



Warren Golf Club
Environmental Management Plan
F.E. Warren AFB, WY Aug 07





Warren Golf Club Environmental Policy

**In concert with the
F.E. Warren AFB mission,
we pledge to employ
only those management practices
that minimize or eliminate the potential
for negative impacts to the environment
and the surrounding community,
ensure compliance with all appropriate regulations,
and to regularly reevaluate our processes
to achieve the highest standards
of environmental excellence.**

Executive Summary

U. S. Air Force GEM Program

The U. S. Air Force Golf Course Environmental Management (GEM) program is a proactive Air Force Center for Environmental Excellence (AFCEE) initiative to foster a better understanding of the environmental challenges facing our golf courses worldwide. Armed with the support and approval of the Air Force Services Agency golf program, AFCEE's goal is to facilitate the creation of an environmentally friendly golf course facility while supporting the installation mission. AFI 32-7064 requires a GEM Plan as part of the Integrated Natural Resources Management Plan (INRMP).

The primary tenets of the GEM Program are to minimize or eliminate potential negative environmental impacts, maintain daily compliance with all appropriate regulations, and constantly examine all aspects of golf course management to achieve the highest standards of environmental excellence.

GEM Program process

There are five steps in the GEM program process.

- Analysis
- Documentation
- Implementation
- Evaluation
- Revision



Environmental Compatibility Quotient

Actual ECQ	62
Potential ECQ	76

Final environmental challenges

The following environmental challenges were identified during the GEM Plan process:

- Airfield clearance zones
- Historical resources
- Proposed storm drainage project

Where do we go from here?

The true measure of a successful GEM program is how well is it executed in the field each and every day. The installation golf and environmental staffs should continue to analyze, document, monitor, evaluate, revise, and implement changes based on lessons learned. The GEM Plan should be updated annually and revised during the next INRMP iteration update. The entire GEM process can be found on the regularly improved AFCEE GEM program website (<http://www.afcee.brooks.af.mil/ec/golf/>).

Analysis

Course details

Architect	Unknown
Year constructed	Unknown
Climate	Windy, dry, & cold
Average annual rainfall	7-10 inches
Average growing season	120 days
Winds/Prevailing Direction	North/west
Total Facility Acreage	204 acres
Par	35-37-72
Yardage/Rating/Slope	Blue/6729/69.7/114 White/6331/68.1/112 Red/5036/67.0/111 Gold/3795/59.6/95
Turfgrass	Blue/Rye/Poa
Tees-	Blue/Rye/Poa
Fairways-	Bentgrass/Poa
Greens	Native mix
Roughs-	Native mix
Irrigation water source	Groundwater/potable mix



Warren Course Layout

Course description

The Warren Golf Club Director is justifiably proud of this course located in the high plains of southeastern Wyoming. The turfgrass is excellent. His new clubhouse is an unqualified success. His staff is helpful, courteous, and affable almost to a fault. The only problems are that nearly all of the courses in Cheyenne are within a few miles of F.E. Warren AFB – and they try to charge less than he can to operate a profitable U.S. Air Force golf course facility. The other difficulties are the climate and the lack of a year round operation. Otherwise, the gentle topography and the clean air provide great recreational value.



Warren Golf Club Aerial Photo

Determining the Baseline (ECQ)

The following is a brief compilation of some of the responses in each of the ten Environmental Compatibility Quotient (ECQ) categories obtained in an interview with the superintendent and the manager conducted during the site visit.

ECQ Categories

- Overall Management Philosophy & Documentation
- Safety, Training, And Awareness
- Compliance
- Pesticide Use, Storage, & Handling
- Pollution Prevention
- Conservation Practices
- Water Resources
- Maintenance Practices
- Customer Relations & Education
- Miscellaneous Special Projects & Activities

Key to checklist responses

- **Yes** = Practice is complete or ongoing and can be verified.
- **Partial** = Practice has been initiated but needs further attention and improvement.
- **No** = Practice is not in place.

ECQ Checklists

The Environmental Compatibility Quotient (ECQ) checklists are a convenient method of assessing the overall performance, implementation, and completeness of an installation's Golf Course Environmental Management Plan. The checklists can be used in many ways including:

- As an analytical tool while compiling a Golf Course Environmental Baseline Assessment like this one
- As a self-assessment tool for the golf course manager or superintendent
- As an award nomination evaluation by a Golf Course Assessment Team (GCAT)



The clubhouse is a positive asset to the Warren Golf Club.

Interpreting the ECQ

The ECQ compiled for an installation's course is a snapshot of the overall performance and compliance with the GEM Plan. There are two measures obtained as a result of using the ECQ checklists to determine the status or quality of the environmental management program: 1) determining the actual and; 2) potential environmental compatibility quotients.

- **Actual ECQ-** the total percentage of "Yes" responses for all ten checklists. This number represents the current level of the golf course management practice compatibility with the environment
- **Potential ECQ-** the total percentage of "Yes" responses plus the total percentage of "Partial" responses for all ten checklists. Maybe the most significant measure; the potential ECQ represents a level of compatibility that could be reached by finalizing or fully implementing a particular practice or procedure.

ECQ Scoring Scale

Percent Responses Yes or Partial per Category	Level
90-100%	Advanced (Green)
70-89%	Showing progress (Yellow)
69% or less	Getting started (Red)



Antelope enjoy a fine afternoon on the high plains.



The 1st at Warren Golf Club is a gentle start to the round.

Overall Management Philosophy & Documentation				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Has installation environmental and golf management demonstrated that the environment is an important part of their responsibilities by initiating the GEM Planning process?	✓		
2	Has the golf course adopted and posted an Environmental Policy?			✓
3	Is the GEM Plan underway or completed, available, and updated regularly?		✓	
4	Is a map of the property highlighting identified environmental challenges available, used in the environmental management decision-making process, and is it posted for customers?			✓
5	Are environmental challenges and their management method, target, and objective, and overall golf course GEM program goals evaluated at least annually and are they regularly communicated to employees, customers, management, and the local community?			✓
6	Are written records of water quality monitoring, results, and control measures collected and readily available?	✓		
7	Is there an inventory of bird and mammal species maintained and readily available?	✓		
8	Is there a general understanding of how course management practices may positively enhance or adversely impact the environment?	✓		
9	Are the environmental impacts of pest control measures considered prior to their use as part of the course environmental management planning process?	✓		
10	Are records of pest treatments and their effectiveness maintained and used to guide future pest control decisions?	✓		
	Point totals for each column	6	1	3

Safety, Training, & Awareness				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are all golf course employees familiar with the GEM program and are they trained on the importance of environmental compliance with the goals and objectives of the program as it applies to their specific duties?		✓	
2	Are all appropriate employees trained to be familiar with U. S. Air Force, federal, state, and OSHA regulations that apply to the storage, handling, and disposal of all chemicals potentially used on the property?	✓		
3	Are all employees aware of the potential risks to human health and the environment of chemical use, storage, and disposal?	✓		
4	Do all maintenance employees receive documented training on their work duties that may adversely impact on- and off-site water quality and wildlife species and their habitats?	✓		
5	Is a current copy of Material Safety Data Sheets (MSDS) for all chemicals used anywhere on the golf course property maintained and readily available for use by regularly trained employees?	✓		
6	Do all employees receive regular, documented training on all potential OSHA issues associated with their specific duties?	✓		
7	Are all golf course pesticide applicators active participants in a respiratory and/or pulmonary testing program?	✓		
8	Are all pesticides, fertilizers, and other chemicals stored on appropriate shelving in an approved storage facility?	✓		
9	Are golfers notified in the pro shop and on the first and tenth tees about the planned or recently completed spraying of any chemical or fertilizer that may potentially be hazardous to human health or general public safety?		✓	
10	Are key staff members trained regarding water quality and conservation issues pertinent to the course and their particular duties?	✓		
	Point totals for each column	8	2	0

Compliance				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are the fuel storage/delivery area and associated equipment managed in accordance with federal, state, and local regulations?	✓		
2	Are installation environmental staff members regularly consulted on pertinent course management discussions and plans?			✓
3	Are there golf course staff meetings where environmental management issues are regularly discussed with all employees?		✓	
4	Do the director of golf and the superintendent attend all internal and external ESOHCAMP in-briefings and out-briefings?			✓
5	Do the director of golf and/or the superintendent coordinate their input on the various management plans that affect or include the golf course with installation environmental staff?			✓
6	Have all environmental challenges been physically identified and mapped to aid the golf staff's daily management efforts?		✓	
7	Has appropriate impact analysis (NEPA) been performed on all proposed actions on or affecting the golf course property?	✓		
8	Are oil containers used to collect old oil in good condition and correctly labeled?	✓		
9	Has the golf course staff assisted the installation environmental staff with the required Golf course Environmental Management Plan requirements?	✓		
10	Were there less than two major golf course facility-related findings during the last official ESOHCAMP visit?	✓		
	Point totals for each column	5	2	3

Pesticide Use, Storage, & Handling				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are there trained scouts on staff other than the superintendent to monitor turf and plant pest populations that notify management include findings into a report or guide for future use?	✓		
2	Are there written pest profiles of common pest species with a variety of potential control measures including cultural, biological, physical, and mechanical controls prior to treating the problem on the course?		✓	
3	Are there established, documented, and utilized aesthetic and functional thresholds for effective management of pests that may also reduce chemical use?		✓	
4	Is there a specially designed pesticide mixing area where all mixing is performed by appropriately trained personnel?	✓		
5	Has a current list of all pesticides and other chemicals stored or used at the golf facility recently been provided to the appropriate Fire Department(s)?			✓
6	Is there a written, readily available, and regularly updated Integrated Pest Management Plan for the entire golf course facility?	✓		
7	If personal protective equipment is required for pesticide use, storage, or handling, is it available for use by trained individuals?	✓		
8	Are written and readily available records maintained of all applications of pesticides made by certified applicators, including the following? - the quantity of each pesticide used; - the chemical or common name of the active pesticidal ingredient(s); - the pest or purpose for which the pesticide was applied; and the date and place of application.	✓		
9	Is the chemical storage structure/area well ventilated, fire resistant, and locked with access limited to select personnel?			✓
10	Are there designated and documented "no spray" areas around pond, river, stream, or lake edges and have they been communicated to pesticide applicators?		✓	
	Point totals for each column	5	3	2

Pollution Prevention				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are there designated and documented "minimally-maintained" or natural vegetative buffer areas around pond, river, stream, or lake edges and have they been communicated to mower operators and pesticide applicators?	✓		
2	Is there a readily available copy of the Installation Spill Plan that includes the golf course facility and is there a spill containment kit at each required location with spill containment procedures in place?	✓		
3	Does the chemical storage area have a sealed metal or concrete floor and are all liquid pesticides handled over an impermeable surface?			✓
4	Does the chemical storage area have a lip along the edges to contain spills?			✓
5	Are liquid products stored below dry products and are dry materials stored on appropriate pallets or shelves to keep them off the floor?	✓		
6	Do all golf facility employees regularly receive documented and approved HAZCOM and safety and health training?	✓		
7	Are grass clippings removed from equipment with compressed air instead of or prior to washing?	✓		
8	Are gasoline, motor oil, brake and transmission fluid, solvents, and other chemicals used to operate or maintain equipment and vehicles prevented from directly or indirectly entering water bodies?	✓		
9	Has the watershed in which the course resides and contributes runoff to been identified and mapped to aid the golf course staff?			✓
10	Are appropriate quantities of fertilizers applied during weather conducive to reducing the potential for leaching and runoff?	✓		
Point totals for each column		7	0	3

Conservation Practices				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are recycling containers conveniently provided for customer and employee use throughout the golf course facility?			✓
2	Are there appropriately designated and mapped minimally maintained areas on the golf course facility grounds?		✓	
3	Has the irrigation system or its components recently been upgraded to reduce inefficiency, malfunction, and overall water use?		✓	
4	Has all “non-target” irrigation (ponds, natural, or out of play areas, etc.) been eliminated or minimized?	✓		
5	Have irrigation system meters been installed to monitor water use and detect potential waste?			✓
6	Has the entire golf course facility property been examined for landfills, critical habitats, threatened or endangered species, wetlands, floodplains, and historical/cultural resources or other environmentally sensitive features?	✓		
7	Are employees encouraged to minimize their trips around the course to conserve on the use of fossil fuels and minimize potentially harmful exhaust emissions?	✓		
8	Do the restaurant and/or snack bar utilize reusable plates and silverware for use by customers throughout the facility’s operating hours?			✓
9	Have the annual maintenance practices for the designated “minimally-maintained” or natural areas been coordinated with the installation Bird/Wildlife Aircraft Strike Hazard (BASH) officer and/or installation environmental management personnel?	✓		
10	Are all motorized golf course equipment regularly checked for excessive air polluting emissions?	✓		
Point totals for each column		5	2	3

Water Resources				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are water features regularly monitored for algae, erosion, excessive aquatic plant growth, fish kills, and sedimentation?	✓		
2	Are equipment wash or wastewater kept from directly entering surface water and are they recycled or allowed to filter through a vegetative area?	✓		
3	Are outdoor irrigation of non-golf course landscape areas regularly monitored and maintained for leaks and efficient performance?	✓		
4	Has the golf course staff coordinated with the installation’s environmental staff on potential storm water management planning requirements?	✓		
5	Have part circle irrigation heads been installed where possible to preserve water resources and reduce maintenance while minimizing potential negative impacts to surrounding minimally maintained, natural, or water feature areas?	✓		
6	Are all water feature maintenance tasks coordinated with the installation Bird/Wildlife Aircraft Strike Hazard (BASH) officer and installation environmental management personnel?	✓		
7	Has the irrigation system been completely checked for proper water distribution in all irrigated areas and are water leaks fixed in a timely manner?	✓		
8	Are moving water bodies that pass through the golf course such as streams or creeks regularly monitored both upstream and downstream of the course for overall water quality?	✓		
9	Does the golf facility have an approved written and readily available Drought Management Plan if, or when irrigation restrictions may be required by the community or the installation?			✓
10	Is there a comprehensive, up to date, and readily available written Water Feature Management Plan for the entire golf course facility?	✓		
Point totals for each column		9	0	1

Maintenance Practices				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Is there a written, regularly updated, and readily available Golf Course Maintenance Plan?	✓		
2	Does the Maintenance Plan include individual plans such as Integrated Pest Management, Tree Management, and Hazard Communication?	✓		
3	Are green, tee, and fairway mowing heights maintained at reasonable levels that do not unduly stressing turf or requiring additional chemical inputs?	✓		
4	Are there regular and documented procedures in place to continually improve overall course soil health such as topdressing, organic amendments, aeration, and drainage improvements?	✓		
5	Is there an up to date and readily-available map of the course's "hot spots", or those areas requiring special care or regular attention?			✓
6	Is all maintenance equipment maintained and cleaned in a manner that minimizes or eliminates the potential for spreading of pest or disease contamination?	✓		
7	Has there been a complete examination of all aspects of the golf course facility operation (including the snack bar and grill, clubhouse, pro shop, cart storage facility, and maintenance complex) for potential negative environmental impacts?	✓		
8	Is contour mowing used to conserve fuel and increase playability and aesthetics?	✓		
9	Have all playing surfaces been inventoried and mapped to identify potentially challenging soil types?			✓
10	Are soil tests and/or plant tissue analysis used to determine nutritional requirements?	✓		
	Point totals for each column	8	0	2

Customer Relations & Education				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are the course manager and superintendent involved in an on-going and documented customer environmental management educational program?			✓
2	Is there a highly visible location at the course or clubhouse where golf course environmental management notices and informational messages are regularly posted for the education and enjoyment of customers?			✓
3	Do the course manager and superintendent actively communicate with customers to determine their points of view?		✓	
4	Is there documented, regular communication by course management with installation civil engineering, environmental, and leadership on GEM program issues or concerns?		✓	
5	Does the golf staff regularly survey their customers on how they rate the various elements of the golf course facility?	✓		
6	Is there consistent and attractive signage around the course and grounds that would increase the awareness of the average golfer to the environmental management practices employed?			✓
7	Are there signs appropriately located to warn golfers of hazards around or near recycled or otherwise non-potable water?			✓
8	If applicable, have areas of the course been designated "Environmentally Sensitive Zones" per USGA rules?	✓		
9	Are course staff members regularly trained on how to improve their dealings with customers?	✓		
10	Are there clinics provided to teach beginning golfers the basics of the game to include the rules as well as the environmental challenges faced by the golf staff at their facility?		✓	
	Point totals for each column	3	3	4

Miscellaneous Special Projects & Activities				
#	Environmental Compatibility Indicator	Yes	Partial	No
1	Are there project(s) planned and funded for execution in the near future that would demonstrate the compatibility of the course's management methods with GEM program initiatives?	✓		
2	Are there project(s) planned and funded to reduce the course's potential negative environmental impacts?	✓		
3	Are there tournaments or other events planned that may educate customers on the environmental challenges faced by the golf staff?			✓
4	Are there regular field trips hosted at the course for local students or other community groups?	✓		
5	Are there projects planned to eliminate or minimize a potential erosion problem?	✓		
6	Does the course have a native tree installation program complete with planting plan and maintenance schedule?		✓	
7	Are any of the local schools or universities involved in educational or research activities at your course?	✓		
8	Are there facility-wide recycling programs underway?			✓
9	Is your course an active participant in the USAF Golf Environmental Management Program?	✓		
10	Has your facility been nominated by your MAJCOM for the golf course environmental management award in the last 3 years?			✓
	Point totals for each column	6	1	3

ECQ Summary

#	Environmental Compatibility Quotient Category	Yes	Partial	No
1	Overall Management Philosophy & Documentation	6	1	3
2	Safety, Training, & Awareness	8	2	0
3	Compliance	5	2	3
4	Pesticide Use, Storage, & Handling	5	3	2
5	Pollution Prevention	7	0	3
6	Conservation Practices	5	2	3
7	Water Resources	9	0	1
8	Maintenance Practices	8	0	2
9	Customer Relations & Education	3	3	4
10	Miscellaneous Special Projects & Activities	6	1	3
	Composite point total/response percentage	62	14	24

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- Actual ECQ (# of “Yes”) = 62 (**Red** “Getting started”)

- Potential ECQ (Actual ECQ plus “Partial”) = 76 (**Yellow** “Showing progress”)

* = Category requires improvement or attention

Environmental challenges

One of the important results of the GCEBA process is the identification of potential environmental challenges to be addressed in the long-term GEM Planning process. After determining the relative significance and validation of each potential environmental challenge, the installation golf and environmental staffs should determine the set of final challenges that will be actively managed in the GEM Plan. Armed with the list of final environmental challenges, the golf staff should determine the best management approach that satisfies the goals of the golf facility from the course playability and customer satisfaction perspectives. Then the golf staff's preferred management approach should be coordinated with the installation's environmental staff for refinement, coordination, and approval.

Ultimately, the combined environmental and golf staff team should proceed toward finalizing the GEM Plan. The entire process can be viewed at the AFCEE GEM website (<http://www.afcee.brooks.af.mil/ec/golf/>). The following final environmental challenges were identified during the GCEBA process:

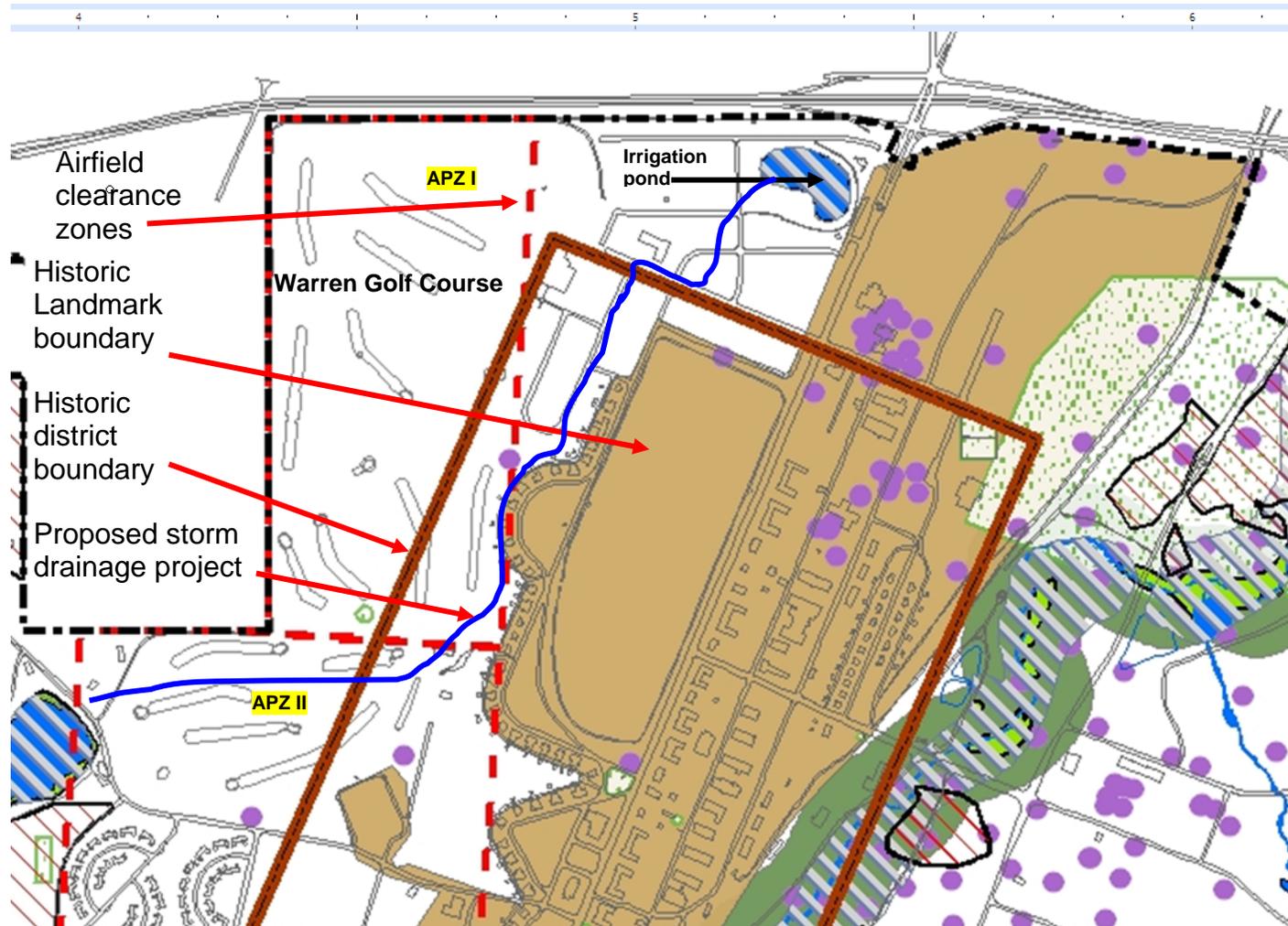


Warren's customers are provided ample practice facilities.

FINAL ENVIRONMENTAL CHALLENGES

The following final environmental challenges were identified during the GEM Plan process:

- Airfield clearance zones
- Historical resources
- Storm drainage project



Warren Golf Course Environmental Challenges



Irrigation pond is not actually on the course grounds.

AIRFIELD CLEARANCE ZONES

Although F.E. Warren AFB does not have a flying mission, the intimate proximity of the community airport with its accompanying Air National Guard aviation activity encourages consideration by the installation. The base development office utilizes the Air Force's accident potential zone (APZ) designation for planning purposes. Portions of the golf course facility are in APZ I and APZ II. The new clubhouse was purposely sited in APZ II as a result. There are no airfield clearance criteria waivers for any of the golf course or its associated facilities.

Driver/requirement

- AFI 32-7063, Airfield Installation Compatible Use Zones, (AICUZ)

- UFC 3-260-1, Airfield & Heliport Planning & Design

Objective

In direct support of the Air National Guard flying mission and installation planning objectives the Warren golf staff shall cooperate and assist installation environmental management staff with all airfield clearance zone requirements.

Management Practices

- Coordinate pond and drainage way maintenance procedures with installation environmental management staff



The 12th hole is located in Accident Potential Zone I.

Target

Ensure constant communication with installation environmental management staff on airfield clearance zone-related maintenance procedures.



An architectural historic district runs along the 17th and 18th holes.

HISTORICAL RESOURCES

F.E. Warren may be the most distinctive historical facility in the U.S. Air Force. Some of these unique historic buildings have landmark status. The NHPA requires installations to protect and maintain historic properties under its care. The protection and maintenance of historic properties is closely linked to character-defining features and the relationship of those features to the historical significance for which the property was listed in the NRHP.

The surrounding landscape, some of which include the golf course facility, has features that contribute to the overall character of these special areas as a whole while linking the properties visually and aesthetically.

Driver/requirement

- Archeological and Historical Preservation Act (16 U.S.C. 469)
- National Historical Preservation Act

Objective

Comply at all times with the prescribed land use controls required by the installation Cultural Resources Management Plan (CRMP).

Management Practices

- Coordinate all maintenance activities that may impact the historic district with appropriate installation environmental staffers

Target

Comply with the “encouraged policy of continued use of identified historic properties in a manner compatible with their original function” by coordinating all maintenance activities along the shared boundary of the historic district and the golf course.

PROPOSED STORM DRAINAGE PROJECT

Storm water issues are common throughout the Air Force. The same is true for F.E. Warren. There is a proposal to finish a storm drainage project that will require major soil excavation and grading through a portion of the golf course. The drainage system will collect and direct storm water to the course's irrigation pond, greatly increasing the ability of the installation to provide for the needs of the turfgrass and course management.



Stormwater drainage plan includes a project that bisects the course.

Driver/requirement

- Clean Water Act, Section 401

Objective

Ensure that the storm drainage construction contractor is informed of all underground utilities

along with specific rules on how the work is to be performed as the golf course remains open.

Management Practices

- Attend all force main construction project meetings to ensure that the golf course and its customers are protected
- Assemble complete set of digital photographs of the proposed project construction limits prior to start of the work

Target

- No occurrences of storm drainage project contractor damaging areas outside of necessary project limits
- All digging coordinated with contractor prior to actual operations in the field
- Customers are warned in advance of work to ensure their enjoyment and safety

GEM Plan goals & objectives

Goals are defined as actions or results that should be accomplished in the next year prior to the annual update of the Integrated Natural Resources Management Plan.

- Adopt and post a copy of the course's environmental policy
- Develop and post a map of environmental challenges on the golf course
- The director of golf and the superintendent will attend all internal and external ESOHCAMP in-briefings and out-briefings
- Provide a current list of all pesticides and other chemicals stored or used at the golf facility to the appropriate Fire Department(s)
- Provide a highly visible location at the course or clubhouse where golf course environmental management notices and informational messages will be regularly posted for the education and enjoyment of customers

Objectives are defined as actions or results that are desired to be accomplished prior to the next major INRMP revision scheduled for 2012.

- Identify and map the watershed in which the course resides and contributes runoff to aid the golf course staff
- Provide conveniently-located recycling containers for customer and employee use throughout the golf course facility
- Establish facility-wide recycling programs

GEM Plan best practices

Best practices are defined as any action, method, practice, or result that has proven its value and worth over time. The GEM program has been designed to create a body of scientific data to share with all U.S. Air Force installation golf and environmental staff members. The following best practices are in use:

- Incorporate GEM program materials into new employee orientation and training



Conclusion

The Civil Engineering Squadron's unit environmental coordinator program should provide the key oversight to assist in improving the ability of the golf and environmental staffs to work together to better support the Scott AFB mission. In addition, conserving precious water supplies through the application of science, engineering, and demonstrated environmental stewardship may be the only other major issue facing the Scott AFB environmental and golf staff members.

The gallery

This section of the report will be where some of the more revealing photographs (of the literally hundreds taken during the site visit) of pests, maintenance practices, and other areas where improvements may be made to create the best possible golf facility within the limited budget and support of the mission.



The Warren Golf Course is an example of making the most of your situation in providing a quality golfing experience for our Airmen.



"Wide open" spaces invite players to swing from their heels.



The finish to the outward nine is one of Warren's best holes.



One of the more senior 'lopes is very approachable.



The dining area really hops during lunch time.



The 14th is a semi-blind par three.



Pro shop is amply supplied with all of the necessities.



This putting green is a recent addition to the Warren amenities.



The greens are regularly in fine condition.



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Photos for this report were kindly provided by Mr. Rick Boehm, HQ AFSVA.





**Air Force Center for Engineering & the Environment
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Please visit our Golf course Environmental Management (GEM) Program website:
<http://www.afcee.brooks.af.mil/ec/golf/>