

Point Reyes National Seashore Greening Charrette June 25-26, 2003 Point Reyes, California Executive Summary



Point Reyes National Seashore comprises a diverse system of grassland, chaparral ridges, valleys, forests, meadowlands, beaches, and cliffs overlooking the Pacific Ocean. It is home to many endangered species as well as working dairy ranches. Point Reyes is one of the top 25 most biologically diverse areas in the world and one of the most threatened because the tremendous human population growth in

California. The park has also been designated one of the top 100 globally important bird areas in the world

The park has already implemented many “green” measures, including reuse and restoration of historic structures with sustainable materials such as linoleum and waterless urinals, use of photovoltaics at campgrounds and *the* Education Center, use of innovative materials for pathways, introduction of electric vehicles for park staff, specification of re-refined oil, and other activities. In addition, West Marin County is an active community in the field of sustainability

This charrette was the fourth in a series co-sponsored by the National Park Service and the U.S. Environmental Protection Agency. Participants included the Point Reyes Superintendent and staff, as well as personnel from other parks and representatives of local community groups.



On the day before the event, there was a tour of the park, designed to introduce participants to issues at Point Reyes. The first morning of the charrette was devoted to presentations designed to provide information needed by participants to work on plans for greening aspects of the park. Don Neubacher, Point Reyes Superintendent, Ed Walls, Chief of Facility Management, and Shawn Norton, National Park Service Environmental Leadership Coordinator, welcomed the group. Then, Shawn described the current status of sustainability efforts in the NPS and Don and Ed described issues and successes at Point Reyes. The morning concluded with an overview of sustainability issues and strategies by Gail Lindsey, FAIA, overall charrette facilitator.

Following lunch, Wendy Berhman described efforts to green concessions in the NPS and Sonya Capek discussed approaches and tools for green procurement.

Participants formed small work groups to address topics relevant to Point Reyes: environmental leadership, facilities/ operations and maintenance, concessions and procurement, and interpretation, education, and outreach. The groups developed a vision, described the current status or baseline for their topic, and then outlined short-term, mid-term, and long-term goals. For each goal, they assigned a champion and assessed the potential cost.



The group established the following priorities for the next year, but committed to completing work on most actions within 6 months.

High Priority Short-Term Actions	
Action	Champion(s)
Incorporate sustainability language in the GMP	John Dell’Osso
Prepare proposal to obtain funding for Environmental Management System (EMS)	Jesse Hanschild and Ed Walls
Highlight sustainability stories at Visitor Center	John Golda, Sustainability Team
Appoint a hazardous waste coordinator	Management Team
Appoint an energy coordinator	Management Team
Apply for Public Land Corporation Grant to hire students to help prepare documents	Sonya Capek
Prepare Project Management Information System (PMIS) packages to fund energy and water audits	Ed Walls, Tracy Gilchrist
Check warranties and use reclaimed antifreeze	Ed Walls
Upgrade construction checklist to incorporate LEED or Alameda checklist	Gordon White
Train project managers on broad understanding of sustainable design	Ed Walls
Convene meeting with concessioners and partners	Bob Baez, Gary Knoblock
Provide orientation for staff on concessions operations and identify problems, opportunities	Colin Smith
Develop language for prospectus and contract documents	Linda Hahn
Place recycling containers on all ranches	Ed Walls, Richard Jackson
Establish clearinghouse on green products	Colin Smith
Prepare status report based on PR02, Standard Operating Procedures	Management Team
Insert message on recycled paper, soy inks, and why important on new publications	John Dell’Osso
Send message to teachers about “zero waste lunch”	Aly Baltrus

Develop message for group users on “waste free visits	John Golda, Lauri Sturdavant
Conduct media watch in local newspapers	Norman Mansonson
Produce in-house signage on “what and why” of sustainability measures at the park	John Dell’Osso
Place messages in Visitor Center on sustainable aspects of products for sale	John Dell’Osso, PRNS Association

At the conclusion of the charrette, Shawn thanked the group for its hard work and said that Point Reyes really is a leader within the NPS. Julie Shannon, U.S. Environmental Protection Agency, congratulated the group for getting so much done in two days, even starting from a high baseline. Finally, Don thanked the participants for putting time and energy into the charrette. He noted that Point Reyes had been doing sustainable activities, but that there had not been a coordinated effort; the charrette is a major step in this direction.



Several themes emerged during the discussions at the charrette:

1. Point Reyes NS has implemented important sustainability activities, but they have depended on the initiative of individuals rather than a coordinated and comprehensive effort by the park as a whole.
2. Park-related greening activities have not been showcased sufficiently to park staff or visitors. The charrette is a first step toward a more systematic approach to sustainability and wider interpretation and publicizing of successes.
3. A few new coordinator positions and targeted funding will contribute to the park’s ability to take “next steps” and these are identified in priority actions.
4. Collaboration with the community is well established at Point Reyes NS, but the actions developed during the charrette will build on this cooperative spirit towards the goal of establishing a more sustainable park and community.



The final report presents a more complete description of the charrette as well as the results of the work group discussions.

Point Reyes National Seashore Greening Charrette June 25-26, 2003 Point Reyes, California Final Report

Background

Point Reyes National Seashore comprises a diverse system of pasturelands, chaparral ridges, valleys, forests, meadowlands, beaches, and cliffs overlooking the Pacific Ocean. It is home to many endangered species as well as working dairy ranches. Point Reyes is one of the top 25 most biologically diverse areas in the world and one of the most threatened. There are 32 miles of paved roads and 16 paved parking lots; 35 miles of unpaved roads and 31 unpaved parking lots; 147 miles of trails; 4 backcountry campgrounds; 29 backcountry bridges; 51 historic and 85 non-historic administrative buildings; 17 wells; 6 surface water systems; 21 water treatment systems; 70 wastewater treatment systems; 7 wastewater lift stations; and 21 vault toilets. The park has already implemented many sustainable measures which are described further in this report.



This charrette was the fourth in a series co-sponsored by the National Park Service and the U.S. Environmental Protection Agency. Participants included the Point Reyes Superintendent and staff, as well as personnel from other parks and representatives of local community groups.

Charrette Overview

The day before the charrette, Point Reyes staff conducted a tour to introduce participants to the park and some of its issues and successes. The tour began at the recently renovated Red Barn, a reuse of an historic building that incorporated several green strategies inside and out. For example, a waterless urinal is performing perfectly; other features include linoleum flooring inside and a path of crushed rock with a pine tar covering outside. The tour also included the lifeboat launch building and marine railway, which will undergo a green renovation in the near future, and the historic lighthouse. The tour traveled through the many working ranches that still operate in the park; innovative partnerships between the park and the ranchers have resulted in



more sustainable practices as well as green strategies in building renovations. The tour finished with a trip to Pierce Point Ranch to see the Tule Elk herd, coming back from local extinction, and an Environmental Education Center, which includes several solar panel installations.

The charrette began with welcomes from Shawn Norton, National Park Service Environmental Leadership Coordinator, Superintendent Don Neubacher, and Ed Walls, Chief of Facility Management at Point Reyes, followed by introductions of all participants. There was also an overview of the many sustainability activities in West Marin County. Shawn set the stage for the charrette with a discussion of sustainability in the NPS, starting with the first workshop in 1993 in Maho Bay



and publication of *Guidelines for Sustainable Design* which established the NPS as a leader in the Federal government. He noted that Executive Orders relating to energy efficiency, water conservation, and environmental management have not been rescinded and that new tools, training, and communications continue to be developed. The Centers for Environmental Innovation within the NPS, including Point Reyes, and the series of greening charrettes are important components of NPS sustainability efforts.

Don discussed the importance of sustainability to the park and to the planet. Point Reyes is one of the top 25 biologically diverse areas in the world and also one of the most



threatened. The offshore waters are the most productive in North American and Pt. Reyes is one of the top 100 most globally important bird areas. The park has 80 miles of coastline with 3 estuary systems, 297 historic structures, and 120 archeological sites. Approximately 2.5 million visit the park each year. Ed described some of the steps taken at Point Reyes to be more sustainable including reuse and restoration of historic structures with sustainable materials such as linoleum, recycled wood and timbers, recycled content

carpet, and waterless urinals; use of 4 photovoltaics at campgrounds and Environmental Education Center; use of innovative materials for pathways; introduction of electric vehicles for park staff; and specification of re-refined oil. In addition, the sign shop constructs 30% of its 970 signs from aluminum recovered from previous signs. Water at the vehicle wash station is recycled. Recycling bins are in every building and green cleaning and recycled paper products are used by the maintenance staff. He also described ongoing challenges. For example, the park still takes 551,800 pounds of waste to a landfill every year and will be preparing an Integrated Solid Waste Alternatives Plan to help reduce this amount.

Don concluded the park’s presentation by quoting from E.O. Wilson’s *The Future of Life*, noting the increases in human population and those living in poverty, the significant percentages of species that are now threatened, and the alarming rates of species extinction. He then suggesting goals for Pt. Reyes NS for thinking globally and acting locally:



- By 2005, 100% of cleaners will be green
- By 2006, all procurements will be green products
- By 2006, 50% of the waste stream will be diverted for recycling
- By 2006, 80% of the park’s vehicle fleet will use alternative technology
- By 2008, the park shuttle system will operate on alternative fuels
- By 2010, the park will generate 25% of its own energy

The workshop facilitator, Gail Lindsey, gave an overview of the sustainability topics that would be addressed during the charrette: environmental leadership, transportation, facility design and construction, operations and maintenance, concessions, green procurement, and interpretation, education, and outreach. For each topic, she presented a few “key principles” and examples of successes from the NPS.



Following lunch, the group heard more in-depth presentations on two topics of special interest at Point Reyes. Wendy Berhman, Environmental Management Program Team Leader for the Concession Program Center, described the NPS’ Concession Environmental Management Program and opportunities to incorporate sustainability during



contract planning, development, award, and evaluation. She described contracts as “a tool to push the green envelope” and said that “being green can go hand in hand with being economically viable.” She listed the most common environmental issues associated with concessions as well as opportunities to green concession operations. She gave examples for hostels, horse guides and stables, and retail operations, and concluded with a listing of resources for more information. Sonya Capek, Solid Waste/Environmental Purchasing Coordinator, Pacific West Regional Office, gave a wide-ranging presentation on various aspects of green procurement. She began by

stressing the importance of green procurement – the Federal government buys goods and



services worth more than \$250 billion each year, there are requirements for green purchasing, and green procurement furthers the NPS mission. Sonya described several tools and resources for specifying and purchasing green building materials, such as the U.S. Green Building Council’s LEED Rating System and NPS-Pacific West Region Directive on Sustainable Design and Construction Practices and other resources (Environmental Purchasing in the NPS, Janitorial Guide, Best Management Practices Guide, Green Office Guide, and others). She provided examples of

green procurement as well, including boats that run on biodiesel fuel, other alternative fuel vehicles and bio-based maintenance products, green janitorial products, plastic lumber boardwalks, and office supplies and equipment.

Following these presentations, participants broke into four work groups to address specific topics: environmental leadership, facilities and O&M, concessions and procurement, and interpretation, education, and outreach. The groups discussed a vision for their topic and defined current status or baseline conditions. The groups returned the next day to establish short-term, mid-term, and long-term goals and to identify their priorities. For each priority, they named a champion or champions and estimated the cost to achieve the goal. To conclude the charrette, each group presented its results, focusing on high priorities. Don agreed that all priorities were important and should be pursued.



Highlights of Work Group Discussions

Environmental Leadership

Vision: Through community-based planning and collaboration, Point Reyes will demonstrate environmental leadership with the assistance of global groups and park expertise; we will be an example of sustainable practices and a source of expertise, support, and facilitation.



Current Status/Baseline Conditions

1. Many plans exist and some include sustainability
 - Draft GMP in 2003 – includes sustainability language
 - Annual Plans – contain greening goals
 - I/M Plan draft – includes greening language

- Business Plan in 1999 – includes sustainability language
 - Trails Management Plan Draft, Wilderness Plan Draft, and Fire Management Plan Draft – include sustainability language
 - Cultural Landscape Plan, Resource Management Plan, Interpretation Plan – might contain sustainability language
 - Integrated Pest Management Plan
2. The park conducts outreach and consultation with the community
- Meetings with ranchers 2 times per year
 - Participation in Tomales Bay Watershed Council
 - Participation in informal town events
 - Former advisory commission and another is contemplated
 - Volunteers recruited locally



Short-Term Goals

1. Communicate with ranchers by inviting a guest speaker to the next regular meeting.
 Champion: Bob McClure
 Partner: Lauri Sturdivant/ Sustainable West Marin
 No cost
2. Incorporate more sustainability into the existing seminar series.
 Champions: Sarah Allen, Odessa Wolff
 Partner: Sustainable West Marin
 Low cost
3. Include sustainability language in Business Plan, GMP.
 Champion: John Dell’Osso, GMP team
 Low cost
4. Hold meetings between Park Sustainability Team and partners to communicate results.
 Champion:
 Sustainability Team
 Low cost
5. Use the Visitor Center and Web site to communicate park sustainability to the community and park staff.
 Champion:
 Sustainability Team
 Partner:
 Sustainable West Marin
 Medium cost
6. Fund development of an Environmental Management System (EMS).
 Champion: Jesse Hanschild, Ed Walls



7. Communicate with park users on how to do a waste-free visit – send to group users with packet of other information.

Champion: Lauri Sturdivant and John Golda
Medium cost

8. Develop a Green Award for the community.

Champions: Sarah Allen, Jane Rodgers, Patricia Walls
Low cost



Mid-Term Goals

1. Complete the Environmental Management System (EMS).
Champion: Ed Walls, John Dell'Osso, Patricia Walls
Medium cost
2. Develop action plans based on rancher/community meetings.
Champion: Ed Walls, Mark Homrighausen, Linda Hahn
Medium cost
3. Showcase rancher success through seminars and rancher meetings, radio, park newsletter.

4. Conduct a scoping/ feasibility study for sustainable demonstration projects.
Champions: Sustainability Team
Partners: Sustainable Fairfax, Sustainable West Marin, Marin Sustainability Guild
Medium cost

5. Communicate with other parks.
Champions: Shawn Norton, Ed Walls, John Dell'Osso
Low cost

6. Re-establish the community Advisory Board/ Council.
Champion: Don Neubacher

Partners: Susan Allen, community



7. Improve and investigate existing and other communications media.

Champion: John Dell'Osso
Partners: community
Medium cost

Long-Term Goals

1. 75% of the community are park advocates and understand the sustainable vision.
2. The park is recognized as a leader in sustainability through collaboration and partnerships.
3. The park is petroleum-free and off the grid.

Facilities/ Operations and Maintenance

Vision: The park staff will develop a broad understanding of sustainable design and construction and will assess sustainable practices using the LEED or Alameda checklist. Decisions will be based on life-cycle cost analysis rather than first costs. Sustainable projects will be interpreted and showcased. Ranches, special use permittees, and leasees will be sustainable.



Current Status/Baseline Conditions

1. There is a checklist for Facility Management projects.
2. PWR Directive 48 establishes requirements.
3. Executive Orders establish requirements.
4. The park does not use LEED or the Alameda checklist.
5. The park is not systematically using the Comprehensive Procurement Guidelines.

Facilities

Short-Term Goals

1. Upgrade existing Facility Management construction checklist to incorporate LEED and/ or Alameda checklist.

Champion: Ed Walls

Partners: Facility Management and Cultural Resources branch chiefs,
Pacific West Regional Office (PWR)

Low cost

2. Train project managers on broad understanding of sustainable design and how to incorporate it into A/E contracts.

Champion: Ed Walls, Gordon White

Partners:
PWR/Staff/Contracting Officer
Medium cost

3. Provide training on LEED and Alameda checklist to Facility Management and Cultural Resources branch chiefs.

Champion: Ed Walls

Partners: Facility Management, Cultural Resources, PWR
Medium cost

4. Collect sustainable spec sections for use as park standards.

Champion: Gordon White

Partner: PWR, Sonya Capek



5. Provide training for contracting office.
 Champion: Ed Walls
 Partner: Contracting Office, Facility Management, Cultural Resources
6. Review BMPs for inclusion in all park projects.
 Champion: Project Manager
 Partner: customer
7. Manage solid waste plan to reuse, salvage, recycling, co-generation.
 Champion: Project Manager
 Partner: park

Mid-Term Goals

1. Develop park BMPs for drainage and determine where to apply.
 Champion: Brannon Ketcham, Mary Coopriker
 Partner: park staff
2. Incorporate sustainability into Special Use Permits, leases, and concessioners agreements for design and construction of facilities.
 Champion: Linda Hahn
 Partners: Special Use Permittees, Concessioners, leasees
 Medium cost
3. Require Department of Energy/Lawrence Berkeley Laboratory review of electrical and lighting systems.
 Champion:
 Partners: the customer
 Medium cost



Operations and Maintenance

Short-Term Goals

1. Energy
 - Appoint an energy coordinator.
 Champion: Management team
 Low cost
 - Establish a baseline by completing an energy audit.
 Champion: Energy coordinator
 Partners: Steve Butterworth, National Renewable Energy Lab
 High cost
 - Apply for energy audit funding through Project Management Information System (PMIS) package.
 Champion: Ed Walls
 - Evaluate “low hanging fruit” by reviewing BMPs and Green Office Guide.
 Champion: Energy coordinator
 Partners: National Renewable Energy Lab, Pacific Gas and Electric
2. Water
 - Prepare PMIS package to obtain funding to conduct water system audits.
 Champion: Ed Walls

Partners: PWR

- Identify all fixtures that are not low-flow and replace or retrofit, beginning with Administration buildings.
- Coordinate with ongoing water quality monitoring and livestock waste management projects.

3. Solid waste

- Complete Integrated Solid Waste Alternative Plan (ISWAP).
Champion: John Ryan
Partner: PWR
Already funded
- Prepare PMIS package for “first step” projects (deficiencies) identified in ISWAP.
Champion: Ed Walls
Partner: PWR

4. Hazardous waste

- Select a hazardous waste coordinator for the park and complete compliance plans.
Champion:
Management team

Partner: PWR
and Sonya Capek
Medium cost

- Train hazardous waste coordinator.
Champion:
Ed Walls
Low cost



- Provide training for staff on reduction of hazardous materials/ supplies and buying green products.
Champion: Hazardous waste coordinator
Partners: Regional parks, Sonya Capek
Low cost

- Prepare PMIS package to fund development of a pollution prevention plan.
Champion: Ed Walls
Partners: PWR, Steve Mitchell

5. Fleet vehicles

- Check warranties and set up use of reclaimed antifreeze at Cheda's.
Champion: Ed Walls, Rich Luccessi
- Contact regional GSA representatives about fleet vehicles.
Champion: Sonya Capek
Partner: GSA
- Inventory and assess need for SUVs to determine uses and mandate downsizing of replacements where possible.
Champion: Gordon White

- Partner: GSA
- Replace hydraulic fluids with bio-based alternatives.
Champion: Ed Walls
Partner: Yosemite NP
Medium cost
- Talk to M. J. Doud at BioBlend about using Point Reyes as a pilot park for using bio-based products.
Champion: Ken Fipps
Partner: Yosemite NP
- Determine whether soil removed in wash station can be used for road base (does it need to be removed as hazardous waste?).
Champion: Ed Walls

Mid-Term Goals

1. Energy

- Perform energy audits and identify opportunities for special use permittees, concessioners, leasees, ranches.

Champion:

Energy coordinator

Partners: Steve

Butterworth, National

Renewable Energy Lab, Pacific Gas and Electric

High cost



2. Water

- Perform water system audit to identify needed repairs and upgrades to all septic systems.

Champion: B&U Supervisor

Partner: PWR

Medium cost

- Perform water audits and identify opportunities for savings at ranches, concessions.

- Prepare PMIS package to obtain funding to perform retrofits, etc. identified in audit.

Champion: Ed Walls

Partners: Pacific West Region

3. Solid waste

- Obtain funding for PMIS projects and complete projects.

Champion: John Ryan

Partner: PWR

Medium cost

4. Hazardous waste

- Reduce hazardous materials generation by 10% per year for 5 years (the hazardous waste coordinator will identify opportunities and division chiefs will implement).
 Champion: Management team
 Partners: park staff, special use permittees, leasees, concessioners
 Low cost

Transportation

Several groups addressed transportation issues. Their recommendations are consolidated below.

1. Fleet Vehicles
 - Replace 7 (of 73 current) vehicles per year for 5 years with bi-fuel or hybrids (for a total of 50% of fleet after 5 years).
 Champion: Ed Walls
 Partner: GSA
 - Use alternative fuel vehicle for whale watching shuttle.
 Champion: Contracting Office
2. Reduce car traffic in the park – encourage carpooling by staff for errands and trips through more formal coordination.
3. Connect communities and park with bike paths.
4. Consider bike rentals and “Amsterdam bikes” that are available for use within the park and may be picked up and dropped off at numerous locations in the park.



Concessions and Procurement

Procurement

Current Status/Baseline Conditions

1. Park staff members are aware and innovative green purchasing is occurring, but staff members are not readily able to identify products (e.g., carpet, paint, paper, recycled oil, etc).
2. Issues include:
 - fear and resistance
 - buy what is easy
 - credit card purchases obscure tracking
 - tight budgets push staff to buy cheapest rather than most environmental
 - lack of communication about what people have learned or found out
 - lack of knowledge about “good” green products.



Short-Term Goals

1. Establish a clearing house on green products with information on specific vendors and place on the park Web site.
Champion: Colin Smith
2. Develop brief status report on baseline conditions related to PR02, the Point Reyes Standard Operation Procedures; include budget and other barriers and opportunities; identify problem areas.
Champion: Don Neubacher and division chiefs
3. Adapt the PWR checklist for contracts to ensure compliance with (and documentation of) greening Executive Orders and other requirements.
Champion: Kris Swofford
4. Establish priorities for green purchasing for this year.
Champion: Don Neubacher and management team



Mid-Term Goals

1. Move toward 100% green cleaning products.
2. Increase park use of certified wood products – work with building supply to introduce certified wood.
3. Identify and purchase green office supplies (paper, toner cartridges).
4. Purchase only Energy Star appliances.
5. Investigate use of retread tires (look at independent sources, other parks).

Concessions

Current Status/Baseline Conditions

1. Prospectus issued with environmental requirements; 3 more prospectus documents being prepared and will include environmental requirements.
2. Nothing in place to actually review green procurement practices so actual achievements unknown.
3. Some involvement with planning, but it could be more strategic.



Short-Term Goals

1. Convene a meeting with concessioners and partners to assess and discuss current practices and where to go next (e.g., should there be audits).
Champion: Bob Baez, Gary Knoblock
2. Involve concessioners and partners in all communications/ information sharing processes.
Champion: Gary Knoblock, John Dell'Osso
3. Build environmental BMPs into contracts with concessioners.

Champion:
Linda Hahn
High cost

4. Provide orientation for park staff on concessions operations (maintenance, environmental issues, safety, etc.) to increase awareness.

Champion: Colin Smith



5. Include concessions and partner representatives on Sustainability Committee.

Champion: John Dell'Osso

6. Place recycling containers on all ranches.

Champion: Ed Walls, Richard Jackson

7. Include language on recycling and green practices in event permits (coordinate with other divisions to develop language and solicit sample language from other parks; coordinate with Interpretation on recycling message and handout for Special Use Permits).

Champion: Linda Hahn



Mid-Term Goals

1. Develop and pilot test a voluntary audit of a few ranches to prioritize and support BMPs in permits.

Champion:

Colin Smith, Mark Homrighausen, Mary Coopriider

High cost

Interpretation, Education, and Outreach

Team: John Dell'Osso, John Golda, Norman Mansonson, Dona Larkin, Bill Shook, Gary Fellers, Anne Tisei, Joel Ann Todd (Facilitator)

Vision: Park visitors, staff and the community are educated and movtivated to preserve their environment through personal commitment.



Baseline:

1. All interpretation publications are printed on recycled paper with soy inks with a small recycled logo.

2. There are no programs specifically on “sustainability” in the park or why specific green actions are important, but stewardship and sustainability messages are incorporated in some programs.
3. A few signs interpret sustainable efforts (e.g., waterless urinal), but most do not have signage.
4. There are about 100 waysides and they do not include much on sustainability. Replacing waysides is expensive, though new technology is more durable. The park can do laminated signs in-house, but they do not last as long.
5. Articles have been placed in local newspapers, on the Centers for Environmental Innovation designation and the new electric Think vehicles.
6. The community and the park are working together to raise consciousness. The park is working with the community (Sustainable West Marin) on a brochure that will include a “sustainability tour” map.
7. John Dell’Osso has written guest columns for the local paper and could do this for a Bay Area paper.
8. Successes are placed on the Web site.
9. Approximately 4000 children visit the Education Center annually and learn about recycling and composting along with other park activities.
10. There are approximately 11 Full-Time Equivalent staff members in interpretation and education. They operate 3 Visitor Centers all year, provide interpretive talks and walks, prepare publications including newsletters, and place material on the Web site.
11. Park staff members are motivated and committed to the goal of sustainability but this is not always reflected in their behavior. “10 Simple Ways to Save Point Reyes” was prepared and distributed to staff 2 years ago and needs to be updated.



Short-Term Goals

1. Ensure that all publications have recycled content logo and include more detailed message on why this is important (e.g., trees saved).
 Champion: John Dell’Osso
 Low cost
2. Contact teachers to encourage more sustainable packaging for lunches brought by school groups to reduce waste; include note about why this is important.
 Champion: Aly Baltrus
 Low cost, no cost
3. Send message(s) to park staff about reducing waste (update “10 Simple Ways to Save Point Reyes”, email messages and posters; encourage staff to report



sustainable successes to Interpretation so that these success stories can be showcased and interpreted through signage, messages during talks or walks, etc.

Champion:

Low-cost, no cost

4. Conduct training for staff on saving energy and reducing waste with computers and other office equipment, “10 things you can do...”; encourage staff to report successes so that they can be showcased and interpreted.

Champion: Bill Shook

Low cost

5. Use “earth flag” as a banner at the Red Barn.

Champion: Dona will donate the banner

Low cost, no cost

6. Conduct an ongoing media watch to identify negative coverage of park sustainability activities and prepare responses (this action will be carried out entirely by community groups and park staff members will not participate).

Champion:

Norman Mansonson

No cost to park

7. Continue work with Sustainable

West Marin on the brochure and “map” of sustainable sites, plus signage.

Champion: John Dell’Osso, Dona Larkin

Medium cost

8. Prepare in-house signage to describe and interpret sustainability opportunities and measures taken by the park, including recycling opportunities; signs will include why these actions are important and their environmental benefits (e.g., water saving fixtures, green cleaning products).

Champions: Interpretation staff

9. Screen items for sale in Visitor Centers for “green-ness” – encourage sale of greener items and place small signs to alert visitors to green features and why they are important.

Champion: PRNS Association

10. Interpret actions resulting from charrette, if possible.

Champion: Interpretive staff with responsible park staff



Mid-Term Goals

1. Improve internal park Web site to facilitate its use in communications among staff members.

Champion: Bill Shook

Medium cost

2. Construct an exhibit in the park on a scale model “sustainable village”.

Champion: Sustainable West Marin

3. Highlight successes in the park through waysides, particularly when signs are replaced (e.g., ranch strategies, cisterns at lighthouse, photovoltaics, manure composting, etc.); also, showcase successes through radio, television, newspaper columns, brochures.

Champion: John Dell'Osso and Interpretation staff



During discussion, it was suggested that the park develop and use a logo for waysides, signs, publications, etc. to indicate sustainability messages.

Closing

At the conclusion of the charrette, Shawn thanked the group for its hard work and said that Point Reyes really is a leader within the NPS. Julie Shannon, U.S. Environmental Protection Agency, congratulated the group for getting so much done in two days, even starting from a high baseline. Finally, Don thanked the participants for putting time and energy into the charrette. He noted that Point Reyes had been doing sustainable activities, but that there had not been a coordinated effort; the charrette is a major step in this direction.



Several themes emerged during the discussions at the charrette:

1. Point Reyes NS has implemented important sustainability activities, but they have depended on the initiative of individuals rather than a coordinated and comprehensive effort by the park as a whole.
2. Park-related greening activities have not been showcased sufficiently to park staff or visitors. The charrette is a first step toward a more systematic approach to sustainability and wider interpretation and publicizing of successes.
3. A few new coordinator positions and targeted funding will contribute to the park's ability to take "next steps" and these are identified in priority actions.
4. Collaboration with the community is well established at Point Reyes NS, but the actions developed during the charrette will build on this cooperative spirit towards the goal of establishing a more sustainable park and community.