

**Table 6. Proposed Herbicides by Active Ingredient**

Active Ingredient	Type	Setback Distance from Potable Water Intake	Typical Application Rate(s)	Water Use Restrictions as indicated on Product Label	Notes
Fluridone	Systemic	No minimum	6-20 ppb	<p>Potable water intakes: do not apply at rate greater than 20 ppb within 1,320 feet (0.25 mile) of any functioning potable water intake.</p> <p>Fishing, Recreation, Livestock/Pet Consumption: No restriction.</p>	<ul style="list-style-type: none"> <li>• Target species: coontail, common elodea, pondweed species, milfoil species</li> <li>• No restrictions on swimming, fishing, livestock watering at <math>\leq</math> 150 ppb</li> <li>• Duration of exposure needed for control: 6-8 weeks</li> </ul>
Triclopyr	Systemic	200 to 2600 feet depending on rate and area treated	0.5 – 2.5 ppm	<p>Potable water intakes: Setback distance based on application rate and acreage treated. 300 feet is minimum distance. See label.</p> <p>Fishing, Recreation, Livestock/Pet Consumption: No restriction.</p>	<ul style="list-style-type: none"> <li>• Targets: milfoil species</li> <li>• Duration of exposure needed for control: 48 – 72 hours</li> </ul>

**Proposed Herbicides by Active Ingredient (cont.)**

Active Ingredient	Type	Setback Distance from Potable Water Intake	Typical Application Rate(s)	Water Use Restrictions as indicated on Product Label	Notes
Endothal	Contact	600 feet	0.75 – 5.0 ppm	Potable water intakes: setback distance from functioning potable water intake must be equal to or greater than 600 feet.  Fishing, Recreation, Livestock/Pet Consumption: No restriction.	<ul style="list-style-type: none"> <li>Target species: broad-leaf plants including curlyleaf pondweed, coontail, Eurasian watermilfoil</li> <li>Duration of exposure needed for control: 24-48 hours</li> </ul>
Imazamox	Systemic	0.25 mile	50 – 500 ppb	Potable water intakes: may be applied to potable water sources up to 500 ppb 0.25 mile from intake.  Fishing, Recreation, Livestock/Pet Consumption: No restriction.	<ul style="list-style-type: none"> <li>Target species: curlyleaf pondweed, Eurasian watermilfoil</li> <li>Coontail less susceptible</li> <li>No restrictions on swimming, fishing, livestock watering</li> <li>Duration of exposure needed for control: 2 – 4 weeks</li> </ul>
Penoxsulam	Systemic	No restrictions listed on label	5 – 200 ppb	Potable water intakes: Setback distance is greater than or equal to 600 feet.  Fishing, Recreation, Livestock/Pet Consumption: No restriction.	<ul style="list-style-type: none"> <li>Target species controlled: Eurasian watermilfoil, curlyleaf pondweed</li> <li>Duration of exposure needed for control: 2 – 4 weeks</li> </ul>

**Table 8. Summary of Proposed Methods by Year, Area, and Site**

Control Method: Summary by Acreage		2016	2017	2018	2019	2020
Harvesting (Hv)		132	122	70.3	34.2	27
Bottom Barriers (B)*		4.9	1.9	0.5	0.5	0
Diver-Assisted Suction Removal (D)		4.2	3.2	0	2.2	0
Herbicide (He) or Herbicide with Impermeable barrier ( He-IP)		0	38.9	47.4	79.7	44.7
Control Method: Summary by Site, Size in Acres		2016	2017	2018	2019	2020
1	6.3	Hv	Hv	He	-	He
1a	0.6	Hv	Hv	-	-	He
1b	0.6	Hv	He	-	-	
1c	0.6	Hv	He	-	-	He
2	0.5	B	-	B	B	
3	0.28	B	B	He	-	He
4	0.75	Hv	Hv	He-IP	-	He IP
5	2.75	D, B (D = 1 acre; B = 1.75 acre)	Hv	Hv	He, IP	
6	4.0	Hv	Hv	Hv	Hv	Hv
7	8.7	Hv	Hv	He		He
8	19.23	Hv	Hv	Hv	He	
9	1.5	D	He		He	
10	20.3	-	Hv	He-IP	-	He- IP
10a	2.82	-	Hv	He-IP	-	He- IP
10b	1.0	D	D	He-IP	-	He- IP
11	23.0	Hv	Hv	Hv	Hv	Hv
12	7.19	Hv	Hv	Hv	He- IP	
12a	0.75	B	He-IP		He- IP	
13	3.17	Hv	Hv	He	-	
14	3.0	Hv	Hv	Hv	He	

**Summary of Proposed Methods Implemented by Year, Total Area, and Site (con't.)**

Control Method: Summary by Site, Size in Acres		2016	2017	2018	2019	2020
15	3.0	Hv	He		He	
16	2.75	Hv	He		He	
17	2.33	Hv	He	-	He	-
18	2.6	Hv	He	-	He	-
19	2.12	Hv	Hv	Hv	Hv	-
20	3.39	Hv	Hv	Hv	Hv	-
21	1.49	Hv	He-IP	-	He	-
22	1.66	Hv	Hv	Hv	Hv	-
23	1.3	Hv	Hv	He IP	-	He- IP
24	1.14	Hv	Hv	He	-	He
25	0.68	B	B	He	-	He
26	0.20	B	B	He	-	He
27	2.76	Hv	He	-	He	-
27a	0.3	D	He	-	He	-
27b	0.35	D	He	-	He	-
28	5.8	Hv	Hv	-	He- IP	-
29	4.0	Hv	Hv	Hv	He- IP	-
30	3.31	Hv	He	-	He	-
31	2.27	Hv	He	-	He	-
32	3.91	Hv	He	-	He	-
33	3.72	Hv	He	-	He	-
34	6.67	Hv	He	-	He	-
35	0.75	B	B	He-IP		-
36	1.17		D	-	D	-
37	1.02		D	-	D	-

**Key:**

B = Bottom barrier | D = Diver-assisted suction removal | He = Herbicide (Approved) | IP = Impermeable partition installed (e.g. polyethylene or PVC material) | Hv = Harvester

*Note: Actual use of any method will depend on (1) results of current year's Plant Survey (2) Lake Tahoe water level and seasonal conditions; and (3) evaluation of previous year's work implementing the IWMP. Yearly adjustments will be made to management schedules and procedures through the Adaptive Management protocols of the IWMP to optimize effectiveness and environmental protection.*

Figures 19 through 23 show the locations of the proposed aquatic plant control methods throughout the Tahoe Keys lagoons by year from 2016 to 2020.

### Summary

Adaptive Management is an important element of the Plan. As refinement and optimization of feasible methods are developed, adjustments will be made to insure that the most effective methods are used. Potential new or improved technologies for control and monitoring will be evaluated as they are identified.

Once all aquatic plant management methods have been optimized for the Tahoe Keys lagoons, the TKPOA will be able to fully integrate all feasible control methods for aquatic plant control. Full implementation will include additional detailed monitoring and evaluation to develop a final program for control that can be continued through 2020. Depending on the response to management approaches deployed, an update of the Plan may be necessary to address changed conditions such as overall lake water level, temperature profiles, aquatic plant distribution and abundance. Such adjustments are necessary and are an essential strategy of a successful management program.

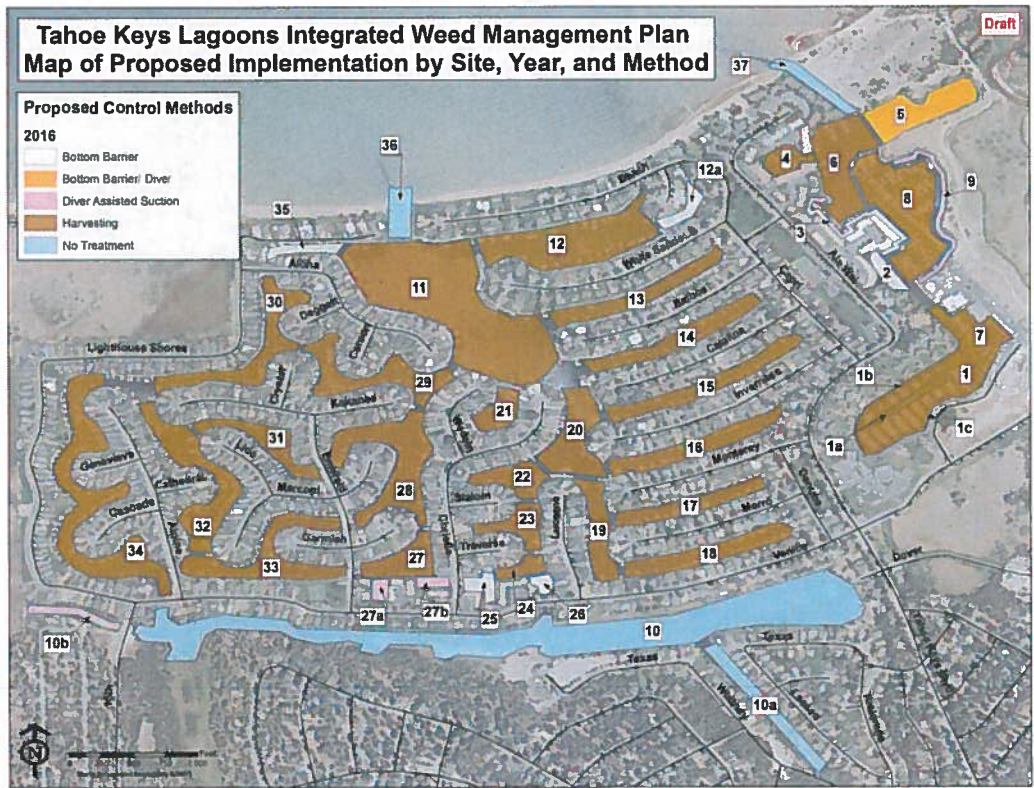


Figure 16. Proposed Aquatic Plant Control Methods, 2016, Tahoe Keys Lagoons, Overall

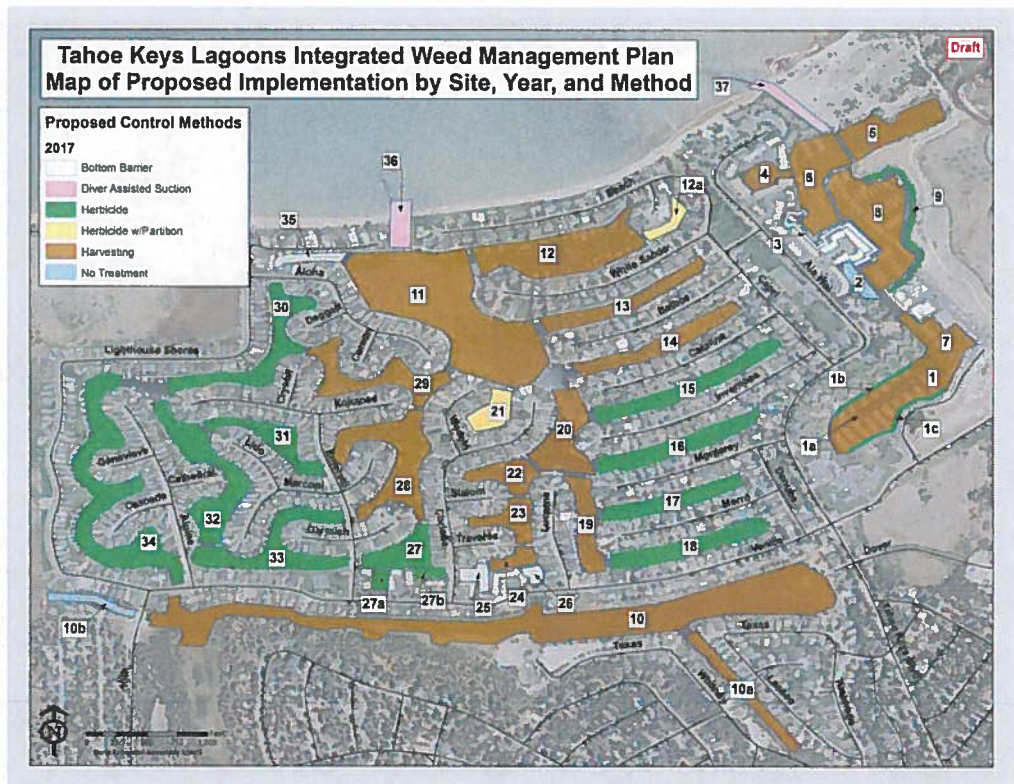


Figure 17. Proposed Aquatic Plant Control Methods, 2017, Tahoe Keys lagoons, Overall



**Figure 18. Proposed Aquatic Plant Control Methods, 2018, Tahoe Keys Lagoons, Overall**



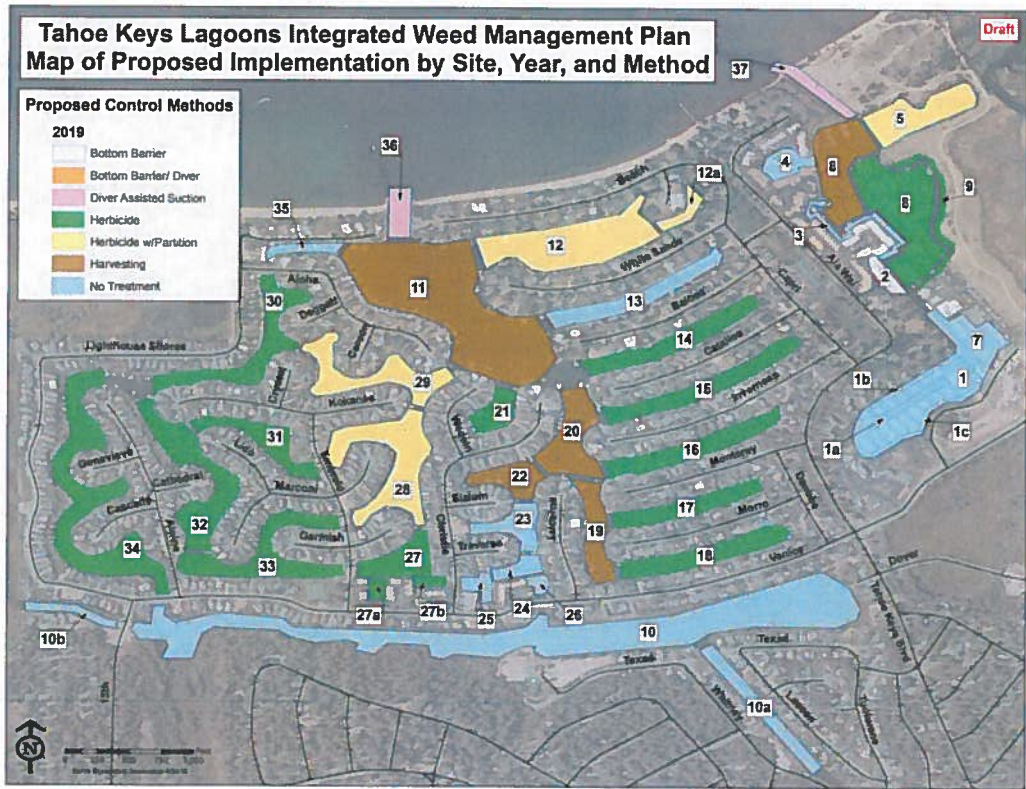
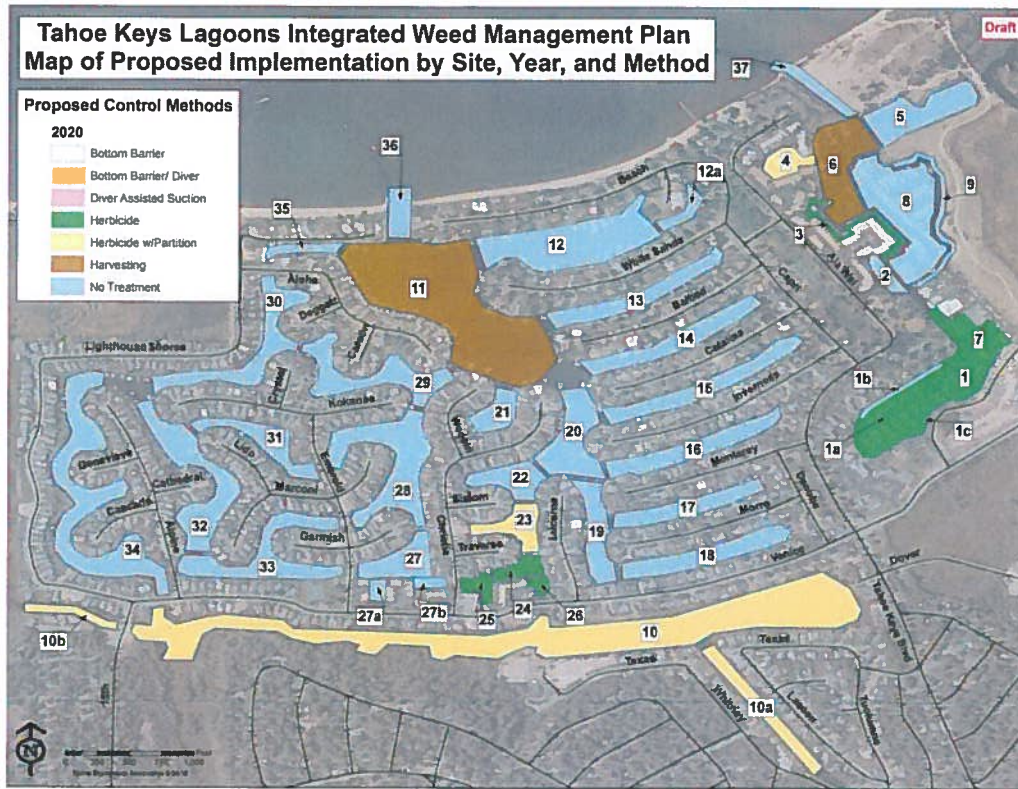


Figure 19. Proposed Aquatic Plant Control Methods, 2019, Tahoe Keys Lagoons, Overall



**Figure 20. Proposed Aquatic Plant Control Methods, 2020, Tahoe Keys Lagoons, Overall**