

Water Use Efficiency Application

Section B: Demonstration Projects

Ploughshares Demonstration Gardens

Submitted By



A Supportive Housing Community

2004 Water Use Efficiency Proposal Solicitation Package

APPENDIX A: Project Information Form

Applying for:

Urban

Agricultural

1. (Section A) **Urban or Agricultural Water Use Efficiency Implementation Project**

(a) implementation of Urban Best Management Practice, # _____

(b) implementation of Agricultural Efficient Water Management Practice, # _____

(c) implementation of other projects to meet California Bay-Delta Program objectives, Targeted Benefit # or Quantifiable Objective #, if applicable

(d) Specify other: _____

2. (Section B) **Urban or Agricultural Research and Development; Feasibility Studies, Pilot, or Demonstration Projects; Training, Education or Public Information; Technical Assistance**

(e) research and development, feasibility studies, pilot, or demonstration projects

(f) training, education or public information programs with statewide application

(g) technical assistance

(h) other

3. Principal applicant
(Organization or affiliation):

Alameda Point Collaborative

4. Project Title:

Ploughshares Demonstration Garden

5. Person authorized to sign and submit proposal and contract:

Name, title

John N. Shepherd, Exec. Dir.

Mailing address

677 W. Ranger Ave.

Alameda, CA 94501

Telephone

(510)898-7800

Fax.

(510)898-7858

E-mail

jshepherd@apcollaborative.org

6. Contact person (if different):	Name, title.	Doug Biggs
	Mailing address.	677 W. Ranger Ave.
		Alameda, CA 94501
	Telephone	(510)898-7800
	Fax.	(510)898-7858
	E-mail	dbiggs@apcollaborative.org

7. Grant funds requested (dollar amount): **\$193,460**
(from Table C-1, column VI)

8. Applicant funds pledged (dollar amount): **\$0**

9. Total project costs (dollar amount): **\$193,460**
(from Table C-1, column IV, row n)

10. Percent of State share requested (%): **100%**
(from Table C-1)

11. Percent of local share as match (%): **0%**
(from Table C-1)

12. Is your project locally cost effective?
Locally cost effective means that the benefits to an entity (in dollar terms) of implementing a program exceed the costs of that program within the boundaries of that entity.
(If yes, provide information that the project in addition to Bay-Delta benefit meets one of the following conditions: broad transferable benefits, overcome implementation barriers, or accelerate implementation.)

- (a) yes
- (b) no

11. Is your project required by regulation, law or contract?
 If no, your project is eligible.
 If yes, your project may be eligible only if there will be accelerated implementation to fulfill a future requirement and is not currently required.
Provide a description of the regulation, law or contract and an explanation of why the project is not currently required.

- (a) yes
- (b) no

12. Duration of project (month/year to month/year):	<u>01/06-04/07</u>
13. State Assembly District where the project is to be conducted:	<u>16th District</u>
14. State Senate District where the project is to be conducted:	<u>9th District</u>
15. Congressional district(s) where the project is to be conducted:	<u>13th District</u>
16. County where the project is to be conducted:	<u>Alameda</u>
17. Location of project (longitude and latitude)	<u>37n47.10, 122w17.45</u>
18. How many service connections in your service area (urban)?	<u>N/A</u>
19. How many acre-feet of water per year does your agency serve?	<u>N/A</u>

20. Type of applicant (select one):
- (a) City
 - (b) County
 - (c) City and County
 - (d) Joint Powers Authority
 - (e) Public Water District
 - (f) Tribe
 - (g) Non Profit Organization
 - (h) University, College
 - (i) State Agency
 - (j) Federal Agency
 - (k) Other
 - (i) Investor-Owned Utility
 - (ii) Incorporated Mutual Water Co.
 - (iii) Specify _____

21. Is applicant a disadvantaged community? If 'yes' include annual median household income.
(Provide supporting documentation.)

(a) yes, \$8,750 median household income
 (b) no
See attachment #3 for documentation

2004 Water Use Efficiency Proposal Solicitation Package
APPENDIX B: Signature Page

By signing below, the official declares the following:

The truthfulness of all representations in the proposal;

The individual signing the form has the legal authority to submit the proposal on behalf of the applicant;

There is no pending litigation that may impact the financial condition of the applicant or its ability to complete the proposed project;

The individual signing the form read and understood the conflict of interest and confidentiality section and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant;

The applicant will comply with all terms and conditions identified in this PSP if selected for funding; and

The applicant has legal authority to enter into a contract with the State.

Signature

John N. Shepherd, Executive Director
Name and title

Date

B-15c. Statement of Work, Section 1: Relevance and Importance

The Alameda Point Collaborative(APC) proposes to develop demonstration gardens that will promote the use of water efficient landscaping techniques among residential water consumers in the inner bay area, while also providing job training and employment opportunities for very low income formerly homeless residents of APC.

“Education of residents, customers and employees regarding the importance of efficient water use”¹ is one of the key methods for Water Use Conservation Methods identified by the Department of Water Resources. Although the inner core communities of the Bay Area have a strong interest in water efficient landscaping, the opportunities to view demonstration gardens in a residential setting are limited. Most demonstration gardens are either developed by academic or regulatory agencies, and generally provide fairly static viewing opportunities. The Ploughshares Demonstration Gardens will combine water efficient garden displays with hands-on training in landscaping, irrigation, soil and climate analysis, and emerging techniques in water efficient gardening and landscaping. The Ploughshares Demonstration Gardens will also include a “one-stop shop” approach to encouraging the use of water efficient landscaping by including a retail component that will enable visitors to literally take home the knowledge they have learned by purchasing plants and materials displayed, and accessing qualified contractors in order to implement their own water efficient landscaping.

Because of the high cost of land, most demonstration gardens throughout the state have been constructed in remote suburban locations. One of the premier California demonstration gardens, the Water Conservation Garden in El Cajon California, had difficulty attracting the public due to its more remote location. The Ploughshares nursery site has the unique advantage of being situated within the inner urban core of the San Francisco East Bay community, providing a significantly more convenient venue to attract the public to events and displays.

Ploughshares Demonstration Gardens will be located in the West End of Alameda, the geographic heart of the Bay Area, within 5 minutes of the major Highway 880 corridor. The gardens will be on 4 acres of land with 1,000 feet of prime street frontage on a busy thoroughfare. Over the next decade more than 2,500 units of housing will be built in this neighborhood, creating a tremendous demand for landscaping projects

The demonstration gardens will help achieve multiple CALFED benefits by not only educating the public about the advantages of water efficient gardening, but by providing them the tools and materials with which to install water efficient landscapes at their own homes. As a result, overall water use for landscaping is reduced. In addition, because of more efficient irrigation methodology, less water will be irrecoverably lost.

The demonstration gardens will also support water management activities of the East Bay Municipal Utilities District (EBMUD) as well as the City of Alameda and surrounding communities, which all have mandates to increase the amount of water efficient landscaping in their jurisdictions.

¹ Department of Water Resources website “Landscape Conservation Methods”
<http://www.owue.water.ca.gov/landscape/conserv/conserv.cfm>



Source: City of Alameda 2001

Project Location Ploughshares Demonstration Gardens



**Aerial view of Ploughshares Demonstration Garden location
Courtesy www.terrafirma-usa.com**

B-15d. Statement of Work, Section 2: Technical/Scientific Merit, Feasibility

The Ploughshares Demonstration Gardens will take up 4 acres of land fronting along Main Street in Alameda, California. There will be various gardens laid out throughout the site including low-turf, California natives, Mediterranean and other dry climate plantings, edible landscapes, greywater system demonstrations, and irrigation system demonstrations (see attached site plan, Attachment 1). The gardens will illustrate numerous, inter-related conservation techniques:

- Landscape design
Layouts of the gardens will illustrate placement of plantings and hardscape based on optimal water conservation and climatic and cultural requirements. Emphasis will be placed on the use of climate-appropriate California native plants as well as plants from the Mediterranean and other compatible geographic areas.
- Soil and climate analysis
Analysis techniques for soil and climate will be provided with an emphasis on organics and sustainability.
- Cultural techniques and materials
Soil preparation and maintenance techniques will include composting of organic debris removed from the site and the addition of site-produced organic compost to increase the water-holding properties of the existing sandy soil. Planting techniques will include extensive sheet-mulching to reduce evapotranspiration and to limit weed growth.
- Irrigation equipment, installation techniques and water application methods
Various irrigation systems will be demonstrated, including ET controllers for large landscape areas, smaller automatic controllers with rain gauge functions, and rainwater and greywater collection systems.

Task	Description of Deliverables	Schedule	FY06 Costs	FY07 Costs	Total Costs
1	Site Survey	01/06-2/06	\$ 4,800		\$ 4,800
2	Grading/Contour Design	02/06	\$ 5,600		\$ 5,600
3	Garden and Irrigation Design	02/06-6/06	\$ 19,100		\$ 19,100
4	Approval Process	6/06-8/06	\$ 5,000	\$ 3,000	\$ 8,000
5	Site Preparation	9/06-10/06		\$ 14,500	\$ 14,500
6	Grading	10/06		\$ 13,000	\$ 13,000
7	Installation of Irrigation System	11/06-12/07		\$ 48,700	\$ 48,700
8	Installation of Plants and Amendments	01/07-03/07		\$ 66,760	\$ 66,760
9	Installation of Signage	03/07-04/07		\$ 13,000	\$ 13,000
		Total	\$ 34,500	\$ 158,960	\$ 193,460

The project is categorically exempt from CEQA requirements under section 15304.

B-15e. Statement of Work, Section 3: Monitoring and Assessment

Records will be kept on the number of visitors to the garden, as well as information on type and quantity of plants or materials purchased. This will be an excellent gauge of the extent to which the demonstration garden impacts the use of water efficient landscaping techniques. Visitor surveys will be conducted on a quarterly basis to determine the quality of the visitor experience as well as an indication of knowledge gained during the visits.

Evaluations will be done on a regular basis for workshops, trainings and other events to determine user satisfaction and the quality of information imparted.

All monitoring and assessment data will be provided to DWR as part of the quarterly reports as part of annual follow-up reporting for the first 5 years as well as made available on a website established for the project.

B-15f. Qualifications of the Applicants and Cooperators

APC has the capacity and a strong record of accomplishment of effectively undertaking infrastructure improvement projects that benefit our community. APC's first task as an organization was to renovate all 200 units of housing at a cost of \$10 million so that they could be occupied. The agency has since gone on to establish a thriving community garden, install playgrounds for resident children, and renovate and lease out commercial space to generate revenue.

APC successfully completed a water efficient pilot project with funding provided by the Alameda Countywide Clean Water Program (ACCWP) Community Stewardship Project. The project demonstrated the utilization of permaculture principals in the design of water efficient landscaping.

The preliminary design for the demonstration gardens has been done by Georgia Madden of Feyerabend and Madden Landscape Design, with input from students and faculty enrolled in the Merritt College Horticulture Studies Program. A number of design charettes were held with local landscapers, horticulturalists, permaculture experts and others to review and refine the design.

The project management team includes the APC Executive Director, Ploughshares Nursery Manager Christopher Shein, a Ploughshares Advisory Board (see description under cooperators), and Feyerabend and Madden Landscape Design. Technical assistance will be provided by Patrick Archie, an Instructor in Urban Garden

Ecosystems and Agroecology at the Department of Environmental Science, University of California, Berkeley. Resumes for project management staff are included in Attachment #2.

Installation of the gardens will be done by a professional landscape company, assisted by APC residents in on-the-job training positions and interns from college horticulture departments under the guidance of the APC Nursery Manager. All labor utilized on the project, including Internships and OJT employment opportunities will be done in compliance with labor code requirements.

Cooperators

APC has established an Advisory Board to guide the development of the nursery. The Advisory Board is comprised of members with expertise in small business development, organic farming, landscaping, permaculture and plant management. A brief biography of Board members is included in Attachment #2.

APC will collaborate with EBMUD, the Alameda Countywide Clean Water Program, local permaculture guilds, and local garden groups to host and conduct various workshops, tours and informational events.

B-15g. Outreach, Community Involvement, and Acceptance

Ploughshares will conduct targeted outreach to encourage visitors to the Demonstration Gardens. Individual invitations will be sent to new home purchasers of each of the 2,500 units of housing to be built over the next decade in the neighborhoods surrounding the Gardens. Field trips will be provided for schools in Alameda and other nearby communities. Field study programs will be offered through the Merritt College Horticulture Studies program as well as at other local colleges and universities. Presentations will be made at local garden clubs, horticultural societies and permaculture guilds. Informational articles will be placed in local and regional publications, and co-marketing opportunities will be developed with neighboring destinations, such as the Alameda San Francisco ferry, and Rosenblum Winery.

Ploughshares Demonstration Gardens will provide a regular series of hands on sessions on various topics including general gardening and water efficient landscaping, irrigation, permaculture techniques, landscape design and plant communities appropriate to the region.

Workshops and On-the-Job training opportunities will be provided to the formerly homeless low-income residents of APC to provide them with applicable job skills in gardening, horticulture and landscaping. Particular focus will be given to engaging the more than 270 APC youth in the learning process. The skills and knowledge they learn could assist them in future careers and will promote a cultural shift in the promotion of sustainable landscaping techniques.

B-15h. Innovation

While there are several large scale xeriscape or water conservation demonstration gardens throughout the state, none are located within the inner Bay Area. There are several additional features of the project that make it innovative:

Engaging a Disadvantaged Community

The Ploughshares Demonstration Gardens is innovative in that it will engage the resources of a disadvantaged community in the implementation and operation of the project.

The Alameda Point Collaborative is a supportive housing program, serving 500 formerly homeless families and individuals on the converted Alameda Naval Air Station. Supportive housing combines the stability of a place to live with life skills and job skills training, advocacy to connect with services, and emotional assistance all with the ultimate goal of getting the help needed to be able to lead a stable, productive life.

The accommodation that established the Alameda Point Collaborative with the closing of the Naval Air Station (NAS) Alameda included specific commitments for housing, commercial property, job opportunities and retail opportunities to benefit the homeless. A total of 34 acres (including 20 acres of open space) 200 units of housing, and assorted commercial properties and offices were provided to APC. According to the NAS Alameda Community Reuse Plan "these commitments indicate Alameda's understanding that economic development opportunities created by base reuse should also be considered a resource for homeless providers, and should be part of an integrated approach to addressing the continuum of care needs of homeless people - not just for shelter - but for developing the capacity to move up and out of homelessness as self-reliant and contributing members of the community."²

The commercial employment and retail commitments provided to APC are seen as a way of empowering residents by providing economic opportunities, and making the agency more self-sufficient and less reliant on government funding at a time when services to the poor are being drastically cut.

Of the 34 acres given to APC, 4 acres were designated to be used for a project to grow and sell native and organic plants. The reasons this project was identified as being ideal to the needs and resources of APC are multiple. For one, it takes advantage of the development opportunities that are occurring in the region, including the redevelopment

² "NAS Alameda Community Reuse Plan", Alameda Reuse and Redevelopment Authority, January 1996

of Alameda Point, construction of new housing in Alameda, and the region wide emphasis on planting with organic and drought resistant plants.

Secondly, a program focusing on the organic propagation of plants is healthy, therapeutic, and within the capacity of our residents, many of whom lack previous job experience and/or have permanent physical or mental disabilities.

Lastly, a sustainable green project will respect, strengthen and draw upon the cultural traditions of our many residents (more than 20% are Native American) who strive to live in harmony with the land.

One-Stop Approach to Encourage Water Efficient Landscaping

By combining the educational aspects of the demonstration garden with a retail component that enables visitors to actually purchase plants and materials seen in the garden for residential use the likelihood of utilizing water efficient landscaping techniques is dramatically increased. Additionally, the revenue generated through the sale of products will sustain the operating costs of the project, as well as provide job training opportunities for formerly homeless residents of APC.

B-15i. Benefits and Costs

The Ploughshares Demonstration Gardens will promote the use of water efficient landscaping throughout the East Bay and as a result will provide multiple CALFED benefits, including reduced water usage and improved water usage.

By promoting the use of bay-friendly gardening techniques the Gardens will also help decrease the amount of green waste generated, and reduce the amount of pesticides and other harmful chemicals used.

By training and employing formerly homeless low-income resident of APC in the development and operations, the project will also provide a substantial economic benefit to a disadvantaged community.

Budget Narrative

Funding requested from the Water Efficient Grant Program is for the demonstration garden purposes only. Other portions of the site, including education and retail facilities will be constructed utilizing other funds. APC will provide the land at no cost. Ongoing operation and maintenance of the demonstration gardens will be funded through income generated from the sales of plants and materials, job training and employment funds that APC has access to, and donations for workshops and other events.

Administrative costs have been included for project oversight and have been calculated based on .5 FTE for the Ploughshares Nursery Manager. APC will pay for any other administrative costs out of our general budget.

Planning/Design/Engineering includes the site survey, and preparation of the garden and irrigation plans.

The cost of installing a meter for the site is included under the equipment line item.

Materials/Installation/Implementation includes all plant, soil and irrigation materials and supplies, and signage, as well as labor. APC residents will be placed in at least 15% of all jobs created as part of the contract, in compliance with Alameda's first source hiring program. All wages and stipends will be in accordance with the Labor Code.

Applicant: Alameda Point Collaborative Ploughshares Demonstration Garden

THE TABLES ARE FORMATTED WITH FORMULAS: FILL IN THE SHADED AREAS ONLY

Section A projects must complete Life of investment, column VII and Capital Recovery Factor Column VIII. Do not use 0.

Table C-1: Project Costs (Budget) in Dollars

	Category (I)	Project Costs \$ (II)	Contingency % (ex. 5 or 10) (III)	Project Cost + Contingency \$ (IV)	Applicant Share \$ (V)	State Share Grant \$ (VI)	Life of investment (years) (VII)	Capital Recovery Factor (VIII)	Annualized Costs \$ (IX)
	Administration ¹								
	Salaries, wages	\$24,000	0	\$24,000	\$0	\$24,000	0	0.0000	\$0
	Fringe benefits	\$5,760	0	\$5,760	\$0	\$5,760	0	0.0000	\$0
	Supplies	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Equipment	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Consulting services	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Travel	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Other	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(a)	Total Administration Costs	\$29,760		\$29,760	\$0	\$29,760			\$0
(b)	Planning/Design/Engineering	\$29,500	0	\$29,500	\$0	\$29,500	0	0.0000	\$0
(c)	Equipment	\$21,150	0	\$21,150	\$0	\$21,150	10	0.0000	\$0
(d)	Materials/Installation/Implementation	\$100,800	0	\$100,800	\$0	\$100,800	0	0.0000	\$0
(e)	Implementation Verification	\$5,000	0	\$5,000	\$0	\$5,000	0	0.0000	\$0
(f)	Project Legal/License Fees	\$5,000	0	\$5,000	\$0	\$5,000	0	0.0000	\$0
(g)	Structures	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(h)	Land Purchase/Easement	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(i)	Environmental Compliance	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(j)	Construction	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(k)	Other (Specify)	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(l)	Monitoring and Assessment	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(m)	Report Preparation	\$2,250	0	\$2,250	\$0	\$2,250	0	0.0000	\$0
(n)	TOTAL	\$193,460		\$193,460	\$0	\$193,460			\$0
(o)	Cost Share -Percentage				0	100			

Attachment #1
Conceptual Site Plan
Ploughshares Demonstration Gardens

**Attachment #2
Resumes and
Advisory Board Bios**

Feyerabend & Madden is a landscape architecture and garden design firm located in Emeryville, California. Bobbi Feyerabend and Georgia Madden both have a background in the fine arts. Bobbi's training in sculpture, landscape architecture and horticulture was at the University of California Berkeley and Merritt College, Oakland, California. Georgia's training in design, landscape design and horticulture was at The Ohio State University, the University of California Extension and Merritt College, Oakland, California.

Education and professional experience

Bobbi Feyerabend

- Bachelor of Fine Arts, University of California, Berkeley
- Teaching Certificate, University of California, Berkeley
- Certificate in Landscape Horticulture, Merritt College, Oakland, CA
- Certificate in Landscape Architecture, University of California Extension, Berkeley
- California License in Landscape Architecture #3542

- **Team designer** - The Trees of San Francisco. A Plan for the Management of the City's Urban Forest (1991)

Winner - Award of Excellence, American Society of Landscape Architects

Department of Public Works, Division of Landscape Architecture, City of San Francisco

- **Landscape Designer** - Barbara L. Feyerabend Landscape Design, Oakland, California
- **Landscape Architect and Partner** - 10 years, Feyerabend & Madden Landscape Design, Emeryville, California

Instructor, Landscape Design - Department of Landscape Horticulture, Merritt College, Oakland, California

Instructor, Landscape Design – The Garden at Heather Farm, Walnut Creek, CA

Instructor, Landscape Design - The Botanical Gardens at Strybing Arboretum in Golden Gate Park, San Francisco.

Past President - the California Horticultural Society

Member of the Citizens Advisory Committee of the Joaquin Miller Community Center in Oakland, CA

Member of the Garden Committee of the Camron-Stanford House on Oakland's Lake Merritt

Georgia Madden

- Bachelor of Fine Arts, The Ohio State University
- Master of Fine Arts, The Ohio State University
- Certificate of Horticulture, Merritt College, Oakland, California
- Studies at the University of California Extension in Landscape Architecture

- **Head designer** - Reliable Landscape Company, Albany, California, design/build firm
- **Associate designer** - Stephen Suzman Design Associates, San Francisco, California, estate and residential garden design
- **Landscape Designer and Partner** - 10 years, Feyerabend and Madden Landscape Design, Emeryville, California

Co-Chair, Design Committee, 8 years - West Alameda Business Association

Spearheaded the redevelopment of the west end business district, culminating in the funding of a 1.5 million dollar upgrade to the area.

Board Member, 3 years - West Alameda Business Association

Advisory Board Member – Ploughshares Nursery

Selected public projects include

The Botanical Gardens at Strybing Arboretum, Golden Gate Park, San Francisco, California

- Design and Renovation – The Meso-American Cloud Forest
- Renovation – The Asian Discovery Garden
- Renovation – The Rhododendron Garden

Network Associates Coliseum and Oakland Arena in Oakland, California

- Planting and Irrigation Renovation of the Oakland Arena
- Design – New Entrance and Demonstrations Gardens at 66th Avenue

Amador Flower Farm, Plymouth, California

- Design and installation management – 12 acre demonstration garden

Professional and community affiliations

- American Society of Landscape Architects
- California Horticultural Society
- Mediterranean Plant Society
- California Native Plant Society

Patrick Archie

Education

Ph.D. student in Environmental Science, Policy, and Management at U.C. Berkeley
-1999 to present

Professional Certificate in Ecological Horticulture from the Agroecology Program at
the University of California at Santa Cruz - Oct. 1994 (20 units UC Extension)

Bachelors of Science in Conservation and Resource Studies, College of Natural
Resources, UC Berkeley - graduated with high honors May, 1992 (3.7 GPA)

Fellowships

Switzer Environmental Fellow: Academic Year 2000 -2001

Sustainable Communities Leadership Program Fellow: Summer 2000

Echoing Green Fellow: September 1998 to August 1999

Experience

Graduate Student Instructor, UC Berkeley, Dept. of Environmental Sciences, Policy, and
Management, ESPM 118 "Agroecology" spring 2000 ESPM 117 "Urban Garden
Ecosystems" fall 2000 and fall 1999

Manager, UC Berkeley Student Organic Garden, spring 1995 to present

Instructor - ESPM 198 "Ecological Garden Management" spring 2000, ESPM 98 / 198
"Introduction to Organic Gardening" fall 2000

Director, Urban SEED, a project of the Tides Center - June 1998 to present

Instructor - Master Gardening Program, Alameda County Cooperative Extension,
spring 1999

Director, RISE Urban Agriculture Program - a program of the East Bay Asian Youth
Center / R.I.S.E. Youth Development Collaborative (EBAYC / RISE), Sept. 1995
to January 1998

Lecturer - UC Berkeley, Dept. of Environmental Sciences, Policy, and Management
ESPM 117: "Urban Garden Ecosystems" spring semesters: 1995, 1996, 1997, and 1998

Americorps - Two years of National Service with EBAYC / RISE, Sept. 95 to July 97

Master Gardener Program Training Coordinator - Alameda County Cooperative
Extension Service, Fall 1996

Project Coordinator - Ecology Center / CNR Youth Gardening Program, summer '95

Christopher Shein

2135 E. 28th St.

Oakland, CA 94606

510-534-9272

WORK EXPERIENCE:

Owner

1998-2004

WILDHEART GARDENS

Oakland, CA

Founded and maintain an edible, native and medicinal Permaculture landscaping "design and build" business in the East Bay. Wildheart Gardens creates urban backyard nurseries, gardens, greywater systems, and orchards. Designed and built Cesar Chavez Community Garden for homeless seniors in downtown Oakland. Designed and built garden vignette (16' x 8') for the San Francisco Flower and Garden Show in 2004. Sold nursery plants at Berkeley Farmers Market. Donate half of nursery stock to community groups annually.

Lecturer

2001-present

MERRITT COLLEGE

Oakland, CA

Lecturer and Lab Manager for Permaculture Design, Natural Building and Nursery Management. Design courses, organize classes, field trips, campus projects, and guest lecturers. Supervise 17-50 students in class and lab weekly. Exposed hundreds of students to Permaculture principles and design. Built Permaculture Garden. Propagate plants for Merritt College Plant Fair, Landscape Horticulture Department, students and non-profits. Built cob bench and other on-going campus improvements.

Coordinator

1994-1996

BERKELEY WORMS COMPOSTING PROJECT

Berkeley, CA

Developed non-profit student-worker cooperative that pioneered campus composting. Annually diverted over 100 tons of vegetable waste from landfills. Developed and taught compost workshops.

Coordinator

1993-1996

SPIRAL GARDENS

Berkeley/Oakland, CA

Developed a non-profit community gardening organization. Taught basic gardening skills and plant propagation. Established 12 gardens, including community gardens, backyard gardens, and market gardens. Worked with youth, elders, homeless, and school groups.

Farm Manager

1997

OUR FARM

Woodside, CA

Managed 60 member Community Supported Agriculture (CSA) farm on 3 separate suburban acres in the South Bay. Included greenhouse propagation, transplanting, direct seeding, soil preparation, composting, harvesting, processing, and distribution of produce.

VOLUNTEER ACTIVITIES:

Educator

2000-present

ECOLOGY CENTER

Berkeley, CA

Teach Saturday Permaculture classes, including: garden design, greywater, seedsaving, ecological gardening, and fruit tree pruning.

Project Developer

1997-present

BASIL (BAY AREA SEED SAVERS INTERCHANGE LIBRARY)

Berkeley, CA

Created a gardener to gardener local seed exchange that is free and open to the public year round through the Ecology Center in Berkeley. Thousands of seed packets given to backyard gardeners, schools, community and homeless gardens.

Christopher Shein

2135 E. 28th St.

Oakland, CA 94606

510-534-9272

Bay Friendly Landscaping Advisory Panel

"Bay Friendly Landscape Guidelines" editor.

2003

San Leandro, CA

Project Developer

2000-2003

SPACE (SUPPORTING PERMANENT AGRICULTURE IN CITIES EVERYWHERE)

Oakland, CA

Volunteer food gardening group met weekly to support local urban food gardens, emphasis on community, school and homeless gardens. Nursery gave away thousands of plants to local gardeners.

Farm Manager

1998-2000

GILL TRACT, UNIVERSITY OF CALIFORNIA, BERKELEY

Albany, CA

Taught Organic Farming Research at UCB. Managed 1-acre organic student farm. Taught basic organic farming skills, including greenhouse management. Extra produce donated to homeless soup kitchens. Seeds grown for BASIL and Seed Savers Exchange and Abundant Life Seed Foundation.

Intern

1992-1995

DETROIT SUMMER

Detroit, MI

A "multicultural, intergenerational youth program/movement to rebuild, redefine and respirit Detroit from the ground up!" Developed community gardens with local high school youth and elders in vacant lots and alleyways across the city. Engaged in intergeneration dialogues, green city safaris, murals, activist trainings.

EDUCATION:

Permaculture Teachers Training Certificate

Michael Kramer and Christopher Peck, Teachers

Oct 2003

Oakland, CA

Pacific School of Herbal Medicine

Student

1999

Oakland, CA

Ecological Gardening Apprentice, Linnaea Farm

STUDENT FARM MANAGER

1996-1997

Cortes Island, British Columbia, CANADA

Apprenticed on a 300-acre land trust. Earned Permaculture Design Certificate. Studied gardening, soil building, compost construction, orchard care, animal care, greenhouse management, elementary school youth gardening and composting education, farm stand operations.

Home Composting Program

MASTER COMPOSTER

Mar-Jun 1994

Alameda County, CA

Fifty hours of community education, training people to compost at home with hot boxes and Redworms.

Centro Linguistico

Intensive Spanish Language Studies

Jan-Feb 1994

Antigua, Guatemala

Bachelor of Art

University of California, Santa Cruz

1993

Santa Cruz, CA

American Studies major. Developed recycling and composting operation for Merrill and Crown Colleges. Founded OUR (Organic Underground Radicals) Garden, a homeless community garden.

Ploughshares Advisory Board

Patrick Archie, Instructor, Department of Environmental Science, Policy and Management, University of California, Berkeley. Archie has been teaching at Berkeley since 1995, including courses in Urban Garden Ecosystems and Agroecology. He has pioneered youth gardening programs, including Urban SEED, RISE Urban Agriculture Program and Ecology Center's CNR Youth Gardening program. He has professional certificate in Ecological Horticulture from the University of California, Santa Cruz, a Bachelors of Science in Conservation and Resource Studies from UC Berkeley, where he is a PhD candidate in Environmental Science, Policy and Management.

Georgia Madden, Partner, Feyerabend & Madden, Incorporated, a landscape architecture and garden design firm located in Oakland, California. Madden comes from a family of European farmers. She spent many of her early years in one of this country's first planned communities, where she developed a deep love for the larger landscape. Recent public work includes two invitational projects in the Botanic Gardens of Strybing Arboretum in San Francisco and the Network Associates Coliseum and Oakland Arena. The partners often teach together, lead occasional garden tours and volunteer for horticultural events.

Alan B. Mart, CEO, InterNatural Harvesters. Mart has consulted in organic land management, owned and operated retail florist business and has been executive chef and owner of several restaurants. Since 1985, he has owned and operated a farm which was developed for intensive organic vegetable production. Mart is Vice Chair of the Marin Food Policy Council, which has drafted regulations on sustainability. He is a founding member of the West Marin Growers Group, which is part of the Marin Organic Label, a non-profit organic standards organization which certifies local farms.

Solomon Rosenzweig, Founder and CEO, DaVinci Fusion. Rosenzweig is a small business entrepreneur and master horticulturalist. He operates one of the first businesses to open on Alameda Point. Rosenzweig has taught numerous courses on fruit propagation and grafting. Most recently, Rosenzweig led a orchard tree grafting class for APC residents.

Attachment #3
Documentation Regarding
Disadvantaged Community Status

APC: Demographics

Date 1/10/2005 - 1/10/2005

Report criteria: Adults resident at any time during date range.

Number of adults (defined as persons with	194	
Number of households	161	
Adult/child		
Adult	194	40.5%
Child	285	59.5%
	479	
Age		
< 6	54	11.3%
6 - 12	116	24.2%
13 - 17	82	17.1%
18 - 25	61	12.7%
26 - 40	68	14.2%
41 - 60	90	18.8%
61 +	8	1.7%
	479	
Gender		
Female	286	59.7%
Male	190	39.7%
No answer	2	0.4%
Transgender/other	1	0.2%
	479	
Health insurance		
Medi-Cal	93	47.9%
Medicare	13	6.7%
No answer	34	17.5%
No insurance	33	17.0%
Other	13	6.7%
Private insurance	5	2.6%
Veteran's Assistance	3	1.5%
	194	
Household income		
No income	53	32.9%
\$ 251 - 500	15	9.3%
\$ 501 - 1000	54	33.5%
\$1001 - 1500	26	16.1%
\$1501 - 2000	8	5.0%
\$2001 +	5	3.1%
	161	
Household type		
Couple with children	35	18.0%
Couple without children	7	3.6%
No answer	1	0.5%
Other	18	9.3%
Single person	49	25.3%
Single person with children	84	43.3%
	194	

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APC: Demographics

Date 1/10/2005 - 1/10/2005

Report criteria: Adults resident at any time during date range.

Number of adults (defined as persons with **194**

Number of households **161**

Housing type

No answer	1	0.5%
Permanent	110	56.7%
Transitional	83	42.8%
	194	

Race

African-American/Black	277	57.8%
Asian	4	0.8%
Caucasian/White	51	10.6%
Hispanic	24	5.0%
Multi-racial	13	2.7%
Native American	96	20.0%
Native Hawaiian/Pac. Islander	5	1.0%
No answer	9	1.9%
	479	