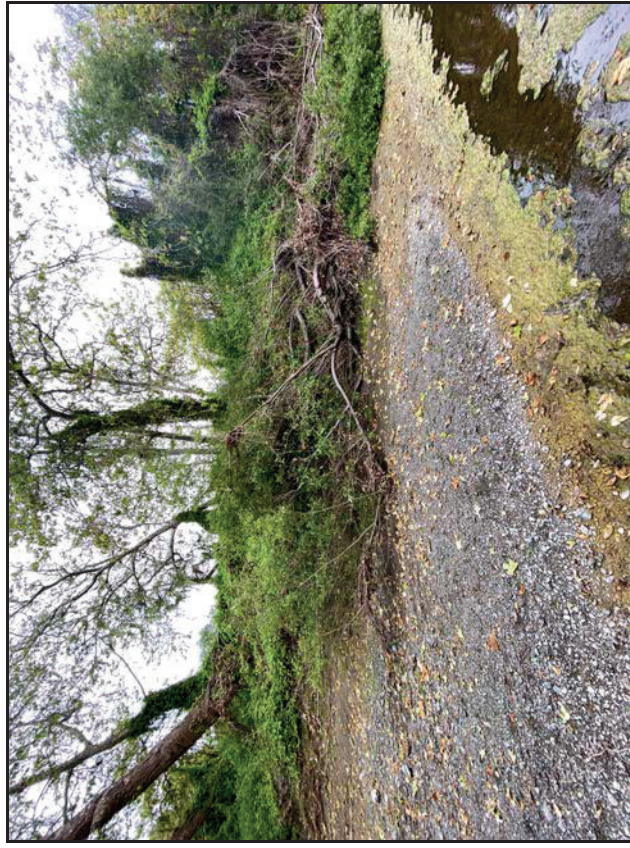
Site 3



Site 3



Site 3



Site 3

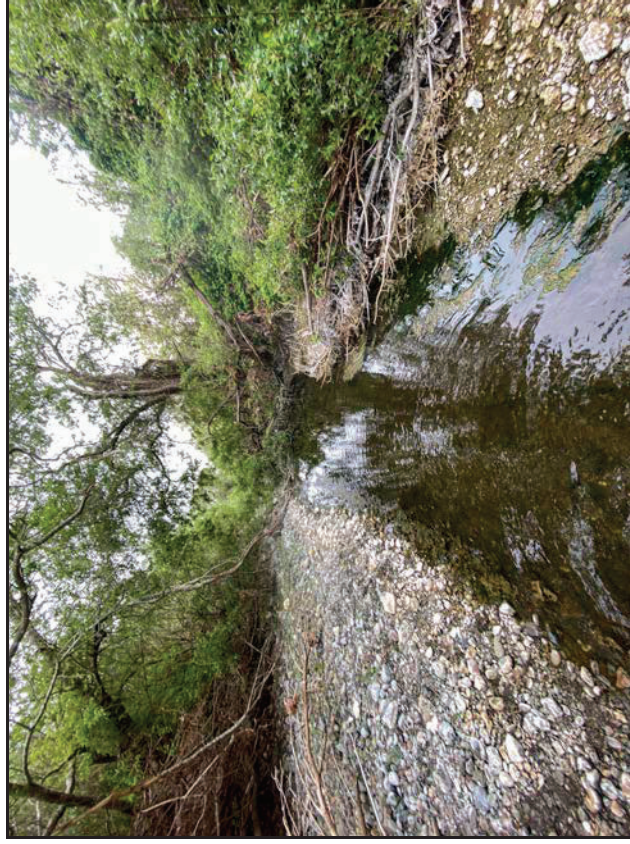
CCSD Monitoring April 25, 2021



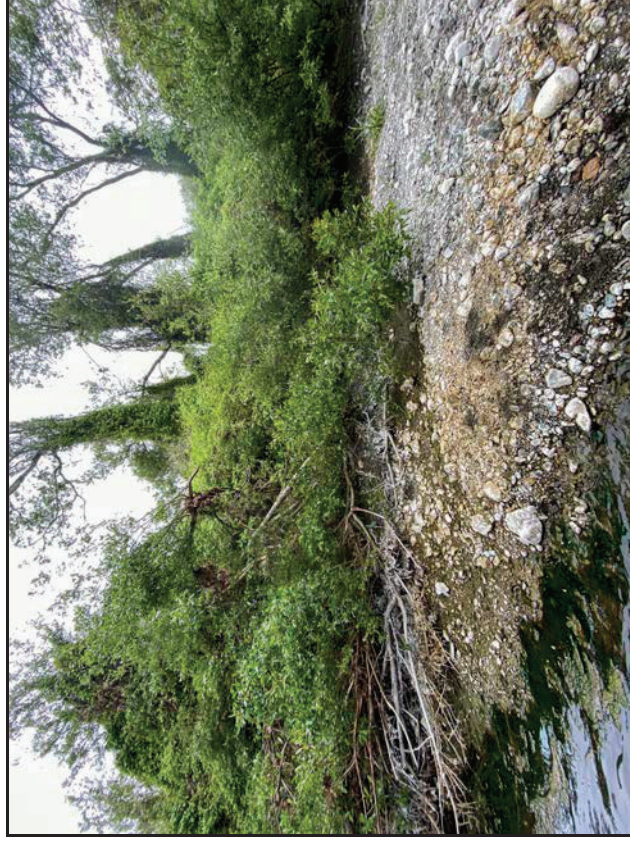
Site 4



Site 4



Site 4



Site 4

CCSD Monitoring April 25, 2021



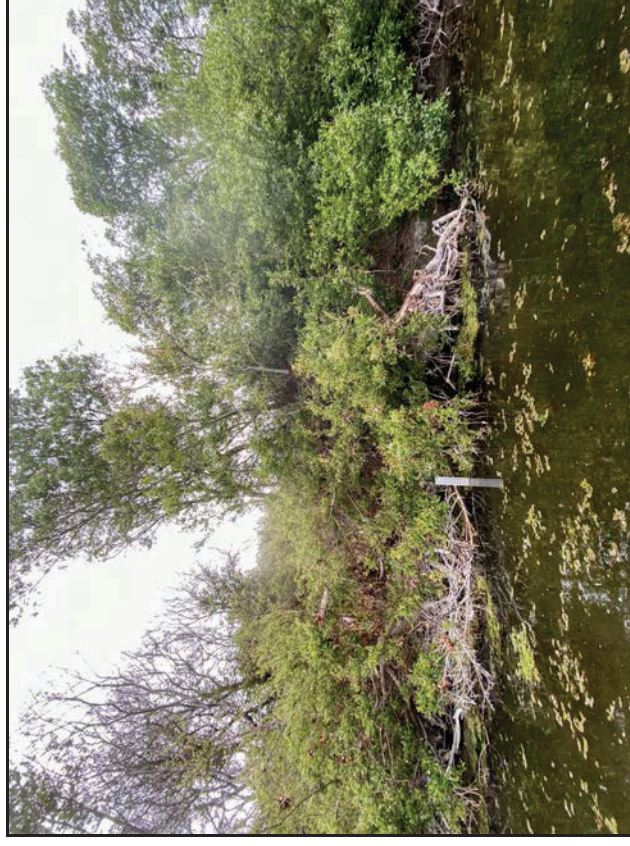
Site 5



Site 5



Site 5



Site 5

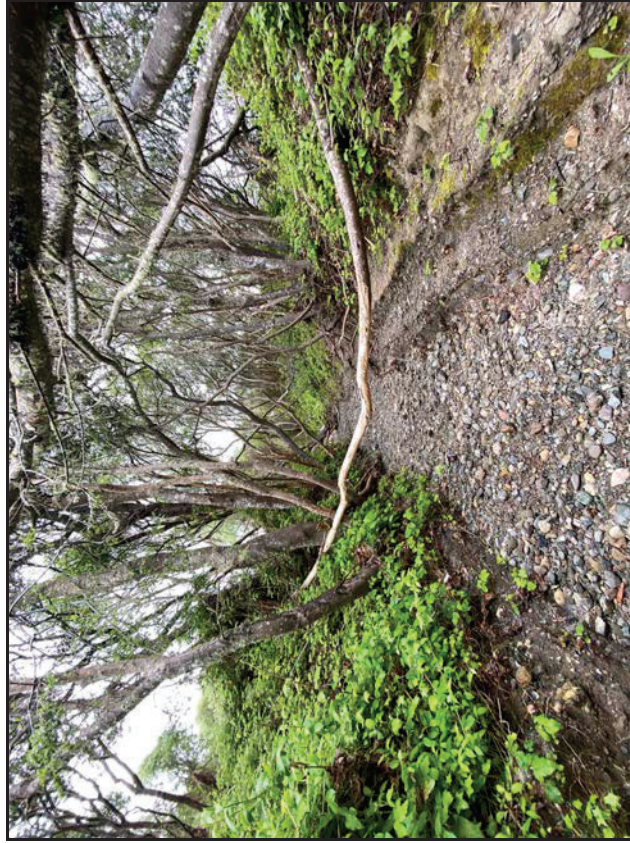
CCSD Monitoring April 25, 2021



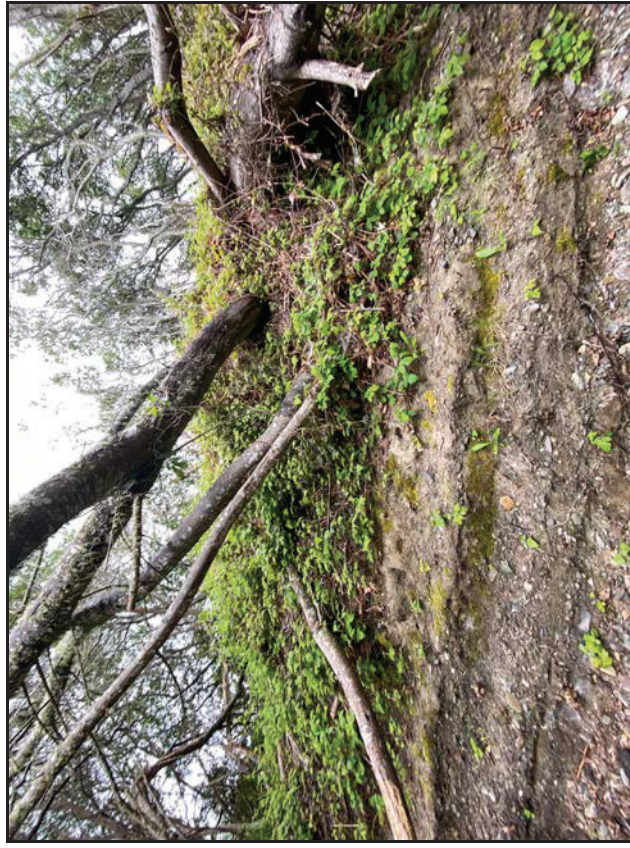
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring April 25, 2021



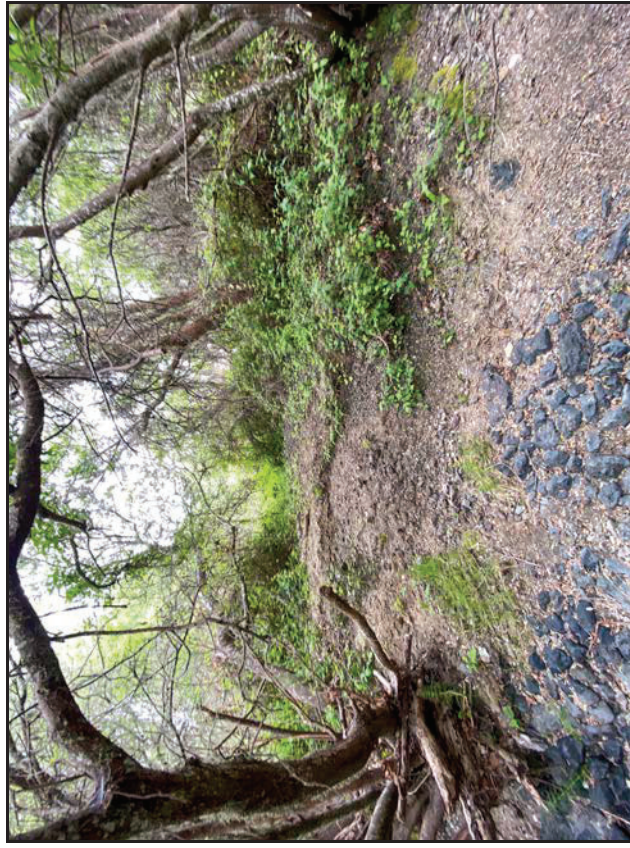
Site 8



Site 8



Site 8

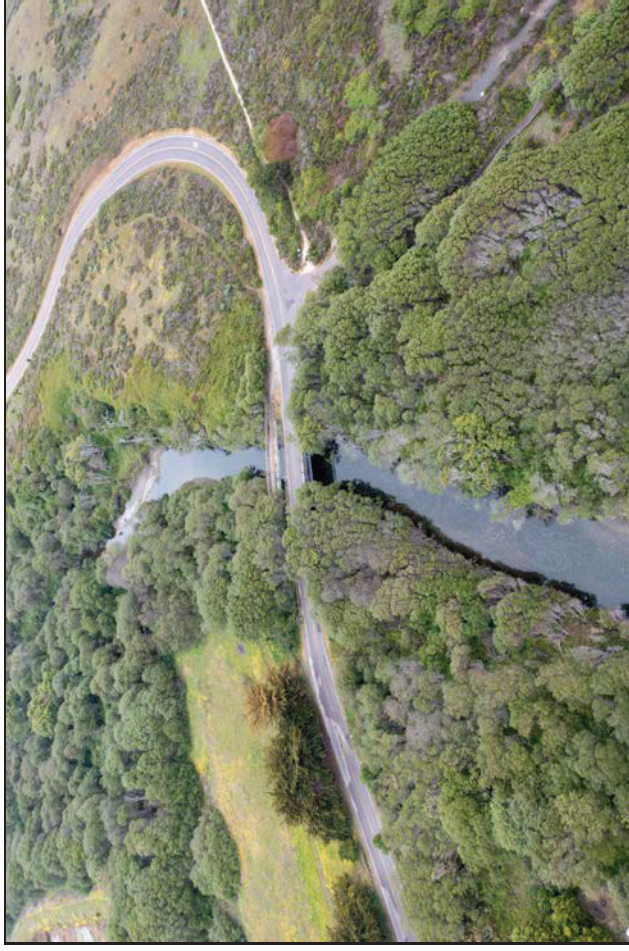


Site 8

CCSD Monitoring April 25, 2021



9P7 Well

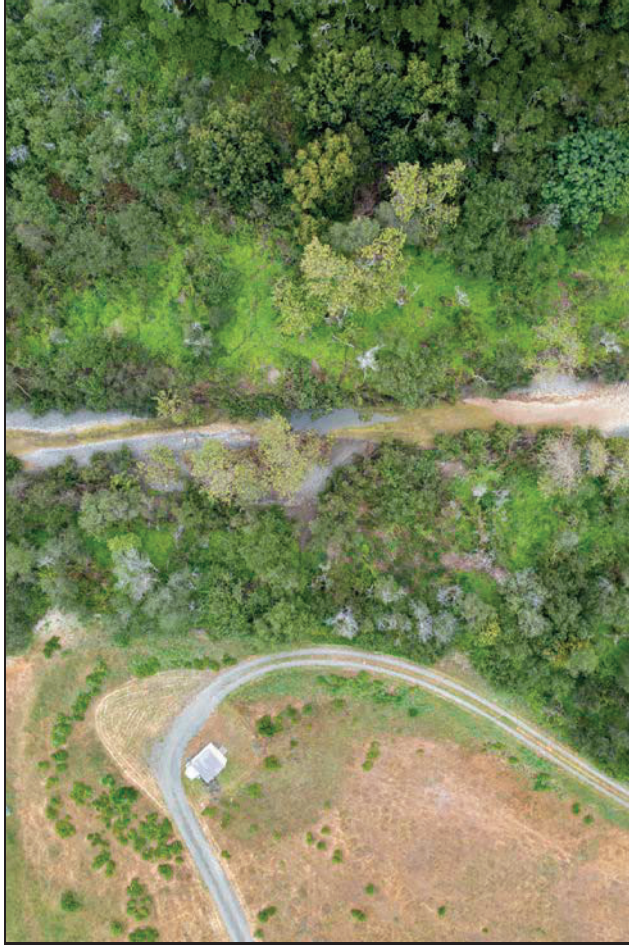


Walking Bridge PS-1



Estuary PS-2

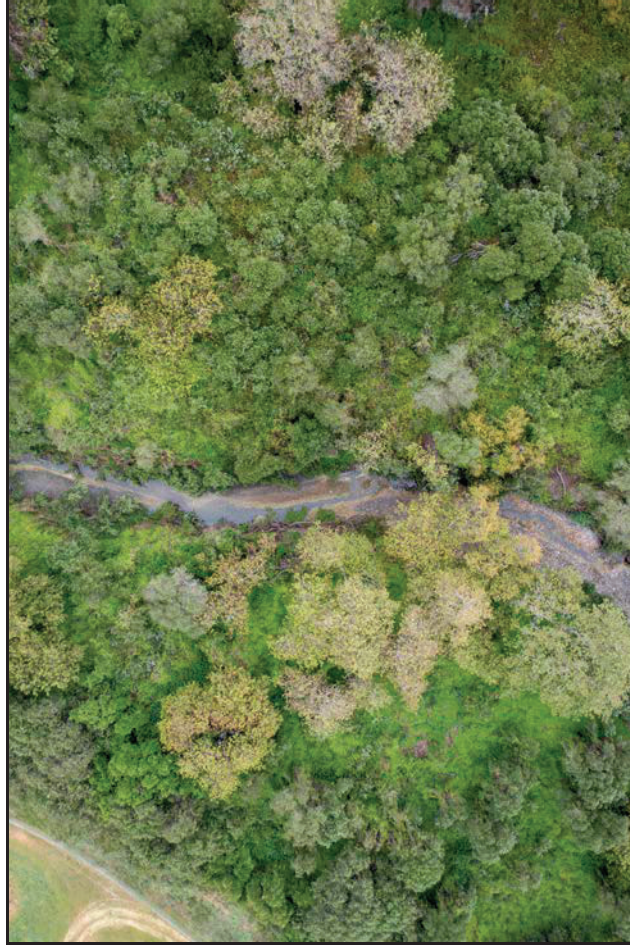
CCSD Monitoring April 25, 2021



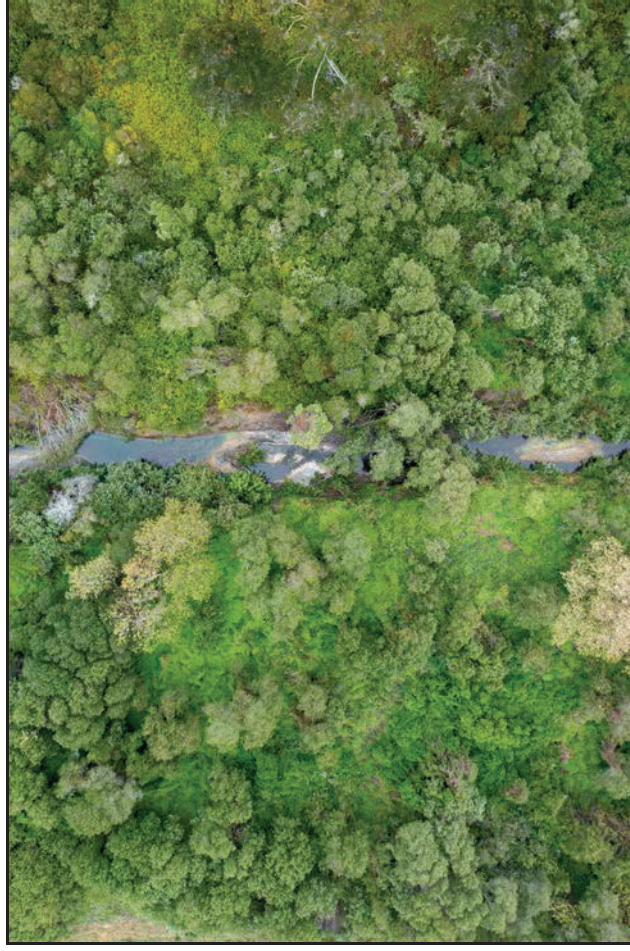
Site 1 Aerial



Site 2 Aerial



Site 3 Aerial

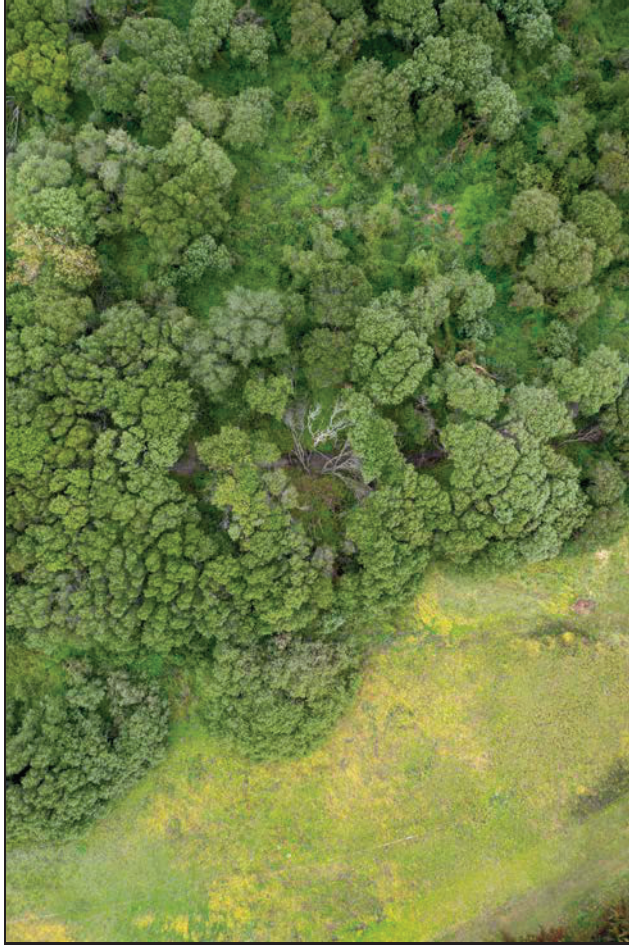


Site 4 Aerial

CCSD Monitoring April 25, 2021



Site 5 Aerial

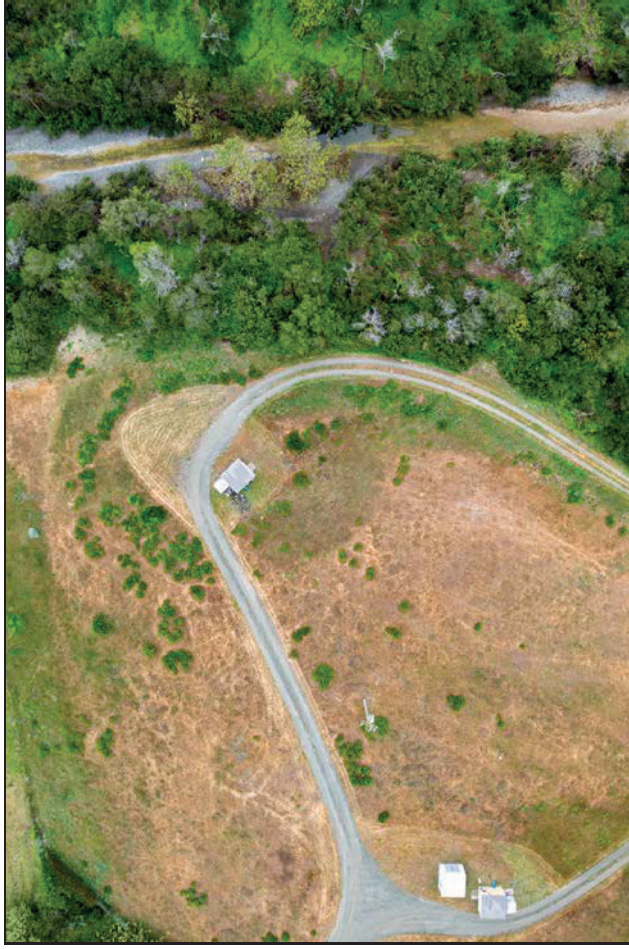


Site 7 Aerial



Site 8 Aerial

CCSD Monitoring April 25, 2021



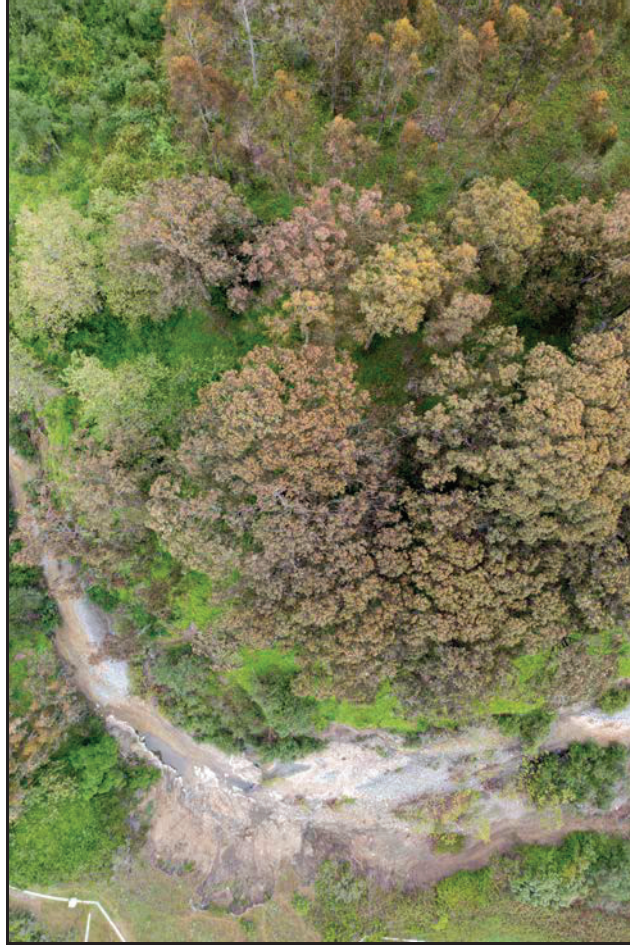
Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

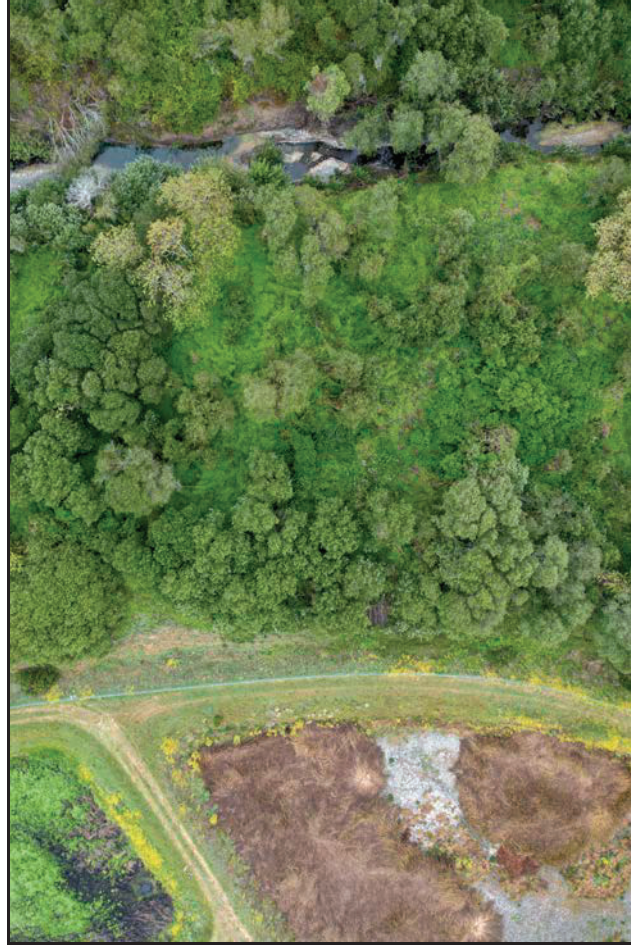
CCSD Monitoring April 25, 2021



Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left



Site 4 Riparian Right

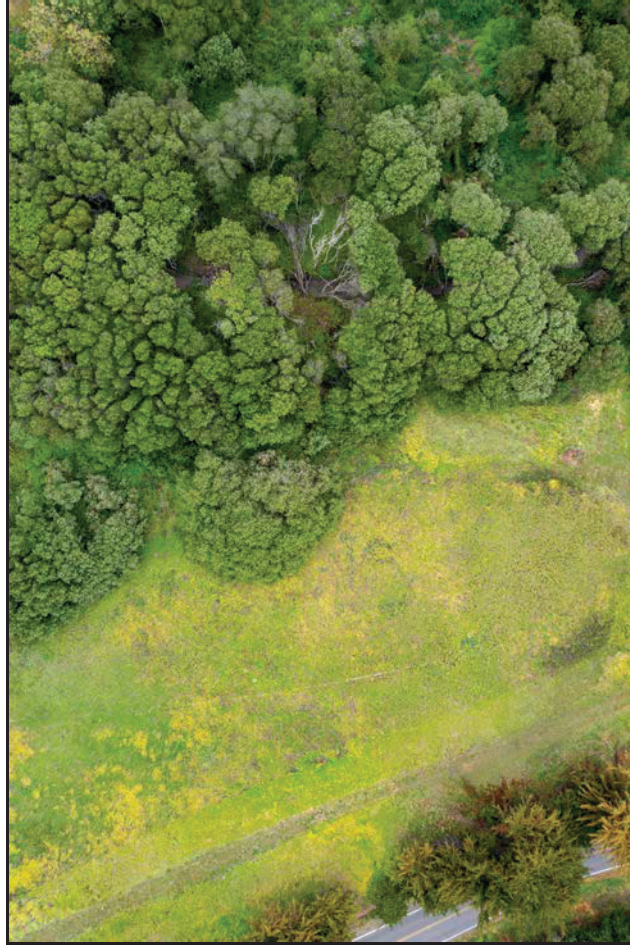
CCSD Monitoring April 25, 2021



Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring April 25, 2021



Site 8 Riparian Left & Right



Site 4 Guage



Site 5 Guage

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by

Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

May 9, 2021

Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 5-9-2021		High Tide: 3.70 ft @ 10:00 AM	Low Tide: 0.27 ft @ 3:57 AM	Sandbar Breached: No	Stage (718): 2.05		
Location	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8
Time	11:41 AM	11:18 AM	10:50 AM	10:37 AM	10:05 AM	9:56 AM	9:48 AM
Weather (°F, Cloud cover)	68, clear	68, clear	66, clear	66, clear	62, clear	60, clear	62, clear
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	50	0	0	0	0
Algae Subsurface (%)	0	0	100	100	75	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	8.7	14.4	19.2	23.5	15.4	16	21.4
Riparian Moisture-Lt Bank (%)	15.2	10.7	9	14.1	12.1	17.6	14
Hydrology							
Maximum depth (ft)	dry	dry	dry	0.5	1.5	dry	dry
Wetted width (ft)	dry	dry	dry	5.6	26.8	dry	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.5	2.6	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.5	1.1	dry	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.4	1.3	dry	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.3	1.5	dry	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.3	1.0	dry	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.7	26.1	dry	dry
Rate from meter (ft/sec)	dry	dry	dry	0.3	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	59.8	60.5	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	64.5	8	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	6.43	4.96	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	506	854	dry	dry
Salinity (ppt)	dry	dry	dry	0.38	0.66	dry	dry
Water Gauge							
Water Level (ft)				2.86	1.36		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	A small number of stickleback observed throughout. Again seen in pool above Site 2, one Steelhead trout, approx. 8-24 inches, (very lethargic). Pool is approx 10 x 60 ft, 3.5 max depth, temp 58.6 F, dissolved oxygen 1.72 ppm.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	9						
East (%)	7.8						
South (%)	5.5						
West (%)	7.6						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring May 9, 2021



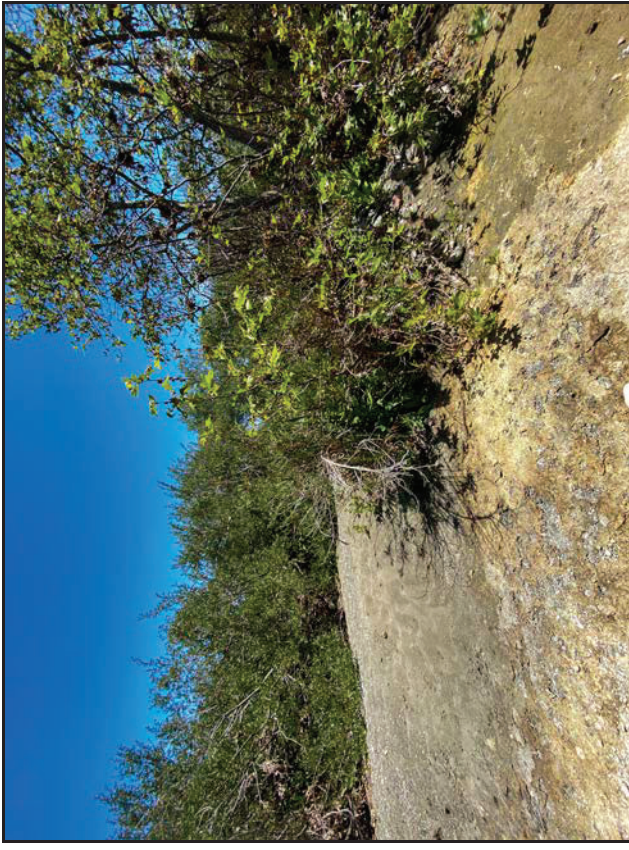
Site 1



Site 1

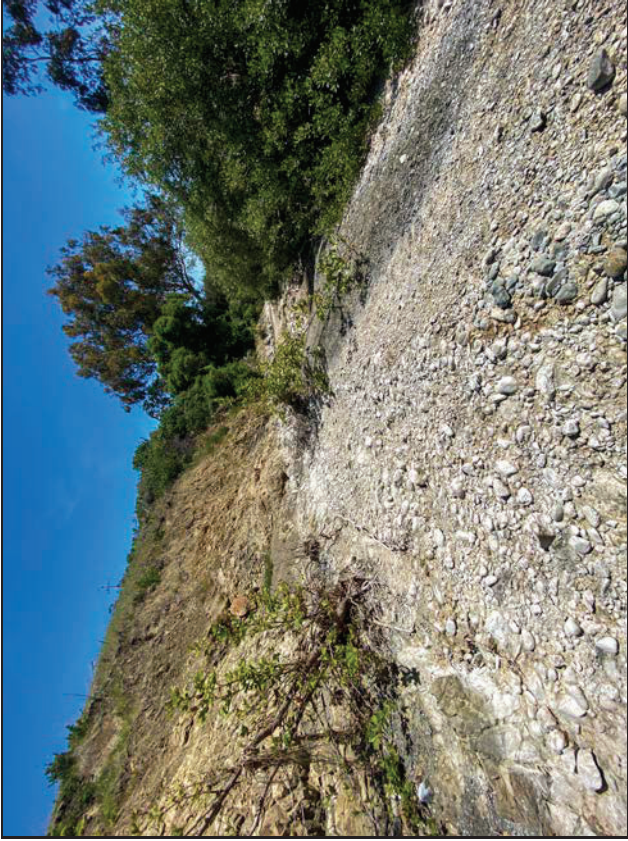


Site 1

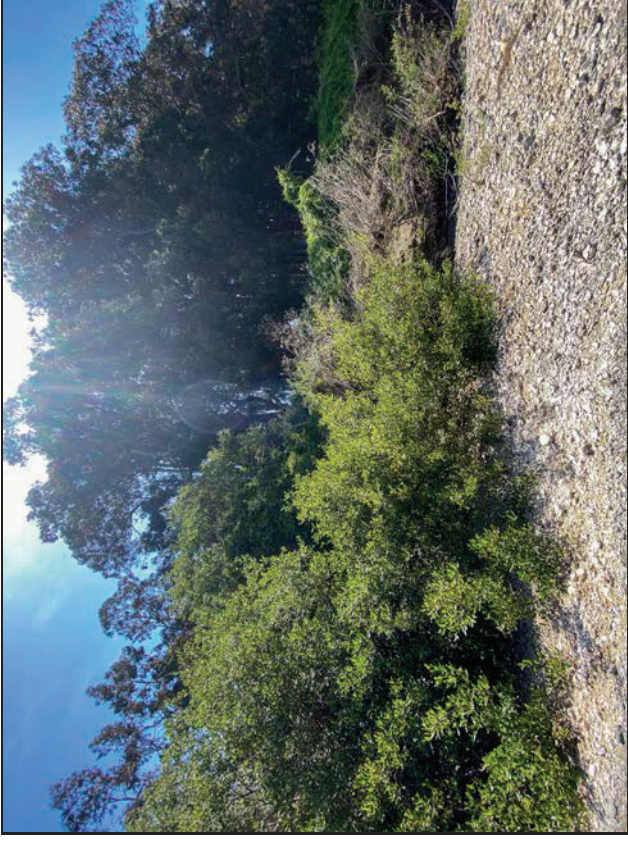


Site 1

CCSD Monitoring May 9, 2021



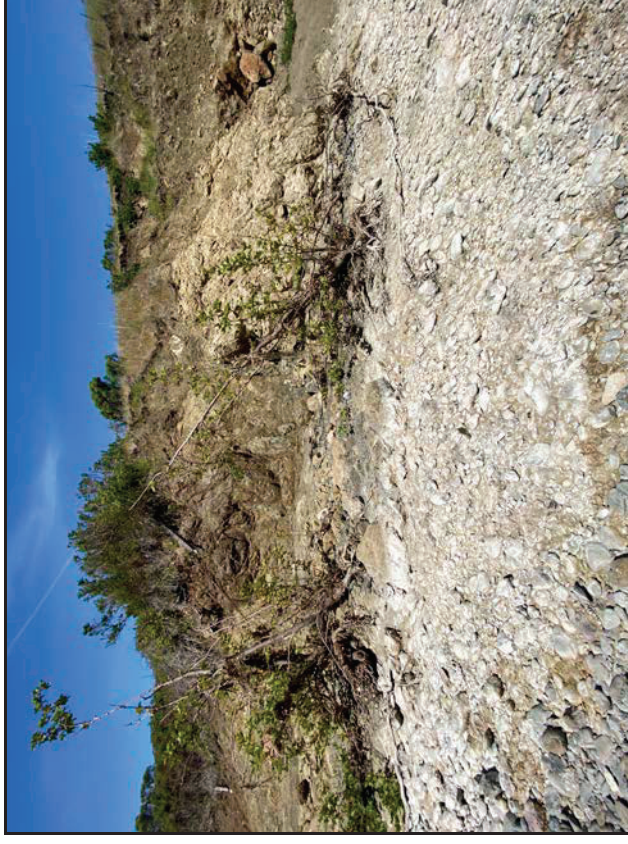
Site 2



Site 2



Site 2



Site 2

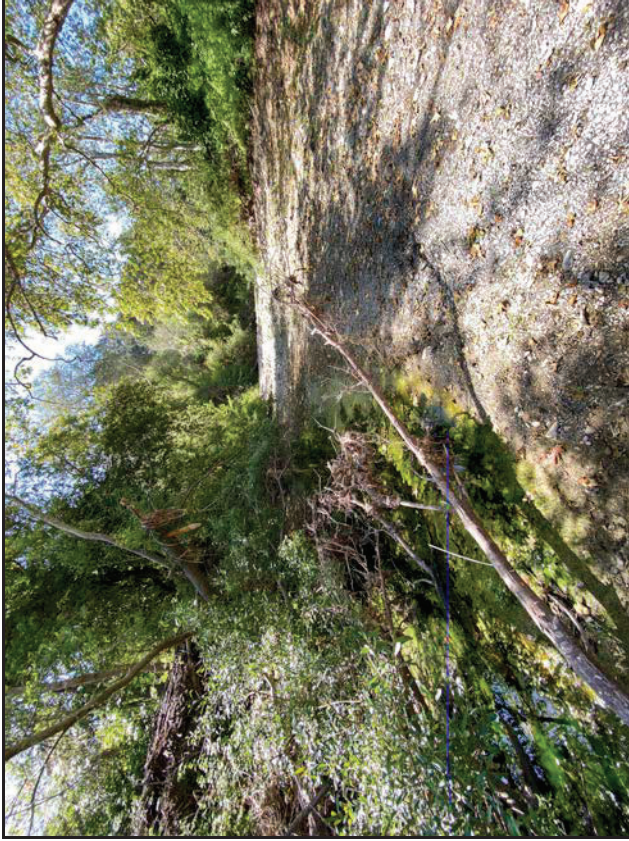
CCSD Monitoring May 9, 2021



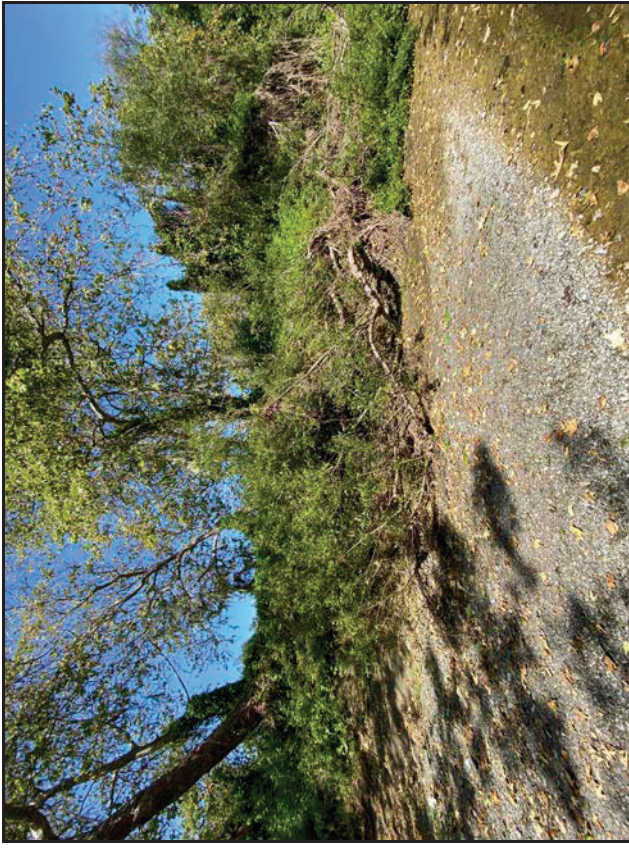
Site 3



Site 3



Site 3

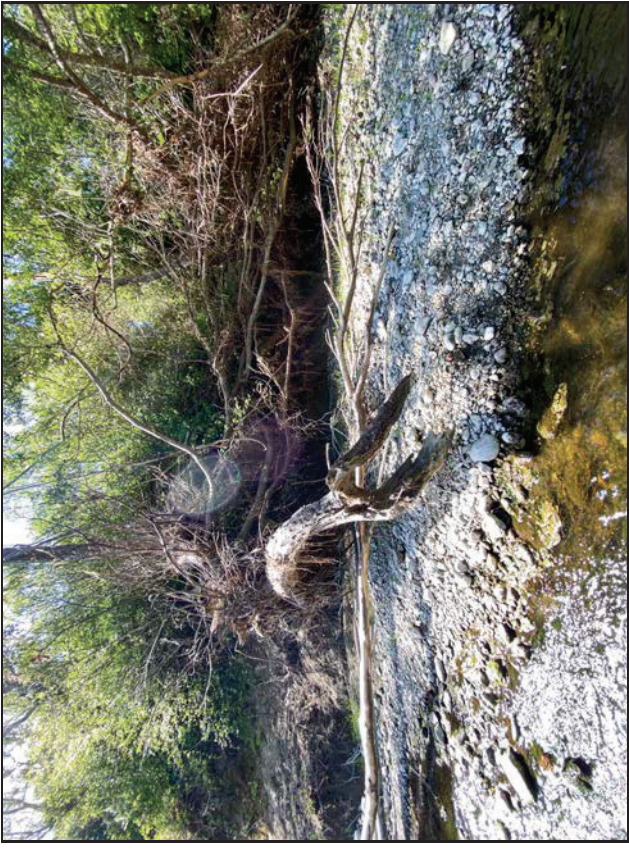


Site 3

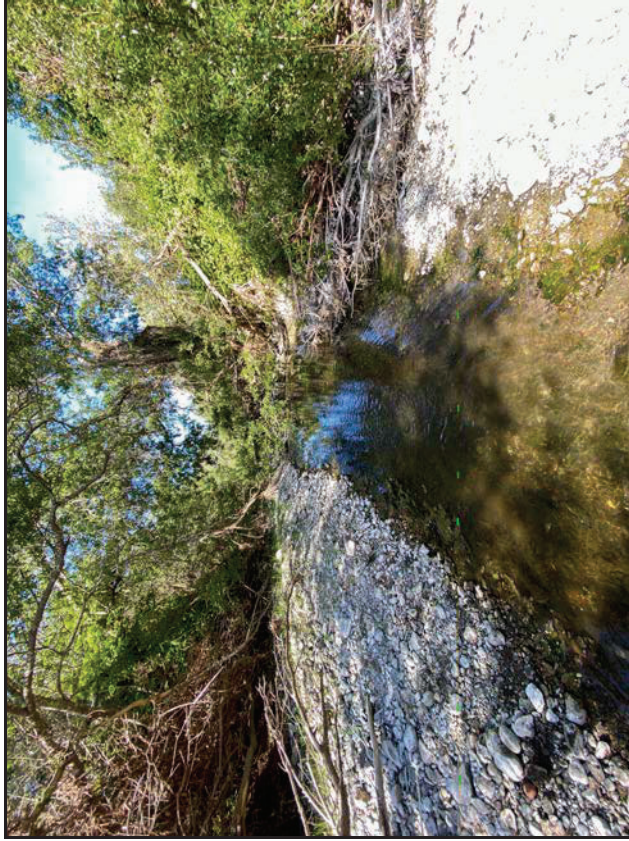
CCSD Monitoring May 9, 2021



Site 4



Site 4



Site 4



Site 4

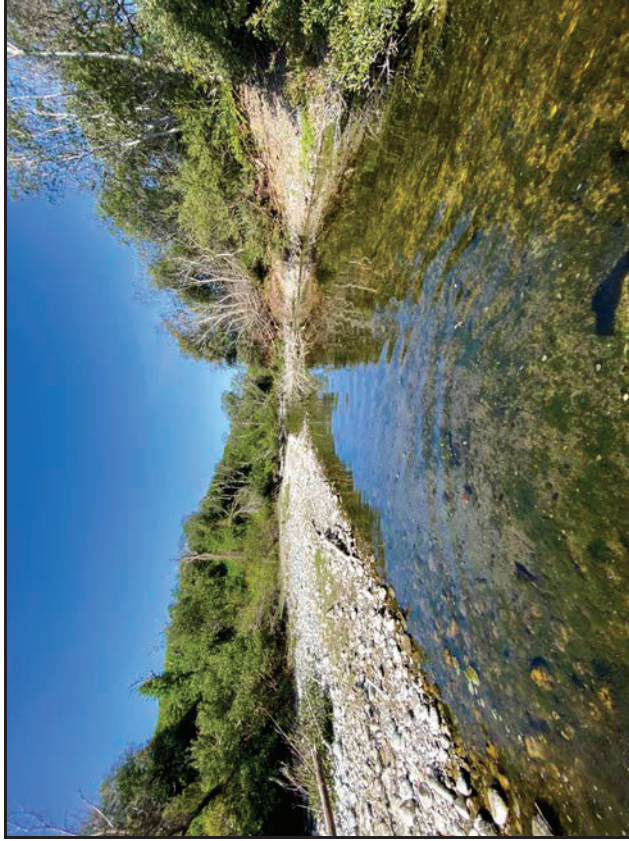
CCSD Monitoring May 9, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring May 9, 2021



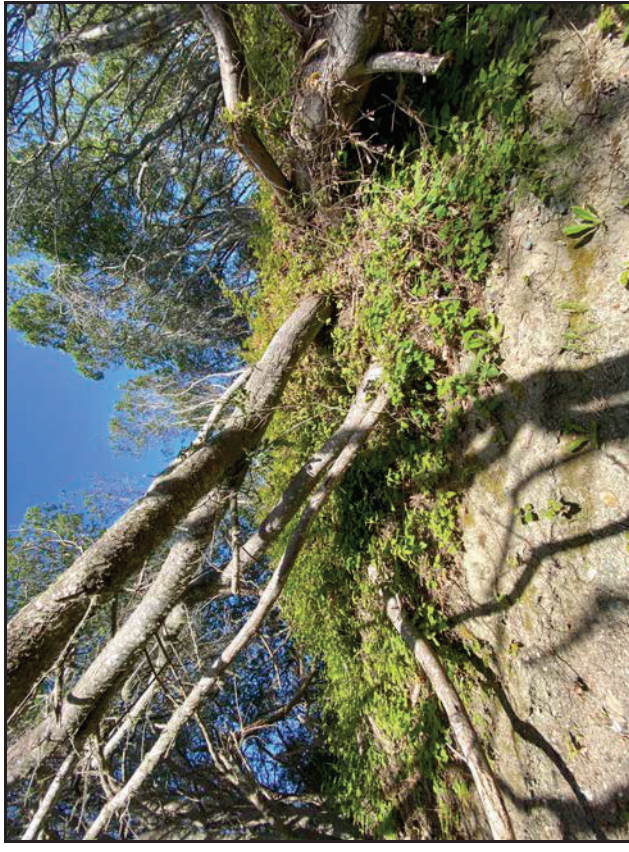
Site 7



Site 7

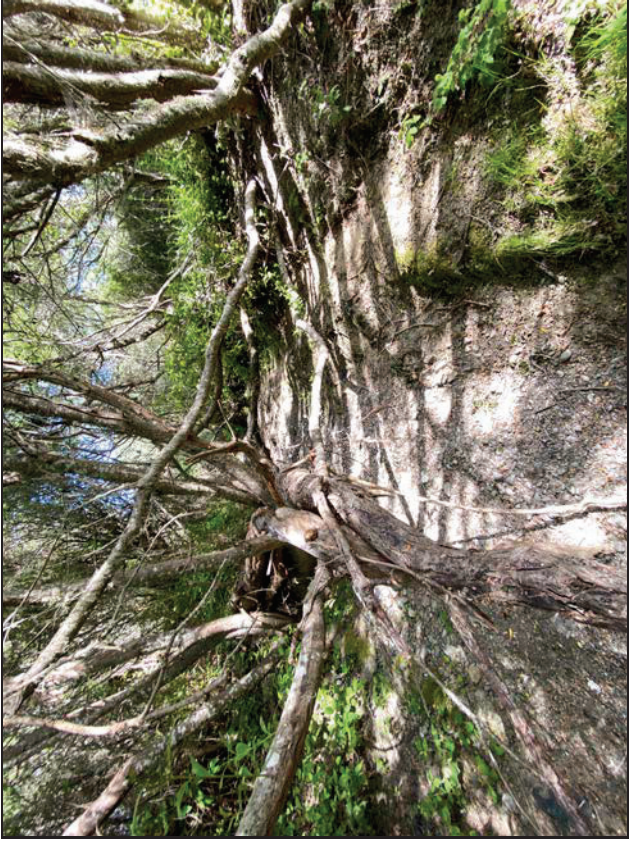


Site 7



Site 7

CCSD Monitoring May 9, 2021



Site 8



Site 8



Site 8

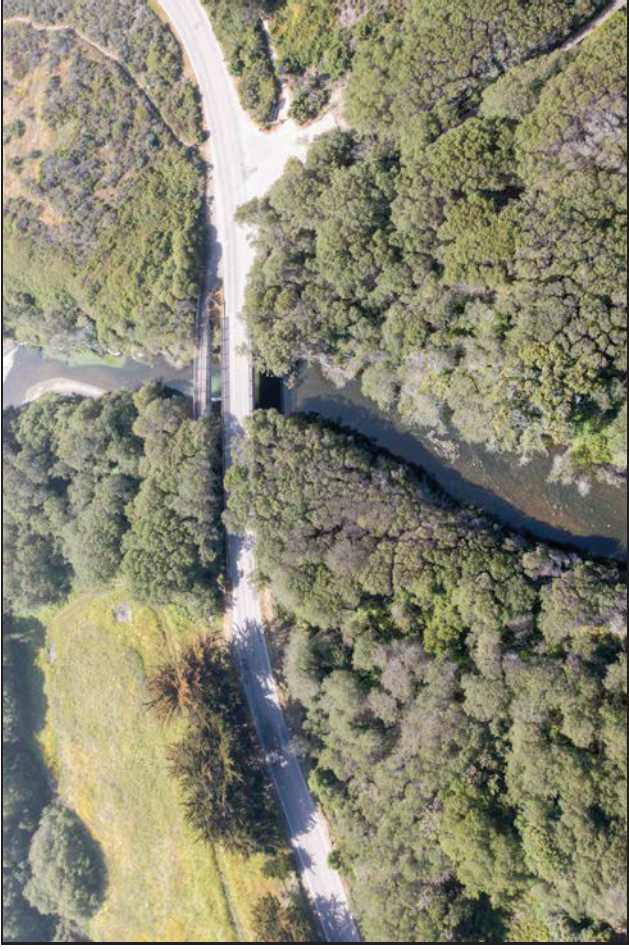


Site 8

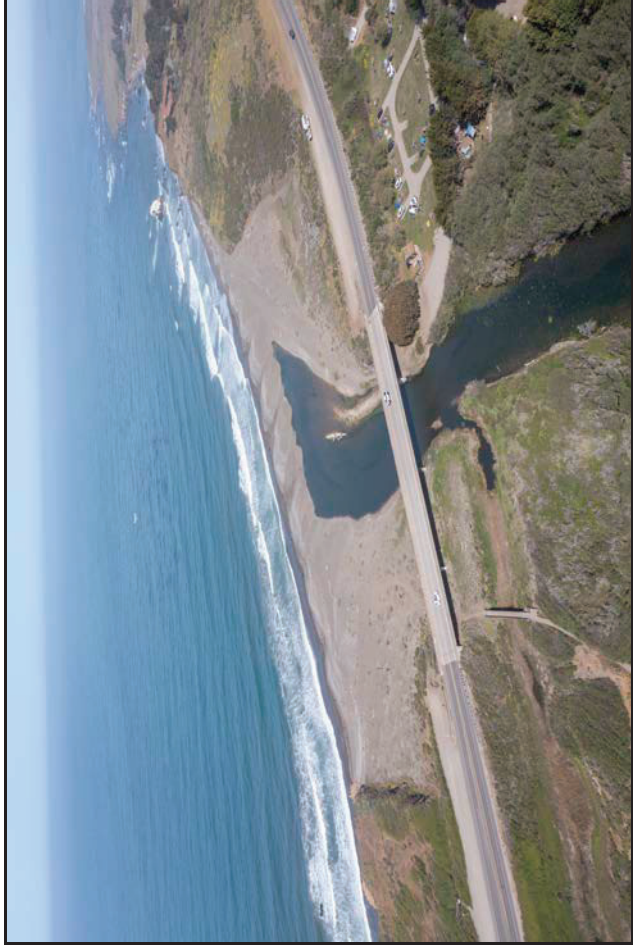
CCSD Monitoring May 9, 2021



9P7 Well



Walking Bridge PS-1



Estuary PS-2

CCSD Monitoring May 9, 2021

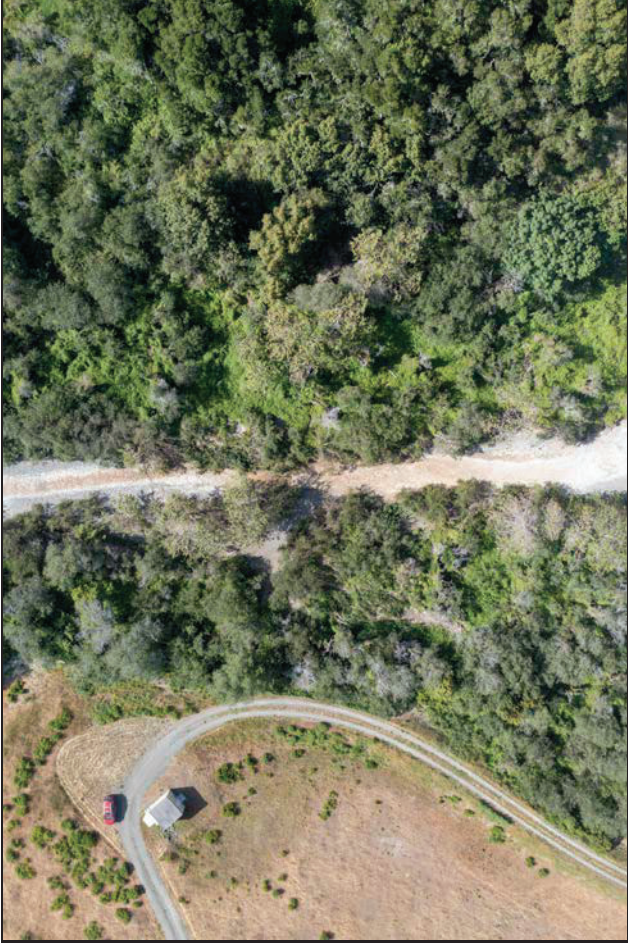


Site 4 Guage



Site 5 Guage

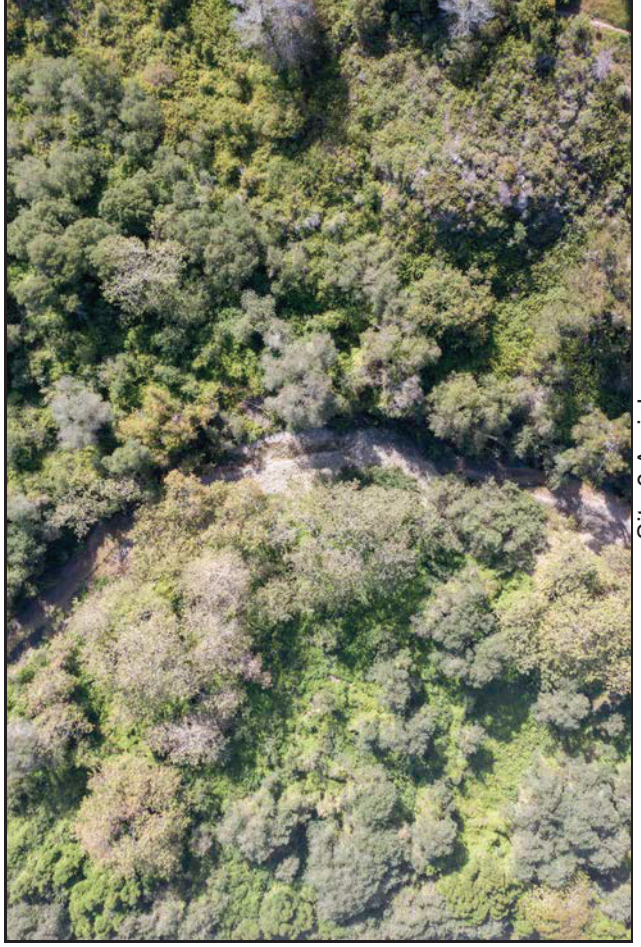
CCSD Monitoring May 9, 2021



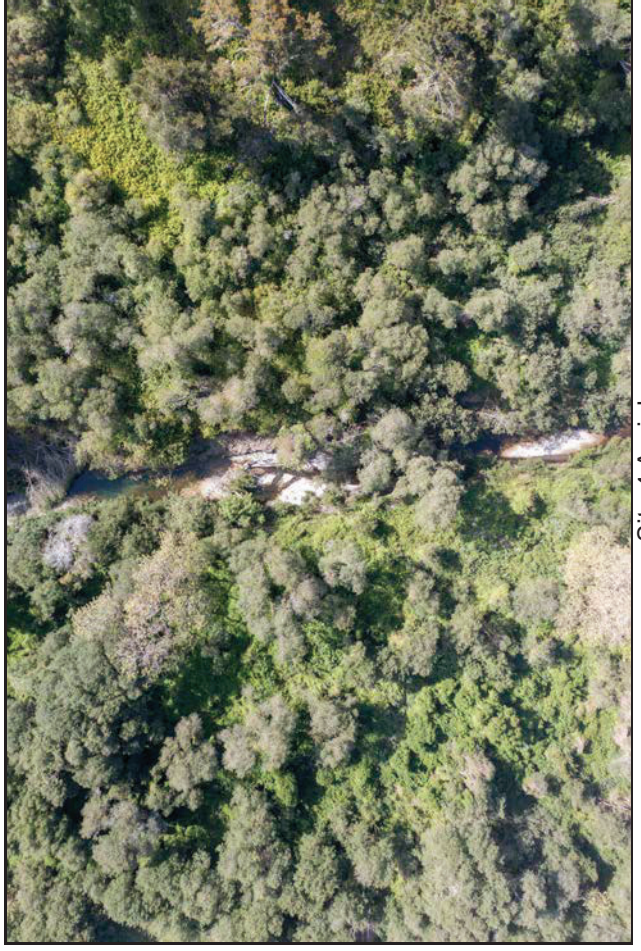
Site 1 Aerial



Site 2 Aerial

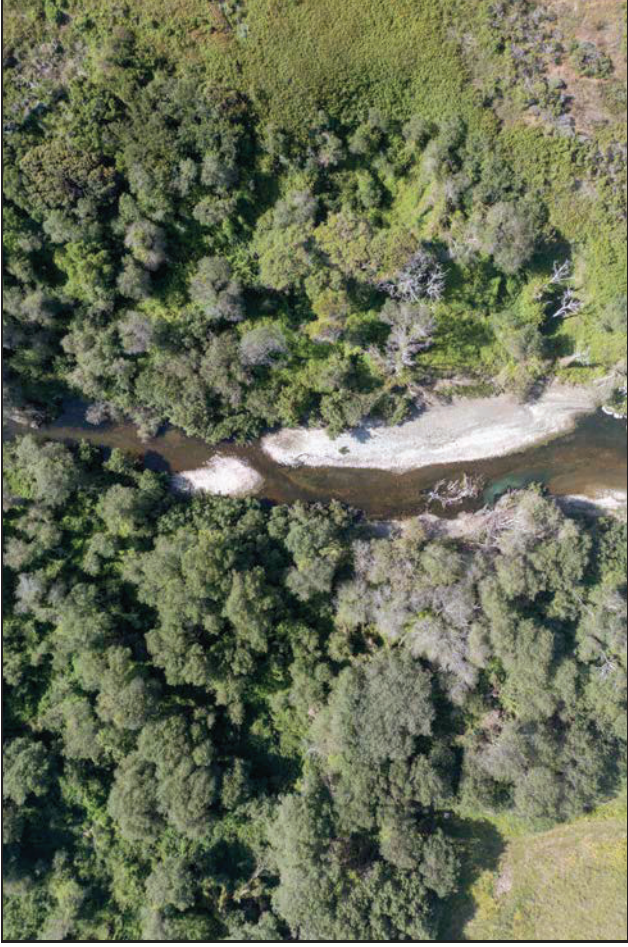


Site 3 Aerial



Site 4 Aerial

CCSD Monitoring May 9, 2021



Site 5 Aerial

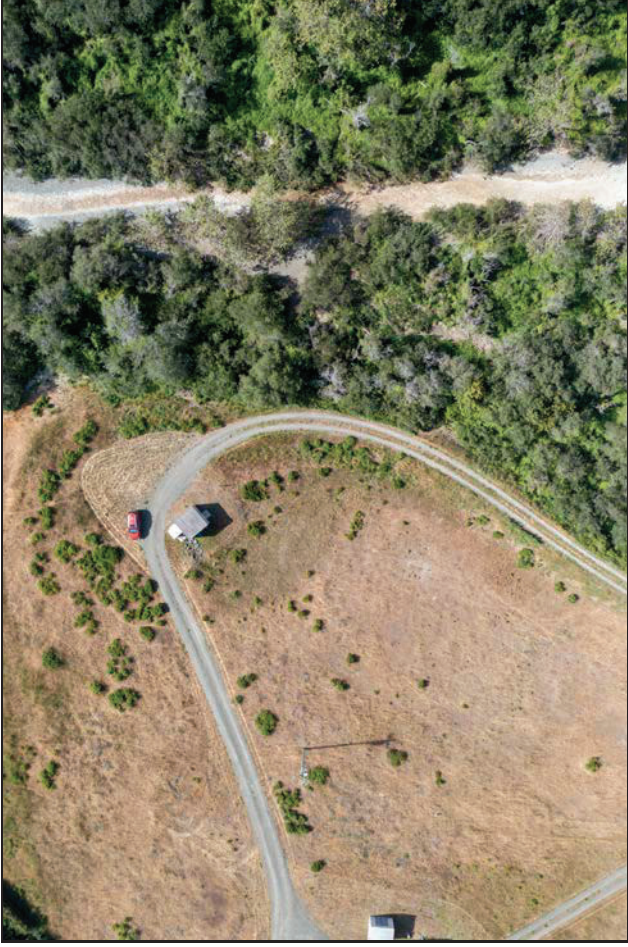


Site 7 Aerial

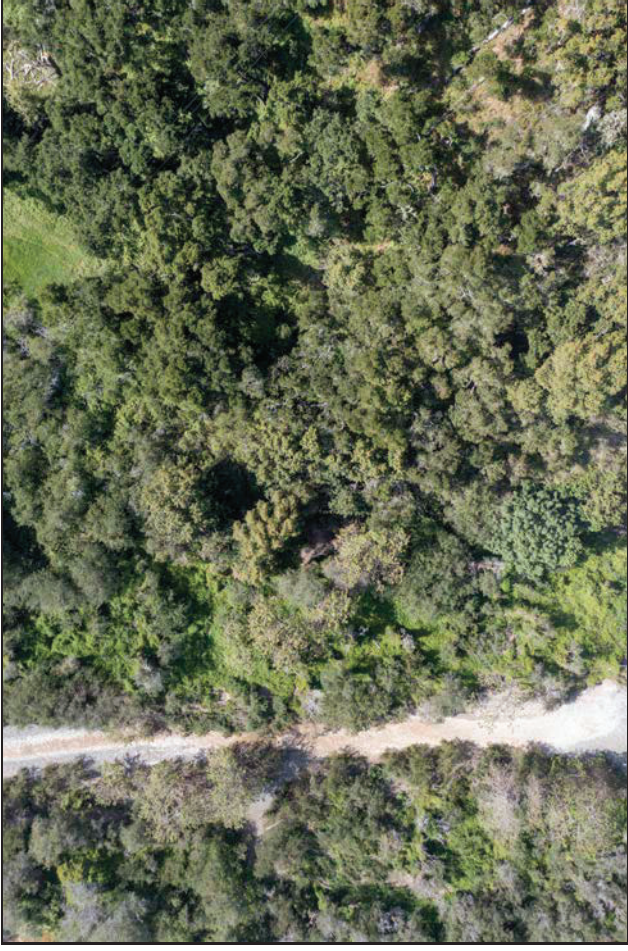


Site 8 Aerial

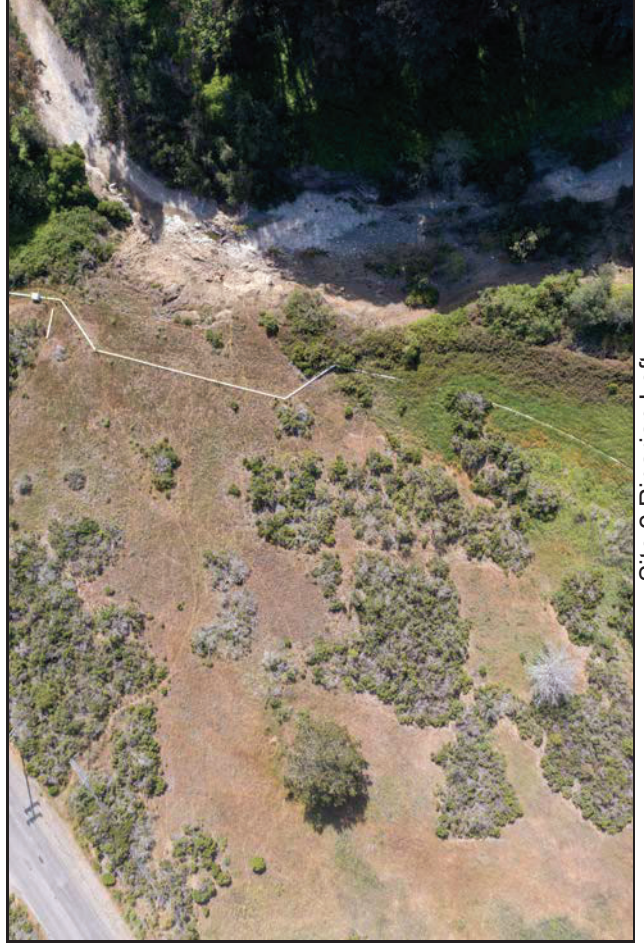
CCSD Monitoring May 9, 2021



Site 1 Riparian Left



Site 1 Riparian Right

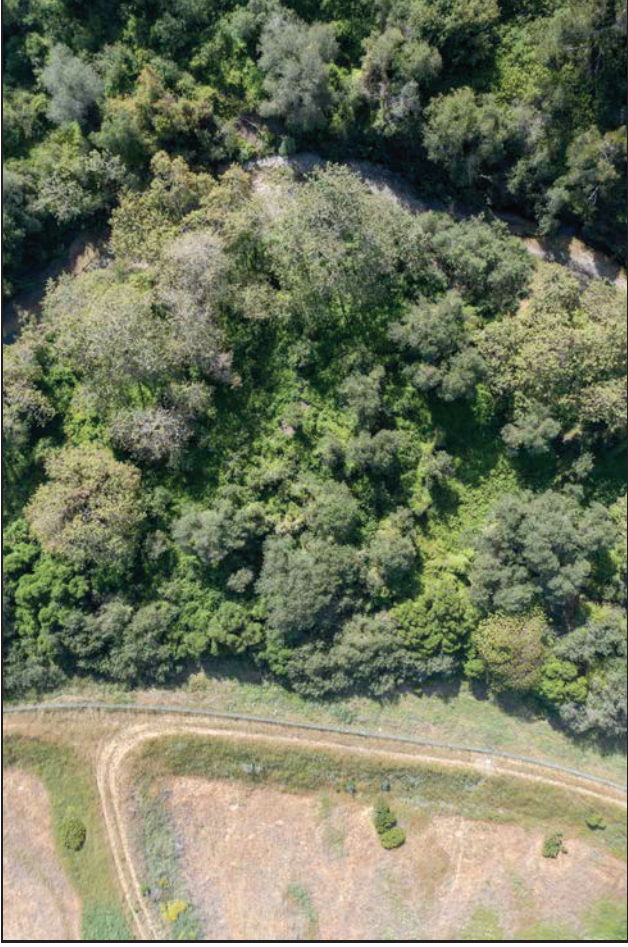


Site 2 Riparian Left



Site 2 Riparian Right

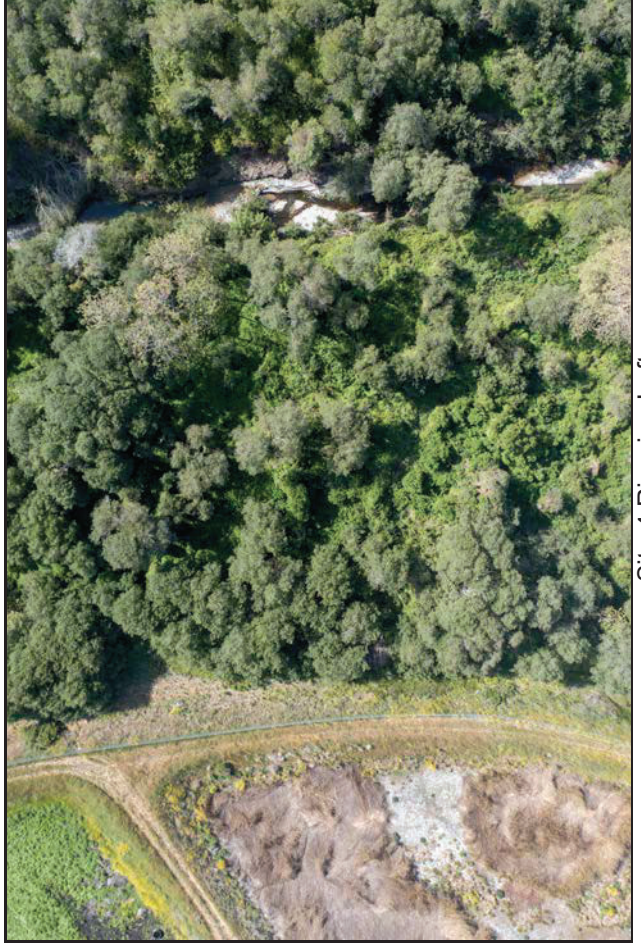
CCSD Monitoring May 9, 2021



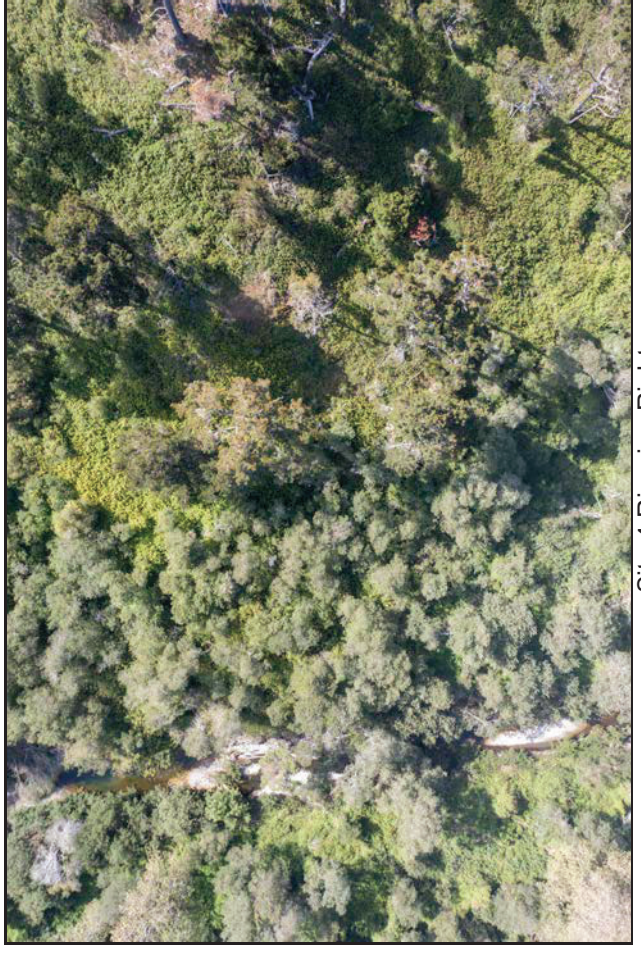
Site 3 Riparian Left



Site 3 Riparian Right

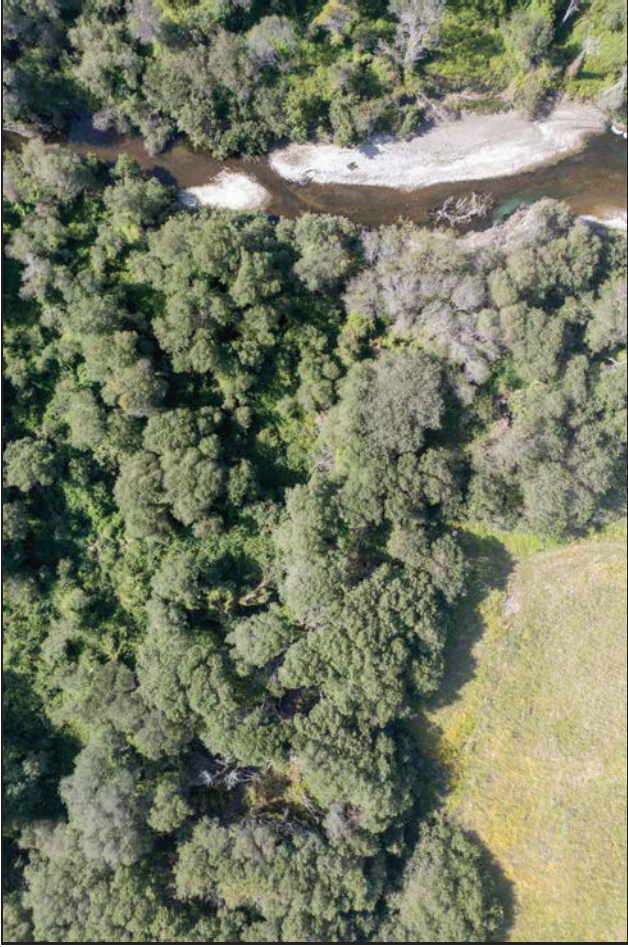


Site 4 Riparian Left

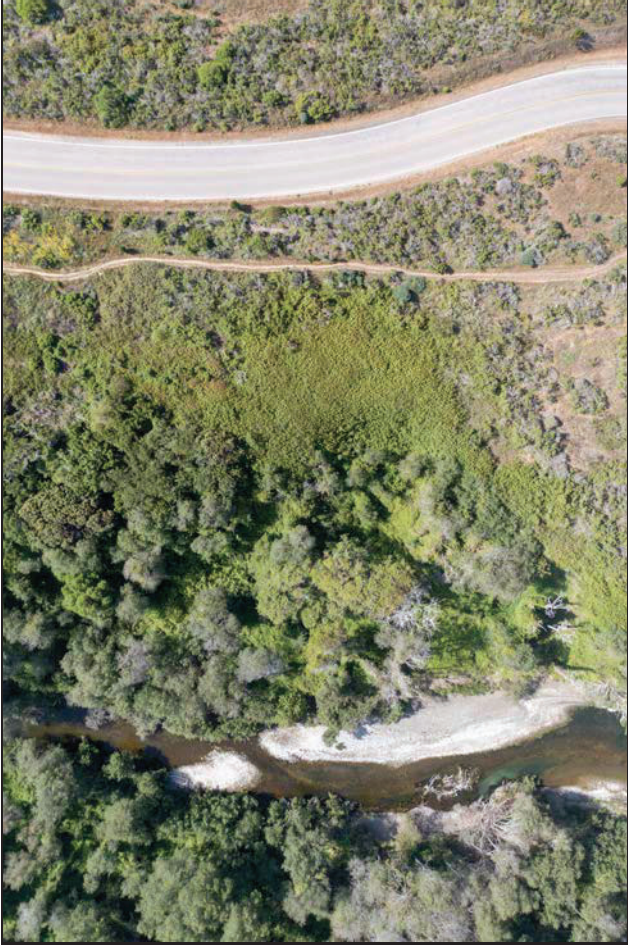


Site 4 Riparian Right

CCSD Monitoring May 9, 2021



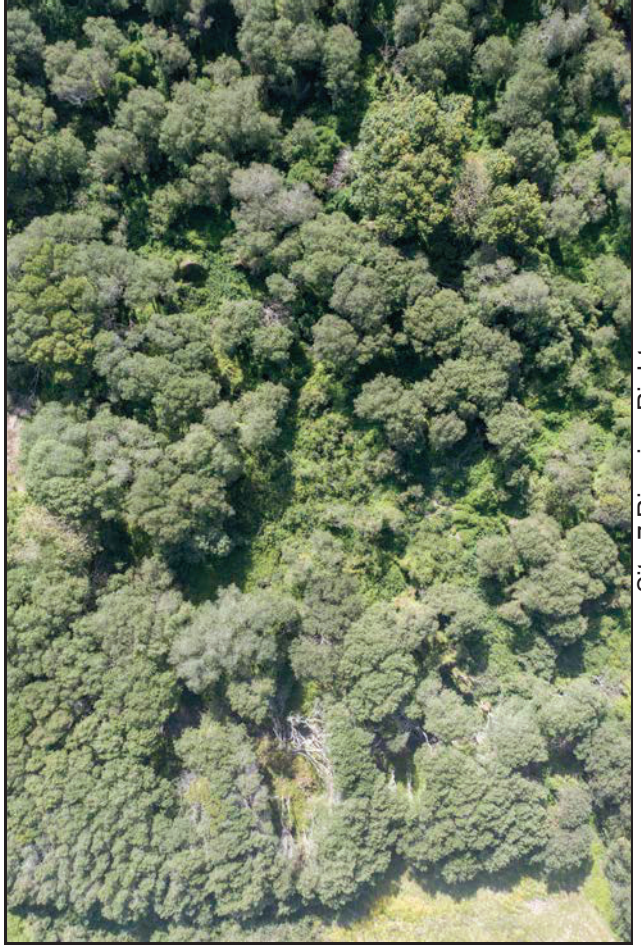
Site 5 Riparian Left



Site 5 Riparian Right

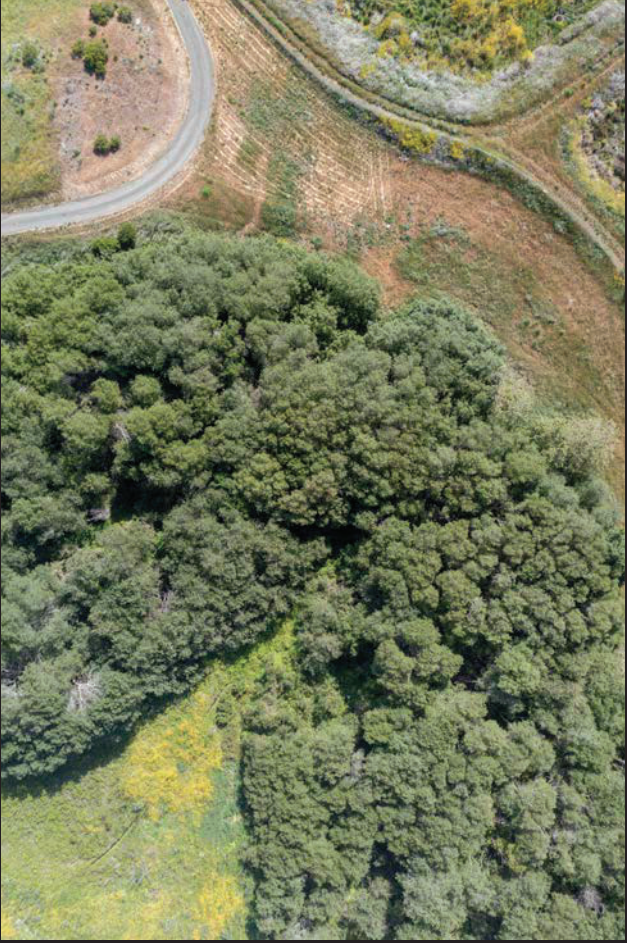


Site 7 Riparian Left



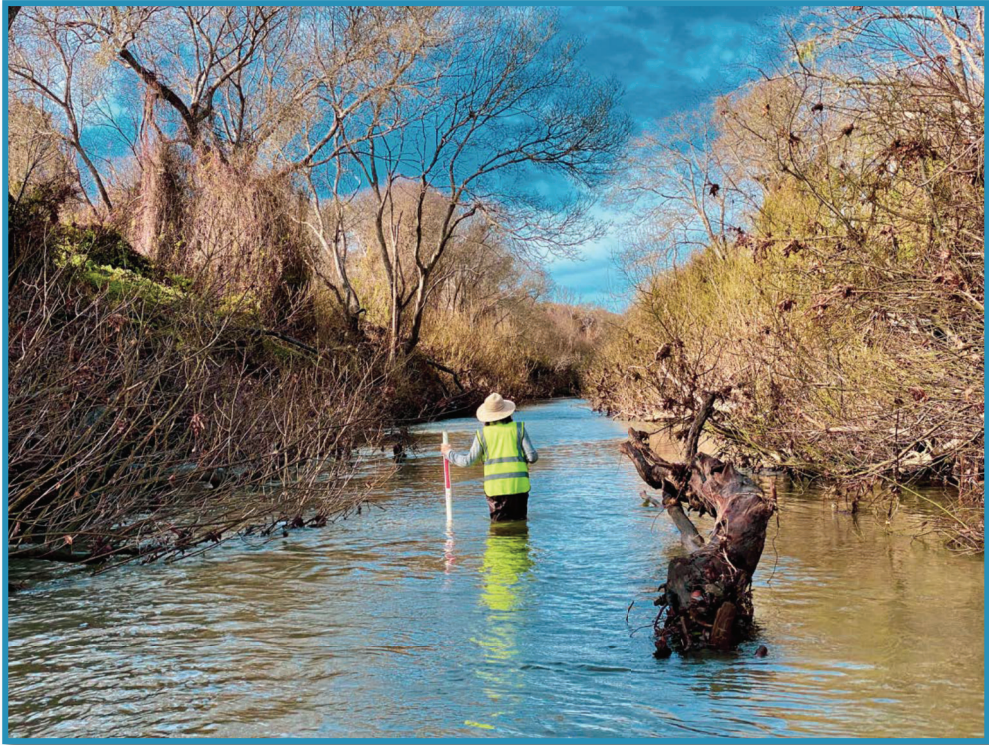
Site 7 Riparian Right

CCSD Monitoring May 9, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by

Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

May 22, 2021

Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 5-22-2021		High Tide: 3.86 ft @ 7:23 AM		Low Tide: 0.42 ft @ 1:26 PM		Stage (718): 2.05	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	12:28 PM	10:08 AM	9:51 AM	9:37 AM	9:30 AM	9:15 AM	9:02 AM
Weather (°F, Cloud cover)	68, clear	62, overcast	62, overcast	62, overcast	62, overcast	60, overcast	62, overcast
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	25	50	75	75
Algae Surface (%)	0	0	50	0	0	0	0
Algae Subsurface (%)	0	0	100	100	75	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	10.9	7.6	17.4	24.5	7.1	12.5	19.7
Riparian Moisture-Lt Bank (%)	2.7	8.6	7.2	22.5	9.8	19.7	12.2
Hydrology							
Maximum depth (ft)	dry	dry	dry	0.5	1.5	dry	dry
Wetted width (ft)	dry	dry	dry	6	26.5	dry	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.3	2.5	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.35	1.1	dry	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.4	1.3	dry	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.2	1.4	dry	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.2	1.0	dry	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.4	25.2	dry	dry
Rate from meter (ft/sec)	dry	dry	dry	0.2	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	58.9	57.6	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	46.8	76	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	4.72	7.77	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	383	929	dry	dry
Salinity (ppt)	dry	dry	dry	0.29	0.72	dry	dry
Water Gauge							
Water Level (ft)				2.85	1.26		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback observed from Site 4 to 5. No steelhead seen in pool above Site 2. Pool maintaining size of approx 10 x 60 ft, 3.5 max depth, temp 56.3 F, dissolved oxygen 6.23 ppm. Along with us today was Don Baldwin, Environmental Scientist, California Department of Fish and Wildlife.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	8.1						
East (%)	4.3						
South (%)	9						
West (%)	1.1						
†Moisture measured on each side of well casing. Max reading is 50%.							

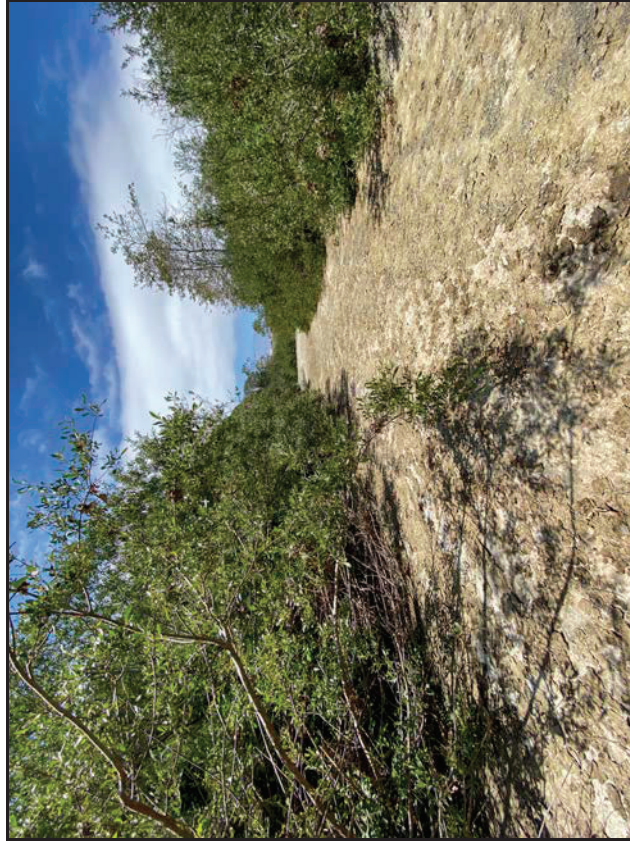
CCSD Monitoring May 22, 2021



Site 1



Site 1



Site 1



Site 1

CCSD Monitoring May 22, 2021



Site 2



Site 2



Site 2



Site 2

CCSD Monitoring May 22, 2021



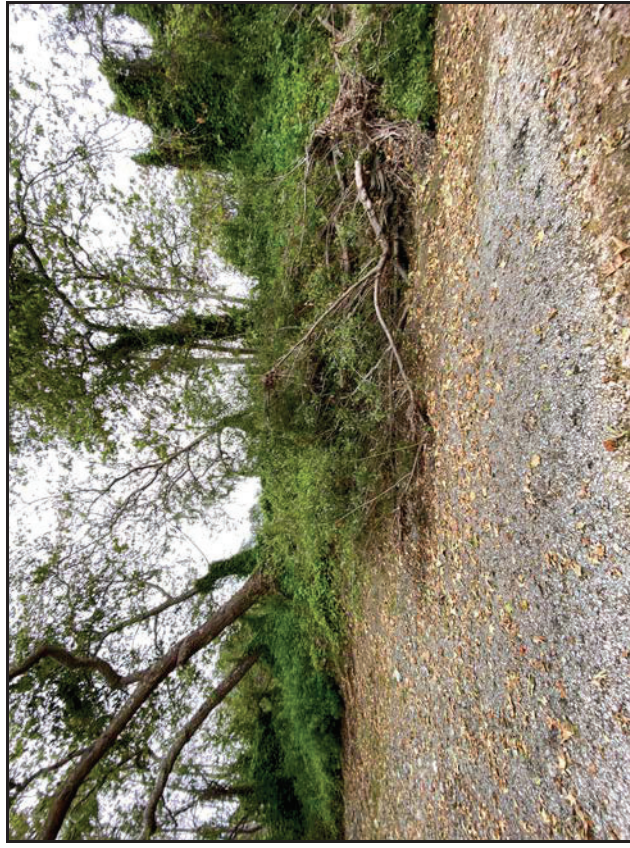
Site 3



Site 3



Site 3



Site 3

CCSD Monitoring May 22, 2021



Site 4



Site 4



Site 4



Site 4

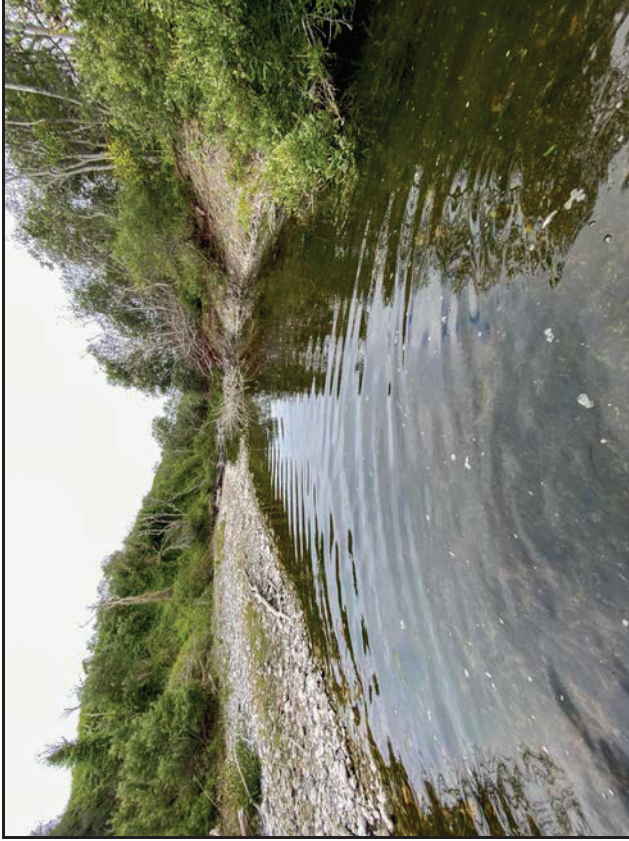
CCSD Monitoring May 22, 2021



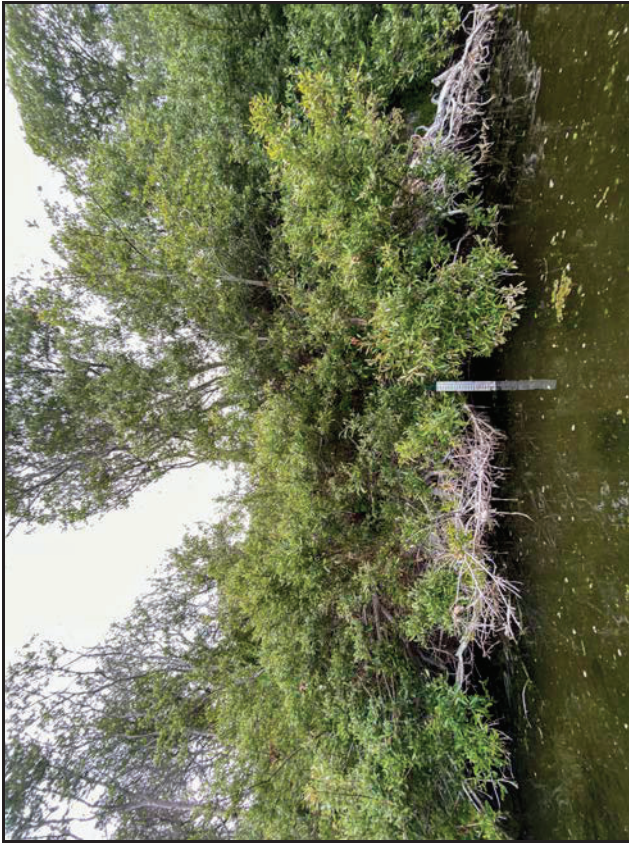
Site 5



Site 5



Site 5



Site 5

CCSD Monitoring May 22, 2021



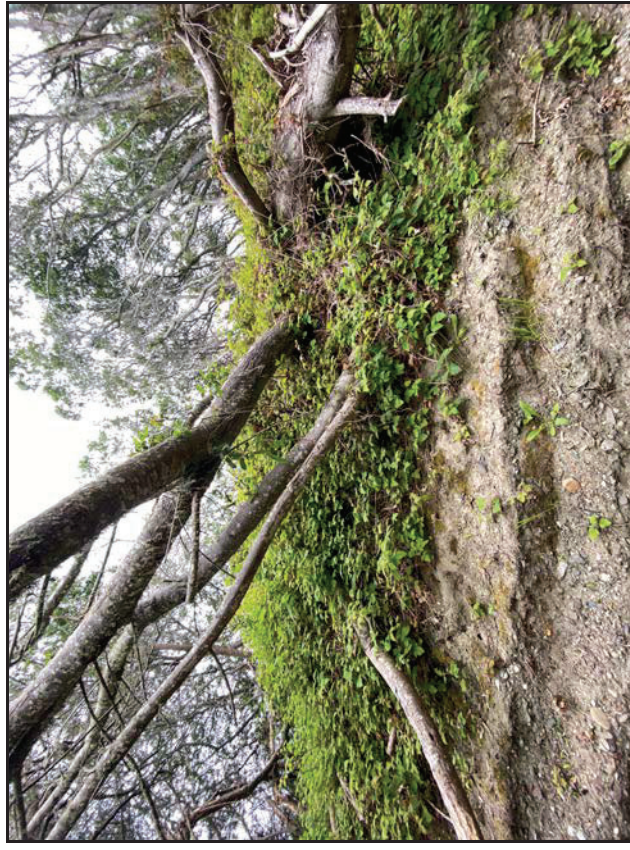
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring May 22, 2021



Site 8



Site 8



Site 8



Site 8

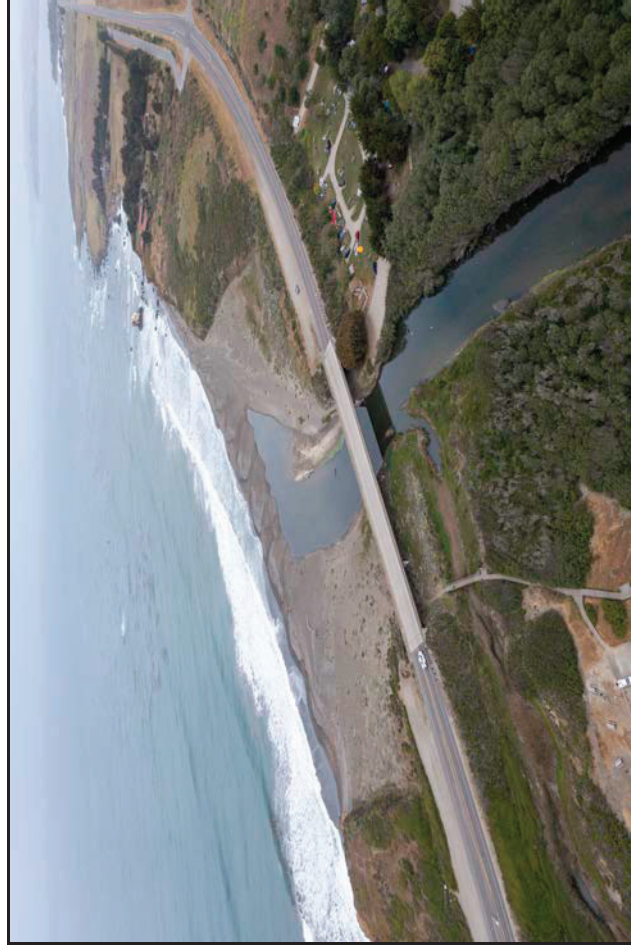
CCSD Monitoring May 22, 2021



9P7 Well

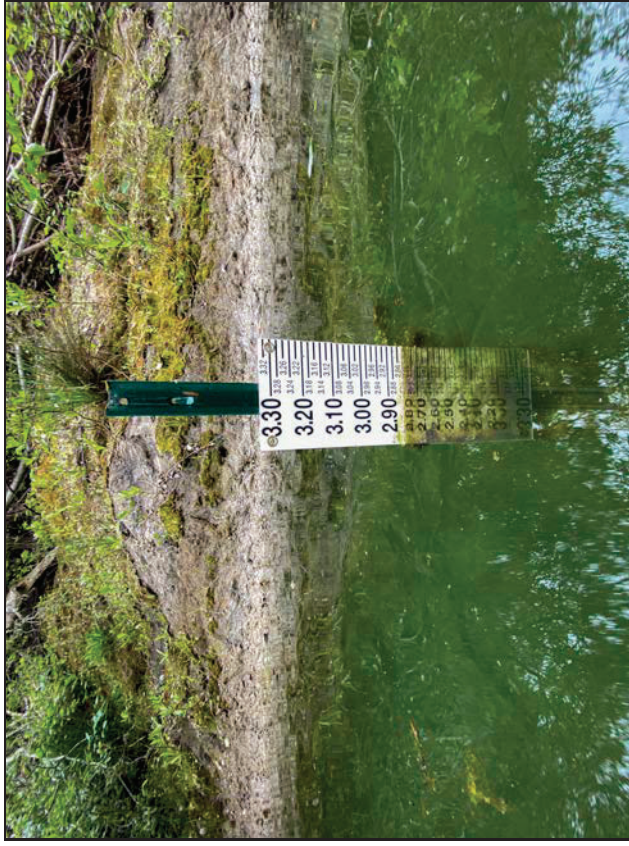


Walking Bridge PS-1



Estuary PS-2

CCSD Monitoring May 22, 2021

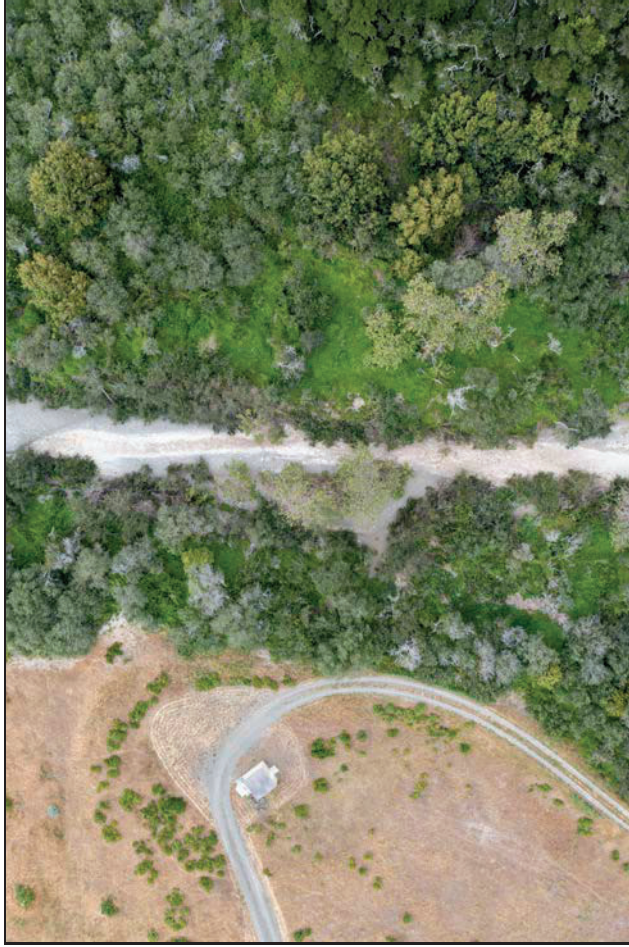


Site 4 Guage

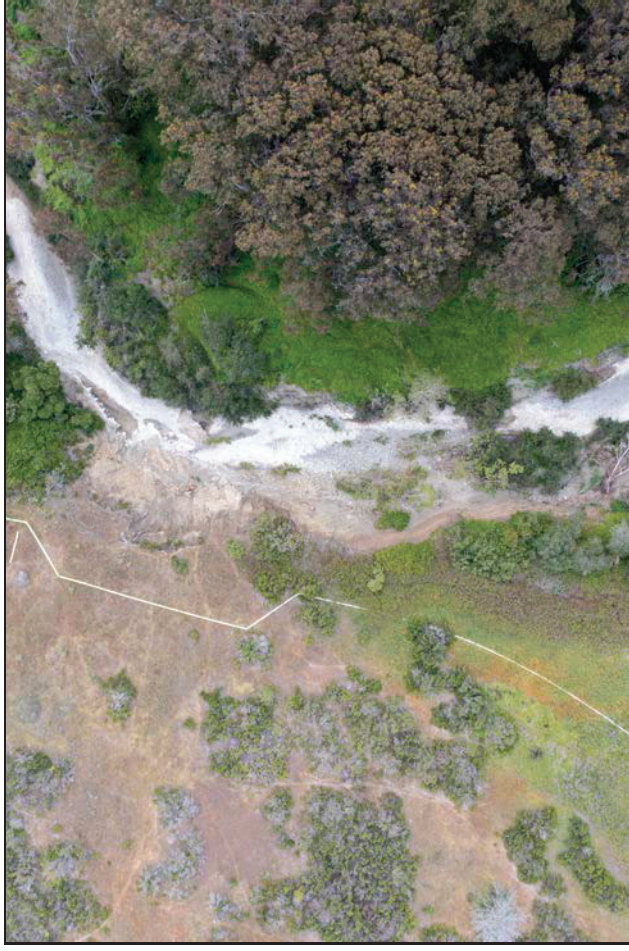


Site 5 Guage

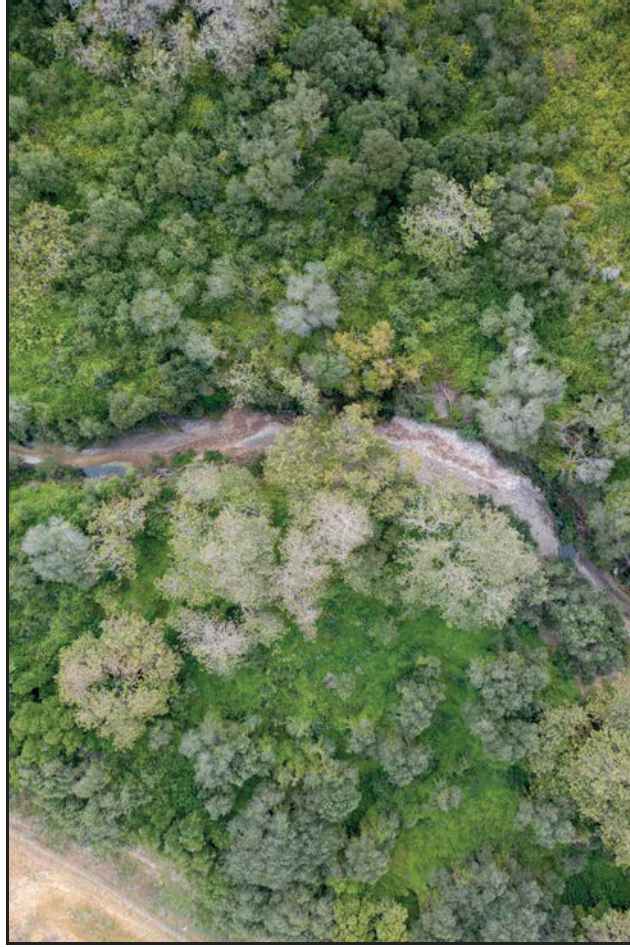
CCSD Monitoring May 22, 2021



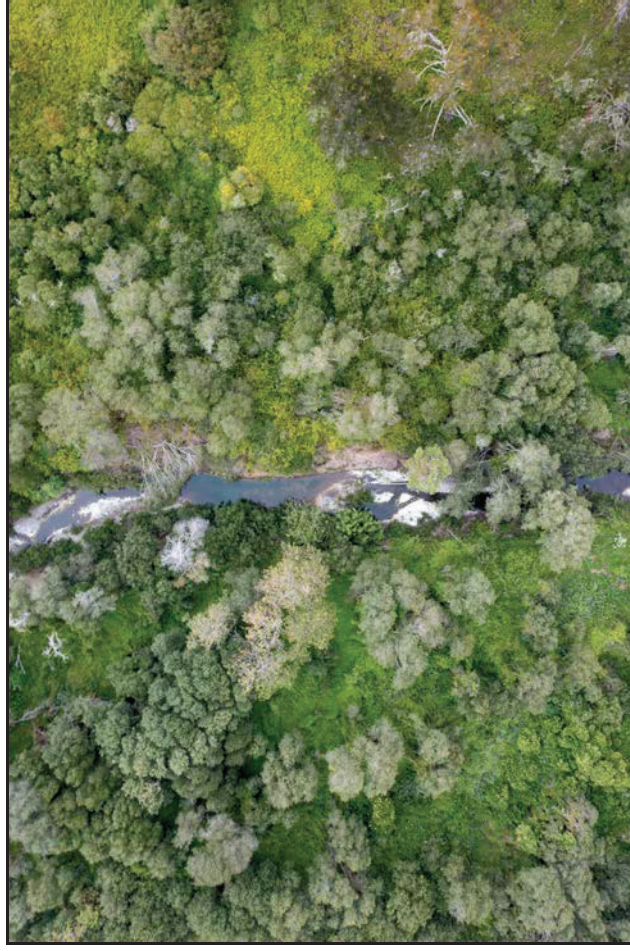
Site 1 Aerial



Site 2 Aerial

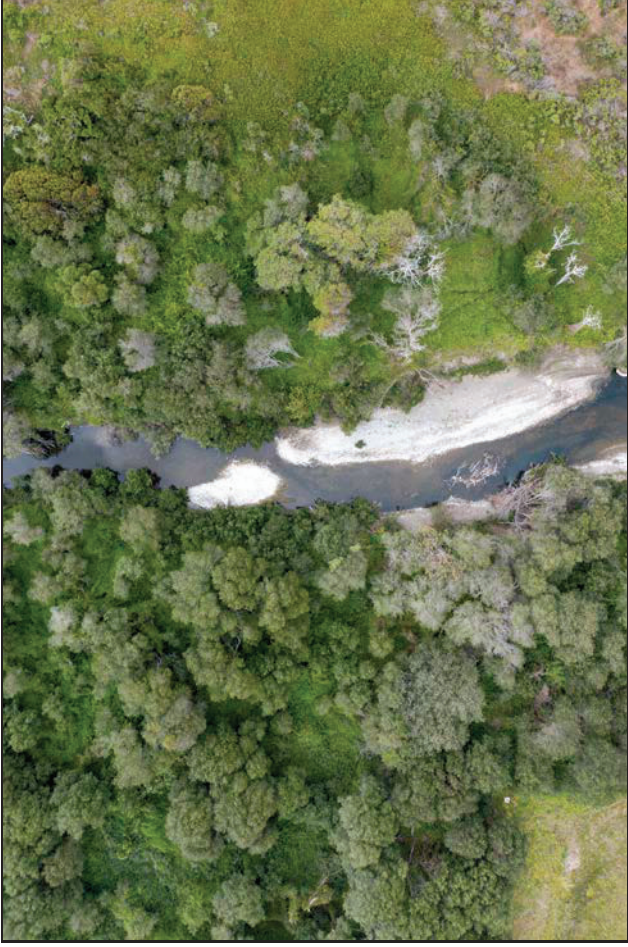


Site 3 Aerial



Site 4 Aerial

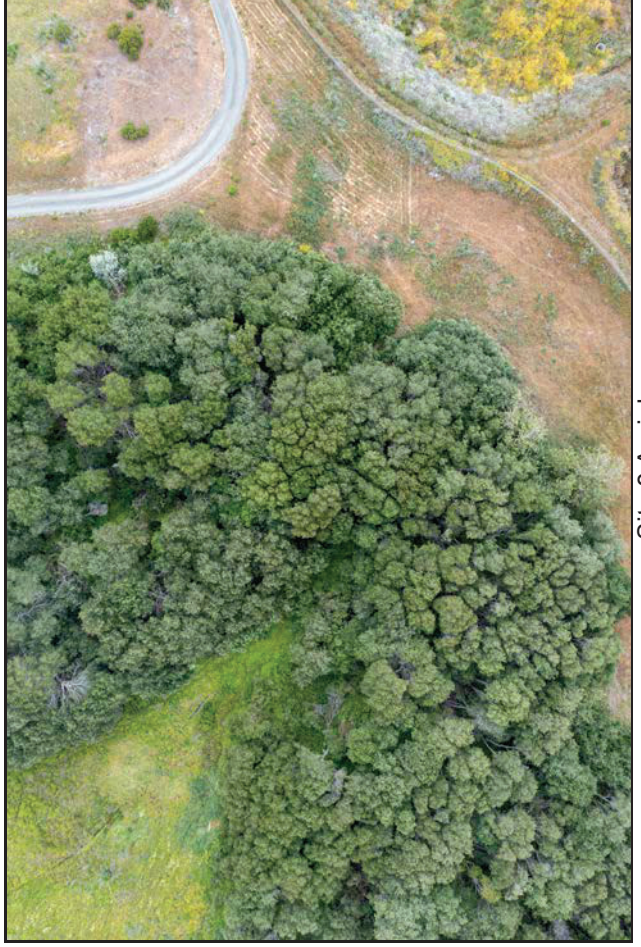
CCSD Monitoring May 22, 2021



Site 5 Aerial

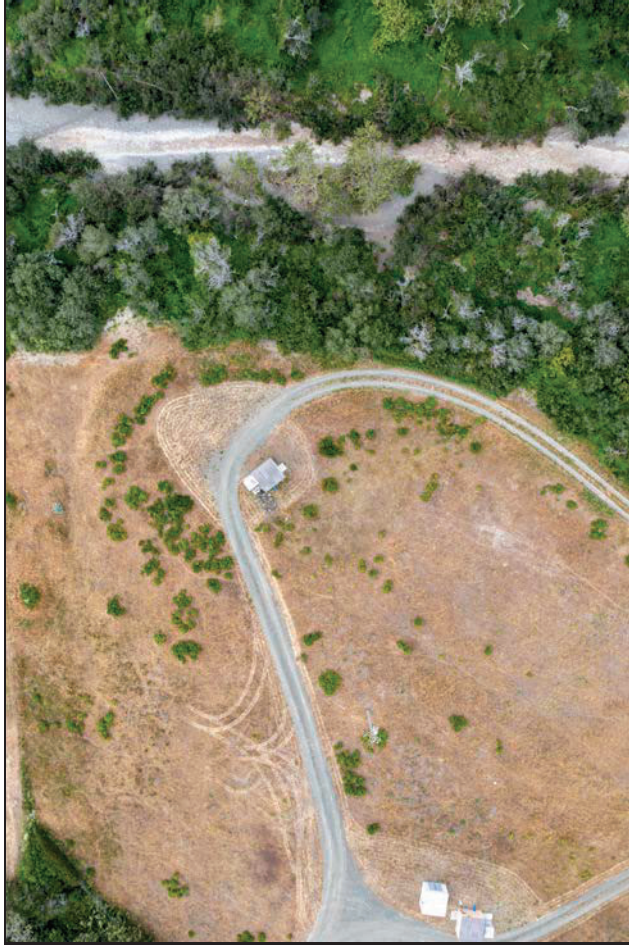


Site 7 Aerial



Site 8 Aerial

CCSD Monitoring May 22, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring May 22, 2021



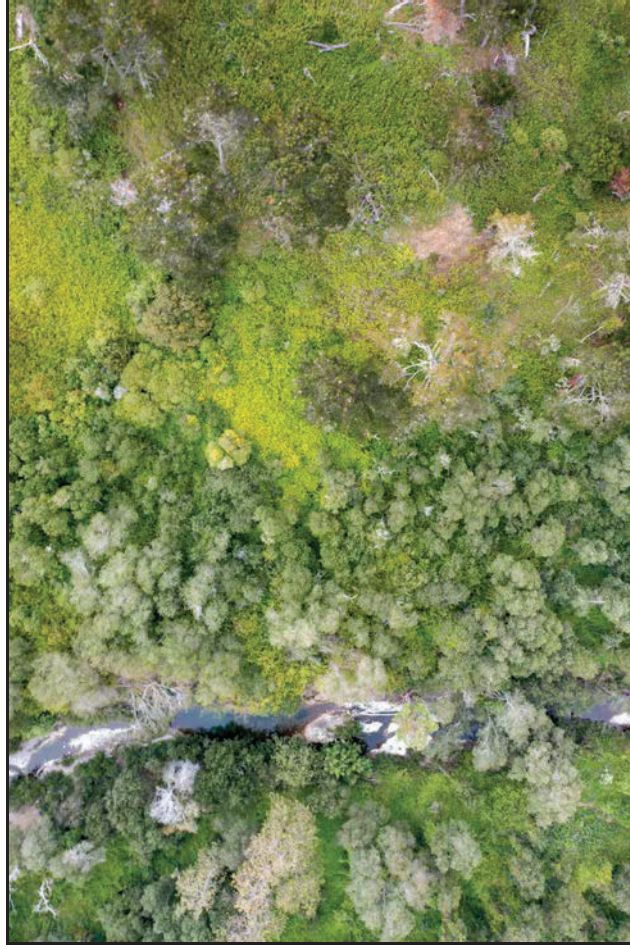
Site 3 Riparian Left



Site 3 Riparian Right

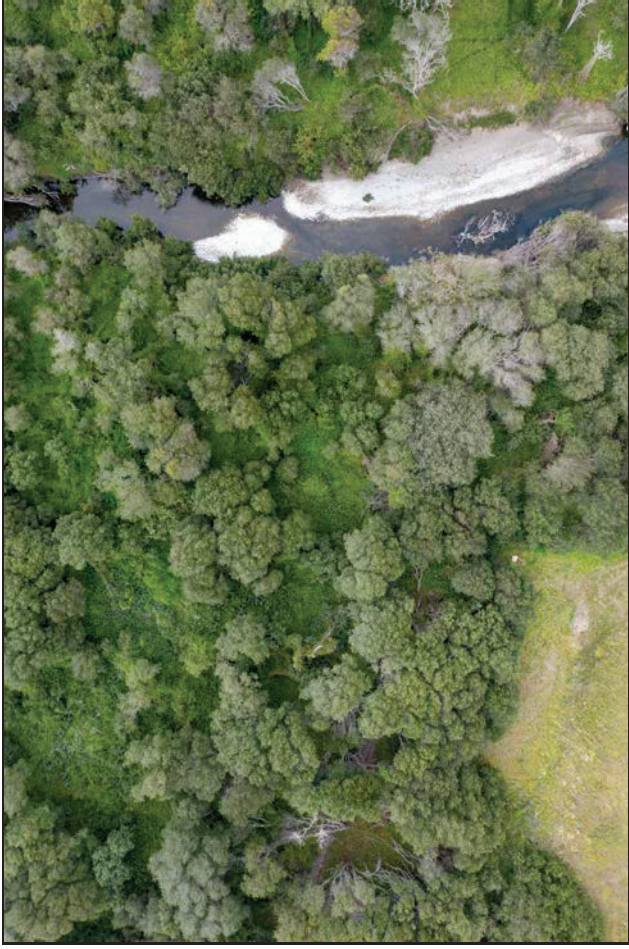


Site 4 Riparian Left

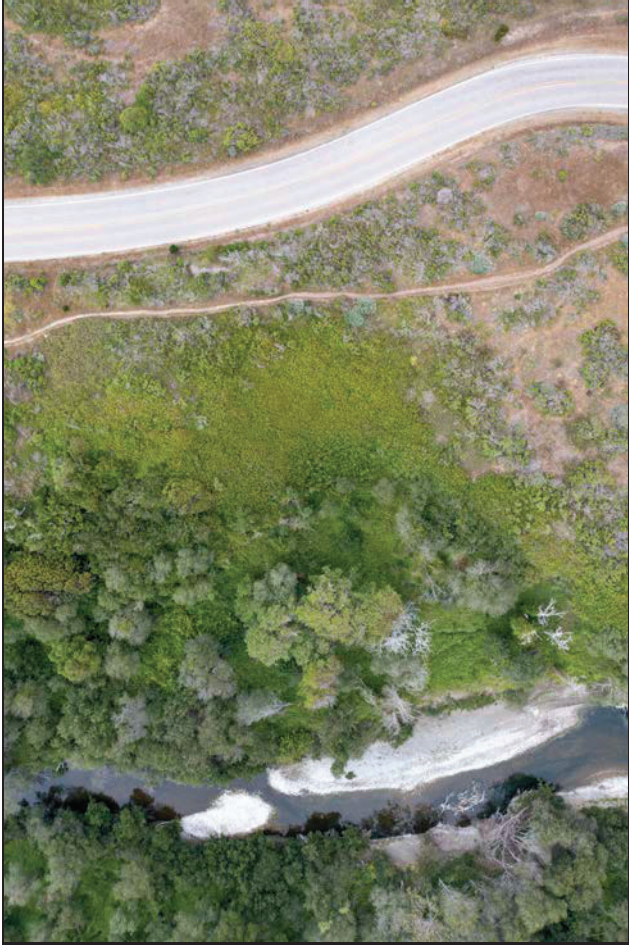


Site 4 Riparian Right

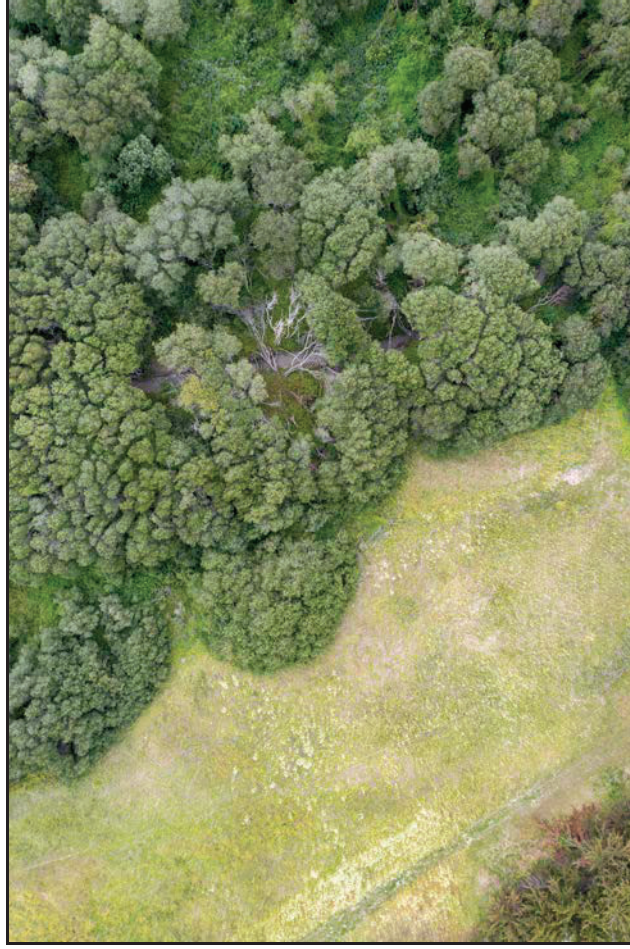
CCSD Monitoring May 22, 2021



Site 5 Riparian Left



Site 5 Riparian Right

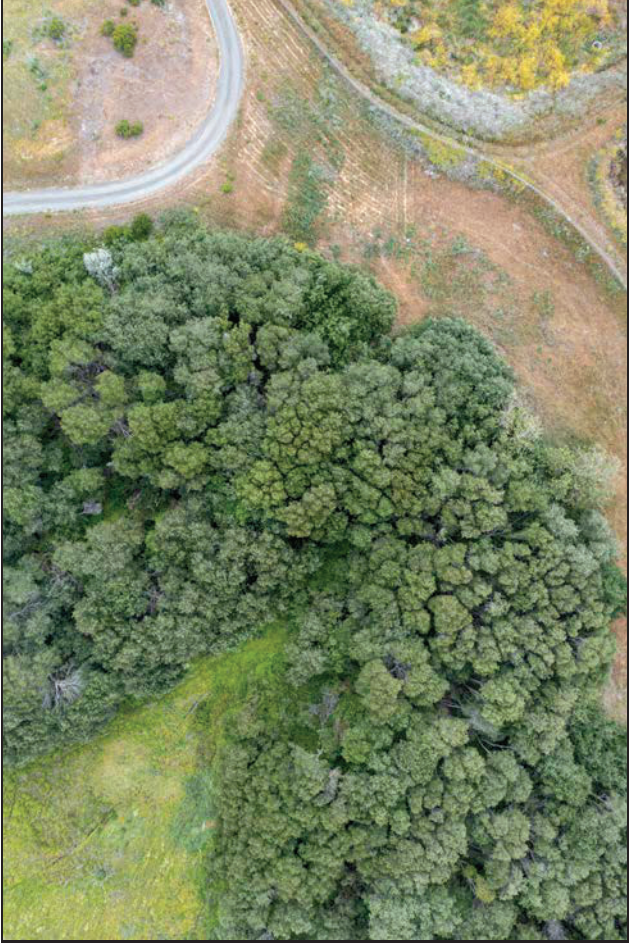


Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring May 22, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

June 5, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks				
Cindy & Paul Cleveland						
Survey Date: 6-5-2021		High Tide: 3:30 ft @9:11 AM	Low Tide: 1:69 ft @ 2:08 PM	Sandbar Breached: No	Stage (718): 2.04	
Location	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*
Time	11:08 AM	10:16 AM	10:07 AM	9:55 AM	9:39 AM	9:26 AM
Weather (°F, Cloud cover)	62, clearing	56, overcast	56, overcast	56, overcast	56, overcast	56, overcast
Habitat						
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c
Substrate embeddedness (%)	100	50	50	25	50	75
Algae Surface (%)	0	0	50	0	0	0
Algae Subsurface (%)	0	0	100	100	75	0
Vegetation						
Instream cover (%)	0	15	15	25	10	0
Overhead cover (%)	10	5	15	25	10	80
Riparian width-Rt Bank (ft)	150	35	210	135	25	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85
Riparian Moisture-Rt Bank (%)	11.5	7.6	12.2	24.5	1.5	15.6
Riparian Moisture-Lt Bank (%)	4.7	7.4	7.3	25.5	9.7	13.7
Hydrology						
Maximum depth (ft)	dry	dry	dry	0.4	1.6	dry
Wetted width (ft)	dry	dry	dry	5.5	27.5	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.2	2.8	dry
Hydrology Calculations						
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.4	1.2	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.3	1.3	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.15	1.6	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.2	1.0	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.2	28.2	dry
Rate from meter (ft/sec)	dry	dry	dry	0.2	0.1	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	60.5	60.2	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	41.9	43.2	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	4.15	4.29	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	274	605	dry	dry
Salinity (ppt)	dry	dry	dry	0.2	0.46	dry	dry
Water Gauge							
Water Level (ft)				2.84	1.31		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback observed from Site 4 to 5. Dead steelhead, female 18 inch, seen on ground next to pool above Site 2.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWT/TP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	10.9						
East (%)	0.4						
South (%)	8.4						
West (%)	10.2						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring June 5, 2021



Site 1



Site 1



Site 1



Site 1

CCSD Monitoring June 5, 2021



Site 2



Site 2



Site 2



Site 2

CCSD Monitoring June 5, 2021



Site 3



Site 3

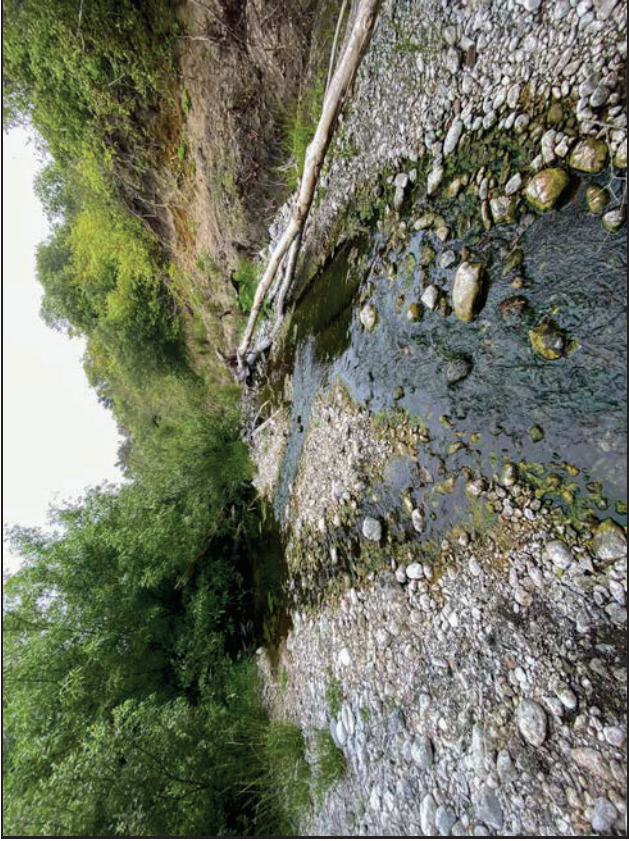


Site 3



Site 3

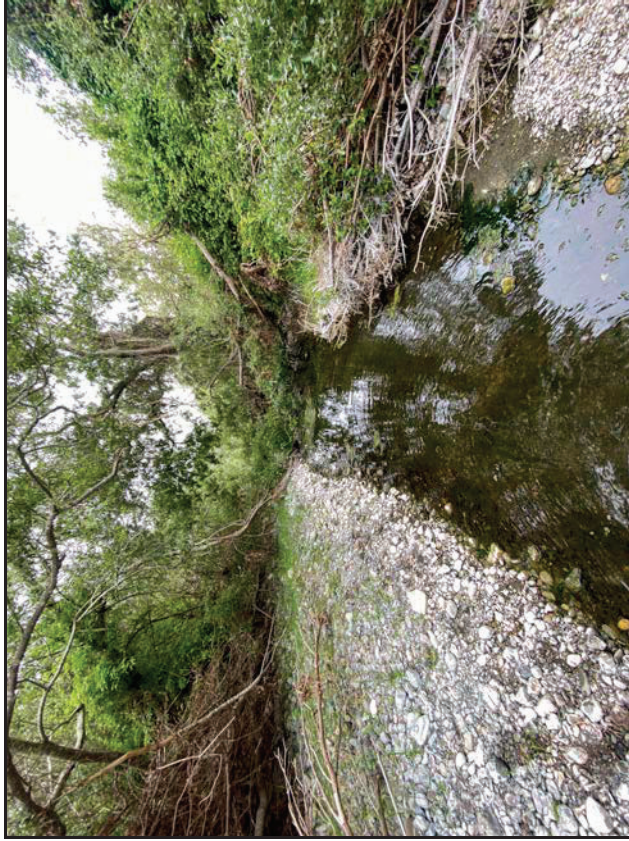
CCSD Monitoring June 5, 2021



Site 4



Site 4



Site 4



Site 4

CCSD Monitoring June 5, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring June 5, 2021



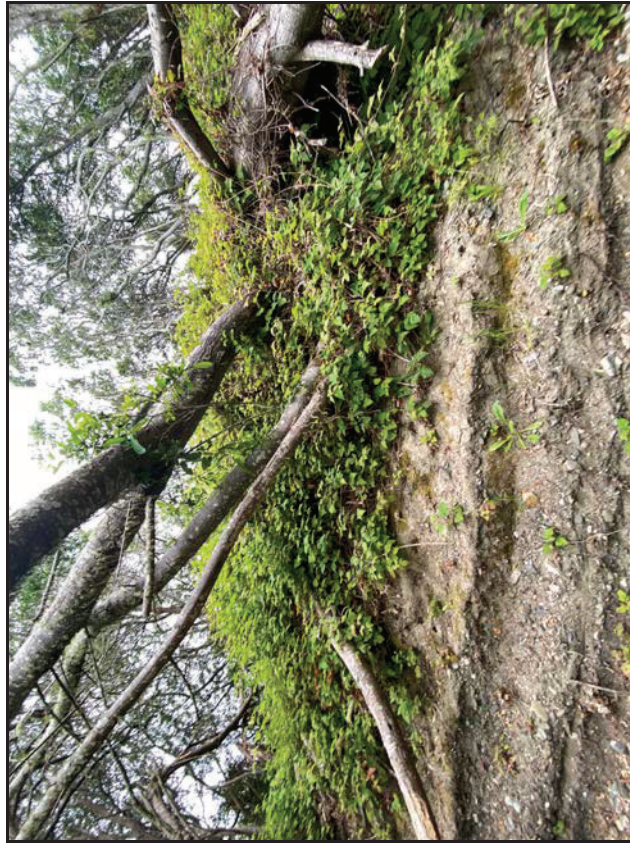
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring June 5, 2021



Site 8



Site 8



Site 8



Site 8

CCSD Monitoring June 5, 2021



9P7 Well



Walking Bridge PS-1



Estuary PS-2

CCSD Monitoring June 5, 2021



Site 4 Guage



Site 5 Guage

CCSD Monitoring June 5, 2021



Site 1 Aerial



Site 2 Aerial



Site 3 Aerial



Site 4 Aerial

CCSD Monitoring June 5, 2021



Site 5 Aerial



Site 7 Aerial



Site 8 Aerial

CCSD Monitoring June 5, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring June 5, 2021



Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left



Site 4 Riparian Right

CCSD Monitoring June 5, 2021



Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring June 5, 2021



Site 8 Riparian Left & Right

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 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks					
Cindy & Paul Cleveland							
Survey Date: 6-19-2021		High Tide: 3:48 ft @ 5:51 AM	Low Tide: 0:86 ft @ 11:49 AM	Sandbar Breached: No		Stage (718): 2.05	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	10:05 AM	9:47 AM	9:38 AM	9:19 AM	9:04 AM	8:52 AM	8:45 AM
Weather (°F, Cloud cover)	64, fog	63, fog	63, fog	61, fog	60, fog	58, fog	58, fog
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	75	75	75	75
Algae Surface (%)	0	0	50	0	0	0	0
Algae Subsurface (%)	0	0	100	100	100	0	0
Vegetation							
Instream cover (%)	0	15	15	25	10	0	0
Overhead cover (%)	10	5	15	25	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	10.1	12.2	10.7	24.2	12	11.2	17.5
Riparian Moisture-Lt Bank (%)	0	1.9	4.2	25	7.1	14.5	16
Hydrology							
Maximum depth (ft)	dry	dry	dry	0.4	1.2	dry	dry
Wetted width (ft)	dry	dry	dry	5.5	25	dry	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.3	1.8	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.4	0.8	dry	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.4	0.9	dry	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.2	1.2	dry	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.3	0.7	dry	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.4	18.1	dry	dry
Rate from meter (ft/sec)	dry	dry	dry	0.2	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	61.8	61.1	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	33.1	39.7	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	3.23	3.89	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	323	838	dry	dry
Salinity (ppt)	dry	dry	dry	0.24	0.65	dry	dry
Water Gauge							
Water Level (ft)				2.83	0.96		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback observed from Site 4 to 5. Trout pool above Site 2 about half original size, no fish observed.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	8.1						
East (%)	0						
South (%)	9.6						
West (%)	8.2						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring June 19, 2021



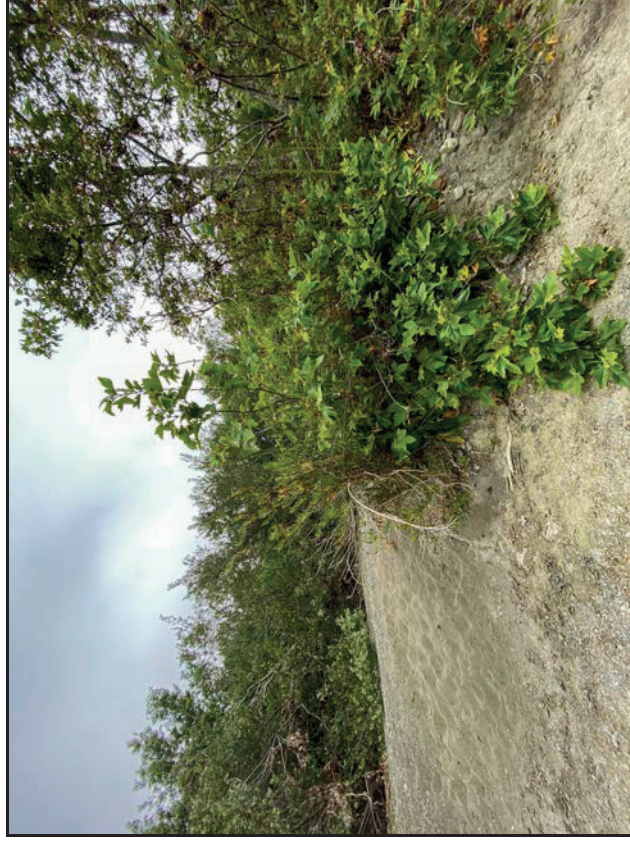
Site 1



Site 1



Site 1



Site 1

CCSD Monitoring June 19, 2021



Site 2



Site 2

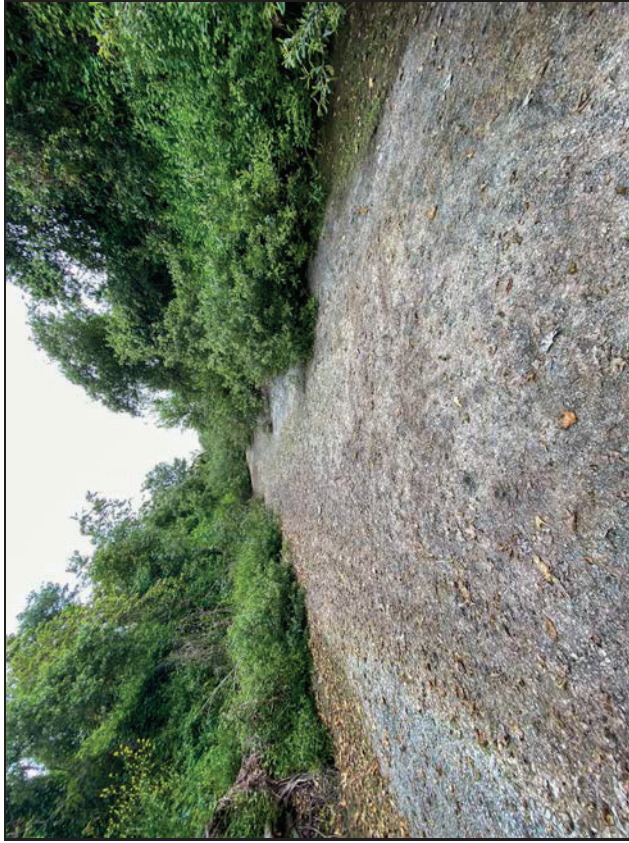


Site 2



Site 2

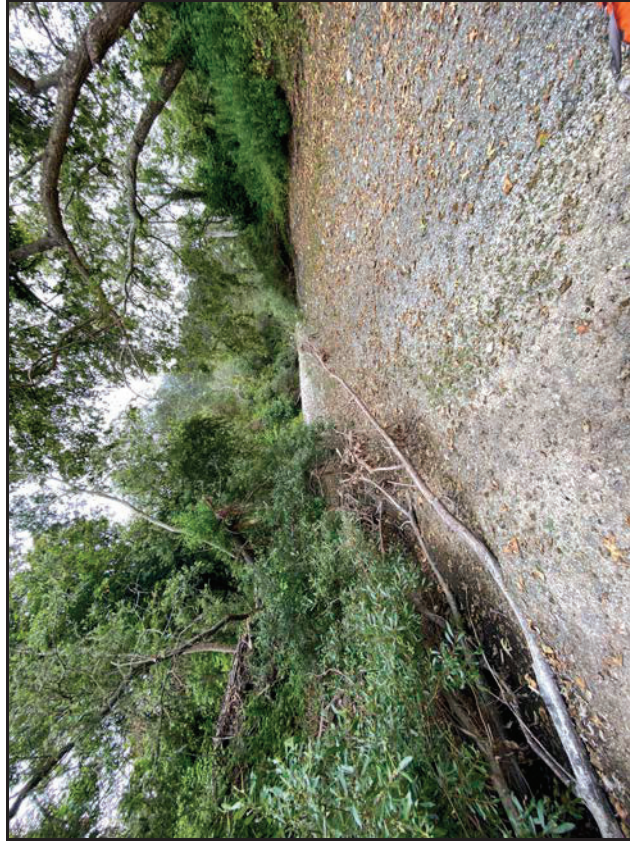
CCSD Monitoring June 19, 2021



Site 3



Site 3

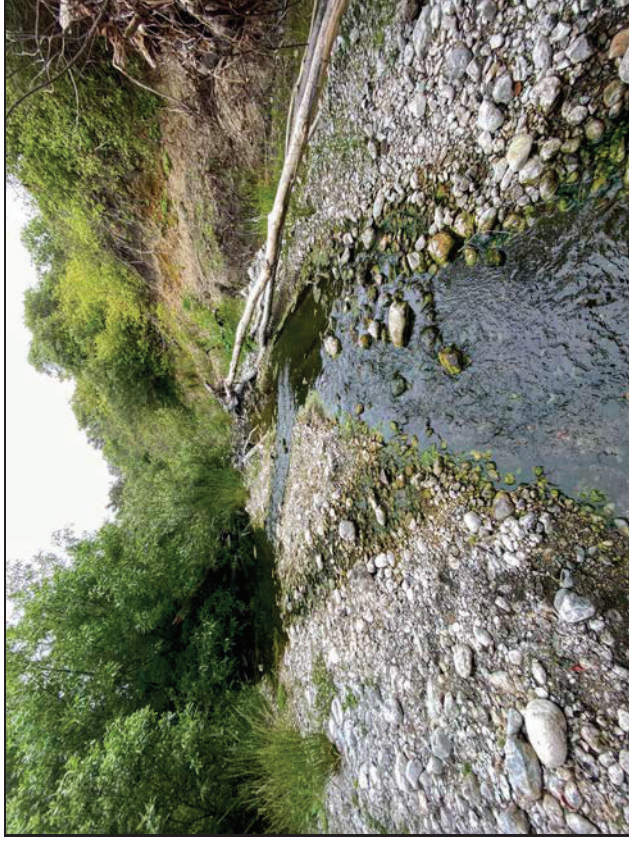


Site 3



Site 3

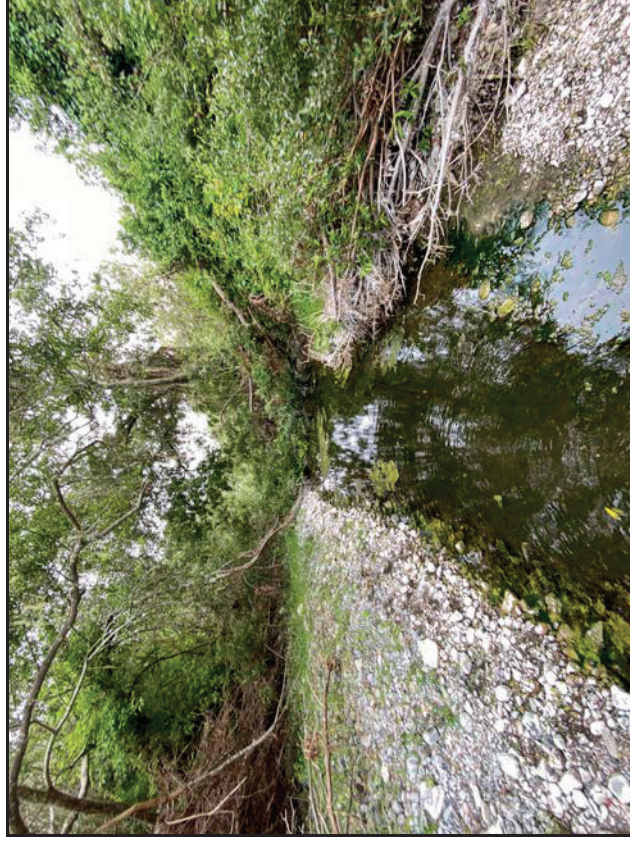
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Site 4



Site 4



Site 4

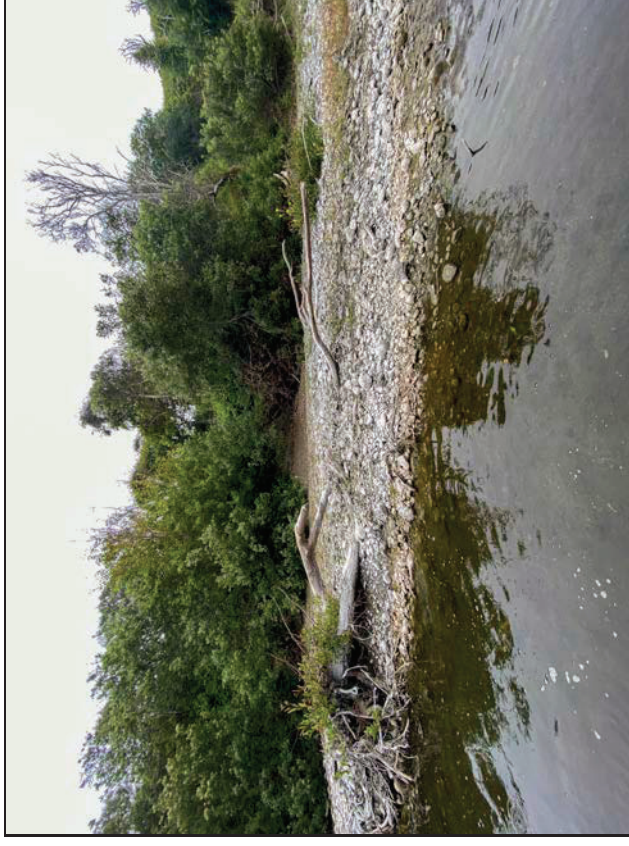


Site 4

CCSD Monitoring June 19, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring June 19, 2021



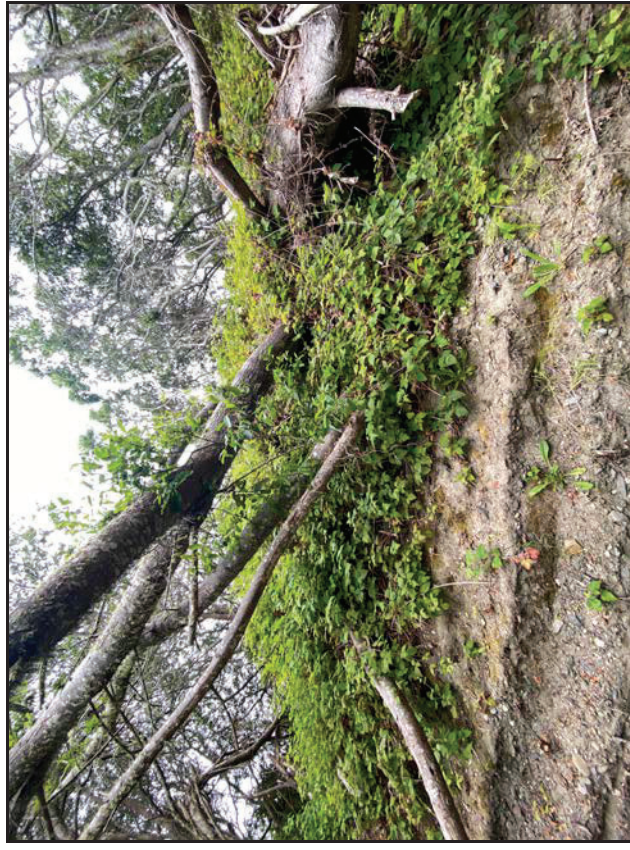
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring June 19, 2021



Site 8



Site 8



Site 8

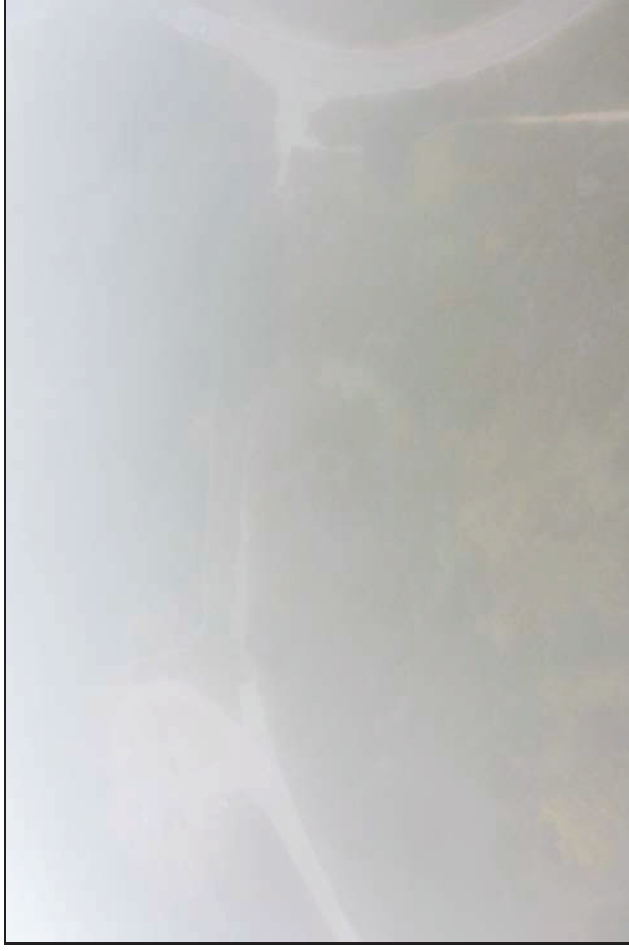


Site 8

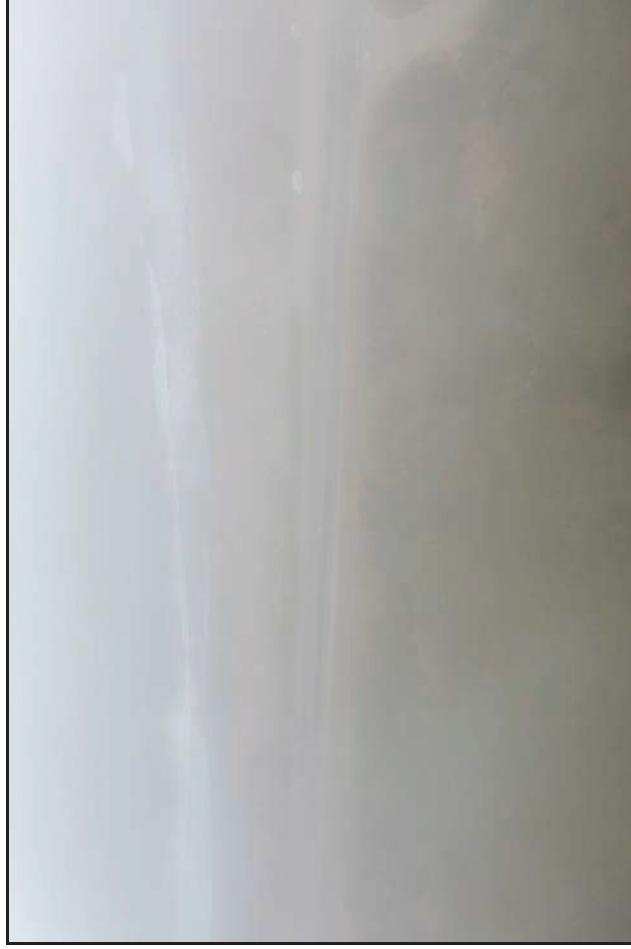
CCSD Monitoring June 19, 2021



9P7 Well



Walking Bridge PS-1



Esturary PS-2

CCSD Monitoring June 19, 2021

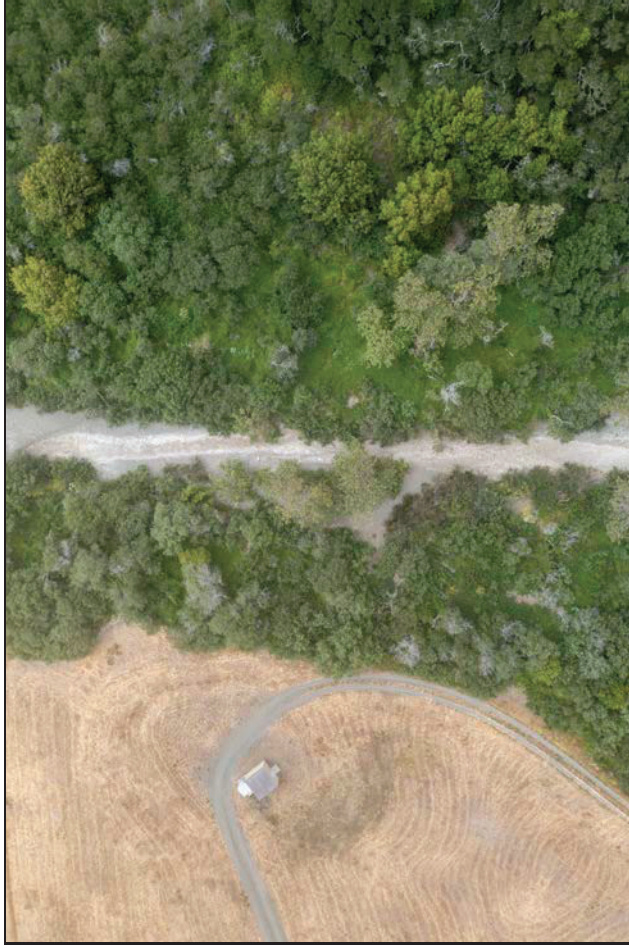


Site 4 Guage



Site 5 Guage

CCSD Monitoring June 19, 2021



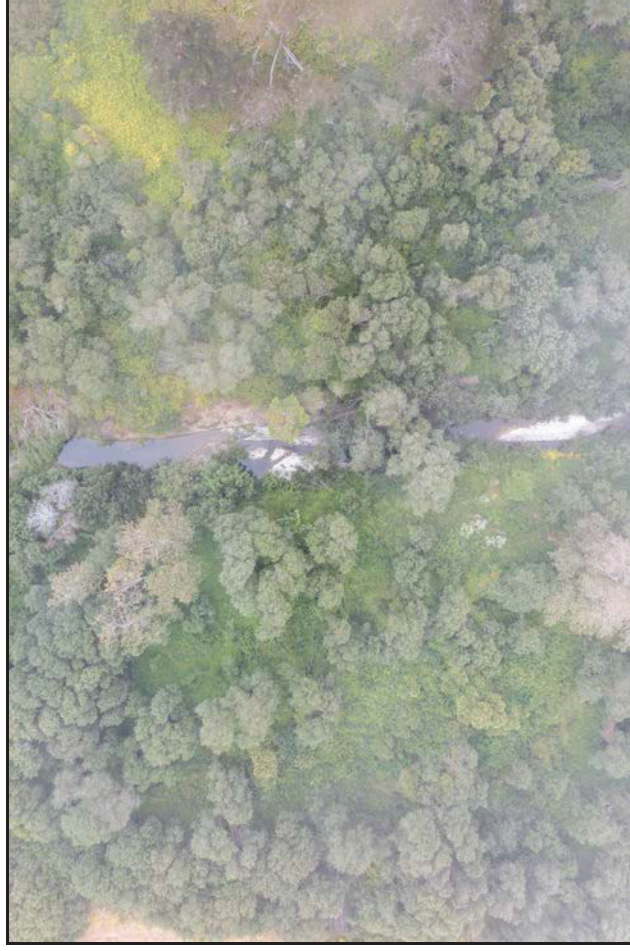
Site 1 Aerial



Site 2 Aerial



Site 3 Aerial



Site 4 Aerial

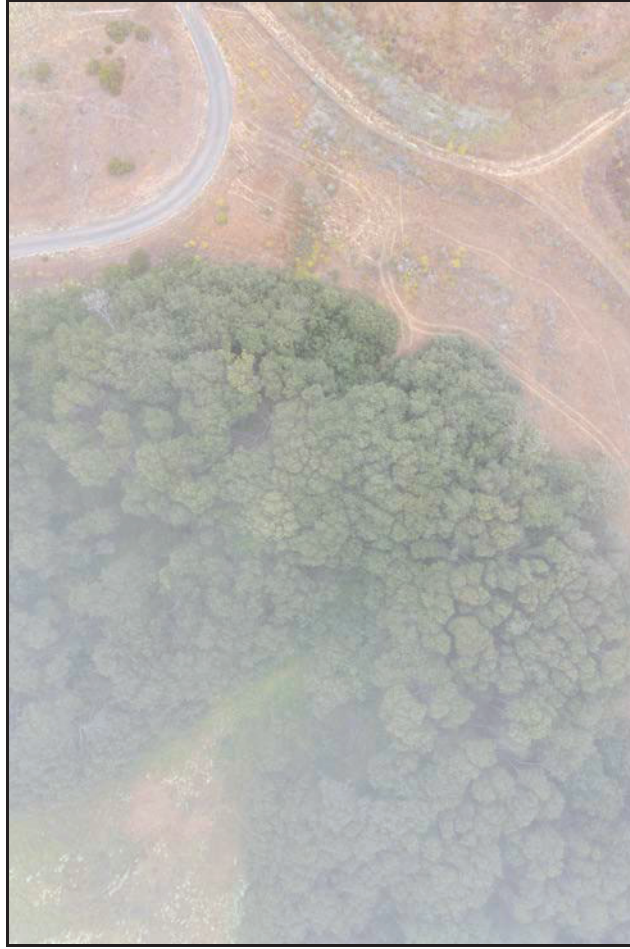
CCSD Monitoring June 19, 2021



Site 5 Aerial

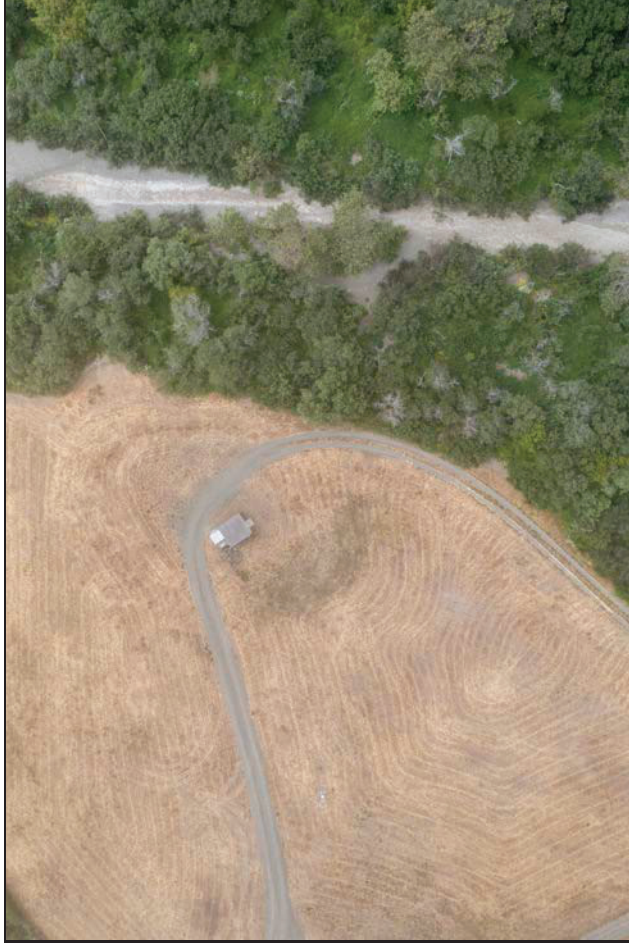


Site 7 Aerial

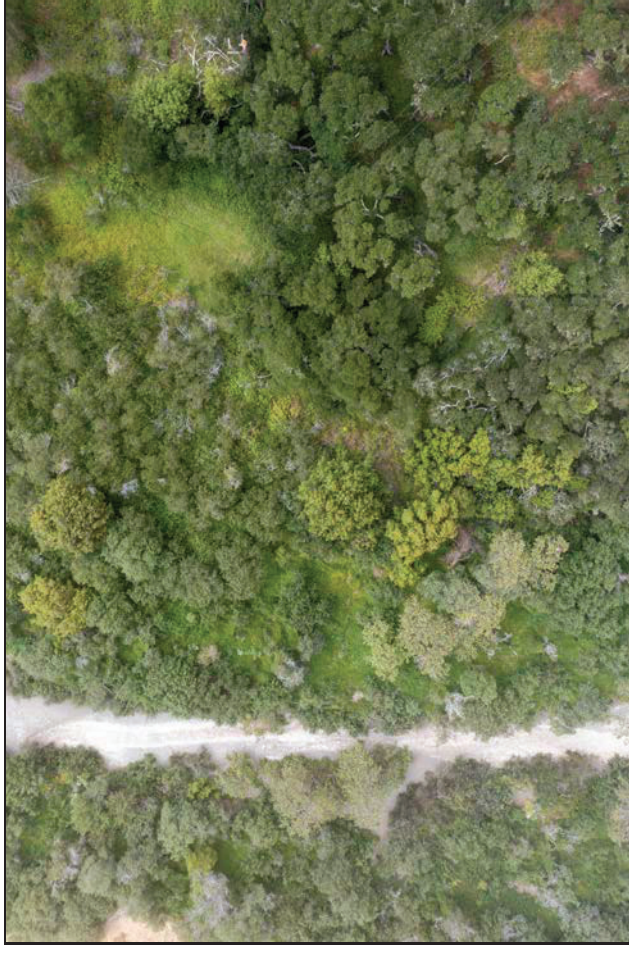


Site 8 Aerial

CCSD Monitoring June 19, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring June 19, 2021



Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left



Site 4 Riparian Right

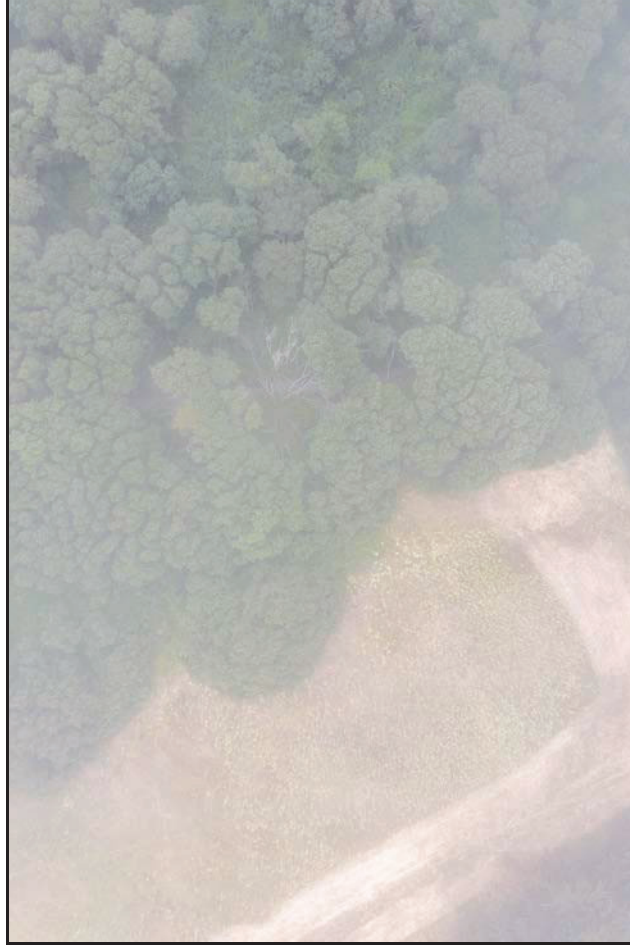
CCSD Monitoring June 19, 2021



Site 5 Riparian Left



Site 5 Riparian Right

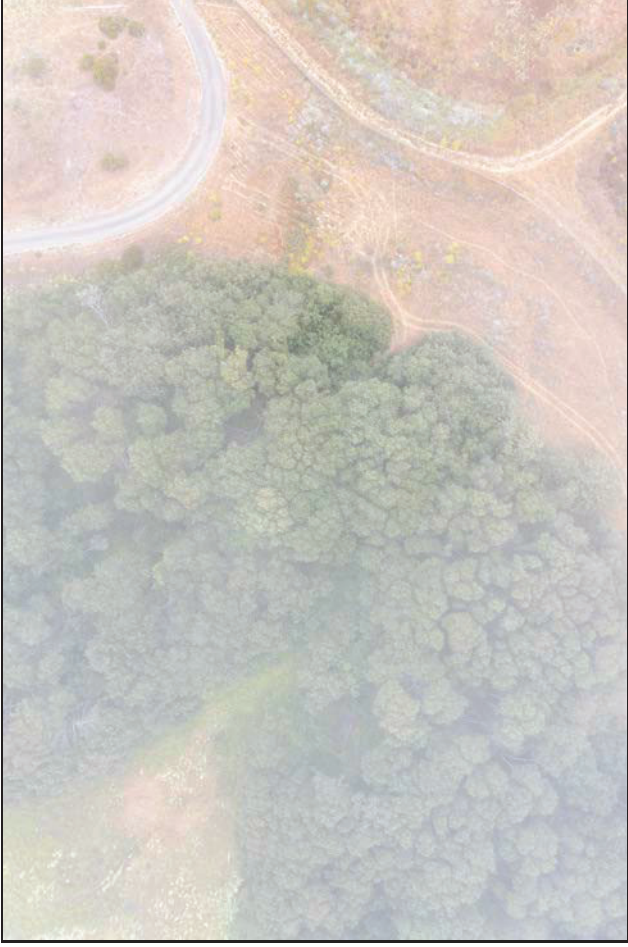


Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring June 19, 2021



Site 8 Aerial Riparian Left & Right

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July 5, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks				
Cindy & Paul Cleveland						
Survey Date: 7-5-2021		High Tide: 3:20 ft @9:13 AM	Low Tide: 2:43 ft @ 1:21 PM	Sandbar Breached: No	Stage (718): 2.05	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>
Time	12:39 PM	12:22 PM	11:48 AM	11:26 AM	11:03 AM	10:49 AM
Weather (°F, Cloud cover)	74, clear	72, clear	67, clear	67, clear	67, clearing	65, fog
Habitat						
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c
Substrate embeddedness (%)	100	50	50	75	75	75
Algae Surface (%)	0	0	50	0	0	0
Algae Subsurface (%)	0	0	100	100	100	0
Vegetation						
Instream cover (%)	0	15	15	25	10	0
Overhead cover (%)	10	5	15	25	10	80
Riparian width-Rt Bank (ft)	150	35	210	135	25	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85
Riparian Moisture-Rt Bank (%)	11.7	2.8	16.8	50	7.9	9.4
Riparian Moisture-Lt Bank (%)	0	7.5	0.4	17.1	15.3	9.1
Hydrology						
Maximum depth (ft)	dry	dry	dry	0.4	1.4	dry
Wetted width (ft)	dry	dry	dry	6	26	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.4	2.4	dry
Hydrology Calculations						
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.4	1.2	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.4	1.1	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.1	1.4	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.2	0.9	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.4	24.1	dry
Rate from meter (ft/sec)	dry	dry	dry	0.3	0.1	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	65.6	65.5	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	96.7	77.6	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	9.02	7.2	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	349	1319	dry	dry
Salinity (ppt)	dry	dry	dry	0.26	1.04	dry	dry
Water Gauge							
Water Level (ft)				2.81	1.22		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback observed from Site 4 to 5, large increase from last survey, hundreds of them, variety of sizes.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AW/TP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	8.2						
East (%)	0						
South (%)	3.5						
West (%)	7.1						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring July 5, 2021



Site 1



Site 1



Site 1



Site 1

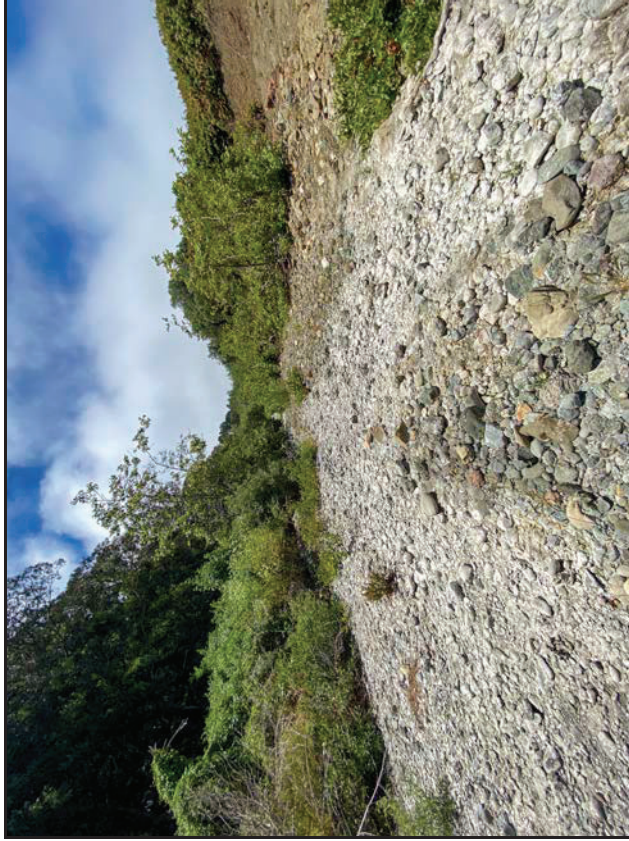
CCSD Monitoring July 5, 2021



Site 2



Site 2



Site 2

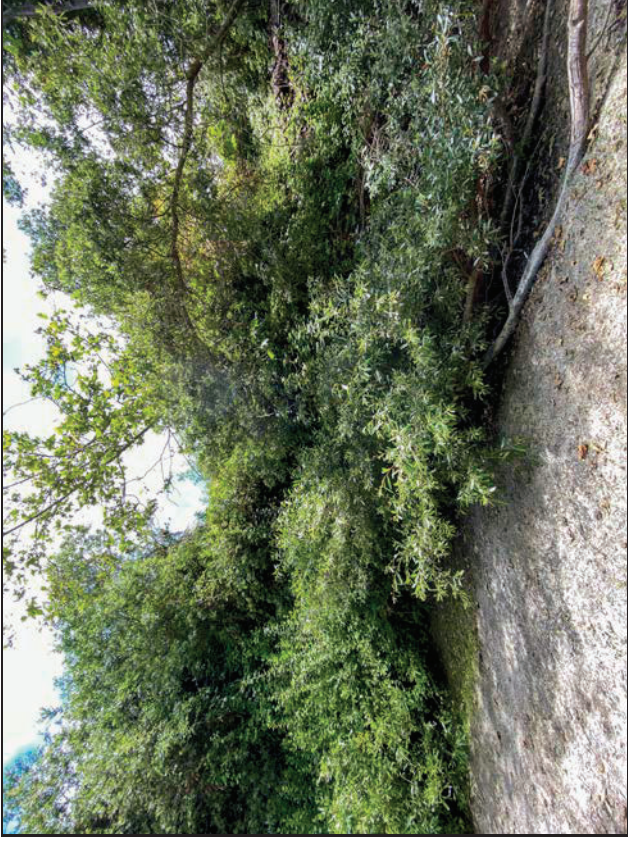


Site 2

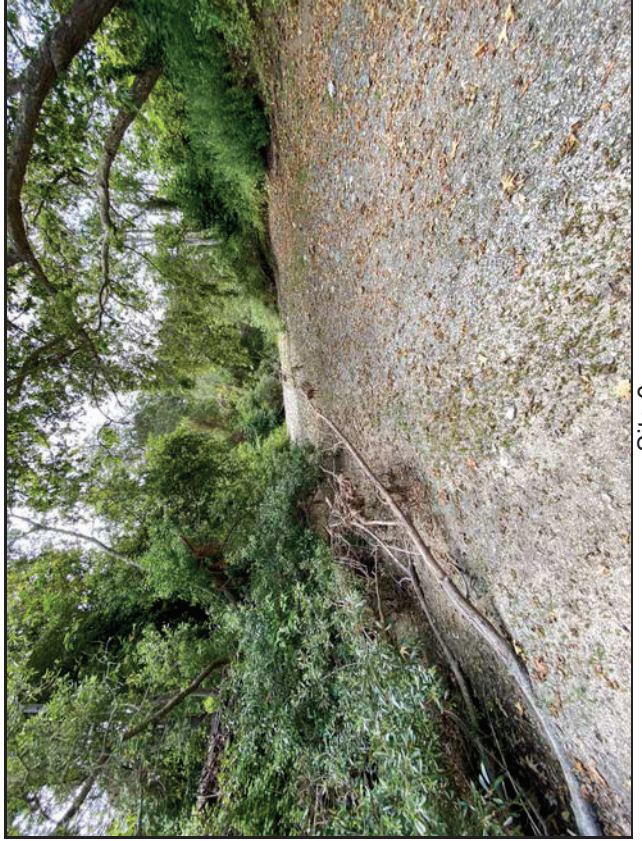
CCSD Monitoring July 5, 2021



Site 3



Site 3

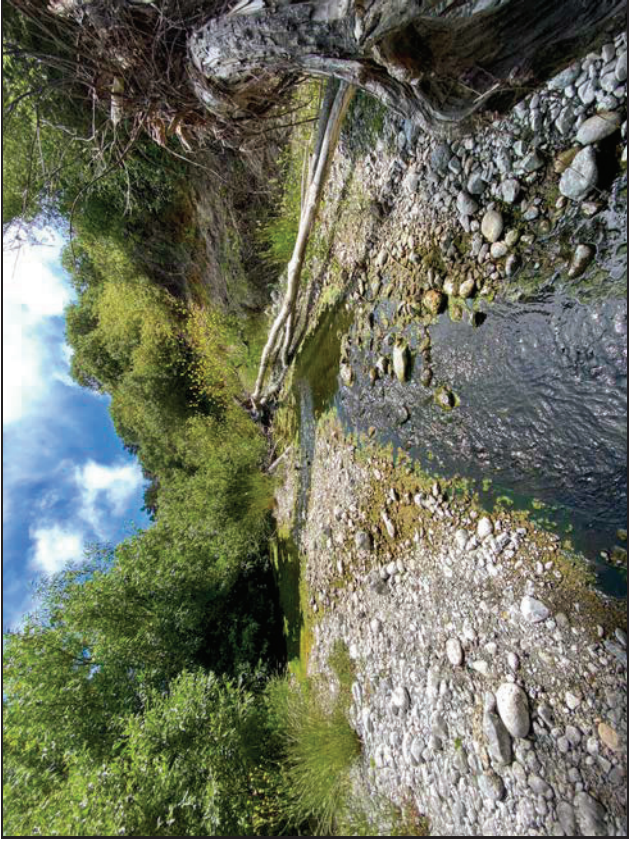


Site 3



Site 3

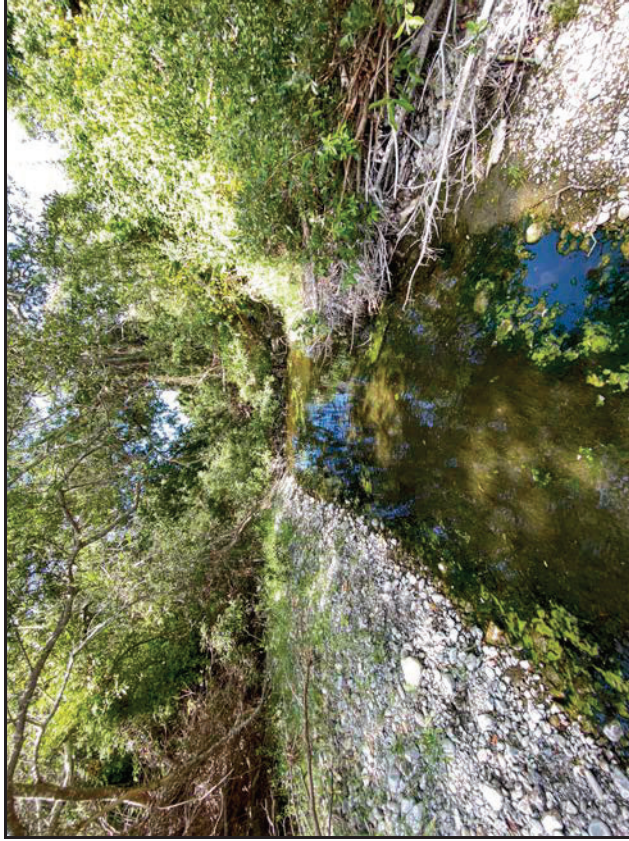
CCSD Monitoring July 5, 2021



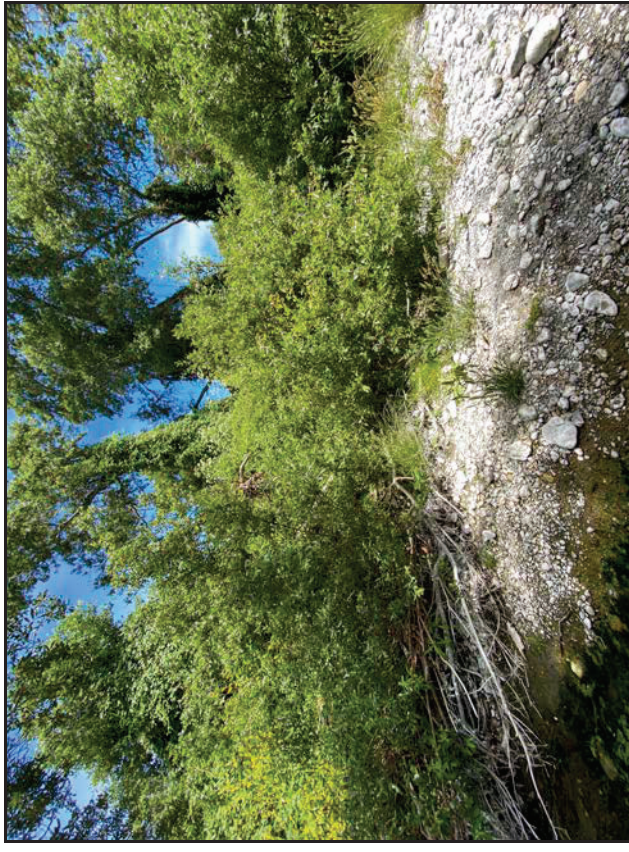
Site 4



Site 4

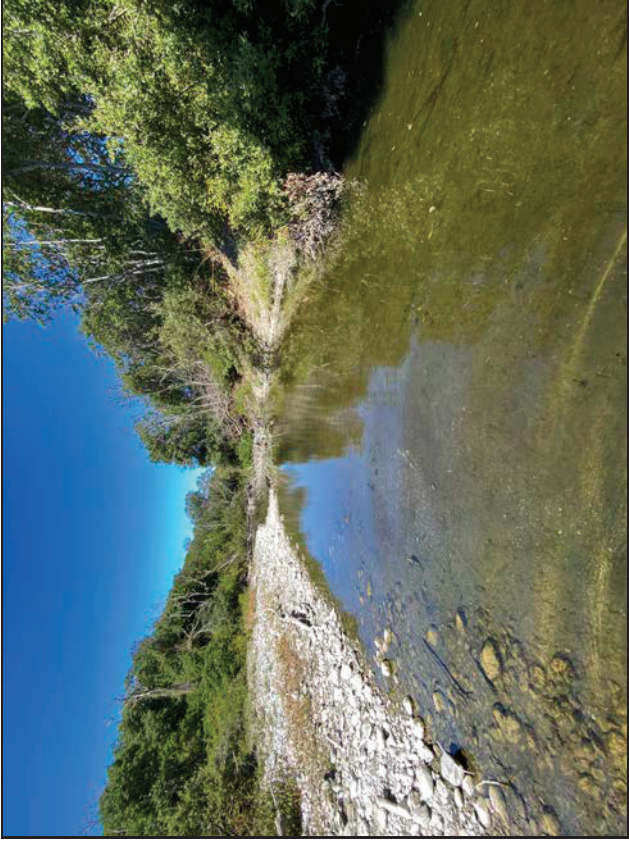


Site 4

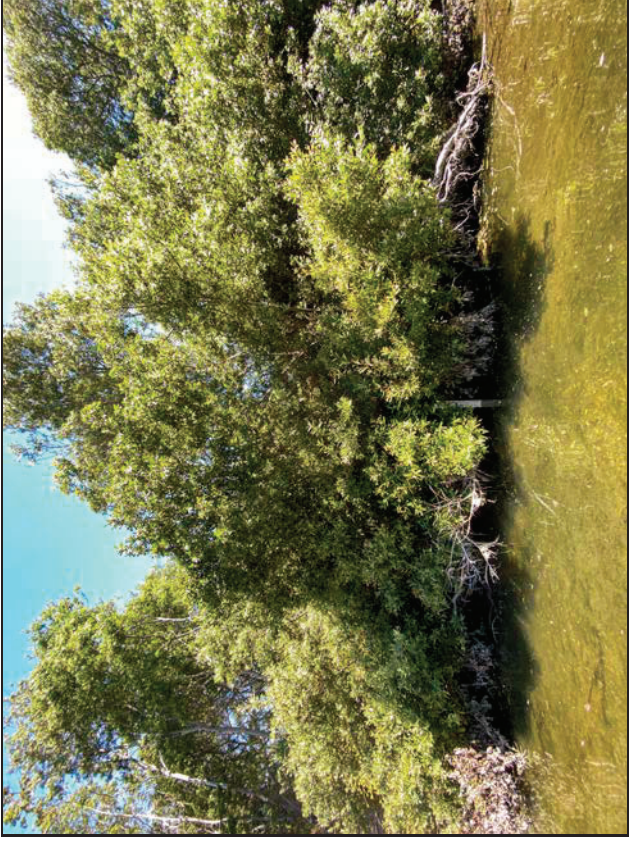


Site 4

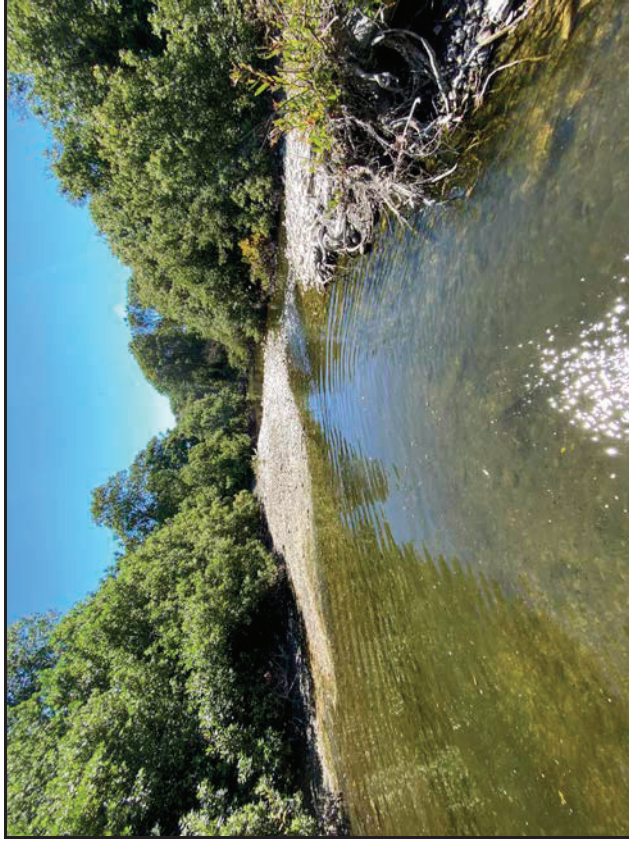
CCSD Monitoring July 5, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring July 5, 2021



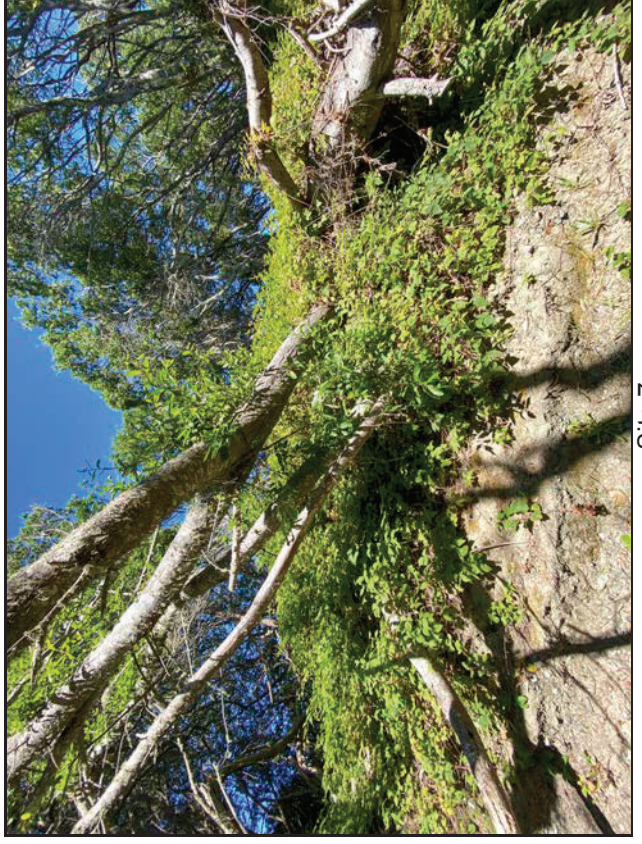
Site 7



Site 7



Site 7



Site 7

CCSD Monitoring July 5, 2021



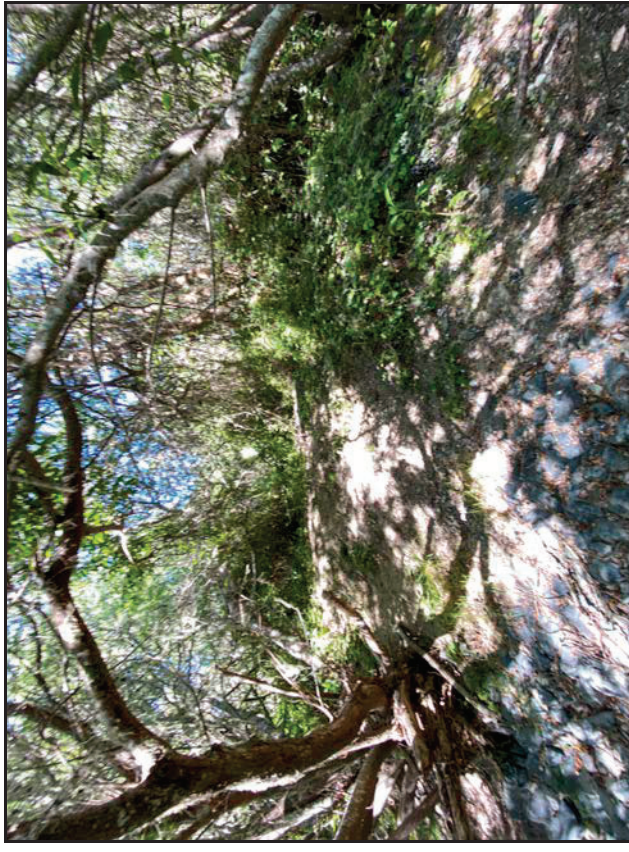
Site 8



Site 8



Site 8



Site 8

CCSD Monitoring July 5, 2021



9P7 Well

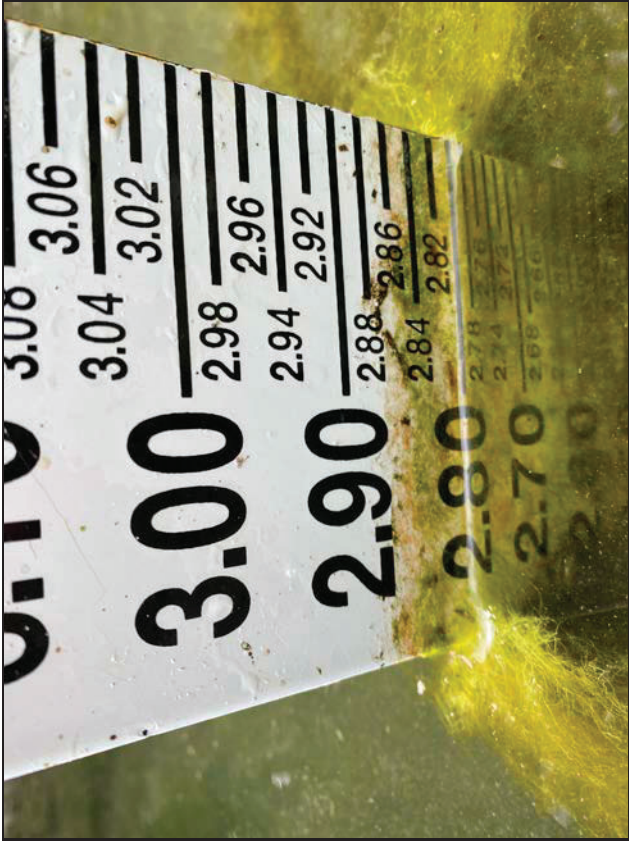


Walking Bridge PS-1

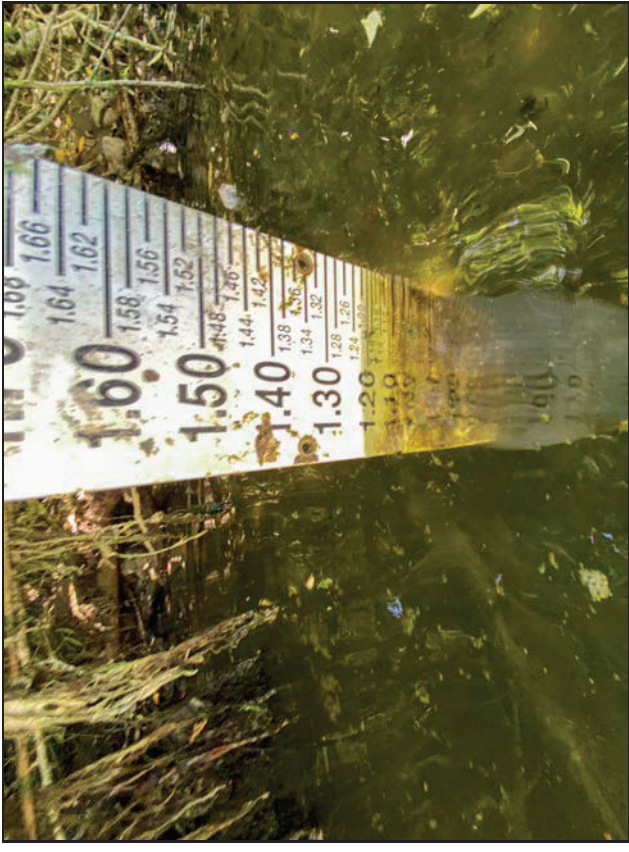


Estuary PS-2

CCSD Monitoring July 5, 2021

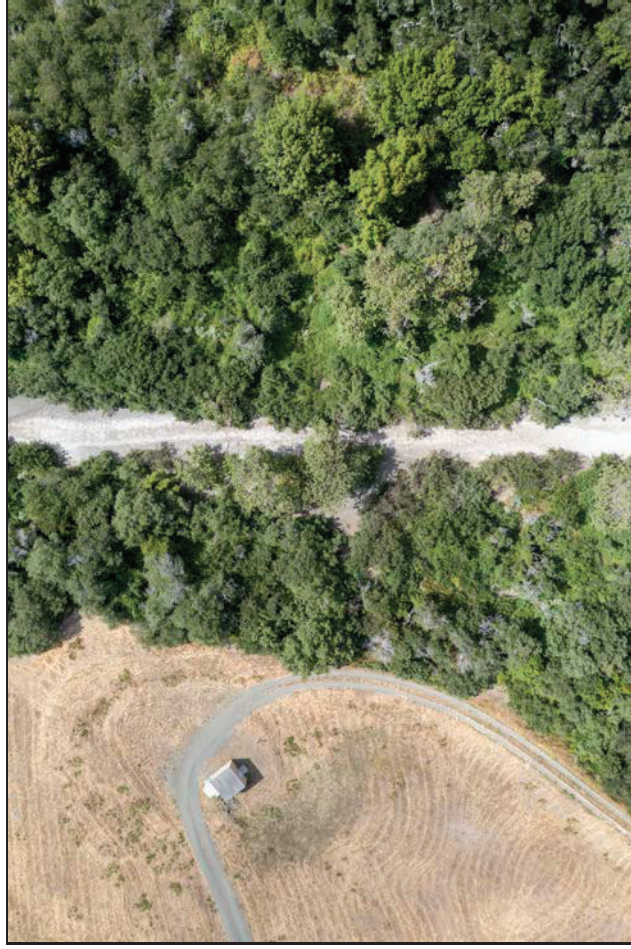


Site 4 Guage



Site 5 Guage

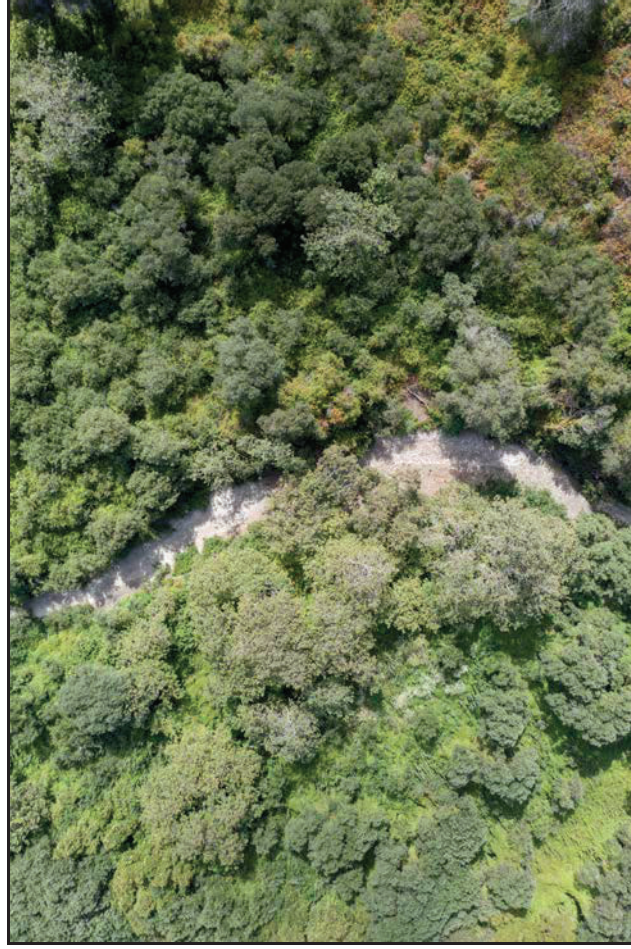
CCSD Monitoring July 5, 2021



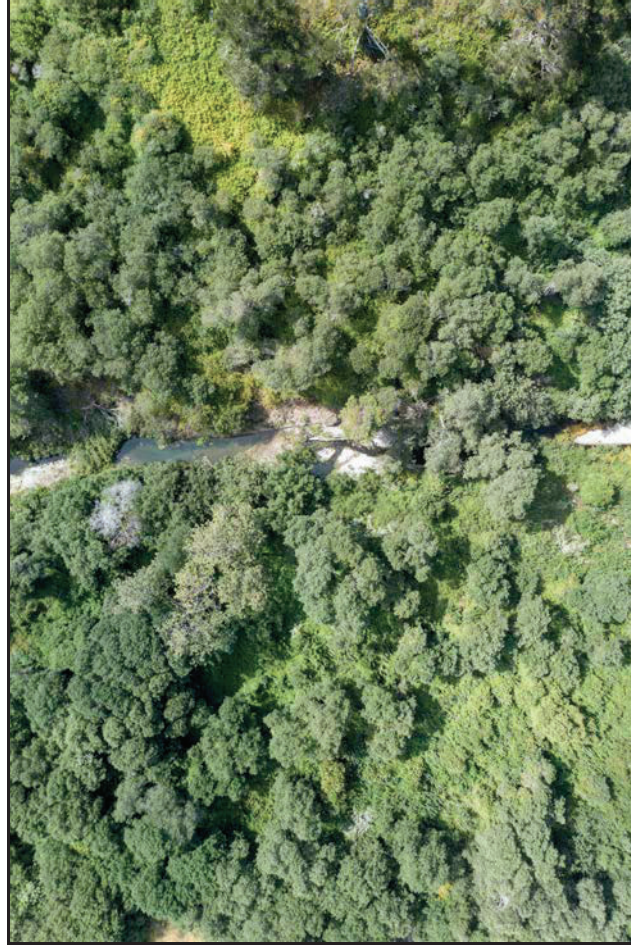
Site 1 Aerial



Site 2 Aerial

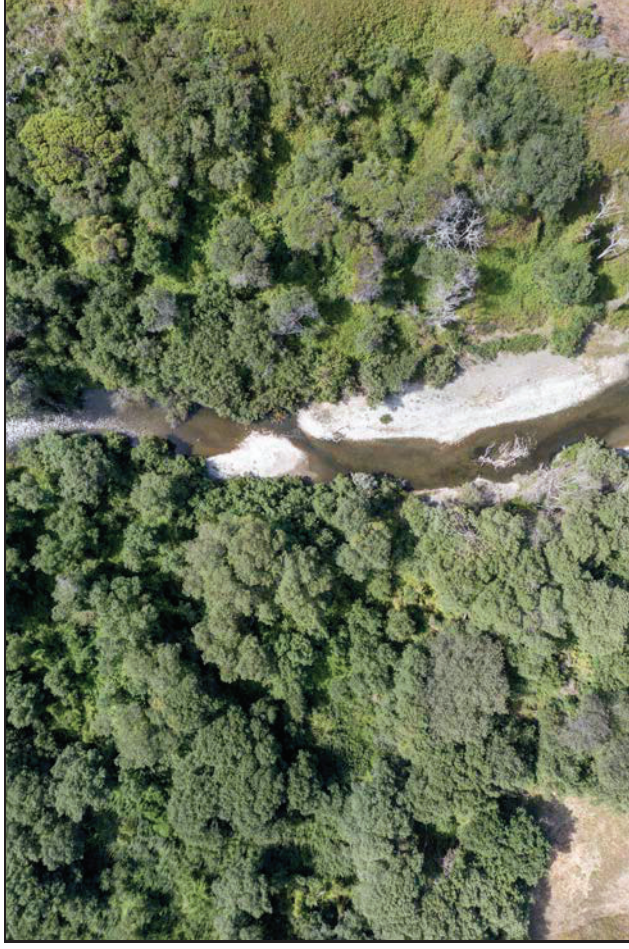


Site 3 Aerial



Site 4 Aerial

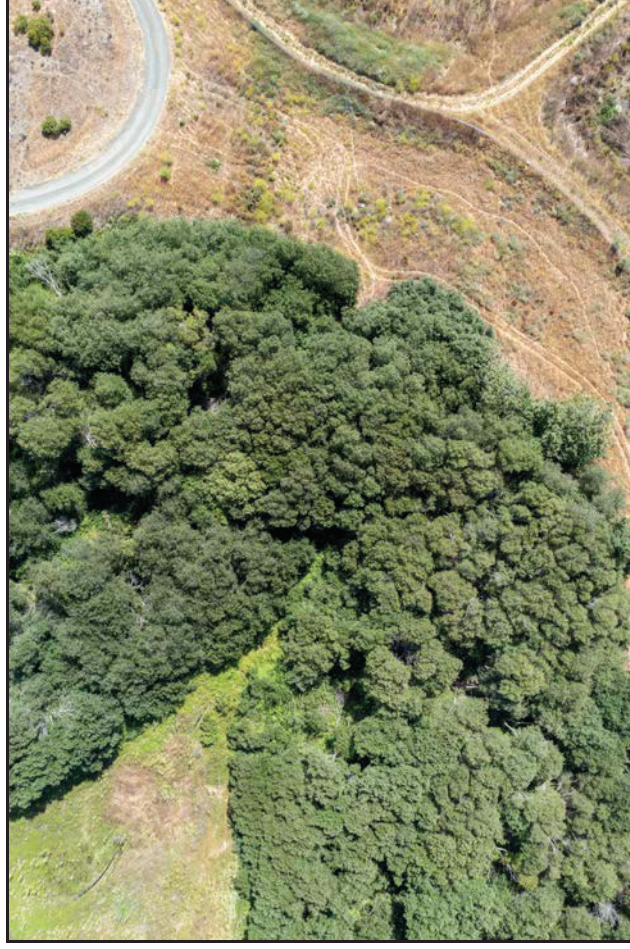
CCSD Monitoring July 5, 2021



Site 5 Aerial



Site 7 Aerial

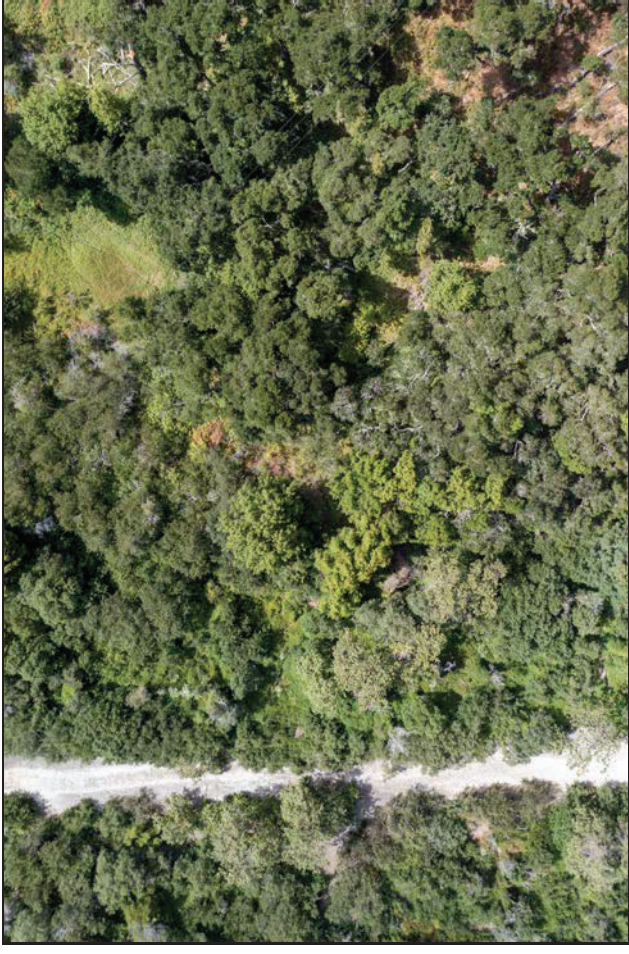


Site 8 Aerial

CCSD Monitoring July 5, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

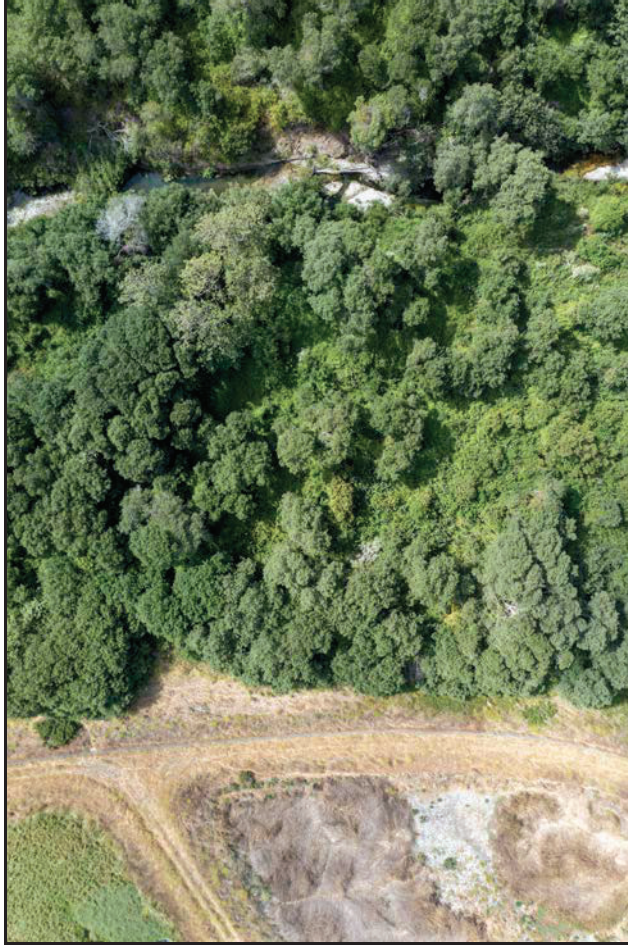
CCSD Monitoring July 5, 2021



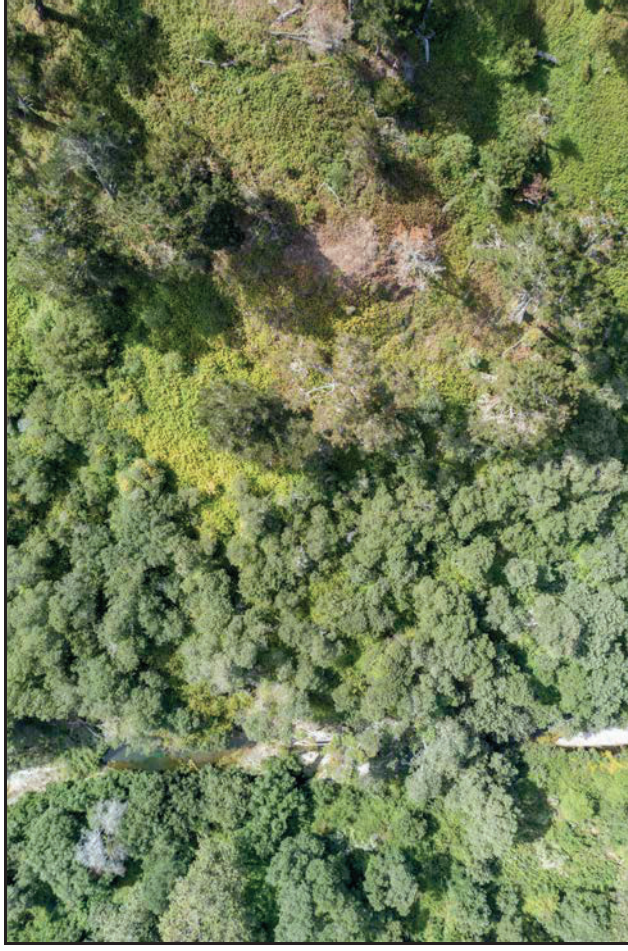
Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left

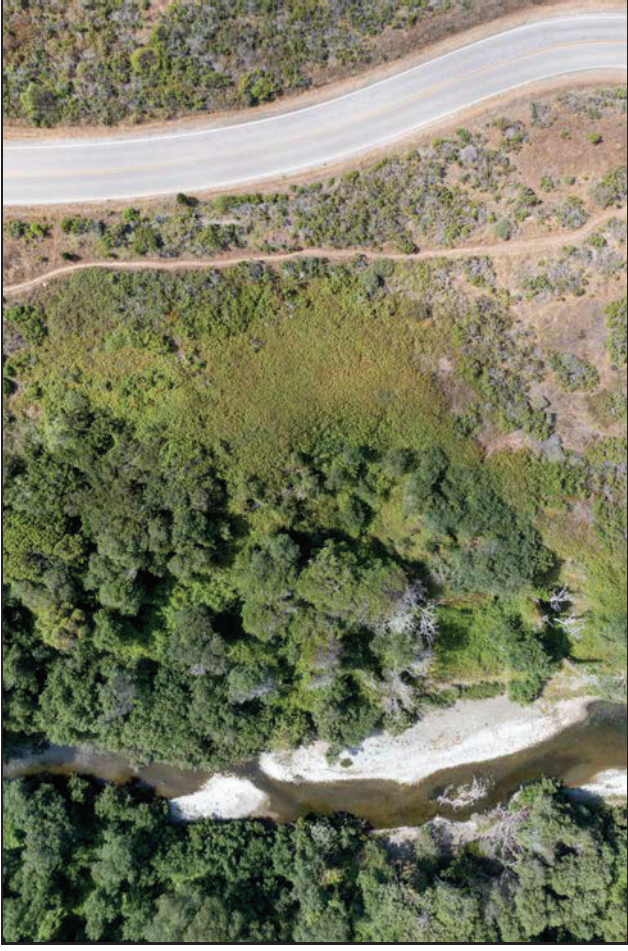


Site 4 Riparian Right

CCSD Monitoring July 5, 2021



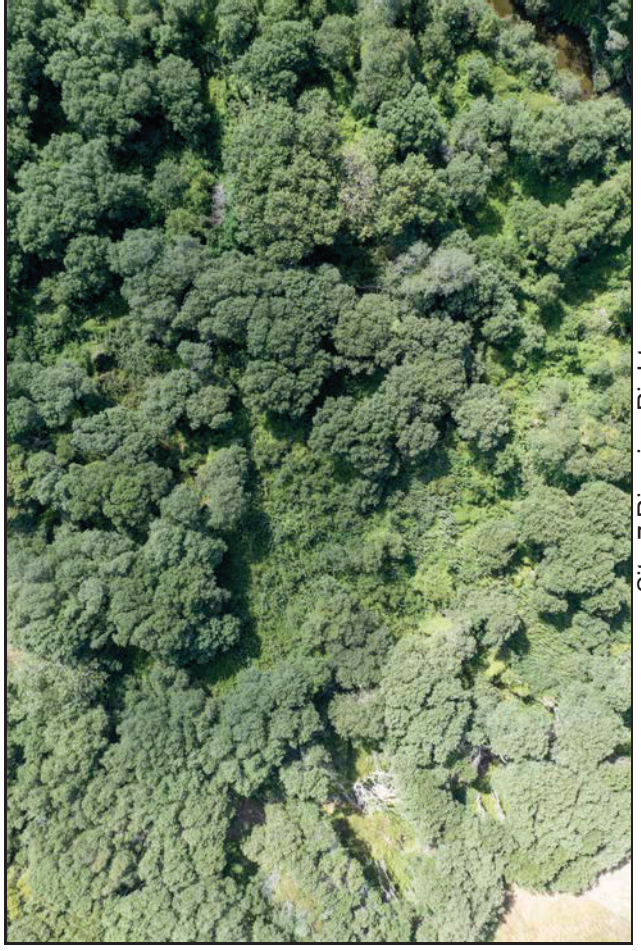
Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring July 5, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

July 18, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



Cleveland Biological, LLC		CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks				
Cindy & Paul Cleveland						
Survey Date: 7-18-2021		High Tide: 3:25 ft @ 5:54 AM	Low Tide: 1:73 ft @ 11:01 AM	Sandbar Breached: No	Stage (718): 2.05	
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>
Time	10:20 AM	10:08 AM	10:01 AM	9:52 AM	9:31 AM	9:12 AM
Weather (°F, Cloud cover)	68, clear	68, clear	68, clear	60, fog	60, fog	60, fog
Habitat						
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c
Substrate embeddedness (%)	100	50	50	75	75	75
Algae Surface (%)	0	0	0	50	0	0
Algae Subsurface (%)	0	0	0	100	100	0
Vegetation						
Instream cover (%)	0	15	15	75	10	0
Overhead cover (%)	10	5	15	100	10	80
Riparian width-Rt Bank (ft)	150	35	210	135	25	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85
Riparian Moisture-Rt Bank (%)	14	8.5	15.1	50	2.9	10.1
Riparian Moisture-Lt Bank (%)	8.3	13.8	0.6	23.2	11.6	0
Hydrology						
Maximum depth (ft)	dry	dry	dry	0.5	1.3	dry
Wetted width (ft)	dry	dry	dry	5.5	26.5	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.5	2.1	dry
Hydrology Calculations						
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.3	0.9	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.5	1	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.3	1.3	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.3	0.8	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.5	21.2	dry
Rate from meter (ft/sec)	dry	dry	dry	0.3	0.1	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	63.4	61.5	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	54.4	40.1	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	5.23	3.9	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	171	937	dry	dry
Salinity (ppt)	dry	dry	dry	0.13	0.73	dry	dry
Water Gauge							
Water Level (ft)				2.8	1.07		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback and prickly sculpin observed from Site 4 to 5. A white-tailed kite has been regularly seen for several surveys.						
Comments	Mostly dry above Site 4. A large willow fell directly onto Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	3.7						
East (%)	0.9						
South (%)	3.5						
West (%)	1.9						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring July 18, 2021



Site 1



Site 1



Site 1



Site 1

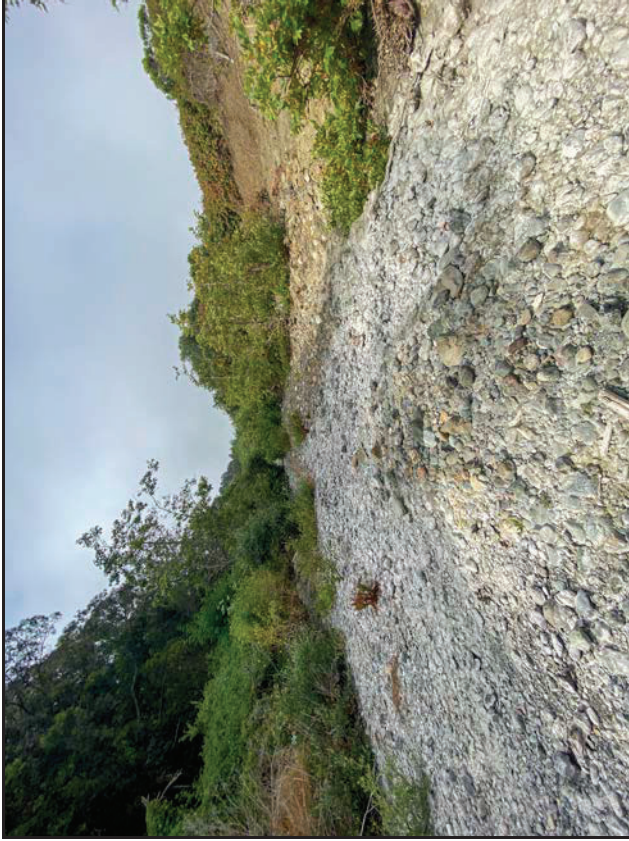
CCSD Monitoring July 18, 2021



Site 2



Site 2



Site 2



Site 2

CCSD Monitoring July 18, 2021



Site 3



Site 3



Site 3



Site 3

CCSD Monitoring July 18, 2021



Site 4



Site 4



Site 4



Site 4

CCSD Monitoring July 18, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring July 18, 2021



Site 7



Site 7



Site 7



Site 7

CCSD Monitoring July 18, 2021



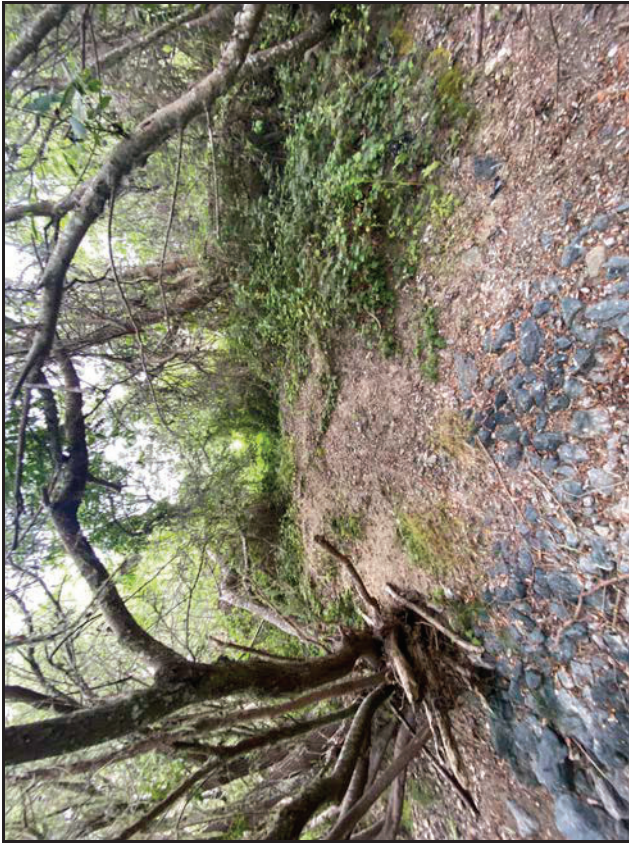
Site 8



Site 8

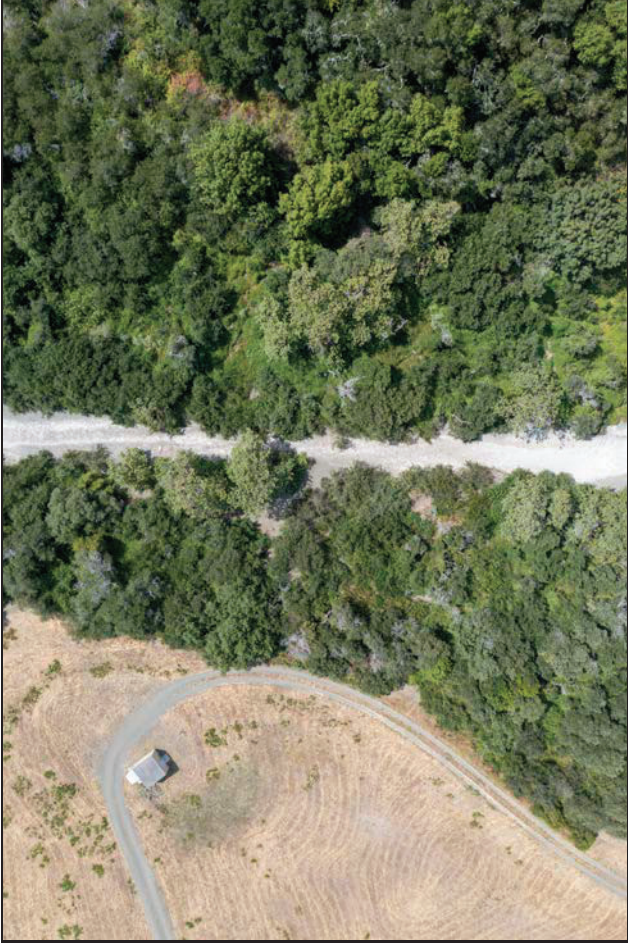


Site 8



Site 8

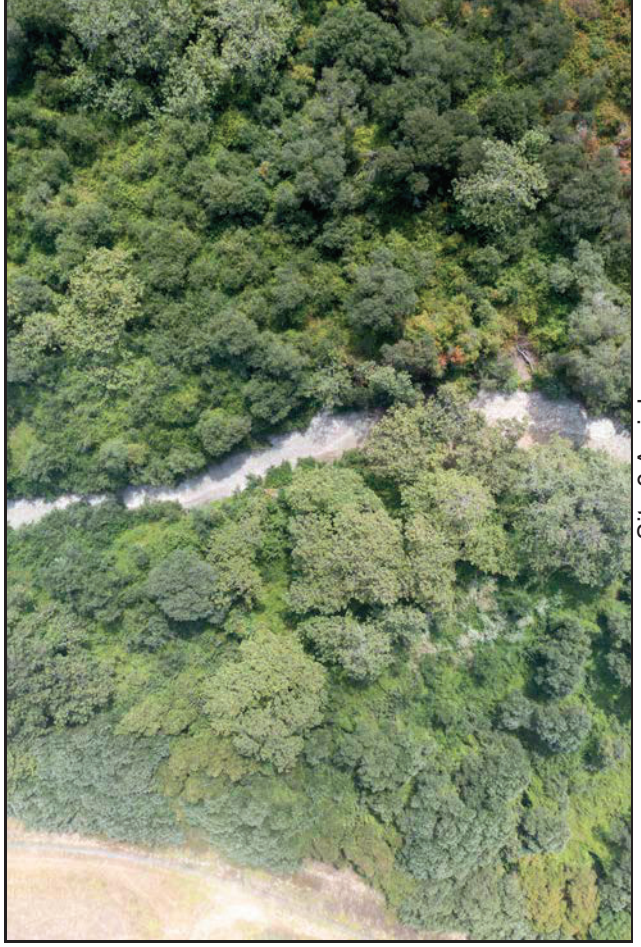
CCSD Monitoring July 18, 2021



Site 1 Aerial



Site 2 Aerial



Site 3 Aerial



Site 4 Aerial

CCSD Monitoring July 18, 2021



Site 5 Aerial



Site 7 Aerial



Site 8 Aerial

CCSD Monitoring July 18, 2021



Site 1 Riparian Left



Site 1 Riparian Right

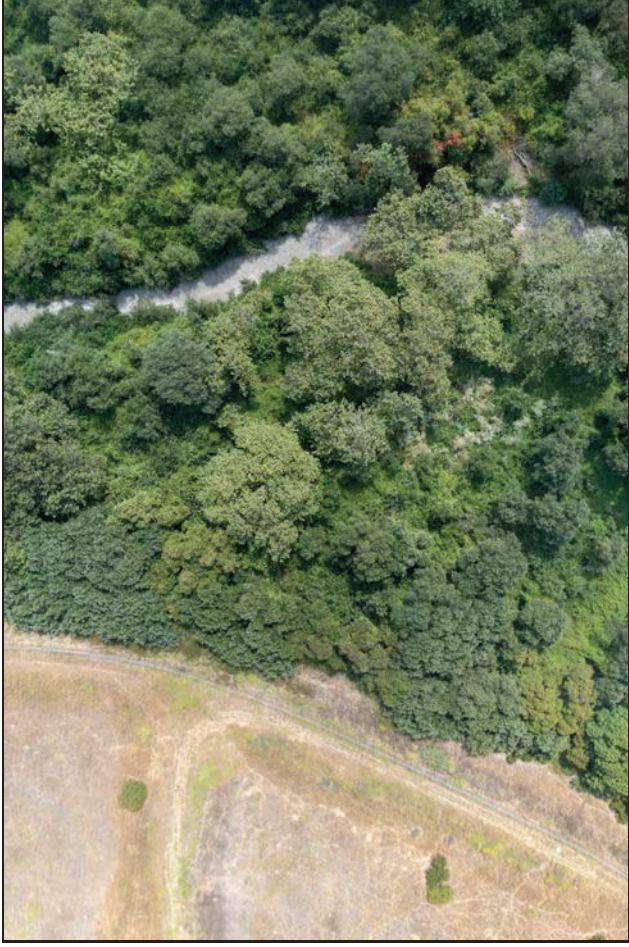


Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring July 18, 2021



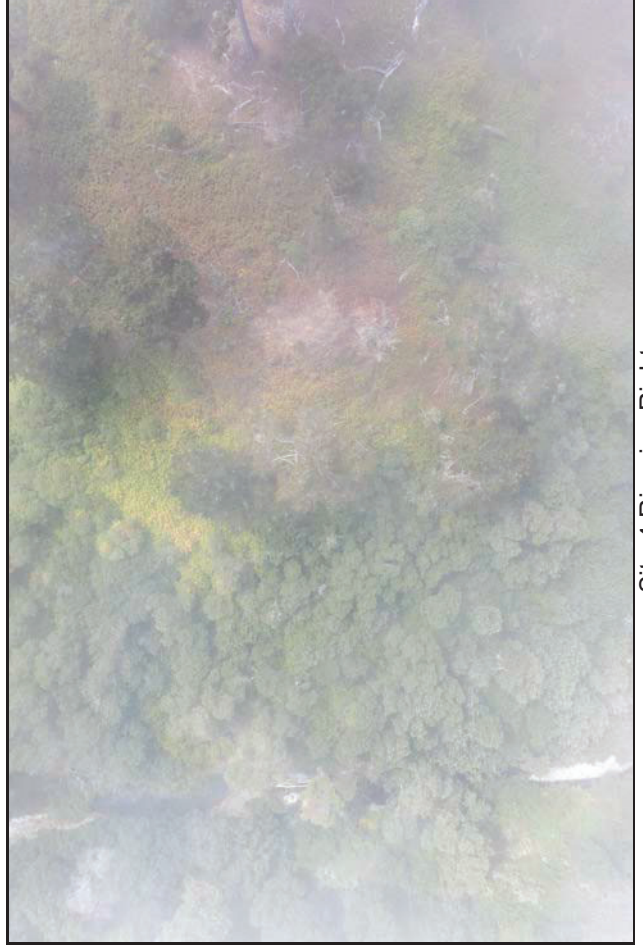
Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left



Site 4 Riparian Right

CCSD Monitoring July 18, 2021



Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring July 18, 2021



Site 8 Riparian Left & Right

Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by


Cleveland Biological, LLC
cindycleve@gmail.com
805.234.3759

July 31, 2021

AMP Monitoring Locations

San Simeon and Van Gordon Creeks

Legend

 Study Sites



Cleveland Biological, LLC	CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks						
Cindy & Paul Cleveland							
Survey Date: 7-31-2021	High Tide: 3.08 ft @ 6:37 AM	Low Tide: 2.49 ft @ 10:56 AM	Sandbar Breached: No	Stage (718): 2.05			
Location	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Time	9:12 AM	8:59 AM	8:49 AM	8:39 AM	8:21 AM	8:07 AM	8:01 AM
Weather (°F, Cloud cover)	64, overcast	62, overcast	62, overcast	62, overcast	62, overcast	60, overcast	62, overcast
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (lwd, swd, etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	swd	c, g	4	c, g	s, c	c	c
Substrate embeddedness (%)	100	50	50	75	75	75	75
Algae Surface (%)	0	0	0	50	50	0	0
Algae Subsurface (%)	0	0	0	100	100	0	0
Vegetation							
Instream cover (%)	0	15	15	75	10	0	0
Overhead cover (%)	10	5	15	100	10	80	90
Riparian width-Rt Bank (ft)	150	35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	220	230	85	85	55
Riparian Moisture-Rt Bank (%)	12.8	2.1	11.6	50	7.3	9.9	12.7
Riparian Moisture-Lt Bank (%)	0	8.7	7.3	21.6	18.5	10.1	10.8
Hydrology							
Maximum depth (ft)	dry	dry	dry	0.5	1.2	dry	dry
Wetted width (ft)	dry	dry	dry	5	25.5	dry	dry
Flow = Area x Rate (cfs)	dry	dry	dry	0.2	2.0	dry	dry
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	dry	dry	dry	0.4	0.9	dry	dry
Depth 2 @ 1/2 (ft)	dry	dry	dry	0.3	1.1	dry	dry
Depth 3 @ 3/4 (ft)	dry	dry	dry	0.2	1.2	dry	dry
Average Depth = total/4 (ft)	dry	dry	dry	0.2	0.8	dry	dry
Area = Width x Avg Depth (ft^2)	dry	dry	dry	1.1	20.4	dry	dry
Rate from meter (ft/sec)	dry	dry	dry	0.2	0.1	dry	dry

	<u>Site 1</u>	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	<u>Site 7*</u>	<u>Site 8</u>
Water Quality							
Temperature (F)	dry	dry	dry	62.8	61.9	dry	dry
Dissolved Oxygen (%)	dry	dry	dry	25.8	41.9	dry	dry
Dissolved Oxygen (ppm)	dry	dry	dry	2.48	4.08	dry	dry
Total Dissolved Solids (mg/L)	dry	dry	dry	723	143	dry	dry
Salinity (ppt)	dry	dry	dry	0.55	0.1	dry	dry
Water Gauge							
Water Level (ft)				2.8	1.03		
Site 4 gauge is in pool approx. 50 m upstream of Site 4 near right bank. Site 5 gauge is at site on left bank.							
Species Observed	Many stickleback observed from Site 4 to 5.						
Comments	Mostly dry above Site 4.						
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP
GPS	35°36'0.23"N 121°6'33.42"W	35°35'57.55"N 121°6'53.39"W	35°35'48.09"N 121°6'54.29"W	35°35'41.88"N 121°7'4.04"W	35°35'40.00"N 121°7'14.25"W	35°35'43.10"N 121°7'13.85"W	35°35'48.06"N 121°7'9.81"W
*Site 6 is on State Parks property and is not accessible at this time.							
9P7 Soil Moisture †							
North (%)	9.2						
East (%)	0						
South (%)	8.2						
West (%)	5.2						
†Moisture measured on each side of well casing. Max reading is 50%.							

CCSD Monitoring July 31, 2021



Site 1



Site 1



Site 1



Site 1

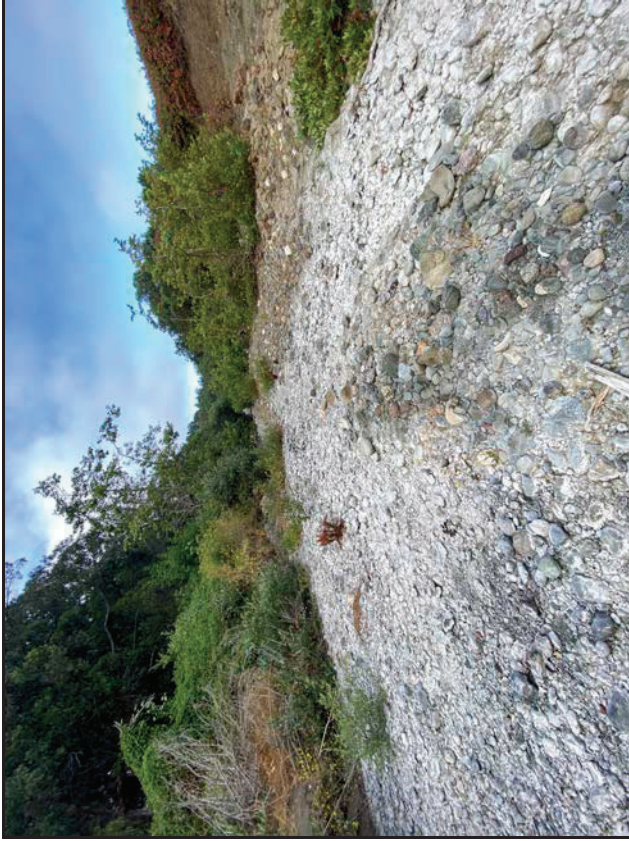
CCSD Monitoring July 31, 2021



Site 2



Site 2



Site 2

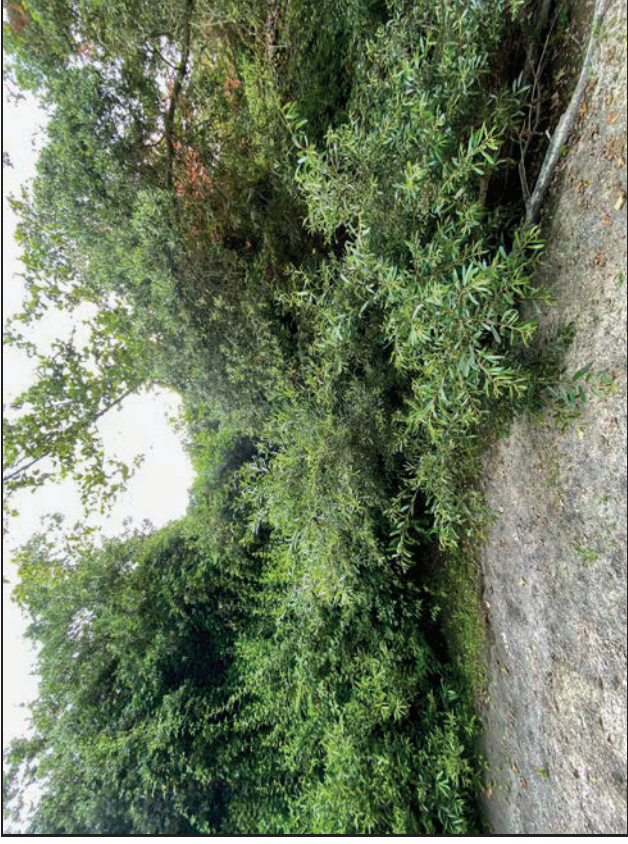


Site 2

CCSD Monitoring July 31, 2021



Site 3



Site 3



Site 3



Site 3

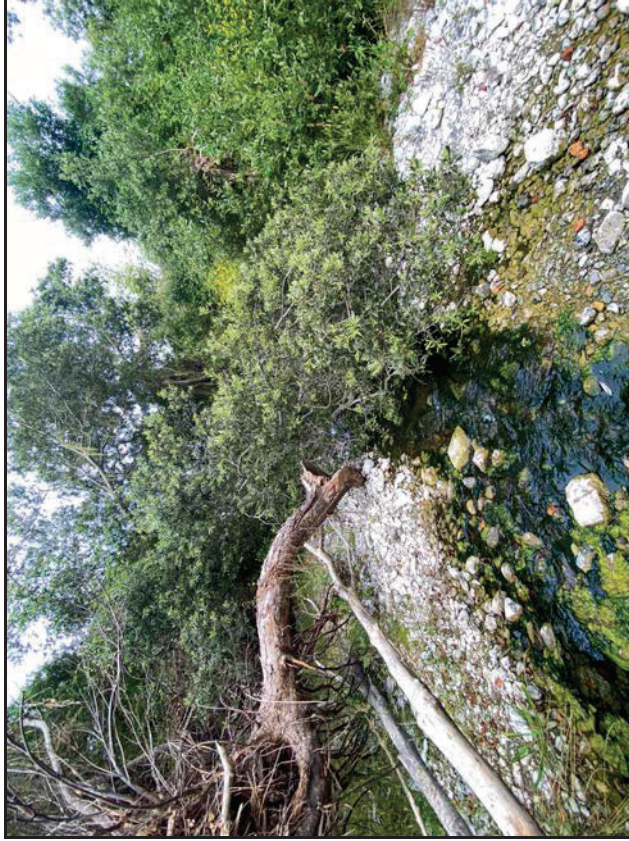
CCSD Monitoring July 31, 2021



Site 4



Site 4



Site 4



Site 4

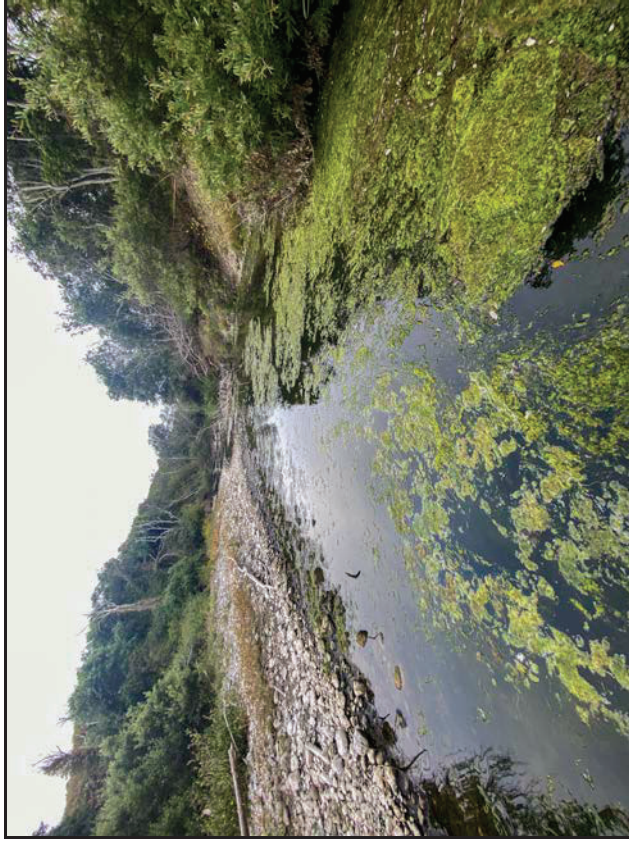
CCSD Monitoring July 31, 2021



Site 5



Site 5



Site 5



Site 5

CCSD Monitoring July 31, 2021



Site 7



Site 7



Site 7



Site 7

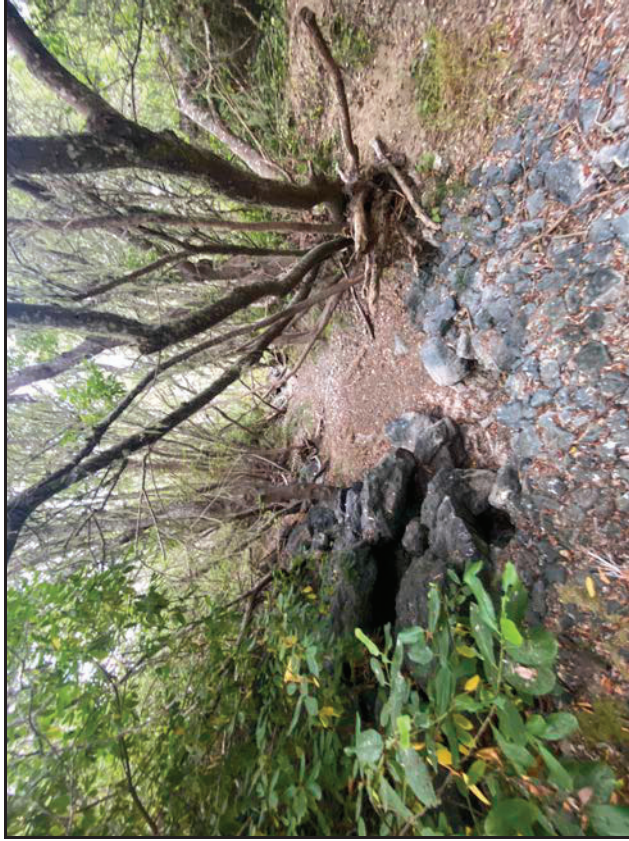
CCSD Monitoring July 31, 2021



Site 8



Site 8



Site 8

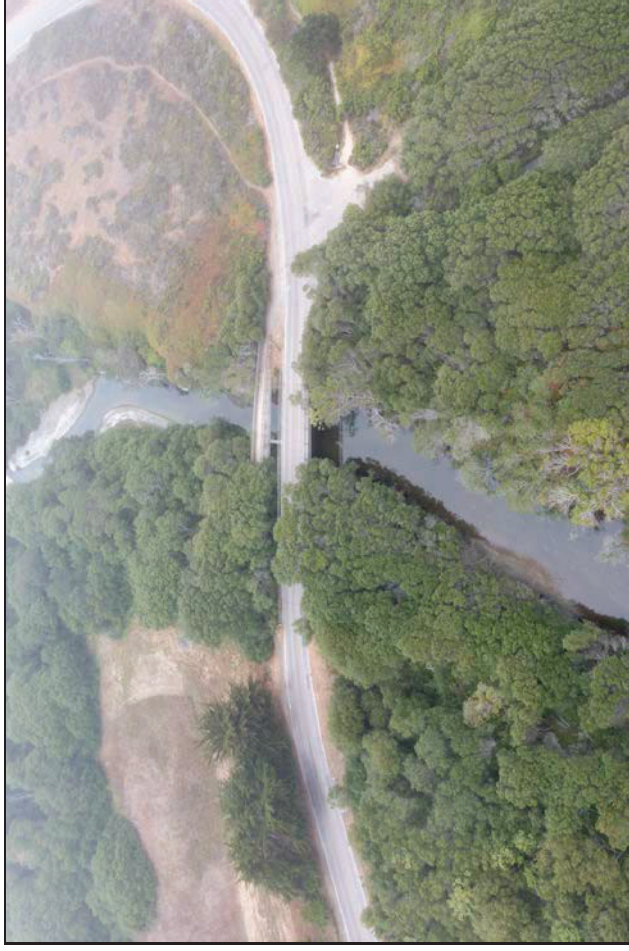


Site 8

CCSD Monitoring July 31, 2021



9P7 Well



Walking Bridge PS-1



Estuary PS-2

CCSD Monitoring July 31, 2021



Site 4 Guage



Site 5 Guage

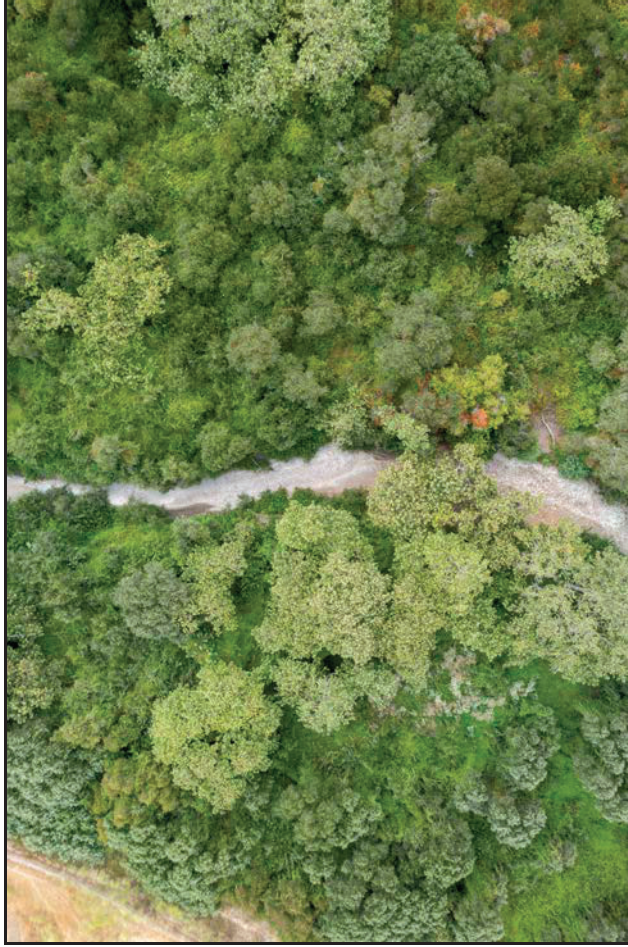
CCSD Monitoring July 31, 2021



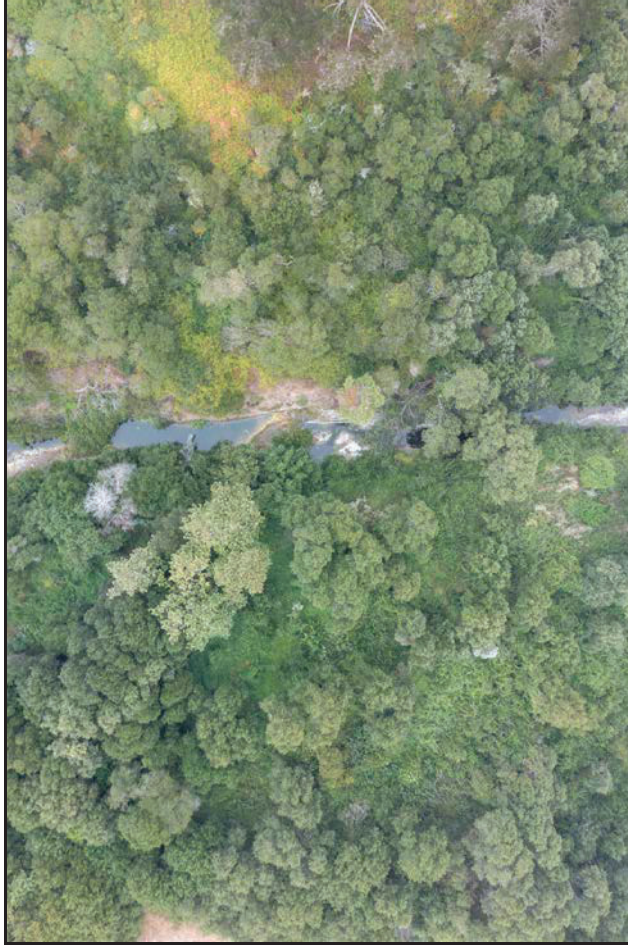
Site 1 Aerial



Site 2 Aerial

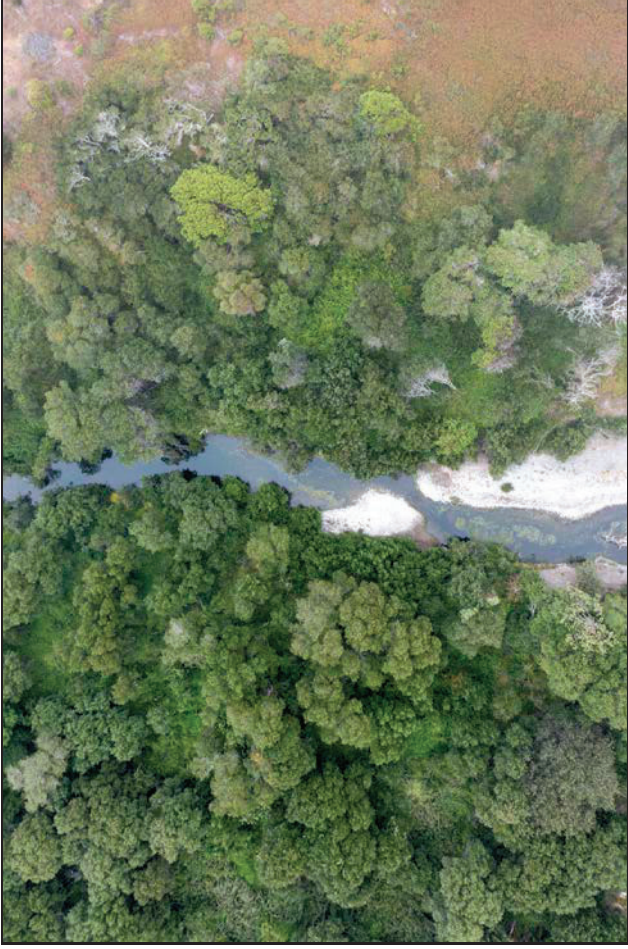


Site 3 Aerial



Site 4 Aerial

CCSD Monitoring July 31, 2021



Site 5 Aerial



Site 7 Aerial



Site 8 Aerial

CCSD Monitoring July 31, 2021



Site 1 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Left



Site 2 Riparian Right

CCSD Monitoring July 31, 2021



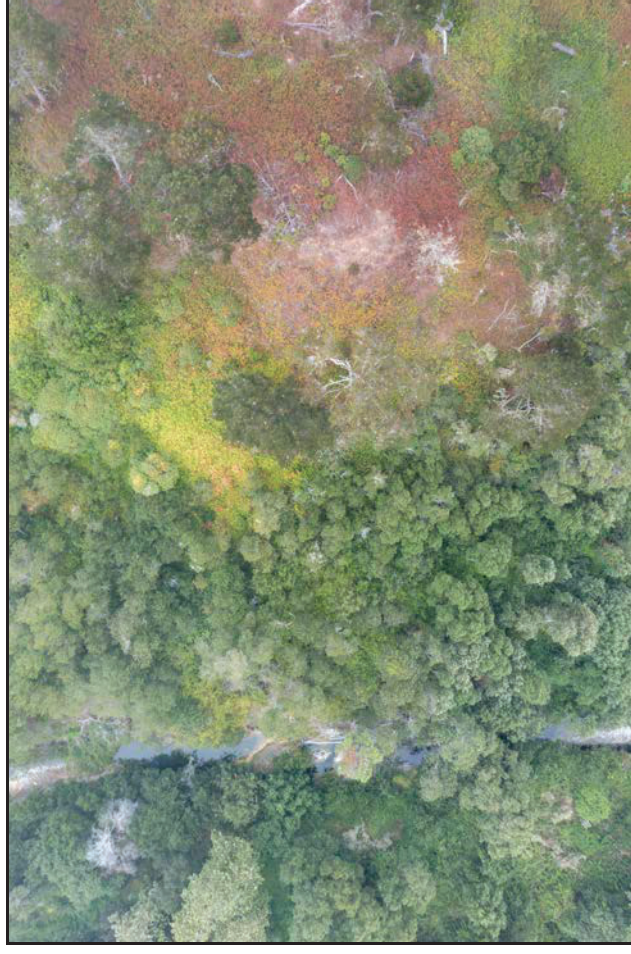
Site 3 Riparian Left



Site 3 Riparian Right



Site 4 Riparian Left

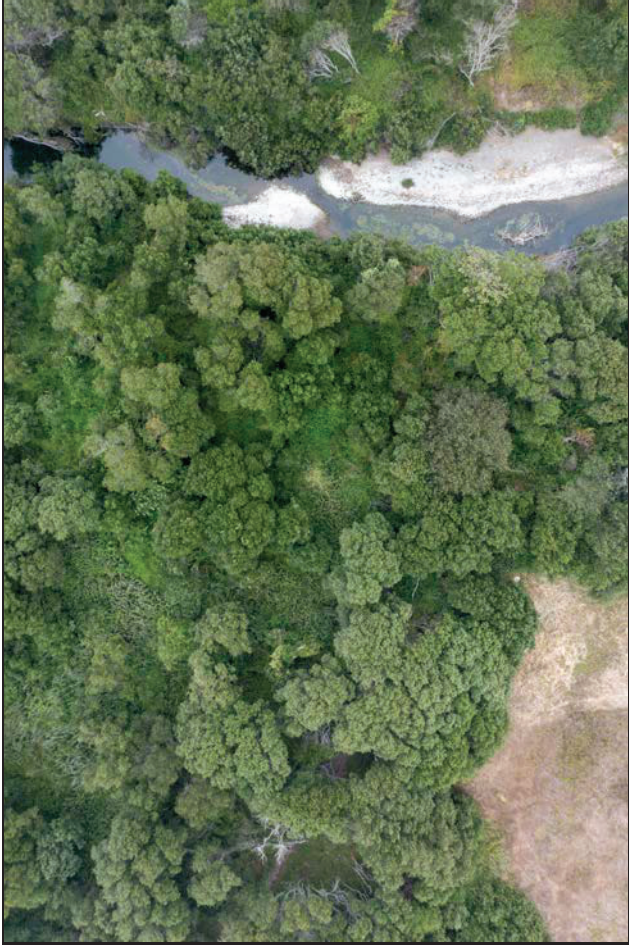


Site 4 Riparian Right

CCSD Monitoring July 31, 2021



Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right

CCSD Monitoring July 31, 2021



Site 8 Riparian Left & Right