

# OKSTAR MARINAS

## GOAL IMPROVEMENT WORKBOOK

OKStar Marinas is a special sector initiative of the OKStar Incentive Program (OKStar) in partnership with the Oklahoma Marina Association (<http://oklahomamarinas.org/>). This means that all Oklahoma Clean Marinas may receive not only the benefits of the Clean Marina Program, but also the benefits of being a Gold Level OKStar participant. Like Clean Marinas, participation in OKStar Marinas is voluntary. It is also easy with assistance readily available from the Pollution Prevention Program.

- Step 1. Complete the Clean Marina pledge form**
- Step 2. Complete the Clean Marina Checklist**
- Step 3. Select One Environmental Performance Goal (EPG)**

In order to be recognized as a Gold Level OKStar Marina you must adopt one or more environmental improvement goals. This section is designed to make it easy for you to select a type of goal and determine the level of performance you would like to achieve. You are not limited to the goals described. If you are interested in another type of goal, contact the Pollution Prevention Program Manager at [ppwrcy@deq.ok.gov](mailto:ppwrcy@deq.ok.gov) to discuss your idea.

### Possible Goals *(select at least one)*

- A. Recycling/Reducing Solid Waste
- B. Reducing Nonpoint Source Pollution
- C. Increasing Environmentally Preferable Purchasing
- D. Conserving Water
- E. Conserving Energy/Using Renewable Energy Sources
- F. Conserving or Creating Habitat

The following sections discuss each of the possible goals listed. Included in each section is a worksheet for you to complete if you select that particular goal. There is also an example worksheet to help you understand how to fill out the goal worksheet. The example worksheet includes many suggested activities. You can do one or more of these activities or you can select others more appropriate to your situation.

NOTE: The start year for your goal is the start year for your recognition period. If this is the first time you are being recognized as an OKStar Marina, this would be the first year of your recognition. For example, if you are being recognized for the first time in 2013, then the start year would be 2013. If you are seeking an extended period of recognition, this would be the first year of the new period. For example, if you were first certified in 2010 and you are reapplying in 2013, then the start year would be 2013.

## **A. Solid Waste/Recycling**

Solid waste includes things like paper or plastic as well as things like used oil or old paint. There are many ways to reduce the amount of solid waste you generate.

1. Source Reduction— *this means—don't buy it if you don't need it.* For example, you need three gallons of paint but you buy the five gallon bucket of paint because it is cheaper per gallon than the individual gallons. You will now you have two gallons of paint you don't need. What are you going to do with it? You could store it in case you might need it eventually. How many cans of paint do you have sitting around just like that? What about other things that you bought more of than you needed just in case? There are environmental consequences associated with manufacturing and transporting all of these items. The more that we buy "just in case," the more has to be manufactured and transported and pollution is created just to get the item to the store shelf for you to buy. Why spend money on something you don't need? Reduce at the source to prevent pollution and save money.
2. Recycle — paper, plastic, glass, cardboard, and tin and aluminum cans are all candidates for recycling. Around a marina items such as batteries, oils, lubricants, and scrap metals may also be candidates.

- Compost — vegetative food waste like potato peels and old lettuce leaves can go into a compost pile along with landscape trimmings. Not only do you reduce solid waste, you get back a rich organic fertilizer that will benefit your landscape in many ways.

### Solid Waste Worksheet

<b>Indicator</b>	Amount of solid waste disposed		
<b>Unit of measurement</b>	pounds		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends – 3 yrs)</b>	
<b>Amount of solid waste disposed in the 12 months prior to your certification date</b>	pounds	<b>Amount of solid waste you will be disposing of by the end of your third year</b>	pounds
<b>What activities do you plan to undertake to achieve your goal?</b>			

### Example Solid Waste Worksheet

<b>Indicator</b>	Amount of solid waste disposed		
<b>Units</b>	Pounds (lb)		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends – 3 yrs)</b>	2016
<b>Amount of solid waste disposed in the twelve months prior to your certification date</b>	10,000 lb	<b>Amount of solid waste you will be disposing of by the end of your third year</b>	6,000 lb

<p><b>What activities do you plan to undertake to achieve your goal?</b></p>	<ol style="list-style-type: none"> <li>1. Institute recycling programs for one or more of the following: paper, plastic, glass, metals, plastics, aluminum and tin cans, used oil and lubricants, and lead-acid batteries</li> <li>2. Institute a buy-only-what-you-need purchasing policy</li> <li>3. Start composting all restaurant vegetative waste along with all landscape and yard trimmings</li> <li>4. Install a pet waste collection station to provide bags for dog owners to pick up their dog's waste and dispose of it properly (this is good for preventing nonpoint source pollution as well)</li> <li>5. Install a fish cleaning station so that waste is not disposed of in the water</li> </ol>
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Resources

EPA Waste Wise — <http://www.epa.gov/wastewise/>

OK Recyclers — find a recycler <http://www.deq.state.ok.us/lpdnew/Recyclingindex.htm>

RENEW — is a marketing channel for industries, businesses, and governmental units that want to sell surplus materials, by-products, and wastes to users who will reclaim or reuse them.

<http://www.zerowastenetwork.org/renewdev/index.cfm?Page=relatedlinks>

Freecycle — the worldwide Freecycle Network is made up of many individual groups across the globe that are giving (& getting) stuff for free in their own towns. <http://www.freecycle.org/group/US/Oklahoma>

**B. Nonpoint Source Pollution**

Nonpoint Source Pollution (NPSP) is pollution that cannot be attributed to a specific source such as a treated sewage effluent discharge pipe that empties into a creek, river, or lake. NPSP is the pollution that results when rain runs across parking lots or off farm fields or city yards carrying with it the oil or transmission fluid that dripped onto the lot from parked cars or the excess fertilizer, pesticides, or herbicides that were applied to fields or yards.

If your marina has a parking lot, you are contributing to NPSP each time rain runs off your parking lot into the water. If you have landscaping to which you apply any fertilizer, herbicides, or pesticides, you could be creating NPSP there as well. The chemistry of NPSP and its effect on aquatic habitats is complex. It can kill fish and other aquatic organisms, create algae blooms, and increase the growth rate of aquatic plants such as duckweed and hydrilla. None of these results are desirable so reducing NPSP is an important activity for all marinas.

The OKStar program has several different ways to measure NPSP. This is because there are several different actions a marina can take to reduce NPSP.

To prevent or reduce the amount of NPSP coming from parking lots it is important to install a vegetative barrier like a lawn or flowerbed between the parking lot and the water body. This is measured in square feet of barrier installed.

To reduce the amount of NPSP from landscaping, it is important to reduce the amount and toxicity of the fertilizers, herbicides, and pesticides used or to prevent rain water from running off the landscaping into the water body. The amount of fertilizers, herbicides, and pesticides is measured in pounds. A reduction in pounds can come from two different strategies. First using the same chemicals but using less of them or using the same amount of chemicals but switching to a less toxic variety. Preventing run-off can be done by installing berms or ponds which prevent the run-off from going into the water body. Berms are measured in linear feet installed.

Ponds are measured in cubic feet of capacity installed. Berms and ponds do not have to be large. Instead of one big one, you can install many smaller ones hidden in an attractive landscape of lawns and flowerbeds. Each one you install counts toward your total.

Which of the activities you choose to reduce NPSP will determine how you measure it. You can choose one or more of the activities.

NPSP Worksheet for vegetative barrier to prevent run-off from a parking lot

<b>Indicator</b>	Amount of vegetative barrier installed		
<b>Unit of measurement</b>	Square feet (ft <sup>2</sup> )		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of vegetative barrier present prior to OKStar participation</b>	ft <sup>2</sup>	<b>Amount of vegetative barrier you plan to have installed by the end of your third year</b>	ft <sup>2</sup>
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example NPSP Worksheet for vegetative barrier to prevent run-off from a parking lot

<b>Indicator</b>	Amount of vegetative barrier installed		
<b>Units</b>	Square feet (ft <sup>2</sup> )		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of vegetative barrier present prior to OKStar participation</b>	50 ft <sup>2</sup>	<b>Amount of vegetative barrier you plan to have installed by the end of your third year</b>	200 ft <sup>2</sup>
<b>What activities do you plan to undertake to achieve your goal?</b>	Increase current 1' x 50' grass strip to 4' x 50' strip of grass, native bushes, and perennial plants		

NPSP Worksheet for reducing run-off from landscaping by altering chemical use

<b>Indicator</b>	Amount of chemical used on landscaping
<b>Unit of measurement</b>	Pounds (lb)

<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of fertilizers, herbicides, and pesticides used on landscaping prior to OKStar participation</b>	lb	<b>Amount of fertilizers, herbicides, and pesticides you plan to use on landscaping by the end of your third year</b>	lb
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example NPSP Worksheet for reducing run-off from landscaping by altering chemical use

<b>Indicator</b>	Amount of chemical used on landscaping		
<b>Units</b>	Pounds (lb)		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of fertilizers, herbicides, and pesticides used on landscaping prior to OKStar participation</b>	100 lb	<b>Amount of fertilizers, herbicides, and pesticides you plan to use on landscaping by the end of your third year</b>	25 lb
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Reduce amount of chemicals used by switching to integrated pest management strategies and installing more native landscaping</li> <li>2. Switch to less toxic chemicals</li> </ol>		

NPSP Worksheet for berm installation to prevent run-off from landscaping

<b>Indicator</b>	Amount of berm installed
<b>Unit of measurement</b>	linear feet (lin. ft.)

<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of berm present prior to OKStar participation</b>	lin. ft.	<b>Amount of berm you plan to have installed by the end of your third year</b>	lin. ft.
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example NPSP Worksheet for berm installation to prevent run-off from landscaping

<b>Indicator</b>	Amount of berm installed		
<b>Units</b>	linear feet (lin. ft.)		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of berm present prior to OKStar participation</b>	0 lin. ft.	<b>Amount of berm you plan to have installed by the end of your third year</b>	30 lin. ft.
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Installation of five crescent shaped berms of varying lengths to trap run-off on the low points of the landscaping to give the water time to soak into the ground</li> <li>2. Installation of filter berms around storm drains</li> </ol>		

NPSP Worksheet for pond installation to prevent run-off from landscaping

<b>Indicator</b>	Amount of berm installed		
<b>Unit of measurement</b>	cubic feet (ft <sup>3</sup> )		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	

<b>Amount of berm present prior to OKStar participation</b>	ft <sup>3</sup>	<b>Amount of berm you plan to have installed by the end of your third year</b>	ft <sup>3</sup>
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example NPSP Worksheet for pond installation to prevent run-off from landscaping

<b>Indicator</b>	Amount of berm installed		
<b>Units</b>	cubic feet (ft <sup>3</sup> )		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends – 3 yrs)</b>	2016
<b>Amount of berm present prior to OKStar participation</b>	0 ft <sup>3</sup>	<b>Amount of berm you plan to have installed by the end of your third year</b>	30 linear ft <sup>3</sup>
<b>What activities do you plan to undertake to achieve your goal?</b>	Installation of six ponds of varying size to trap run-off on the low points of the landscaping to give the water time to soak into the ground		

### Resources

Mimicking Nature to Solve a Water Pollution Problem <http://www.nrdc.org/water/pollution/lid/lidinx.asp>

Stormwater Strategies <http://www.nrdc.org/water/pollution/storm/stoinx.asp>

Low Impact Basics <http://www.leelanaucounty.com/planningeduc0058.asp>

The Low Impact Approach <http://www.main.nc.us/riverlink/content/12chap/chap12.htm#12.3>

Low Impact Development Center <http://www.lowimpactdevelopment.org/>

Center for Watershed Protection <http://www.cwp.org/>

How to Clean Up Our Water <http://www.nrdc.org/water/pollution/gsteps.asp>

### C. Environmentally Preferable Purchasing

Environmentally Preferable Purchasing (EPP) is choosing to purchase products that have some environmental benefit such as recycled paper or remanufactured toner cartridges. EPP is not just about purchasing recycled or remanufactured content. If you are purchasing a new company vehicle, it could be about selecting one that pollutes less such as one rated as an Ultra Low Emissions Vehicle (ULEV) or a Super Ultra Low Emissions Vehicle (SULEV). It could also mean buying used instead of new. With a new product, there are many environmental impacts going all the way back to obtaining the raw materials that went into the new product. Used products had environmental impacts when they were first manufactured. As a second, third, or fourth owner you are preventing all the environmental impacts that are associated with manufacturing a new item and spreading the environmental impacts of the used item over a longer life.

One of the easiest ways to insure that you are purchasing an item that qualifies as EPP is to purchase it from a vendor that participates in the EPP program. These vendors sell everything from paper products to parking stops to landscaping products. You can also talk to your regular vendors and see what types of EPP products they have available.

#### EPP Worksheet

<b>Indicator</b>	<b>Amount of EPP products purchased</b>		
<b>Unit of measurement</b>	<b>dollars (\$)</b>		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of EPP products purchased in the 12 months prior to OKStar participation</b>	<b>\$</b>	<b>Amount of EPP products you will be purchasing by the end of your third year</b>	<b>\$</b>
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example EPP Worksheet

<b>Indicator</b>	Amount of EPP products purchased		
<b>Units</b>	dollars (\$)		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of EPP products purchased in the 12 months prior to OKStar participation</b>	\$200	<b>Amount of EPP products you will be purchasing by the end of your third year</b>	\$400
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Purchase all recycled content paper</li> <li>2. Purchase remanufactured oils and lubricants</li> <li>3. Purchase rebuilt parts for boat engine repair</li> <li>4. Purchase nontoxic cleaning supplies</li> <li>5. Switch to a "green" landscaping service or pest management service</li> </ol>		

**Resources**

EPA

EPP Resources <http://www.epa.gov/oppt/epp/>

Database of Environmental Information for Products and Services

<http://yosemite1.epa.gov/oppt/epstand2.nsf>

Purchasing Guidelines <http://www.epa.gov/oppt/epp/documents/pfs.htm>

You can find out about the vendors and their products by visiting

<http://yosemite1.epa.gov/oppt/epstand2.nsf/Pages/VendorLists.html?Open>.

Solid Waste Management Coordinating Board EPP Guide <http://www.swmcb.org/EPPG/default.asp>

Pacific Northwest Pollution Prevention Resource Center

[http://pprc.org/index.php/2012/efficiency/environmentally-preferable-purchasing/EPP\\_Product](http://pprc.org/index.php/2012/efficiency/environmentally-preferable-purchasing/EPP_Product)

## D. Water Conservation

Even though your facility is located next to water, water conservation can be important. Conserving water means that the water in your area goes further in satisfying the needs of all the homes, businesses, and farms that share the water supply. Conserving water is part of doing your share to make sure everyone has the water they need.

It also takes electricity to pump water and somewhere somebody is generating that electricity. Most electricity is generated by burning coal or oil or natural gas. Burning anything to create electricity creates one or more of several different types of air pollution.

Conserving water means pumping less water which means using less electricity which results in creating less air pollution. And... remember that you also pay the electric bill so water conservation can have an impact on your electric bill.

### Water Conservation Worksheet

<b>Indicator</b>	Amount of water used		
<b>Unit of measurement</b>	gallons		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of water used in the 12 months prior to OKStar participation</b>	gallons	<b>Amount of water you plan to use by the end of your third year</b>	gallons
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example Water Conservation Worksheet

<b>Indicator</b>	Amount water used		
<b>Units</b>	gallons		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of water used in the 12 months prior to OKStar participation</b>	100,000 gallons	<b>Amount of water you plan to use by the end of your third year</b>	75,000 gallons
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Replace 20% of landscaping with drought tolerant natives</li> <li>2. Fix all leaks</li> <li>3. Replace faucets in bathrooms with automatic shut-off faucets</li> <li>4. Install low-flush toilets</li> <li>5. Install low-flow showerheads in locker rooms</li> <li>6. Install drip irrigation in flower beds and mulch beds well to keep moisture in soil</li> <li>7. Install a rain water harvesting system to collect water for irrigation</li> </ol>		

**Resources**

WaterSmart <http://www.watersmart.org/>

Rain Water Harvesting <http://www.keepoklahomabeautiful.com/rainwater-harvesting>

Water Conservation [http://www.owrb.ok.gov/news/publications/pdf\\_pub/consweb.pdf](http://www.owrb.ok.gov/news/publications/pdf_pub/consweb.pdf)

Xeriscaping <http://www.keepoklahomabeautiful.com/native-landscaping-xeriscaping>

**E. Energy Conservation/Renewable Energy**

As was discussed in the water conservation section above, most electricity in Oklahoma is generated by burning coal or oil or natural gas. Burning any of these can result in one or more types of air pollution.

There are other environmental impacts of generating electricity. The biggest has to do with getting the coal or oil or natural gas out of the ground and to the generating plant. The process of getting these substances out of the ground creates land, water, and air pollution. Transporting them creates more pollution from the trucks carrying the coal, oil, or natural gas. If the natural gas or oil is going through a pipeline, it takes electricity to pump it.

Conserving energy also means that every ton of coal, every barrel of oil, and every cubic foot of natural gas is used to its fullest. If each of these is made to go further, then its environmental impact is reduced. For example, if a ton of coal generates electricity for 100 homes but conservation makes it possible for that same ton to generate electricity for 110 homes then we are doing more with less. That margin means less pollution from mining to burning and that is good for all of us.

Energy conservation also means money saved for you. If you don't use the electricity, you don't have to pay for the electricity.

In addition to conserving energy, changing from electricity generated by burning a fuel to electricity generated by a renewable source such as wind, solar, or hydroelectric also has a beneficial environmental impact. For every kilowatt generated without burning a fuel a certain amount of air pollution is not created. So buying electricity generated without burning a fuel, "green energy," is an important way to improve the environment.

Energy Conservation Worksheet

<b>Indicator</b>	Amount of electricity used		
<b>Unit of measurement</b>	kWh		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of electricity used in the 12 months prior to OKStar participation</b>	kWh	<b>Amount of electricity you plan to use by the end of your third year</b>	kWh

<b>What activities do you plan to undertake to achieve your goal?</b>	
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Example Energy Conservation Worksheet

<b>Indicator</b>	Amount electricity used		
<b>Units</b>	gallons		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends - 3 yrs)</b>	2016
<b>Amount of electricity used in the 12 months prior to OKStar participation</b>	500,000 kWh	<b>Amount of electricity you plan to use by the end of your third year</b>	450,000 kWh
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Replace all incandescent light bulbs with fluorescent ones to reduce heat load on AC</li> <li>2. Install awnings to reduce solar heat gain from sun shining into buildings</li> <li>3. Increase insulation in attic areas</li> <li>4. Apply a cool roof coating to reduce solar heat gain by increasing reflectivity of roof</li> <li>5. Replace appliances and equipment with Energy Star rated ones</li> <li>6. Install individual meters to make energy monitoring more efficient</li> </ol>		

To set your Green Energy Purchasing goal use the following worksheet

<b>Indicator</b>	Amount of energy purchased		
<b>Unit of measurement</b>	% of energy purchased		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of electricity used in the 12 months prior to OKStar</b>	%	<b>Amount of electricity you plan to use by the end of your third year</b>	%

participation			
What activities do you plan to undertake to achieve your goal?			

Example Green Energy Purchasing goal

<b>Indicator</b>	Amount electricity used		
<b>Units</b>	% of energy purchased		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends – 3 yrs)</b>	2016
<b>Amount of electricity used in the 12 months prior to OKStar participation</b>	0.0 %	<b>Amount of electricity you plan to use by the end of your third year</b>	10%
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Install solar panels to meet some of your energy needs</li> <li>2. Install a solar hot water heater</li> <li>3. Purchase green energy</li> </ol>		

**Resources**

Energy Star — a government-backed program helping businesses and individuals protect the environment through superior energy efficiency <http://www.energystar.gov/>

Oklahoma Electric Cooperative (OEC) and Western Farmers Electric Cooperative (WFEC) have teamed up to provide co-op members/owners the opportunity to participate in the WindWorks program by purchasing Renewable Energy Certificates. <https://www.okcoop.org/services/windworks.aspx>

Public Service Oklahoma (PSO) WindChoice <https://www.psoklahoma.com/account/bills/manage/WindChoice.aspx>

OGE Wind Power <http://oge.com/environment/WindPower/Pages/WindPower.aspx>

## F. Habitat Conservation or Creation

Conserving or creating habitat for wildlife is important. The Oklahoma Gap Analysis Project (OK-GAP) found that private lands comprise 94.5% of Oklahoma. For this reason, the private sector must play a substantial role in conserving and improving habitat for wildlife.

There are many ways to conserve or create habitat:

1. Shelters like bird, bat, or butterfly houses can be erected.
2. Plants for food and shelter for wildlife can be planted.
3. Old tires, old Christmas trees, and other items can be sunk in water to create habitats for fish and other aquatic organisms. *(Consult with local water authorities, the Oklahoma Conservation Commission, the Oklahoma Department of Wildlife Conservation and the DEQ before sinking anything to create underwater habitat.)*
4. Set aside areas at the edge of your property to remain natural or to create natural areas.

### Habitat Conservation or Creation Worksheet

<b>Indicator</b>	Amount of habitat conserved or created		
<b>Unit of measurement</b>	square feet (ft <sup>2</sup> )		
<b>Start Year (year you became an OKStar Marina)</b>		<b>End Year (year OKStar Marina certification ends - 3 yrs)</b>	
<b>Amount of habitat conserved/created in the twelve months prior to your certification date</b>	square feet	<b>Amount of habitat you will be conserving/creating by the end of your third year</b>	square feet
<b>What activities do you plan to undertake to achieve your goal?</b>			

Example Habitat Conservation or Creation Worksheet

<b>Indicator</b>	Amount of habitat conserved or created		
<b>Units</b>	square feet		
<b>Start Year (year you became an OKStar Marina)</b>	2013	<b>End Year (year OKStar Marina recognition ends – 3 yrs)</b>	2016
<b>Amount of habitat conserved/created in the twelve months prior to your certification date</b>	20 square feet	<b>Amount of habitat you will be conserving/creating by the end of your third year</b>	100 square feet
<b>What activities do you plan to undertake to achieve your goal?</b>	<ol style="list-style-type: none"> <li>1. Install 2 purple martin houses, 2 bluebird boxes, and a bat house *</li> <li>2. Plant 50 square feet of flower beds containing plants to attract hummingbirds and butterflies and to provide food for caterpillars (remember where butterflies come from) and for birds</li> <li>3. Create watering areas totaling six square feet suitable for both birds and butterflies</li> <li>4. Create a stone wall with cracks and crevices suitable as homes for toads, frogs, and lizards and planted with various native food plants to attract wildlife</li> <li>5. Create nursery habitat for young fish by sinking enough old Christmas trees in shallow water to cover 50 square feet of lake bottom</li> </ol>		

\* For calculation purposes, each bird, bat, or butterfly house is counted as one square foot

**Resources**

Oklahoma Master Naturalists — a group of volunteers dedicated to learning about and preserving Oklahoma’s rich biological diversity and sharing this knowledge through education, outreach, and service within communities <http://okmasternaturalist.org/>

Wildlife Habitat Council — a group of corporations, conservation organizations, and individuals dedicated to protecting and enhancing wildlife habitat <http://www.wildlifehc.org>.

Oklahoma Department of Wildlife Conservation <http://www.wildlifedepartment.com/>

Oklahoma Conservation Commission Conservation Districts

[http://www.ok.gov/conservation/Conservation\\_Districts/index.html](http://www.ok.gov/conservation/Conservation_Districts/index.html)

**Step 4. Complete OKStar Application**

- Establish a Green Team or designate a Green champion
- Develop and display an Environmental Policy Statement

**Step 5. Contact DEQ to arrange your confirmation visit**

- Dianne Wilkins — (800) 869-1400 or (405) 702-9128 or [ppwrcy@geq.ok.gov](mailto:ppwrcy@geq.ok.gov)
- MAIL Pledge, Checklist and OKStar application to:

Email: [ppwrcy@deq.ok.gov](mailto:ppwrcy@deq.ok.gov)

or

Dianne Wilkins, Pollution Prevention Program

Oklahoma Department of Environmental Quality

P.O. Box 1677

Oklahoma City OK 73101-1677

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