



BOARD MEETING

May 8, 2013 - 5:30 p.m.

Polk County Administration Bldg.
Room 120
111 Court Avenue
Des Moines, IA 50309

AGENDA

The information identified on this agenda may be obtained in accessible formats by qualified persons with a disability. To receive information or to request an accommodation to participate in a meeting, hearing, service, program or activity conducted by this office, contact the Polk County Conservation Board Office, 11407 NW Jester Park Drive, Granger, 515-323-5300.

1) Opening Items

- a) Roll Call
- b) Action on the Minutes of the Previous Meeting(s)

2) Consent Agenda Items

Note: These are routine items and will be enacted by one roll call vote without separate discussion unless a Board Member, PCCB employee or member of the public requests an item be removed to be considered separately. Please notify a PCCB Member to have an item removed.

- a) **Action on Bill List:** approve the PCCB April 2013 bill list.
- b) **Chichaqua Bottoms Greenbelt, Well Enhancement Project, Public Hearing Notice:** approve staff publishing notice of public hearing pursuant to Iowa Code 331.305 that a public hearing will be held on granting an easement to Mid American Energy to bring electricity to the Chichaqua Bottoms Greenbelt well at the PCCB's June 12, 2013 (5:30 p.m.) meeting
- c) **Chichaqua Bottoms Greenbelt, Power Line Easements, Public Hearing Notice:** approve staff publishing notice of public hearing pursuant to Iowa Code 331.305 that a public hearing will be held on granting Iowa Transmission Company an easement at Chichaqua Bottoms Greenbelt at the PCCB's June 12, 2013 (5:30 p.m.) meeting.
- d) **Easter Lake Park, Trail – Phase 1, Public Hearing Notice:** approve staff publishing notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the PCCB's June 12, 2013 (5:30 p.m.) meeting on the plans, specifications, cost estimate and form of contract for the Easter Lake Trail – Phase 1 project.
- e) **Four Mile Creek, Bank Stabilization, Public Hearing Notice:** approve staff publishing notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the PCCB's June 12, 2013 (5:30 p.m.) meeting on the plans, specifications, cost estimate and form of contract for the Four Mile Creek bank stabilization project.
- f) **Jester Park, Camp Area #2 Improvements, Public Hearing Notice:** approve staff publish notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the PCCB's June 12, 2013 (5:30 p.m.) meeting on addition of electric camping pedestals and campsite improvements at Jester Park's Camp Area #2.
- g) **2013 Spring County Auction:** approve the surplus items to be sold at the Polk County Spring Auction on 5/18/2013.



BOARD MEETING

- h) **Easter Lake Park, Water Quality Management Plan Project, Memorandum of Understanding:**
authorizes the Chair to sign this MOU detailing the obligations of all parties collaborating on the Easter Lake Watershed Management Plan Project.
- i) **2012-13 Urban Bow Hunt Annual Report:** approve the 2012-13 Urban Deer Bow Hunt Annual Report.
- j) **Rain Barrels:** approves the sale of pre-constructed 33 gallon rain barrels to the public at a cost of \$50 per barrel.
- 3) **Public Hearing: Jester Park, Camp Area #2 Improvements, Electric Easement**
- 4) **Budget Amendment, April 3rd Quarter – Update FY 2012-13**
- 5) **Fort Des Moines, Pond Dredging – Design Services/Change Order**
- 6) **Employees, Recent Hires**
- 7) **Employee Introductions**
- 8) **Land Acquisitions, Closed Session**
- 9) **Director's Evaluation, Possible Closed Session**

PUBLIC COMMENTS

FINANCIAL REPORTS

DISCUSSION & REMARKS

ADJOURNMENT

1) Opening Items

a) Roll Call

b) Action on the Minutes of the Previous Meeting(s)

The Polk County Conservation Board met in regular session on April 10, 2013. Minutes for the meeting are attached.

2) Consent Agenda Items

a) Action on the Bill List

April 2013 expenditures have been e-mailed to the Board for review.

STAFF RECOMMENDATION: That the Board approve the PCCB April 2013 bill list.

b) Chichaqua Bottoms Greenbelt Well Enhancement Project, Public Hearing Notice

At the Board's March 2013 meeting the Board approved publishing notice to hold public hearing at either the April or May meeting depending on which meeting allowed for adequate notice of the public hearing to provide an electric easement to Mid American Energy to bring electricity to the new well. Unfortunately, the location of the well has not yet been determined but is likely to be soon. With this in mind staff request that the Board approve staff publishing notice of a public hearing on an easement to Mid American Energy for electric service to the CBG well at your June 2013 regular meeting.

STAFF RECOMMENDATION: That the Board approve staff publishing notice of public hearing pursuant to Iowa Code 331.305 that a public hearing will be held on granting an easement to Mid American Energy to bring electricity to the Chichaqua Bottoms Greenbelt well at the PCCB's June 12, 2013 (5:30 p.m.) meeting.

c) Chichaqua Bottoms Greenbelt, Power Line Easements, Public Hearing Notice

The company who owns the transmission line that crosses Chichaqua has asked to renegotiate the easement. They would like to realign some poles along NE 118th Ave. and renegotiate the corridor as it crosses Sand Hill and Engeldinger Marsh. The PCCB will need to hold a public hearing and recommend to the Board of Supervisors that they grant the easements. Staff requests that the Board hold the public meeting and consider the request for a new easement at our June meeting.

- Loren Lown
Natural Resources Specialist

STAFF RECOMMENDATION: That the Board approve staff publishing notice of public hearing pursuant to Iowa Code 331.305 that a public hearing will be held on granting Iowa Transmission Company an easement at Chichaqua Bottoms Greenbelt at the PCCB's June 12, 2013 (5:30 p.m.) meeting.

d) Easter Lake Park, Trail – Phase 1, Public Hearing Notice

Easter Lake Trail Phase 1 is scheduled to be bid and the results of that bid letting brought to the Board at our June Meeting. The Board will need to hold a public hearing on the plans, specifications, cost estimate and form of contract for this project. Award of the bid will follow the public hearing.

- Loren Lown
Natural Resources Specialist

STAFF RECOMMENDATION: That the Board approve staff publishing notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the PCCB's June 12, 2013 (5:30 p.m.) meeting on the plans, specifications, cost estimate and form of contract for the Easter Lake Trail – Phase 1 project.

e) Four Mile Creek, Bank Stabilization, Public Hearing Notice

The design for the construction of the Gay Lea Wilson Trail between Aurora and Ankeny this summer has shown several lengths of stream bank that parallel the planned trail are unstable and future erosion will threaten the new trail. Snyder and Associates are designing stabilization for two sections of trail which should be installed at the time the trail is being built.

Staff anticipates that the stabilization project will to be bid and the results of that bid letting brought to the Board at our June Meeting. The Board will need to hold a public hearing on the plans, specifications, cost estimate and form of contract for this project. Award of the bid will follow the public hearing.

- Loren Lown
Natural Resources Specialist

STAFF RECOMMENDATION: That the Board approve staff publishing notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the PCCB's June 12, 2013 (5:30 p.m.) meeting on the plans, specifications, cost estimate and form of contract for the Four Mile Creek bank stabilization project.

f) Jester Park, Camp Area #2 Improvements, Public Hearing Notice

Staff is requesting that a Public Hearing be held at the June 2013 PCCB meeting to present the addition of electric camping pedestals and camp site improvements planned for Jester Park Camp Area #2.

STAFF RECOMMENDATION: That the Board approve staff publish notice of public hearing pursuant to Iowa Code 331.305, that a Public Hearing will be held at the

PCCB's June 12, 2013 (5:30 p.m.) meeting on addition of electric camping pedestals and campsite improvements at Jester Park's Camp Area #2.

g) 2013 Spring County Auction List

Each October for the past several years Polk County has held an annual equipment surplus sale and PCCB has participated. This year they are adding an auction, it will be held this spring on May 18. The auction will be held at the Greenfield Auction Site, 3920 Dixon, Des Moines, Iowa. The attached is a list of obsolete/non-usable items to be disposed of at this year's spring auction contingent upon board approval.

- George M. Lentz
Eqpt. Maint. Supt.

STAFF RECOMMENDATION: That the Board approve the surplus items to be sold at the Polk County Spring Auction on 5/18/2013.

h) Easter Lake Park, Water Quality Management Plan, Memorandum of Understanding

Staff has previously presented information on the Easter Lake Watershed and the Memorandum of Understanding (MOU) being developed to govern the interagency project and the EPA 319 grant application related to this project. The grant was awarded and the assembled partners are beginning work on the rehabilitation of Easter Lake and its watershed.

It was determined that the Polk County Soil and Water Conservation District (PCSWCD) was the logical lead agency to administer the grant. They have the facilities to house a coordinator, the ability to hire staff, and the previous experience working with 319 funding necessary to effectively administer the grant.

The PCSWCD and the PCCB, the City of Des Moines, DNR, Natural Resources Conservation Service, and Iowa Department of Agriculture and Land Stewardship are all signatories.

This MOU is the result of many years of planning. The partners are presenting it to their respective Boards for signature. The MOU is attached.

- Loren Lown
Natural Resources Specialist

STAFF RECOMMENDATION: That the Board authorizes the Chair to sign this MOU detailing the obligations of all parties collaborating on the Easter Lake Watershed Management Plan Project.

i) 2012-13 Urban Bow Hunt Annual Report

The 2012-2013 Urban Deer Bow-hunt concluded its 15th season on January 27, 2013. Attached is the Annual Report that was approved at the Deer Task Force meeting on Monday, April 15. The report details hunt statistics for the 2012-2013 season.

Harvest numbers from 11 participating organizations totaled 536 antler-less and 334 Incentive bucks from this past season. This compares to 570 antler-less and 38 Incentive bucks from last season.

Harvest numbers in Polk County Conservation areas are slightly down from last season's numbers. Hunters harvested 101 antler-less and 6 bucks from our 9 areas, compared to 109 antler-less and 7 bucks from last year. The Buck Incentive Program continues to interest bow-hunters.

The aerial survey indicates that deer numbers are approaching the 30 deer/sq. mile goal in many of the surveyed areas. This positively reflects on the program's success and mission to maintain deer populations in Polk County at ecologically-acceptable levels.

STAFF RECOMMENDATION: That the Board approve the 2012-13 Urban Deer Bow Hunt Annual Report.

j) Rain Barrels

The Environmental Education unit (EE) would like to implement a rain barrel program to advocate simple and effective water conservation practices within our communities. The program will provide home owners an opportunity to incorporate water conservation techniques into their lifestyle. Barrels will be pre-constructed by EE staff and/or volunteers and made available for purchase to the public. An educational sheet will accompany each barrel providing information about water conservation, installation, maintenance, and how rain barrel water can and cannot be used.

STAFF RECOMMENDATIONS: That the Board approves the sale of pre-constructed 33 gallon rain barrels to the public at a cost of \$50 per barrel.

3) Public Hearing: Jester Park, Camp Area #2 Improvements, Electric Easement

Public hearing will be held on granting an easement to Mid American Energy at Jester Park to extend electric service from an existing transformer located near the lower shower house and extend east approximately 500 feet, for a new transformer setting. The easement is necessary for the addition of electric camping sites at Jester Park's camp area #2.

Description of property containing easement area: A part of the SE ¼ of the NE ¼ of Section 32, Township 81 North, Range 25 West of the 5th P.M. Polk County, Iowa.

STAFF RECOMMENDATION: That the Board determine that the easement area described as "A part of the SE ¼ of the NE ¼ of Section 32, Township 81 North, Range 25 West of the 5th P.M. Polk County, Iowa" located within Jester Park is no longer necessary for park purposes or will not interfere with park purposes and forwarding the same on to the Polk County Board of Supervisors for the conveyance of easement to Mid American Energy Company.

4) Budget Amendment, April 3rd Quarter – Update FY 2012-13

On April 15, 2013, the proposed final budget amendment for the current fiscal year was forwarded to the Polk County Budget Staff for consideration by the Board of Supervisors. Amendment processes (that occur in August and April of each fiscal year) give Polk County Conservation an opportunity to adjust revenues and expenses in the various funds based on more current financial data than when the initial budget for the fiscal year is prepared in November of the preceding year. The following is a recap of the April 3rd Quarter Amendment submitted for consideration:

PCWLL FUND

- Expenditures were increased from \$0 to \$3,679,362 to allow expenditures for all approved projects to date. They probably won't all get executed before June 30th but it is better to be over-appropriated since this is a statutory fund and we cannot over expend it.

CONSERVATION RESERVE FUND

- Expenditures were decreased by \$2,235,566 to reflect the trail activity being moved to the bond fund 51 and to adjust the actual expenditures for our special projects list.
- Revenues were decreased by \$1,534,800 to reflect the decreased trail activity due to the late letting of the Gay Lea Wilson trail between 29th and Aurora.

REAP FUND

- Expenditures were increased by \$33,234 to reflect minor corrections on equipment expenditures and special projects.

RISK MANAGEMENT FUND (INSURANCE/WORKER'S COMP & MEDICAL)

- Expenditures were increased by \$70,900 to cover worker's compensation claims and unemployment claims that are anticipated. The Board of Supervisors will cover these expenses since PCCB has no control on what is spent out of this fund, Risk Management handles all claims.

FULL TIME SALARIES

- In the 3rd quarter amendment all vacancy factors for salaries and benefits are removed from the budget in funds 1 & 2.

GENERAL FUND

- Adjustments were done between units that did not affect the bottom line (moving extra help dollars from one unit to the other, etc.).
- Adjustments were also made to grants (including FEMA) in both revenues and expenditures to line up with the actual figures for the fiscal year. The Board of Supervisors does not consider adjustments to grants when looking at the operations.

STAFF RECOMMENDATION: The Board approves the April 2013 proposed 3rd quarter budget amendment as submitted.

5) Fort Des Moines, Pond Dredging – Design Services/Change Order

At the March 2013 meeting the Board approved hiring Stanley Consultants to provide engineering services to address pond improvements at Fort Des Moines through a series of ditch checks, rock sills, dredging, and other practices to improve water quality. The initial contract in the amount of \$93,314 included the construction of one basin (dam) to hold the dredged material.

Staff met with engineers from Shive-Hattery and Stanley Consultants, and it was determined impractical to construct a single basin to hold approximately 30,000 cubic yards of sediment from the dredging project. Problems associated with one basin include; dam would have been visually obtrusive, it would have required us to periodically back up water on school property, and would have required closing a majority of park roads during the dredging process.

As a result of our discussion, a second site was selected in the northeast corner of the park. Benefits of the second basin would be the elimination of park road damage (heavy construction equipment would stay off park roads), it would allow trail access across two steep ravines by incorporating the basin’s dam location on proposed trail routes and would help clear invasive vegetation in the northeastern portion of the park allowing PCCB staff to return the site to an oak/hickory woodland.

- Mark A. Dungan, Natural Resources Manager

STAFF RECOMMENDATION: That the Board approves hiring Stanley to complete the design services for an additional basin (dam) in Fort Des Moines for a cost not to exceed \$19, 045 which includes geotechnical investigations, archeological and topographical surveys.

6) Employees, Recent Hires

The following individuals have been hired for employment with PCCB:

| Start Date | Employee | Position | Rate of Pay |
|------------|-------------------|-------------------------|-------------|
| 5/6/2013 | Lucas Harshbarger | Mechanic | \$25.19/Hr |
| 4/8/2013 | Michael Lanoue | Cons. Lbr. II | \$11.14/Hr |
| 5/2013 | Erica Mundt | Asst. Riding Instructor | \$11.33/Hr |

Information only.

7) Employee Introductions

8) Land Acquisition(s), Closed Session

9) Director’s Evaluation, Possible Closed Session

PROCEEDINGS OF THE POLK COUNTY CONSERVATION BOARD

The Polk County Conservation Board met in regular session on Wednesday, April 10, 2013. The meeting was called to order at 5:35 p.m.

#1 – Open House

An open house was held from 5:00-5:30 p.m. in honor of Michelle McEnany's time served as a Polk County Conservation Board Member.

#2a – Roll Call

Board Present: Levis, Smith, Cataldo, Kurovski, Johnson

#2b – Action on the Minutes of the Previous Meeting(s)

IT WAS MOVED BY CATALDO THAT THE POLK COUNTY CONSERVATION BOARD SHALL APPROVE THE MARCH 13, 2013 MEETING MINUTES AS WRITTEN.

VOTE YEA: SMITH, LEVIS, KUROVSKI, JOHNSON

VOTE ABSTAIN: CATALDO

#3 – Consent Agenda

IT WAS MOVED BY CATALDO THAT THE POLK COUNTY CONSERVATION BOARD APPROVE THE FOLLOWING CONSENT AGENDA ITEMS:

A) PCCB MARCH 2013 LIST OF EXPENDITURES;

B) AUTHORIZING PCCB DIRECTOR TO SIGN MEMORANDUM OF UNDERSTANDINGS AGREEMENTS FOR MOWING SERVICES PROVIDED BY PCCB;

C) PURCHASE OF THREE CXT VAULT TOILETS FROM CXT/LB FOSTER COMPANY FOR PLACEMENT AT HIGH TRESTLE TRAIL OASIS, GREAT WESTERN TRAILHEAD PARKING LOT AND EASTER LAKE SHELTER #4 AT A COST OF \$65,500 WITH FUNDS PROVIDED BY THE POLK COUNTY WATER &

LAND LEGACY BOND AND APPROVE THE PCCB CHAIR SIGNING PROPOSAL FORMS;

D) ENTERING INTO A 28e AGREEMENT WITH THE IOWA DEPARTMENT OF NATURAL RESOURCES FOR THE PURPOSE OF IMPROVING WATER QUALITY AND URBAN FISHERIES AT FORT DES MOINES POND AND AUTHORIZES THE PCCB CHAIR TO SIGN THE AGREEMENT WHEN APPROVED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES' NATURAL RESOURCES COMMISSION;

E) ACCEPTING LAND LOCATED AT CHICHAQUA BOTTOMS GREENBELT AS A GIFT FROM THE CITY OF DES MOINES AND AUTHORIZES THE PCCB CHAIR TO SIGN THE DEED AND FURTHER INSTRUCTS STAFF TO RECORD THE COMPLETED DEED WITH THE COUNTY RECORDER;

F) PUBLISHING NOTICE OF PUBLIC HEARING PURSUANT TO IOWA CODE 331.305 THAT A PUBLIC HEARING WILL BE HELD AT THE PCCB'S MAY 8, 2013 (5:30 P.M.) MEETING ON GRANTING AN EASEMENT TO MID AMERICAN ENERGY TO EXTEND ELECTRIC SERVICE NEEDED FOR ELECTRIC PEDESTALS AT JESTER PARK CAMP AREA #2;

G) PURCHASE OF TWO VEHICLES FROM THE VENDORS QUOTED FOR THE TOTAL PACKAGE PRICE NOT TO EXCEED \$57,894.26;

H) RATIFYING ACTION DIRECTING STAFF TO PUBLISH NOTICE OF PUBLIC HEARING PURSUANT TO IOWA CODE 331.305 THAT A PUBLIC HEARING WILL BE HELD AT THE PCCB'S APRIL 10, 2013 (5:00 P.M.) MEETING ON ROAD RESURFACING TO TAKE PLACE OF EASTER LAKE PARK;

I) ACCEPTING ELDER CORPORATION'S BID OF \$640,000 TO COMPLETE THE PROJECT ON THE GAY LEA WILSON GREENWAY TRAIL ACCORDING TO SPECIFICATIONS IDENTIFIED IN THE CONTRACT AND AUTHORIZES THE PCCB CHAIR TO SIGN A CONTRACT WITH THE AFOREMENTIONED COMPANY;

J) LEASING 15 TRAIL HORSES FOR THE 2013 SEASON FROM NOLAN HORSES AT A COST NOT TO EXCEED \$13,000;

K) PRESENTED LIST OF INDIVIDUALS FOR SEASONAL EMPLOYMENT WITH POLK COUNTY CONSERVATION BOARD;

**L) REDUCTION IN THE CONTRACT PRICE WITH HR GREEN FOR WORK ON THE CHICHAQUA BOTTOMS GREENBELT MASTER PLAN FROM \$74,700 TO \$67,700 AND AUTHORIZE THE PCCB CHAIR TO SIGN A CONTRACT WITH DR. SUMMERVILLE AND DRAKE UNIVERSITY IN THE AMOUNT OF \$9,868 TO COMPLETE ECOLOGICAL RESEARCH AT CHICHAQUA BOTTOMS GREENBELT THAT WILL HELP ASSIST WITH THE DEVELOPMENT OF THE MASTER PLAN.
VOTE YEA: CATALDO, SMITH, JOHNSON, KUROVSKI, LEVIS,**

#4 – Public Hearing: Equipment Maintenance Building

Chair Smith opened public hearing on the construction of a 60'x104' pole building with 16' sidewalls for use as an Equipment Maintenance repair building at an estimated cost of approximately \$200,000 to \$225,000.

As there were no comments, Chair Smith closed the public hearing.

**IT WAS MOVED BY KUROVSKI THAT THE POLK COUNTY CONSERVATION BOARD APPROVES THE PLANS AND SPECIFICATIONS FOR THE CONSTRUCTION OF A 60'X104' POLE BUILDING WITH 16' SIDEWALLS FOR USE AS AN EQUIPMENT MAINTENANCE REPAIR BUILDING WITH AN ESTIMATED CONSTRUCTION COST OF \$325,000 WITH FUNDING FOR THIS PROJECT PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND.
VOTE YEA: JOHNSON, KUROVSKI, LEVIS, SMITH, CATALDO**

#5 – Equipment Maintenance Building, Award of Bid

**IT WAS MOVED BY CATALDO THAT THE POLK COUNTY CONSERVATION BOARD APPROVES PRO-LINE BUILDING CORP. BID OF \$179,500 FOR THE CONSTRUCTION OF AN EQUIPMENT MAINTENANCE BUILDING; APPROVES ASSOCIATED CONSTRUCTION COST ESTIMATES OF \$145,500 FOR A TOTAL PROJECT COST NOT TO EXCEED \$325,000 WITH FUNDING PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND AND FURTHER AUTHORIZE THE PCCB CHAIR TO SIGN CONTRACT DOCUMENTS WITH PRO-LINE BUILDING COMPANY.
VOTE YEA: KUROVSKI, JOHNSON, LEVIS, CATALDO, SMITH**

#6 – Public Hearing & Approval of Expenditure: Easter Lake Road Resurfacing

Chair Smith opened the public hearing on expending approximately \$200,000 on road resurfacing at Easter Lake Park.

As there were no comments, Chair Smith closed the public hearing.

**IT WAS MOVED BY LEVIS THAT THE POLK COUNTY CONSERVATION BOARD APPROVE STAFF WORKING WITH POLK COUNTY ENGINEERING DEPARTMENT AND EXPENDING UP TO \$200,000 TO COMPLETE NEEDED REPAIRS TO THREE AREAS AT EASTER LAKE PARK ASPHALT ROADS WITH FUNDING FOR THIS PROJECT PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND.
VOTE YEA: LEVIS, SMITH, CATALDO, JOHNSON, KUROVSKI**

#7 – Architectural/Engineering Services, Award of Contracts

1 – Chichaqua Valley Trail, Snyder & Associates, Inc.

IT WAS MOVED BY LEVIS THAT THE POLK COUNTY CONSERVATION BOARD APPROVE ENTERING INTO A CONTRACT WITH SNYDER & ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO CHICHAQUA VALLEY TRAIL

BRIDGE IMPROVEMENTS PLANNING PHASE AT A COST NOT TO EXCEED \$12,000 WITH FUNDING PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND.

VOTE YEA: SMITH, KUROVSKI, LEVIS, JOHNSON, CATALDO

2 – Yellow Banks Park Pond Dam Rehabilitation

IT WAS MOVED BY LEVIS THAT THE POLK COUNTY CONSERVATION BOARD APPROVE ENTERING INTO A CONTRACT WITH STANLEY CONSULTANTS FOR ENGINEERING SERVICES RELATED TO THE YELLOW BANKS PARK POND DAM REHABILITATION PROJECT AT A COST NOT TO EXCEED \$44,705 WITH FUNDING PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND.

VOTE YEA: LEVIS, CATALDO, KUROVSKI, SMITH, JOHNSON

3 – Chichaqua Bottoms Greenbelt Wetlands Design, Stanley Consultants

IT WAS MOVED BY JOHNSON THAT THE POLK COUNTY CONSERVATION BOARD APPROVE ENTERING INTO A CONTRACT WITH STANLEY CONSULTANTS FOR ENGINEERING SERVICES FOR CHICHAQUA BOTTOMS GREENBELT WETLAND DESIGN PROJECT AT A COST NOT TO EXCEED \$86,476.00 WITH FUNDING PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND.

VOTE YEA: JOHNSON, CATALDO, KUROVSKI, LEVIS, SMITH

#8 – Beaver Creek Greenbelt, Land Acquisition

IT WAS MOVED BY KUROVSKI THAT THE POLK COUNTY CONSERVATION BOARD AUTHORIZE THE PCCB CHAIR TO SIGN THE OFFER TO PURCHASE PROPERTY FROM XENIA RURAL WATER LOCATED AT BEAVER CREEK GREENBELT AT A TOTAL PRICE OF \$92,995 WITH FUNDS PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND; DIRECT STAFF TO COMPLETE THE ACQUISITION PROCESS; AND AUTHORIZES THE PCCB CHAIR TO SIGN THE DEED AND STAFF TO RECORD THE SAME.

VOTE YEA: KUROVSKI, LEVIS, SMITH, JOHNSON, CATALDO

#9 – Camp Creek, Land Acquisition

IT WAS MOVED BY LEVI THAT THE POLK COUNTY CONSERVATION BOARD AUTHORIZE THE PCCB CHAIR TO ACCEPT AND SIGN THE TRANSFER OF OPTION-TO-BUY FROM THE IOWA NATURAL HERITAGE FOUNDATION; INSTRUCT STAFF TO PROCEED WITH THE ACQUISITION OF THE RIST/GULLING PROPERTY (49.516 ACRES) LOCATED ADJACENT TO CAMP CREEK AT A TOTAL PRICE OF \$346,612 WITH FUNDS PROVIDED BY THE POLK COUNTY

WATER & LAND LEGACY BOND; AUTHORIZE THE PCCB CHAIR TO SIGN THE PURCHASE AGREEMENT; AND DIRECT STAFF TO SECURE AN EASEMENT TO ALLOW FULL PUBLIC ACCESS ACROSS METRO WASTE AUTHORITY PROPERTY TO THE NEW ACQUISITION.

VOTE YEA: SMITH, JOHNSON, CATALDO, LEVIS

VOTE ABSTAIN: KUROVSKI

#10 – Chichaqua Bottoms Greenbelt, Land Acquisition – Former Shaw Property

IT WAS MOVED BY LEVI THAT THE POLK COUNTY CONSERVATION BOARD AUTHORIZES STAFF TO PAY THE BALANCE DUE OF \$686,189.37 TO THE IOWA NATURAL HERITAGE FOUNDATION (INHF) TO PURCHASE THE FORMER SHAW PROPERTY LOCATED AT CHICHAQUA BOTTOMS GREENBELT FROM THE INHF WITH FUNDS PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND; AUTHORIZE THE PCCB CHAIR TO SIGN THE PURCHASE DOCUMENTS; AND AUTHORIZES STAFF TO EXECUTE THE AWARDED REAP GRANT IN THE AMOUNT OF \$258,860 TO OFFSET SOME OF THE COSTS OF ACQUISITION.

VOTE YEA: CATALDO, KUROVSKI, SMITH, LEVIS, JOHNSON

#11 – Chichaqua Bottoms Greenbelt, Land Acquisition

IT WAS MOVED BY CATALDO THAT THE POLK COUNTY CONSERVATION BOARD ACCEPTS THE DES MOINES AIRPORT'S OFFER TO SELL PROPERTY LOCATED AT CHICHAQUA BOTTOMS GREENBELT AT A COST OF \$75,000 WITH FUNDS PROVIDED BY THE POLK COUNTY WATER & LAND LEGACY BOND; DIRECTS STAFF TO PURSUE ACQUISITION; AND AUTHORIZES THE PCCB CHAIR TO SIGN THE REQUIRED DOCUMENTS TO COMPLETE THE ACQUISITION.

VOTE YEA: KUROVSKI, LEVIS, JOHNSON, SMITH, CATALDO

#12 – West Des Moines Pine Avenue Trail Partnership

IT WAS MOVED BY JOHNSON THAT THE POLK COUNTY CONSERVATION BOARD APPROVES POLK COUNTY CONSERVATION BOARD COST SHARING WITH THE CITY OF WEST DES MOINES IN THE CONSTRUCTION OF THE PINE AVENUE TRAIL UP TO \$90,000 USING AVAILABLE RESERVE FUNDS.

VOTE YEA: JOHNSON, SMITH, LEVIS, CATALDO, KUROVSKI

#13 – Deputy Director & Construction Maintenance Supervisor Positions

IT WAS MOVED BY LEVIS THAT THE POLK COUNTY CONSERVATION BOARD RATIFY THE HIRING OF GARY HALBERSMA FOR THE POSITION OF

**CONSTRUCTION MAINTENANCE SUPERVISOR AND RICHARD LEOPOLD FOR
THE POSITION OF DEPUTY DIRECTOR.**

VOTE YEA: CATALDO, JOHNSON, KUROVSKI, LEVIS, SMITH

#14 – Organizational Review

**IT WAS MOVED BY JOHNSON THAT THE POLK COUNTY CONSERVATION
BOARD APPROVE THE REORGANIZATION CHART AS REVISED.**

VOTE YEA: SMITH, CATALDO, JOHNSON, LEVIS, KUROVSKI

#15 – Employee Introductions

PCCB employees Chris Clingan, Asst. Park Ranger, and Loren Lown, Natural Resources Specialist, introduced and told a little about themselves to the Board.

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ADJOURNNMENT

The meeting was adjourned at 7:55 p.m.

Prepared by: Cindy Lentz

Polk County 2013 Spring Auction Items
May 18, 2013

- 1 1998 GMC Sonoma
- 2 1999 Starlite trailer
- 3 Kubota 5500 generator
- 4 Speedaire air compressor
- 5 Cambell Hausfeld air compressor
- 6 Clayton brake washer
- 7 Snap On 1/2" cordless impact
- 8 Stihl concrete saw
- 9 Wacker compactor
- 10 Dayton pedestal fan
- 11 Lincoln 225 amp welder
- 12 25 gallon water tank
- 13 Craftsman tool box (small)
- 14 50 gallon water tank
- 15 HP officejet 7210 printer

MEMORANDUM OF UNDERSTANDING

Water Quality Management Plan Project Easter Lake, Polk County, Iowa

This MEMORANDUM OF UNDERSTANDING is made and entered into by and among the City of Des Moines, Iowa (Des Moines), the Polk County Soil and Water Conservation District (Polk SWCD), the Polk County Conservation Board (Polk CCB), the Iowa Department of Agriculture and Land Stewardship (IDALS), the Iowa Department of Natural Resources (IDNR) and the Natural Resources Conservation Service (NRCS), hereafter known as Party Members (individually as Party Member).

BACKGROUND

Easter Lake, located within Easter Lake Park, has been a great recreational resource for the residents of Des Moines, Iowa since 1967. However, over the last several years the water quality of the lake has diminished due to increased loads of nutrients and sediment as development has occurred around the lake. Currently, the lake suffers from poor water clarity, algal blooms, high sedimentation rates, low oxygen concentrations, and a poor fishery. In response to these water quality problems, area stakeholders worked together to develop the Easter Lake Water Quality Management Plan (the Plan). The planning effort was co-sponsored by the Iowa Department of Natural Resources, City of Des Moines, and Polk County Conservation Board. Other support agencies involved in review and development of the Plan included; the Iowa Department of Agriculture and Land Stewardship, Polk County Soil and Water Conservation District, and the Natural Resources Conservation Service. The Plan serves as the most current culmination of existing studies, citizen and stakeholder input, and the consultant's recommendations for structural and non-structural Best Management Practices intended to reduce delivery of pollutants to stormwater, reduce stormwater runoff, and renovate Easter Lake.

RECITALS

WHEREAS, the Party Members met regularly from August 2010 through October 2012 and the result was the Plan, which was submitted to the Party Members by EA, Engineering, Science, and Technology, Inc., the consultant hired to draft the Plan. The Plan is incorporated

into this Memorandum of Understanding by this reference and is on file at the IDNR. The Plan is an attempt to rehabilitate and protect the lake commonly known as Easter Lake that is located in Des Moines, Iowa.

WHEREAS, the Party Members worked in cooperation with a Technical Advisory Team and local Steering Committee to produce the Plan.

WHEREAS, the Party Members agree to cooperate in developing final engineering designs to implement the Plan; and

WHEREAS, the Party Members agree to cooperate in executing the Implementation Strategy presented in Section 7 of the Plan as described herein.

AGREEMENT

NOW, THEREFORE, the Party Members agree to work in good faith to implement the Plan through the provisions stated below:

1. Party Members to this Memorandum of Understanding shall provide guidance and technical assistance to one another as needed to accomplish activities necessary to complete implementation of the Plan. Each Party Member shall identify a primary project manager who shall serve as the main point of contact for each Party Member under this Memorandum of Agreement.
2. Each Party Member may, at its respective discretion, implement certain aspects of the Plan. Such Party Member shall endeavor to cooperate with other Party Members and/or committees established by the Party Members in conducting such activities to implement the Plan.
3. A Party Member may, upon general consensus of the Party Members, service as a coordinating agency for activities undertaken pursuant to this Memorandum of Understanding. A coordinating agency, for purposes of this Memorandum of Understanding, shall be a Party Member who takes on coordination role in one or

more aspects of the activities described in this Memorandum of Understanding. Coordination may involve setting up meetings with the Party Members, procuring negotiations with vendors, managing vendor contracts and reporting progress of Plan implementation.

4. Nothing in this Memorandum of Understanding shall bind any Party Member to spend money or otherwise fund any activities described herein. Any expenditures of funds, pledges of resources or other financial obligation shall be subject to a separate agreement.
5. One or more Party Members may hire consultants to provide design and engineering services necessary to implement the Plan. These services will primarily consist of providing technical guidance in selecting the Best Management Practices for controlling pollutant sources from the watershed and within the lake, designing and providing technical drawings for structural features to manage pollutant sources, overseeing construction of structural practices, and reporting progress in implementing Best Management Practices to the Party Members. A Party Member seeking such consultant shall endeavor to include other Party Members in the development of scopes of work, in the selection of consultants, and in review of any such consultant's work; however, nothing in this Memorandum of Understanding shall be determined to create a third party beneficiary or contractual privity between the consultant and the non-contracted Party Member or cause the contracting Party Member to violate any applicable procurement requirements. A Party Member procuring the services of such consultant shall be solely liable for any related contracts.
6. The Party Members shall develop a budget for Plan implementation, which shall include the funds required per task or activity as well as the identification of the sources and amounts of available funding. While nothing in this Memorandum of Understanding creates any funding commitment on the part of any Party Member, some Party Members have already made funding commitments to implementation of what has been called Phase 1 of the Plan. Such funding commitments made to-date, as well as the source of these funding commitments directed toward implementation of Phase 1 of the Plan, is attached as Exhibit A and incorporated by

- this reference. Any subsequent funding commitments or other commitments of resources shall be subject to additional agreement on the part of the Party Members.
7. The Party Members understand and agree that additional documents and agreements will be necessary in order to move forward with implementation of the Plan and that this Memorandum of Understanding does not create obligations on the Party Members beyond those express obligations described herein. However, all Party Members agree to use their good faith efforts to implement the Plan.
 8. Each Party Member shall have the right to withdraw from this Memorandum of Understanding without prejudice and without penalty upon providing written notice to all Party Members. For purposes of this provision, notice shall be made to either the primary project manager identified for each Party Member or to the signatory of each Party Member to this Memorandum of Understanding.
 9. Nothing in this Memorandum of Understanding shall create joint or several liability among the parties. Moreover, nothing in this Memorandum of Understanding shall be or interpreted to be a waiver of sovereign immunity for any of the Party Members that may have such a claim.
 10. This Memorandum of Understanding may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterpart copies of this Memorandum of Understanding, as executed, shall be maintained by each of the Party Members.

City of Des Moines, Iowa

T.M. Franklin Cownie, Mayor

Polk County Conservation Board

Mike Smith, Chair

Polk County Soil and Water Conservation District

Chip Mathis, Chair

Iowa Department of Agriculture and Land Stewardship

Jay Johnson, Deputy Secretary of Agriculture

Iowa Department of Natural Resources

Chuck Gipp, Director

Natural Resources Conservation Service

Jay Mar, State Conservationist



Form A – Cover Sheet and Executive Summary

Water Quality Project Title: Easter Lake Watershed Project Phase One

Location of Watershed Targeted for Implementation Activities: Easter Lake Watershed, Polk County, Iowa

Agency or Organization Submitting Application: Polk Soil and Water Conservation District

Contact Person: Chip Mathis
Street Address: 1513 North Ankeny Blvd. Ste 3
City/State/ZIP: Ankeny, Iowa 50023
Telephone Number: 515-964-1883 ext. 3
E-mail Address: edf3500@windstream.net & jennifer.welch@ia.nacdnet.net

| | |
|--|-------------------------|
| DNR Implementation Grant Funding Requested for Life of Project: | \$754,537.50 |
| Amount of Matching Federal Funds | + \$0 |
| Amount of Matching State Funds | + \$ 208,750.00 |
| Amount of Matching Local Funds | + \$ 699,575.00 |
| Amount of Landowner Contribution (Anticipated) | + \$ 99,787.50 |
| Amount of Volunteer Labor | + \$150,300.00 |
| Total Project Cost | = \$1,912,950.00 |

Project Executive Summary

Easter Lake, located within the city of Des Moines, has been a great recreational resource for the residents of Des Moines, IA since 1967. However over the last several years the water quality of the lake has diminished due to increased loads of nutrients and sediment as development has occurred around the lake. Currently the lake suffers from poor water clarity, algal blooms, high sedimentation rates, low oxygen concentrations, and a poor fishery. Since construction of the lake in 1967 the water volume has decreased by nearly 30% as a result of sediment being deposited in the lake. In response to these water quality problems, area stakeholders worked together to develop the Easter Lake Water Quality Management Plan (WQMP). The WQMP serves as the culmination of existing studies, citizen and stakeholder input, and a consultant's recommendations for structural and non-structural BMPs intended to reduce stormwater runoff and delivery of pollutants watershed and ultimately renovate Easter Lake through dredging and other in-lake improvements. Phase One projects and programs are aimed at reducing external pollutant delivery to the lake through cost-share and financial incentives for watershed best management practices and two major stream stabilization projects. Watershed best management practices will focus on Rainscaping practices such as rain gardens, bioswales, pervious pavement, and more. Decreasing the transport of eroded soil is critical to restoring Easter Lake and the watershed to a healthy, functioning system. The goal of Phase One is a 10% reduction of sediment loading and a 21% reduction phosphorus loading to Easter Lake.

Signature of Organization Chairperson: *Chip Mathis*

Form B – Background Information

Watershed Characteristics

Easter Lake is a man-made reservoir located within the city limits of Des Moines in Polk County, Iowa. The lake was constructed in 1967 on the site of the last operating coal mine in Polk County. The South Town Lake Development Society, a neighborhood organization, promoted the use of this site as a park rather than its proposed use as a landfill. The lake is largely contained within the borders of Easter Lake Park, which is managed by the Polk County Conservation Board (PCCB). Des Moines city parks in the watershed include Yeader Creek Park, Jordon Park, and Ewing Park. All of Easter Lake’s shoreline is in public ownership. During the 2002-2005 period, Easter Lake averaged 116,448 visitors annually. They spent an average \$5.69 million annually which in turn supports 69 jobs and \$1.42 million of labor income in the region.

The watershed for Easter Lake covers a total of 6,380 acres. The Des Moines International Airport is the western terminus of the watershed. Yeader Creek, which starts near the airport, flows east into Easter Lake. Two unnamed creeks from the south and southwest also feed into Easter Lake (See Appendix A, Map 1). The northern edge of the watershed is bordered approximately by Watrous Avenue. Army Post Road borders the southwestern part of the watershed. The southeastern border of the watershed extends near Highway 5 to the south and Indianola Avenue to the east. Key watershed characteristics are identified below in Table 1: Easter Lake Characteristics.

| | |
|------------------------------------|---|
| IDNR Waterbody ID | IA 04 -LDM-00490 -L |
| 8 Digit Hydrologic Unit Code (HUC) | 07100008 (Basin=Des Moines, Subbasin=Lake Red Rock) |
| 12 Digit HUC | 071000081507 (Yeader Creek-Des Moines) |
| Location | Des Moines, Polk County, Iowa |
| Designated Uses | Primary Contact Recreation (Class A1), Aquatic Life Support (Class B(LW)) |
| Receiving Waterbody | Yeader Creek and unnamed tributary |
| Maximum Depth/Mean Depth | 21.2 feet / 8.1 feet |
| Lake Volume | 1,511 acre feet |
| Length of Shoreline | 35300 feet |
| Watershed Area/Lake Surface | 6,380 / 178 acres |
| Watershed to Lake Ratio | 37 to 1 |
| Lake Residence Time | 0.28 years (TMDL) / 0.10 years (2011 ISU DF Study) |
| TMDL Pollutants | Phosphorus, Sediment |
| Impaired Uses | A1 – primary contact recreation & B (LW) – aquatic life |

Table 1: Easter Lake Characteristics.

The Easter Lake watershed is covered by a variety of soil types typical for most areas in Polk County. Due to the existing land uses, the majority of the soils in the watershed are classified as urban soils. Nearly all of the 17 miles of channel bank along Yeader Creek are composed of fine-grained soils, with the vast majority of banks consisting of loamy soils of the DeForest Formation (Colo-Judson soil series). Some of the tributary streambanks in both branches consist of loess. In the South Branch, there are about 900 feet of channel with mudstone banks. Many of the banks in Yeader Creek are partially covered with rock and concrete debris that

has been dumped over the edge or loosely strewn about, presumably an attempt at bank stabilization by homeowners. Watershed slope is typically low with most land having slopes less than 15%. Most of the land along streams has slopes >15%.

The City Des Moines provided information on the quantity of impervious surfaces in the city limits per parcel. The quantity of impervious surface can be an indication of the water quality effects from stormwater runoff. The Yeader Creek drainage area, west of Easter Lake, has the highest levels of impervious surfaces; approximately 13-24% of the land area is considered impervious. Areas directly north and south of Easter Lake have had recent development and as a result approximately 17% of the area is impervious. Watershed areas around and south of Army Post Road have seen limited development and still have some agricultural land; this area is approximately 7% impervious. Larger amounts of impervious surface equates to less infiltration of storm water runoff, more rapid delivery of stormwater to drainage ways, and less vegetation to filter pollutants from stormwater.

Stream flow enters Easter Lake via two main stream channels. The agricultural portion or southeast portion of the watershed contributes flow into tributaries which flow to the south arm of the lake. Yeader Creek includes a main branch and a south branch, both drain into Easter Lake's western arm. For the watershed as a whole, 43% of all channel banks lie adjacent to residential property, while roughly 26% are adjacent to woodland and 24% to grass/meadow. Six percent of the total channel length is bordered by commercial property and less than 1% by row crop.

The storm sewer drainage system in the watershed largely consists of typical curb and gutter within the urbanized areas of the watershed. The system includes approximately 109 miles of storm drain pipe across the watershed. The majority of the system's storm drain pipe is in generally good condition and primarily made up of 15-inch (38%), 18-inch (13%), and 24 -inch (10%) reinforced concrete pipe. The Easter Lake watershed contains roughly 2,714 storm drain inlets that collect flows discharging to approximately 160 outfalls. The outfalls vary in size from 2 -inch foundation drains to an 8 foot wide box culvert.

Water Resource Concerns and Impairments

Easter Lake suffers from several water quality problems including poor water clarity, summer algal blooms, high sedimentation rates, and low oxygen concentrations in bottom waters during summer stratification. Numerous management practices, including sediment retention pond construction have been implemented to improve water quality throughout the lake's lifespan. Despite these efforts, Easter Lake continues to experience water quality symptoms associated with cultural eutrophication. Easter Lake was first listed on Iowa's 303(d) Impaired Waters List in 1998, the listing was recommended by the Iowa DNR Fisheries and Water Quality Bureaus due to elevated levels of silt and nutrients. At that time Class A and B uses were assessed as "partially supported." Every 303(d) list since 1998 has listed Easter Lake as partially or not supporting the Class A and B uses. In 2005 a Total Maximum Daily Load (TMDL) was completed addressing nutrients and siltation in Easter Lake.

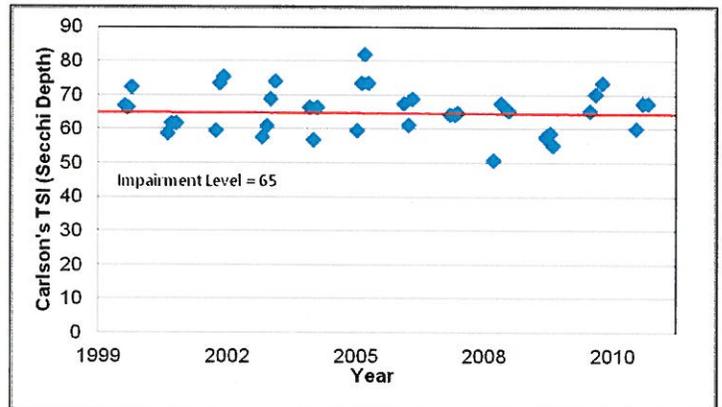


Figure A. Secchi TSI scores 2000-2012.

The 2005 Easter Lake TMDL identified phosphorus and sediment as the pollutants of concern. Watershed modeling has identified high sediment and phosphorus loads originating from predominantly urban areas of the watershed, especially the Yeader Creek drainage area. Over time, accumulated sediments in the lake have caused a variety of water quality problems; most significant is the loss of 30% of the original lake volume. At current sedimentation rates Easter Lake will lose half of its original volume in 25 years. Siltation in the upper arms of the lake have resulted in reduced fishing and boating opportunities. Poor water quality continues to impact popular sport fish (e.g., crappie and other panfish) despite extensive fisheries management.

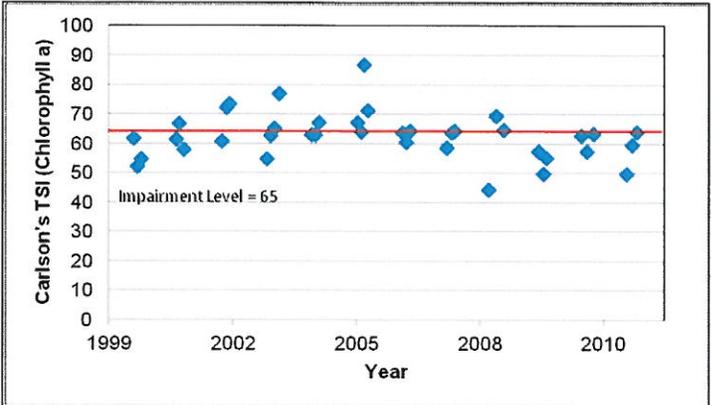


Figure B. Chlorophyll a TSI Scores 2000-2012.

While this application and the Easter Lake WQMP focus on sediment and phosphorus, Easter Lake was found to have high bacteria levels at the swimming beach resulting in an additional impairment added to Easter Lake on the 2010 303(d) Impaired Waters List. Bacteria loading may be addressed via a future revision of the WQMP.

Currently the only organized water resource protection or improvement efforts occurring in the watershed are the planning activities directly related to the development of the Easter Lake Water Quality Management Plan.

Quantify Current Level of Pollutant Loading

Although the Easter Lake WQMP references multiple sources for sediment and phosphorus loading information, the 2005 TMDL rates were used for the development of pollutant loads and load reductions necessary to achieve Iowa water quality standards. The TMDL calls for a 23% reduction in sediment and a 44% reduction in phosphorus. The 2011 Easter Lake Diagnostic Feasibility Study (DFS) calls for a phosphorus load reduction of 50% to reach water quality standards. The Easter Lake WQMP estimates phosphorus load reductions resulting from BMP implementation in the 47-80% range, achieving both the TMDL and DFS recommendations. The Easter Lake WQMP estimates sediment load reductions from BMP implementation to be between 62-80%, meeting the TMDL reduction goal of 23%.

| Pollutant Source | External | Internal | Total Load | Load Reduction | % Load Reduction |
|--------------------------|----------|----------------|------------|----------------|------------------|
| Sediment (tons/year) | 7,000 | Not Calculated | 7,000 | 1,600 | 23% |
| Phosphorus (pounds/year) | 4,250 | 291 | 4,540 | 2,000 | 44% |

Table 2. TMDL Loads and Load Reductions.

The 2011 Easter Lake DFS estimated nutrient and sediment export rates from the major tributaries to Easter Lake. Continuous monitoring of stream discharge and regular and frequent sampling of measured nutrient and sediment concentrations were used to develop loading estimates. The Yeader Creek drainage area accounts for nearly 60% of the total phosphorus load to Easter Lake, the South tributary area accounts for nearly 14% and the unconsolidated watershed area immediately surrounding Easter Lake accounts for nearly 26% of the phosphorus loading. For Total Suspended Solids (TSS) the Yeader Creek drainage area accounts for 59% of

the TSS load, the South tributary area accounts for 26% and the area immediately surrounding Easter Lake accounts for 15%. See Appendix A, Map 3.

Current Land Use, Pollutant Sources,

Land use in the watershed is predominantly urban. According to 2009 land use data for the watershed artificial land uses such as residential, commercial, roads and parking lots account for 24% of the watershed area. Grassland, including lawns accounts for 27%, forest accounts for 28%, row crops 16% and water 3%. The remaining 2% is other land uses.

The Easter Lake WQMP identified sediment and phosphorus pollutant sources and calculated loads using information from the 2011 DFS, the 2005 TMDL, the 2010 NRCS study of channel erosion and STEP-L modeling of the Easter Lake watershed. A review of all reports and models found the estimate provided in the 2005 TMDL best represented conditions in the watershed. Channel erosion is believed to be the most significant source of sediment and phosphorus in the watershed. The 2010 NRCS assessment of the stream channels estimated 4,150 tons of sediment is deposited in Easter Lake from channel bank and bed erosion. Based on this assessment nearly 60% of the total sediment load is coming from bank and bed erosion. Nearly all bank and bed erosion is occurring in the Yeader Creek drainage area.

Urbanized areas of the watershed are another significant source of sediment and phosphorus. For the purposes of modeling, urban sources include pet waste, yard fertilizers, yard waste, windblown and other sediments from streets and paved surfaces. Most of these sources are transported to Easter Lake via stormwater. During the WQMP development process a STEP-L model was used to estimate sediment and phosphorus from urban areas. Modeling estimates approximately 400 tons of sediment and 2,700 pounds of phosphorus are delivered to the lake each year from urban sources.

Agricultural areas of the watershed are estimated to contribute 775 tons of sediment and 1,683 pounds of phosphorus annually to Easter Lake. These areas are not specifically a target of this application but may be addressed through existing conservation programs. The Technical Advisory Team believes management practices and trapping sediment in existing sediment basins is the best approach for dealing with agricultural sources of sediment and phosphorus. This belief is based on the fact that much of the agricultural land is slated for future development and implementing structural practices will not be accepted by landowners and developers.

Wooded areas directly adjacent to Easter Lake are estimated to contribute an abnormal amount of sediment and phosphorus to Easter Lake. These wooded areas are overrun with invasive species such as honeysuckle which have limited growth of groundcover and as a result the forest floor void of vegetation. STEP-L modeling estimated 36 tons of sediment and 125 pounds of phosphorus are delivered to Easter Lake annually from wooded areas.

Lands currently under development or lands slated for development can be a significant source of sediment and phosphorus. For the purposes of developing the WQMP a worst-case development scenario was modeled assuming all cropland was converted to development. This will likely not be the case but the STEP-L model estimated a potential sediment load of nearly 20,000 tons per year and a phosphorus load of 24,500 pounds per year. This estimate was not used to calculate the total sediment and phosphorus loads because it is highly dependent on development patterns but it will be important for future watershed project staff to work closely with the City of Des Moines to ensure all erosion control measures are in place on land being developed.

Form C – Project Plan

Project Description

Improving the water quality of Easter Lake is a complex and challenging effort that will require collaboration of the project sponsors. An aggressive 10 year goal has been set for implementing the WQMP. As previously mentioned pollutant reduction goals include a 44% reduction for phosphorus and 23% reduction in sedimentation loadings to Easter Lake.

Although several management practices addressing pollutant delivery to Easter Lake have been implemented in the past, the ISU DF study indicates that significant sediment and phosphorus loading reductions using additional watershed management practices are required. Engineering modifications to improve water quality will be required; these include targeted stream stabilization/protection and dredging existing detention ponds to restore function. Additionally, public involvement and participation in watershed management practices to reduce phosphorus and sediment loads from the watershed will be required to achieve the 44% reduction in total phosphorus loads required to meet the reduction levels listed in the 2005 TMDL. Engineering solutions alone cannot reach the required total phosphorus loading reduction target without best management practices implemented by the community (ISU 2011).

Although the goal of this WQMP is to remove Easter Lake from the impaired waters list, the structural and programmatic BMPs recommended have multiple benefits. These include, but are not limited to: reduction of a wide range of other pollutants, reduced stormwater runoff volume, reduced landscape maintenance, increased stream stability, reduced infrastructure costs downstream, recharging groundwater levels, aesthetics, and increasing the overall health of the Easter Lake watershed.

Project Objectives

Phase One projects and programs are aimed at reducing external load pollutants through cost-share and financial incentives for watershed best management practices in addition to stream restoration projects. Decreasing the transport of eroded soil is critical to restoring Easter Lake and the watershed to a healthy, functioning system and to slow a return to current degraded lake conditions, post-restoration (ISU 2011). The goal of Phase One is a 10% reduction of sediment loading and a 21% reduction phosphorus loading. Specific project implementation activities will be led by an Easter Lake Watershed Coordinator with a focus on urban conservation and information and education.

Several of the Phase One projects will be implemented with Rainscaping Iowa practices with assistance of the Polk SWCD's urban conservation program. The timing of projects is subject to change based upon other planned activities including sewer line and trail expansions. A key factor in the final decision to begin projects will hinge on the ability of project stakeholders to collaborate during planning and design.

Methods Employed

Phase One focuses on reducing the pollutant load throughout the entire watershed through implementation of Rainscaping practices. Although promoted throughout the entire watershed the project team will target stormwater outfall drainage basins adjacent to Easter Lake for focused and targeted implementation. Phase One also will also work to establish demonstration practices within Ewing Park. Stabilizing Yeader Creek to reduce erosion and sediment reaching Easter Lake will also be a focus. The following BMPs are being proposed as part of this application for Phase One.

- Rainscaping Iowa Practices: These practices are being proposed as a package of practices and actual practice adoption levels may vary depending on landowner's willingness to implement. A

proposed scenario includes 3 bioretention cells, 400 feet of bioswales, 1 acre of native landscaping, 7,200 square feet of permeable pavement, 21 rain gardens, 60 rain barrels, 30 soil quality restorations, and 90 downspout redirects or disconnects.

- YC-14: Yeader Creek stabilization and erosion control using 2 grade control structures and toe rock.
- YC-8: Installation of 4 grade control structures and one rock chute on a tributary to Yeader Creek.
- Ewing Park Demonstration Practices: This suite of practices include bio-swales and rain gardens, streambank stabilization, vegetation management to promote fine rooted perennials and educational signage.
- 225 acres of Woodland Restoration: This practice targeted to wooded areas directly adjacent to Easter Lake will remove invasive species such as honeysuckle, oriental bittersweet, and more. These invasive species have limited ground cover and have lead to barren soil at ground level. This problem is very evident during the non-growing season when soil is void of any vegetation.

Measures of Success

The goal of the Easter Lake WQMP is improve water quality in Easter Lake such that the waterbody can be delisted from Iowa’s 303(d) Impaired Waters List. The WQMP modeling estimates water quality goals will be achieved after completion of all activities in the WQMP, this is currently estimated to occur in 2021. The goal of Phase One is to implement outreach activities and install BMPs in critical locations in the watershed. The in lake water quality milestones for Phase One are to achieve a Secchi TSI of 67, a Chlorophyll a TSI of 57 and Phosphorus TSI of 65. In lake water quality conditions will be evaluated using the ambient monitoring location at the deepest point of the lake. Phase One also seeks to reduce the annual sediment loading to Easter Lake from 7,000 tons per year to 6,300 tons per year, this goal will be accomplished by the end of year 3. The sediment loading reductions will be evaluated using accepted sediment reduction models.

A significant part of Phase One is to work with private homeowners to install Rainscaping Practices to reduce stormwater runoff in the watershed. A substantial effort is needed to contact and educate homeowners about Rainscaping Practices. The application sets a goal of contacting at least 200 individuals each year of the project. This will be accomplished via one-on-one meetings and educational events and classes.

Funding Level

This application seeks a total of \$754,537.50 in DNR Watershed Improvement funding to implement Phase One of the Easter Lake WQMP. The total estimated project cost for Phase One is \$1,912,950.00. Project partners and volunteers will be contributing over 60% of the Phase One costs.

Time Frame and Implementation Schedule

This application seeks three years of funding starting July 1, 2013.

| Activity | Responsible Party | FY 2014 Q1 | FY 2014 Q2 | FY 2014 Q3 | FY 2014 Q4 | FY 2015 Q1 | FY 2015 Q2 | FY 2015 Q3 | FY 2015 Q4 | FY 2016 Q1 | FY 2016 Q2 | FY 2016 Q3 | FY 2016 Q4 |
|-----------------------------|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Hire Project Coordinator | SWCD | X | | | | | | | | | | | |
| Annual Work Plan and Budget | Project Coordinator | X | | | X | | | | X | | | | |
| Quarterly Reports | Project Coordinator | X | X | X | | X | X | X | | X | X | X | |
| Annual Report | Project Coordinator | | | | X | | | | X | | | | |

| | | | | | | | | | | | | | |
|-------------------------------------|--------------------------------------|---|--------|--------|---|---|---|-------------------|---|---|---|---|---|
| Final Report | Project Coordinator | | | | | | | | | | | | X |
| Citizen Advisory Meeting | Project Coordinator | X | | X | | X | | X | | X | | X | |
| Technical Advisory Meeting | Project Coordinator | X | | X | | X | | X | | X | | X | |
| Ewing Park Bioswales | City of Des Moines | X | X | | | | | | | | | | |
| Demonstration Rainscaping Practices | Project Coordinator | X | | | | | | | | | | | |
| Rainscaping Iowa Practices | Project Coordinator | X | X | X | X | X | X | X | X | X | X | X | X |
| South Branch Grade Control (YC-14) | City of Des Moines | X | X | X | X | | | | | | | | |
| Spring Street Project (YC-8) | City of Des Moines | X | X | X | X | | | | | | | | |
| In-Lake Improvements | DNR Lake Restoration & Polk County | | Design | Design | | | | Select Contractor | | | | | |
| Water Monitoring | Project Coordinator & DNR Monitoring | X | X | | X | X | X | | X | X | X | | X |

Table 3. Implementation Schedule

Lead Agency

The lead agency is the Polk Soil and Water Conservation District.

Cooperating Agencies and Private Groups

Polk County Conservation (PCC) fully supports this application and intends to provide both financial support as outlined in the grant application but also staff support where needed. It is anticipated that natural resources staff will participate in and or lead projects such as woodland, and wetland restoration required to restore the ecological health of the watershed as well as providing consultation and assistance in the selection and installation of native vegetation to be used in Rainscaping Practices. PCC outreach staff will provide assistance in promotional efforts through newsletters and press releases.

Iowa Department of Natural Resources (Fisheries – Lake Restoration Program, LRP) supports this grant application and plans to support the effort toward implementation of the Easter Lake Water Quality Management Plan. This includes initial financial support as indicated in the DNR Lake Restoration Program support letter and budgeted funding given future appropriations to the program. DNR Fisheries/LRP have provided staff support during the planning process and will continue to provide staff support as needed. DNR fisheries biologist and LRP staff will be heavily involved in aspects related to finalized planning for in-lake restoration efforts and fisheries management components of the plan.

City of Des Moines supports this grant application and intends to cooperate with project partners to develop final design for water quality improvement projects and assist in the implementation of the Easter Lake Water Quality Management Plan. In addition to funds designated by the City of Des Moines letter of support for this grant application, the City understands that they may need to provide guidance and technical assistance to



Easter Lake Watershed Project Application
October 2012

accomplish activities necessary for implementation of the plan and anticipate that the City will be asked to help secure future financial contributions necessary for implementation of the plan even though amount and type of contributions have not been fully established.

The Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation (IDALS-DSC) Urban Conservation Program will provide training to project coordinators, technical assistance, and help with planning and implementing practices (design consultations, preconstruction meetings, construction supervision, etc). IDALS-DSC will help support the communications and outreach activities.

The Natural Resources Conservation Service (NRCS) will provide the project coordinators with workspace, computers, vehicle use, equipment, and will also provide technical assistance on site assessment and BMP design.

Form D – Project Coordinator/Staffing

This project application has an aggressive implementation schedule to achieve the WQMP goals. Many of the projects are on private, residential & commercial property and will have to be explained to those who are not aware of their need for the practices. So, the Rainscaping practices will need to be ‘sold’ before they can be implemented. In order to implement the practices, it will require a skilled urban conservationist with knowledge of the Rainscaping practices and how to promote, site, design and install them. The project coordinator will stay focused on the technical one-on-one site visits and installation of infiltration based best management practices. The top 5 qualifications for a project coordinator include:

- Experience in design and installation of Rainscaping Iowa practices
- Urban project management experience
- Ability to promote and implement Rainscaping Iowa practices
- Good personal communication skills
- Self starter that can effectively work independently and as part of a larger team effort

Due to the aggressive implementation schedule, the project coordinator will need to be focused full time on the process of promoting, designing, installation of best management practices as well as processing cost share to meet the goals. They will not be able to devote enough time to the very important task of public outreach and the information and education process.

The educational activities are very important in this watershed. It is more critical to this project than most others. We need a majority of landowners in the watershed with an awareness of the impact of their actions in the watershed. Their buy-in is imperative in order to succeed in achieving the load reductions. Therefore, this application seeks funds to support a part-time position to focus solely on the public education aspects of the project. This person will coordinate and work with the project coordinator and be the go-to public education and outreach coordinator for the watershed area. This will include items such as:

- public education and outreach programming to achieve pollution prevention goals for management practices
 - water audits of yards, downspout disconnection, rain barrel installations, pet waste programs, etc
- development of newsletters
- social media outreach (website creation and maintenance, facebook)
- a sign program for recognition Rainscaping and project installation

The Easter Lake Watershed Project will be supported by the Urban Conservationist working for the Polk Soil & Water Conservation District as part of the IDALS-DSC Urban Conservation program. As part of the local program, the UC will be able to provide program oversight, technical assistance and coordination of overall project implementation. It will include coordination between units of government to allow the project coordinator to stay focused on the implementation of BMPs within the watershed. Additional technical assistance may be available in the future, if anticipated plans move forward to create an NRCS urban conservation position in the metropolitan area. A project coordinator and education coordinator will be hired by the Soil & Water Conservation District to achieve the goals of project implementation.

Form E – Previous Progress Made in Implementing the WQMP

This application seeks funds to begin implementation of Phase One of the Easter Lake Water Quality Management Plan therefore no evaluation has occurred to date. Planning efforts which ultimately lead to development of the Easter Lake Water Quality Management Plan began when the DNR initially ranked 127 public lakes to prioritize lake restoration efforts. A group of thirty-five lakes, classified highest in priority for restoration, was established and served as a starting point for identifying potential lake restoration projects. Easter Lake was one of the initial lakes targeted for water quality improvement efforts and removal from the impaired waters list.

In 2007, the DNR and the Polk County Conservation Board (PCCB) hired Iowa State University to provide a diagnostic and feasibility study of Easter Lake, for planning a lake restoration effort on the lake and its watershed. As part of this effort, DNR established an advisory committee including members of relevant DNR programs, as well as interested parties and personnel from Polk County, the City of Des Moines, other agencies and a local Steering Committee. These groups have consulted with one another regularly as the work advanced. The goal was to identify and evaluate restoration alternatives that meet the water quality improvement goals.

To further our understanding of the Easter Lake watershed the DNR contracted with the Natural Resources Conservation Service to conduct an assessment of the condition of Yeader Creek, estimate annual sediment delivery to Easter Lake and inventory storm sewer and other outfalls in the watershed.

In 2012, the DNR, PCCB and the City of Des Moines contracted with EA Engineering for them to take information gathered in the above mentioned studies along with other available data and develop a Water Quality Management Plan. EA was also responsible to coordinate project activities with participating agencies and the local steering committee; and, prepare preliminary designs, statement of probable costs and schedule of implementation for selected management practices. A community-based planning approach was used to allow local residents and stakeholders input in development of the restoration plan for Easter Lake. This approach helped develop a common vision, identify and prioritize concerns and come up with appropriate steps to address problems. The DNR's goal is to use the Water Quality Management Plan as a guidance document for future cooperative lake and watershed restoration and protection efforts at Easter Lake in Polk County, Iowa.

A draft Memorandum of Understanding is currently under review by participating agencies. The goal of the MOU is to create a framework for cooperative implementation the Water Quality Management Plan including a pledge by the agencies to provide or help secure financial contributions necessary to implement restoration activities.

Form F – Public Outreach Strategies

The primary mechanism in effective plan implementation is changing how people living in and around Easter Lake manage their property. Below are key groups to be included as the target audience:

- Watershed residents and property owners
- Agricultural property owners and producers
- Developers
- Visitors
- Business owners
- City of Des Moines
- Polk County
- Schools

The following media outlets and communication methods will be used to communicate water quality improvement efforts:

- Des Moines Register
- City of Des Moines Public Information Office Quarterly Newsletter
- Neighborhood Association Meetings and Newsletters
- Local Radio Stations
- Resource agency websites (PCCB, Polk SWCD, City of Des Moines, IDNR)

The list below is a composite of ideas that will be utilized to involve the public. This list has been separated into three groups: education and outreach, partnership, and information.

Education and Outreach

- 1) Develop and publish four press releases per year
- 2) Meet with each Neighborhood Association once during life of project
- 3) Hold at least one public open house during the life of the project
- 4) Hold four rain barrel/rain garden classes at Easter Lake Park each year
- 5) Develop water quality monitoring network of volunteers using IOWATER

Partnership

- 1) Maintain an active Technical Advisory Team and meet twice per year
- 2) Involve schools in IOWATER sampling and other outreach opportunity
- 3) Work with Isaac Walton League and other clubs or organizations on a stream cleanup event
- 4) Promote Certified Rainscapers in Easter Lake watershed

Information

- 1) Develop an active website in year one and update monthly throughout the project with rain water audit calculator
- 2) Develop and install at least 10 watershed signs or informational kiosks throughout the project
- 3) Develop and publish quarterly newsletter
- 4) Work with utilities to send bill stuffer updates to watershed residents
- 5) Develop and hold two watershed tours annually to highlight demonstration BMPs
- 6) Develop a Listserv or electronic mailing list to distribute newsletters and press releases
- 7) Work with Polk County Conservation Board to utilize the Guide by Cell service for key locations in watershed

A social assessment of the Easter Lake watershed was conducted in 2011 by Mimi Wagner of Iowa State University. The assessment involved a series of 68 interviews and a statistically valid survey that represented the water population. The survey gauged residents' view on water quality issues and solutions.

BUDGET FOR YEAR # **1** FY: **2014**
 PROJECT NAME: **Easter Lake Watershed Project Phase 1**

AGENCY: **Polk SWCD**

| Component | Number, Acres or Other Units | Total Cost | Landowner Cost | Cost Share Rate | Project Cost | 319 Cost | Other Funding Source(s) Cost | Other Funding Source(s) ID | Match Type | |
|------------------------------------|------------------------------|-----------------|----------------|-----------------|-----------------|---------------|------------------------------|----------------------------|------------|---|
| | | | | | | | | | L- local | Other Funding - Committed or Anticipated* |
| | | | | | | | | | S- state | F- federal |
| Salary & Benefits | | \$ 88,000.00 | \$ - | NA | \$ 88,000.00 | \$ 88,000.00 | \$ - | | | |
| Indirect Costs | | \$ - | \$ - | NA | \$ - | \$ - | \$ - | | | |
| Travel/Training | | \$ 1,500.00 | | NA | \$ 1,500.00 | \$ 1,500.00 | \$ - | | | |
| Supplies | | \$ 1,000.00 | \$ - | NA | \$ 1,000.00 | \$ 1,000.00 | \$ - | | | |
| Inform./Outreach | | \$ 10,000.00 | \$ - | NA | \$ 10,000.00 | \$ 10,000.00 | \$ - | | | |
| Contractual | | \$ - | \$ - | NA | \$ - | \$ - | \$ - | | | |
| Equipment | | \$ 3,000.00 | \$ - | NA | \$ 3,000.00 | \$ 3,000.00 | \$ - | | | |
| Other | | | | | | | | | | |
| | | | | | | | | | | |
| Conservation Practices: | | | | | | | | | | |
| Rainscaping Practices ¹ | Numerous | \$ 133,050.00 | \$ 33,262.50 | 75% | \$ 99,787.50 | \$ 33,262.50 | \$ 66,525.00 | DSM, PC | L | Committed |
| YC-14 | 1 no | \$ 410,000.00 | \$ - | 100% | \$ 410,000.00 | \$ 102,500.00 | \$ 307,500.00 | DSM, LR | L, S | Committed |
| YC-8 | 1 no | \$ 425,000.00 | \$ - | 100% | \$ 425,000.00 | \$ 106,250.00 | \$ 318,750.00 | DSM, LR | L, S | Committed |
| Ewing Park Demo Practices | Numerous | \$ 165,000.00 | \$ - | 100% | \$ 165,000.00 | \$ 82,500.00 | \$ 82,500.00 | DSM | L | Committed |
| Woodland Restoration | 75 ac | \$ 65,100.00 | \$ - | 23% | \$ 15,000.00 | \$ 15,000.00 | \$ 50,100.00 | Volunteers | L | Anticipated |
| Totals | | \$ 1,301,650.00 | \$ 33,262.50 | | \$ 1,218,287.50 | \$ 443,012.50 | \$ 825,375.00 | | | |

¹ Yearly rainscaping goals include 1 bioretention cell, 133 feet of bioswale, 1/3 ac of native landscaping, 7 rain gardens, 20 rain barrels, 10 soil quality restorations, 2,400 sq feet of permeable pavement and 30 downspout redirects

BUDGET FOR YEAR # **2** FY: **2015**
 PROJECT NAME: **Easter Lake Watershed Project Phase 1**

AGENCY: **Polk SWCD**

| Component | Number, Acres or Other Units | Total Cost | Landowner Cost | Cost Share Rate | Project Cost | 319 Cost | Other Funding Source(s) Cost | Other Funding Source(s) ID | Match Type | |
|------------------------------------|------------------------------|----------------------|---------------------|-----------------|----------------------|----------------------|------------------------------|----------------------------|------------|-------------|
| | | | | | | | | | L- local | S- state |
| Salary & Benefits | | \$ 94,000.00 | \$ - | NA | \$ 94,000.00 | \$ 94,000.00 | | | | |
| Indirect Costs | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| Travel/Training | | \$ 1,500.00 | \$ - | NA | \$ 1,500.00 | \$ 1,500.00 | | | | |
| Supplies | | \$ 500.00 | \$ - | NA | \$ 500.00 | \$ 500.00 | | | | |
| Inform./Outreach | | \$ 8,000.00 | \$ - | NA | \$ 8,000.00 | \$ 8,000.00 | | | | |
| Contractual | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| Equipment | | \$ 1,000.00 | \$ - | NA | \$ 1,000.00 | \$ 1,000.00 | | | | |
| Other | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| | | | | | | | | | | |
| Conservation Practices: | | | | | | | | | | |
| Rainscaping Practices ¹ | Numerous | \$ 133,050.00 | \$ 33,262.50 | 75% | \$ 99,787.50 | \$ 33,262.50 | \$ 66,525.00 | DSM, PC | L | Committed |
| Woodland Restoration | 75 ac | \$ 65,100.00 | \$ - | 23% | \$ 15,000.00 | \$ 15,000.00 | \$ 50,100.00 | Volunteers | L | Anticipated |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Totals | | \$ 303,150.00 | \$ 33,262.50 | | \$ 219,787.50 | \$ 153,262.50 | \$ 116,625.00 | | | |

¹ Yearly rainscaping goals include 1 bioretention cell, 133 feet of bioswale, 1/3 ac of native landscaping, 7 rain gardens, 20 rain barrels, 10 soil quality restorations, 2,400 sq feet of permeable pavement and 30 downspout redirects

BUDGET FOR YEAR # **3** FY: **2016**
 PROJECT NAME: **Easter Lake Watershed Project Phase 1**

AGENCY: **Polk SWCD**

| Component | Number, Acres or Other Units | Total Cost | Landowner Cost | Cost Share Rate | Project Cost | 319 Cost | Other Funding Source(s) Cost | Other Funding Source(s) ID | Match Type | |
|------------------------------------|------------------------------|----------------------|---------------------|-----------------|----------------------|----------------------|------------------------------|----------------------------|------------|-------------|
| | | | | | | | | | L- local | S- state |
| Salary & Benefits | | \$ 99,000.00 | \$ - | NA | \$ 99,000.00 | \$ 99,000.00 | | | | |
| Indirect Costs | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| Travel/Training | | \$ 1,500.00 | \$ - | NA | \$ 1,500.00 | \$ 1,500.00 | | | | |
| Supplies | | \$ 500.00 | \$ - | NA | \$ 500.00 | \$ 500.00 | | | | |
| Inform./Outreach | | \$ 8,000.00 | \$ - | NA | \$ 8,000.00 | \$ 8,000.00 | | | | |
| Contractual | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| Equipment | | \$ 1,000.00 | \$ - | NA | \$ 1,000.00 | \$ 1,000.00 | | | | |
| Other | | \$ - | \$ - | NA | \$ - | \$ - | | | | |
| | | | | | | | | | | |
| Conservation Practices: | | | | | | | | | | |
| Rainscaping Practices ¹ | Numerous | \$ 133,050.00 | \$ 33,262.50 | 75% | \$ 99,787.50 | \$ 33,262.50 | \$ 66,525.00 | DSM, PC | L | Committed |
| Woodland Restoration | 75 ac | \$ 65,100.00 | \$ - | 23% | \$ 15,000.00 | \$ 15,000.00 | \$ 50,100.00 | Volunteers | L | Anticipated |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Totals | | \$ 308,150.00 | \$ 33,262.50 | | \$ 224,787.50 | \$ 158,262.50 | \$ 116,625.00 | | | |

¹ Yearly rainscaping goals include 1 bioretention cell, 133 feet of bioswale, 1/3 ac of native landscaping, 7 rain gardens, 20 rain barrels, 10 soil quality restorations, 2,400 sq feet of permeable pavement and 30 downspout redirects

**Form H – Minority Impact Statement
Watershed Implementation Grant Application**

Pursuant to 2008 Iowa Acts, HF 2393, Iowa Code Section 8.11, all grant applications submitted to the State of Iowa which are due beginning Jan. 1, 2009 shall include a Minority Impact Statement. This is the state’s mechanism to require grant applicants to consider the potential impact of the grant project’s proposed programs or policies on minority groups.

Please choose the statement(s) that pertains to this grant application. Complete all the information requested for the chosen statement(s).

The proposed grant project programs or policies could have a disproportionate or unique positive impact on minority persons.

- Describe the positive impact expected from this project.
- Indicate which group is impacted:
 - ___ Women
 - ___ Persons with a Disability
 - ___ Blacks
 - ___ Latinos
 - ___ Asians
 - ___ Pacific Islanders
 - ___ American Indians
 - ___ Alaskan Native Americans
 - ___ Other

The proposed grant project programs or policies could have a disproportionate or unique negative impact on minority persons.

- Describe the negative impact expected from this project.
- Present the rationale for the existence of the proposed program or policy.
- Provide evidence of consultation of representatives of the minority groups impacted.
- Indicate which group is impacted:
 - ___ Women
 - ___ Persons with a Disability
 - ___ Blacks
 - ___ Latinos
 - ___ Asians
 - ___ Pacific Islanders
 - ___ American Indians

Alaskan Native Americans
 Other

The proposed grant project programs or policies are not expected to have a disproportionate or unique impact on minority persons.

- Present the rationale for determining no impact.

The grant application is intended to assist in improving water quality. There should be no adverse or positive impact on any minority group in relation to this project.

I hereby certify that the information on this form is complete and accurate, to the best of my knowledge:

Name: Chip Mathis
Title: Chairman

Definitions

"Minority Persons," as defined in Iowa Code Section 8.11, mean individuals who are women, persons with a disability, Blacks, Latinos, Asians or Pacific Islanders, American Indians and Alaskan Native Americans.

"Disability," as defined in Iowa Code Section 15.102, subsection 5, paragraph "b", subparagraph (1):b. As used in this subsection:

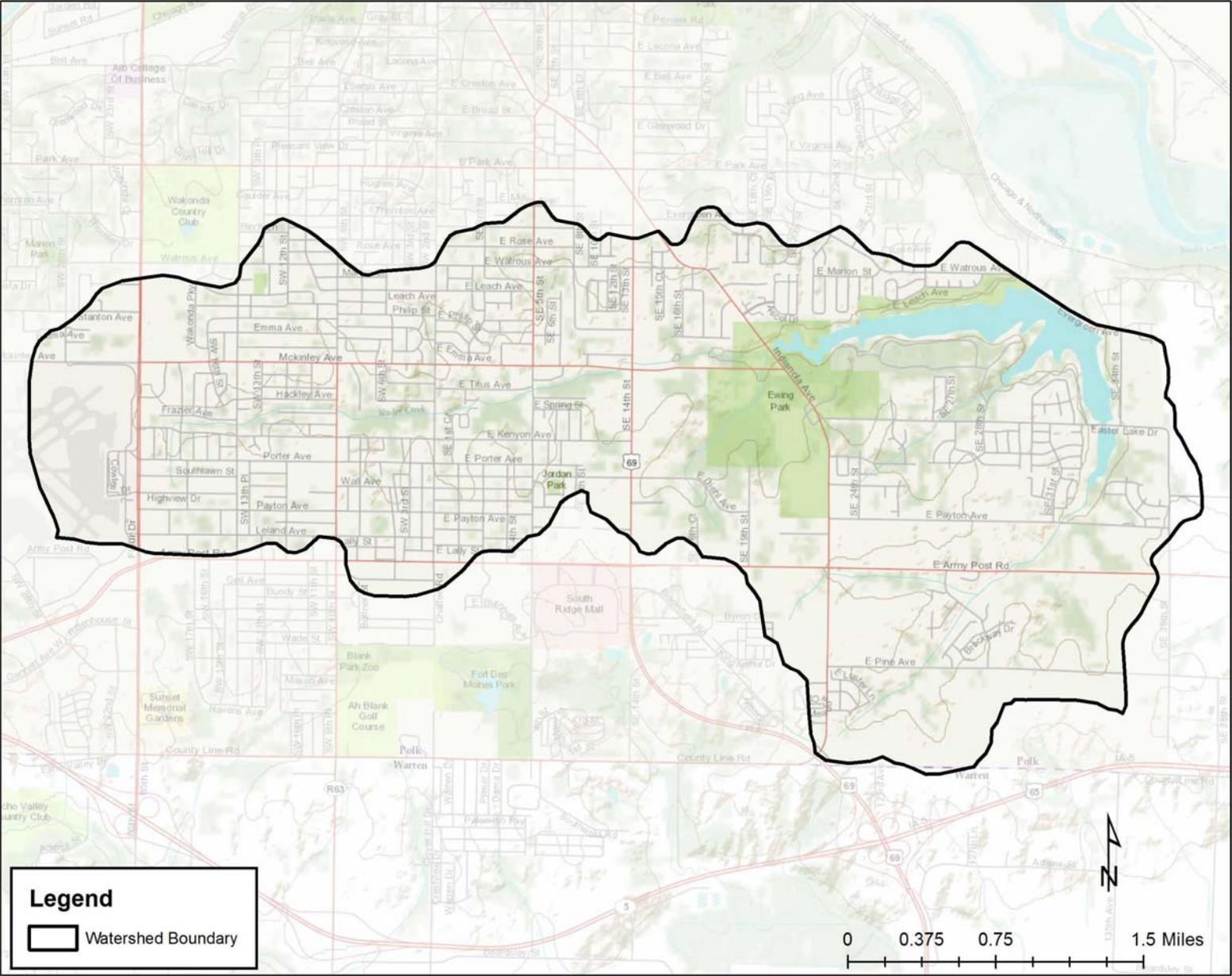
(1) "Disability" means, with respect to an individual, a physical or mental impairment that substantially limits one or more of the major life activities of the individual, a record of physical or mental impairment that substantially limits one or more of the major life activities of the individual, or being regarded as an individual with a physical or mental impairment that substantially limits one or more of the major life activities of the individual.

"Disability" does not include any of the following:

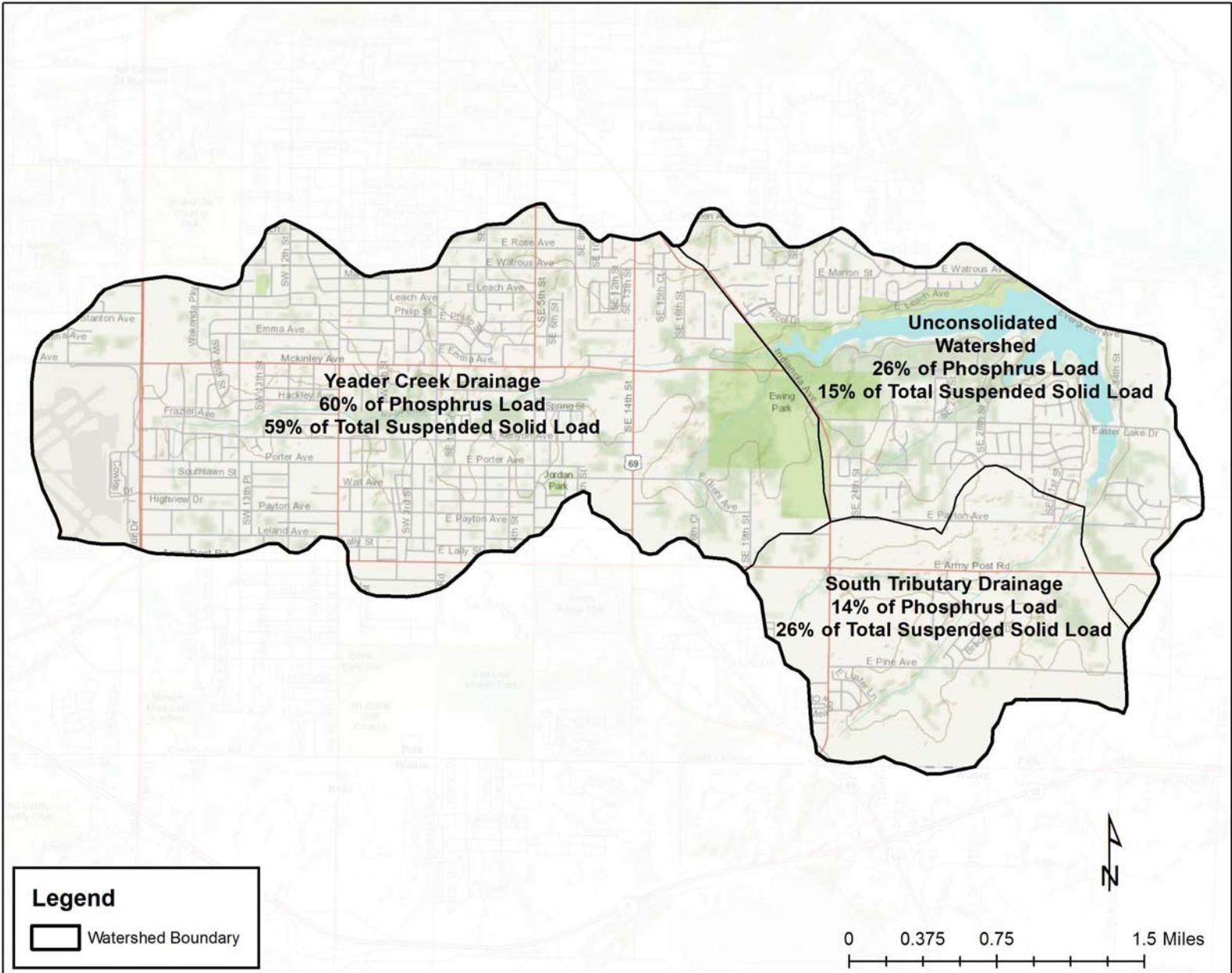
- (a) Homosexuality or bisexuality.
- (b) Transvestism, transsexualism, pedophilia, exhibitionism, voyeurism, gender identity disorders not resulting from physical impairments or other sexual behavior disorders.
- (c) Compulsive gambling, kleptomania, or pyromania.
- (d) Psychoactive substance abuse disorders resulting from current illegal use of drugs.

"State Agency," as defined in Iowa Code Section 8.11, means a department, board, bureau, commission, or other agency or authority of the State of Iowa.

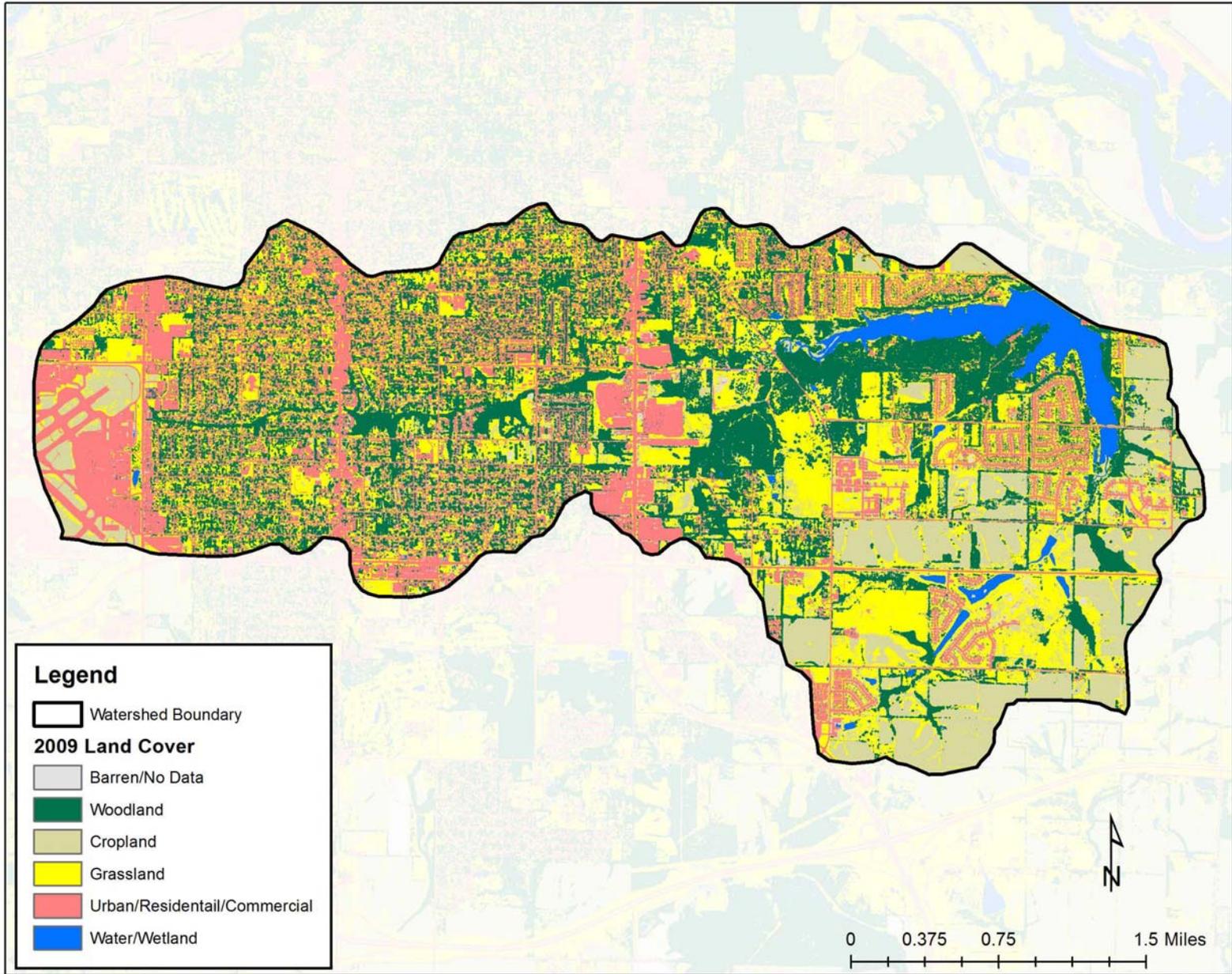
Appendix A



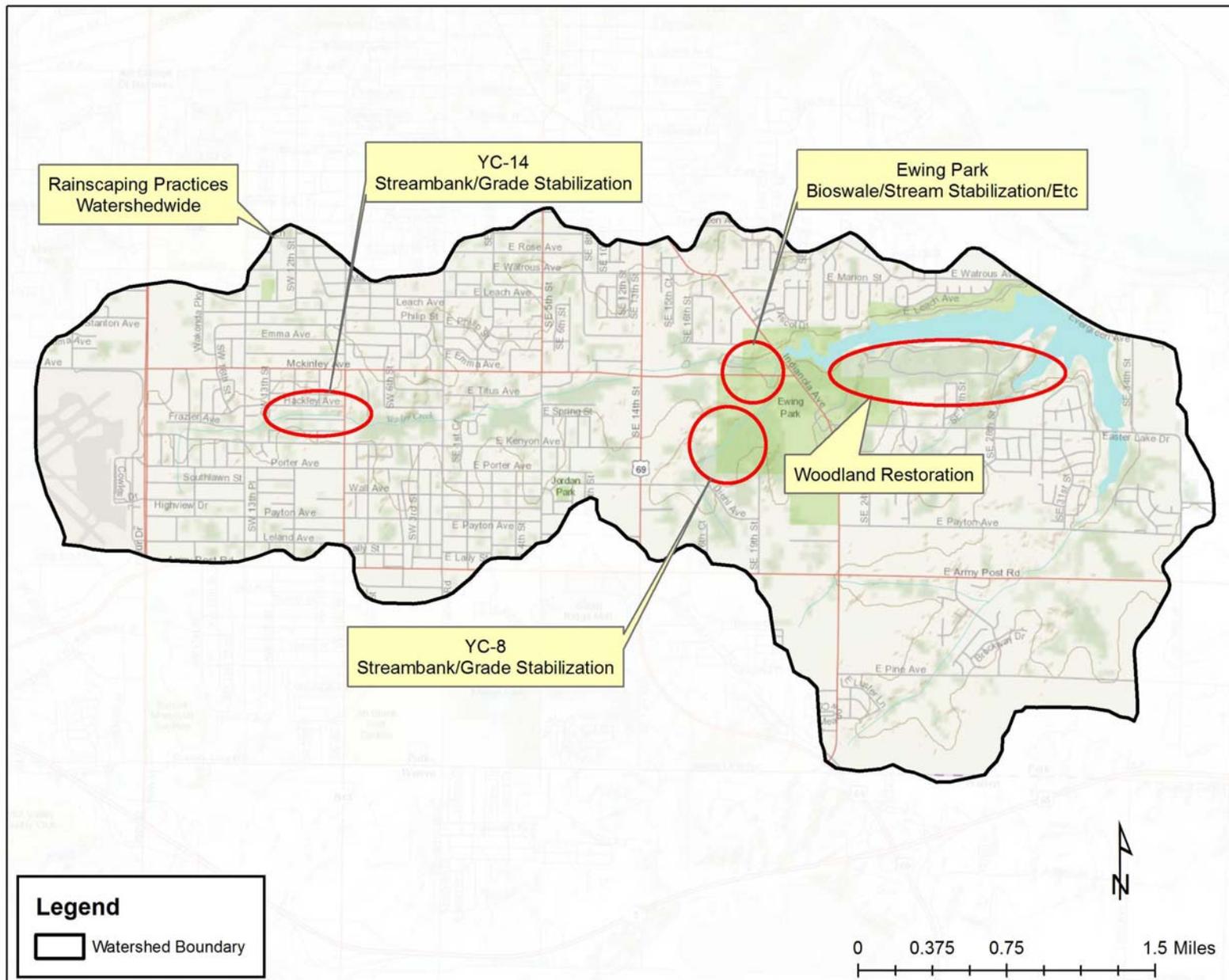
Map 1. Easter Lake watershed boundary.



Map 2. Major drainage areas of the Easter Lake watershed.



Map 3. 2009 land use.



Map 4. Phase One project areas.



Leading You Outdoors

www.leadingyououtdoors.org | pccb_info@polkcountyiowa.gov

11407 NW Jester Park Drive | Granger, IA 50109 | Phone 515.323.5300 | Fax 515.323.5354

October 11, 2012

Steve Hopkins
Iowa Department of Natural Resources
Watershed Improvement Section
502 E. Ninth Street
Des Moines, Iowa 50319-0034

RE: PCSWCD 319 GRANT APPLICATION

Dear Sir;

On October 10, 2012, at the regularly scheduled meeting of the Polk County Conservation Board the Board resolved to support the application of the Polk County Soil and Water Conservation District application for 319 funding involving the Easter Lake watershed.

The unanimous motion included the dedication of \$33,262.50 for each of the three years covered under the grant application.

Sincerely,

Loren Lown
Natural Resources Specialist
Polk County Conservation

Date October 8, 2012

RESOLUTION SUPPORTING POLK SOIL AND WATER CONSERVATION DISTRICT APPLICATION FOR AN IOWA DEPARTMENT OF NATURAL RESOURCES WATERSHED IMPLEMENTATION GRANT TO BE USED FOR EASTER LAKE WATERSHED PROJECT PHASE I

WHEREAS, on February 27, 2012, by Roll Call No. 12-0358, the City Council approved an Intergovernmental 28E Cooperative Agreement with Iowa Department of Natural Resources and Polk County Conservation Board to fund development of an Easter Lake Water Quality Plan; and

WHEREAS, such Easter Lake Water Quality Management Plan for restoration of Easter Lake ("the Plan") has been developed and the Polk Soil and Water Conservation District desires to apply for an Iowa Department of Natural Resources (IDNR) Watershed Implementation Grant in the amount of \$692,726.50 to begin implementation of Phase I of the Plan; and

WHEREAS, the total cost of Phase I of the Plan is estimated to be \$1,851,139 over a three year period beginning in FY2014 and it is anticipated that the funding needed for Phase I which exceeds the amount of the DNR grant will be provided by the City of Des Moines, Polk County Conservation Board, Iowa Department of Natural Resources Lake Restoration program, and other grant opportunities if they become available; and

WHEREAS, the DNR has requested that the City of Des Moines indicate its commitment in support of the grant application and the City's commitment to provide matching funds of up to \$599,787.50 for Phase I projects.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Des Moines, Iowa, that the City Council hereby supports the Polk Soil and Water Conservation District Iowa application for the Iowa Department of Natural Resources Watershed Implementation Grant in the amount of \$692,726.50 and to provide matching funds of up to \$599,787.50 for Phase I projects of the Easter Lake Water Quality Plan if such grant is received.

(Council Communication Number 12- 533) Moved by Hensley to adopt.

Approved as to Form:

Ann DiDonato Assistant City Attorney

| COUNCIL ACTION | YEAS | NAYS | PASS | ABSENT |
|----------------|------|------|------|--------|
| COWNIE | ✓ | | | |
| COLEMAN | ✓ | | | |
| GRIESS | ✓ | | | |
| HENSLEY | ✓ | | | |
| MAHAFFEY | ✓ | | | |
| MEYER | ✓ | | | |
| MOORE | ✓ | | | |
| TOTAL | 7 | | | |

MOTION CARRIED APPROVED

T. M. Franklin Council Mayor

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Diane Rauh City Clerk



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

October 11, 2012

Iowa Department of Natural Resources
Watershed Improvement Section
Attn. Steve Hopkins
502 E. 9th Street
Des Moines, IA 50319-0034

Re: DNR Lake Restoration Program support for DNR Watershed Implementation Grant

Dear Mr. Hopkins,

Due to the lake's recreational value and its proximity to the Des Moines metropolitan area, Easter Lake has the potential to be one of Iowa's premier recreational areas. However, current impairments due to nutrients and siltation limit the lake's ability to support its intended uses for primary contact recreation and aquatic life support.

The DNR Lake Restoration Program has identified Easter Lake in Polk County as a priority for restoration efforts and support implementation of the Water Quality Management Plan. We feel, implementation of this comprehensive plan will result in sustainable improvements to water quality and recreational viability.

The DNR Lake Restoration Program is committed to collaborating with project partners and serving as one of the funding partners for implementation of critical watershed improvements. In support of this grant application the Lake Restoration Program has budgeted \$208,750 available starting in FY14. In addition, once significant watershed improvements are initiated we will allocate resources toward in-lake efforts identified as critical to meeting water quality goals. Any DNR Lake Restoration Program financial commitments are contingent upon funding availability.

We strongly support working together with residents of the watershed and government agencies towards a common goal of improving Easter Lake for future generations. Thank you for consideration of the Polk SWCD's application.

Sincerely,
George Antoniou, DNR Lake Restoration Program

A handwritten signature in black ink, appearing to read "G. Antoniou", written in a cursive style.



Natural Resources Conservation Service
1513 N. Ankeny Blvd, Suite 3
Ankeny, Iowa 50023-4167
515-964-1883 x3

October 11, 2012

Steve Hopkins
Iowa Department of Natural Resources
Watershed Improvement Section
502 East 9th St.
Des Moines, IA 50319

Dear Mr. Hopkins:

The Natural Resources Conservation Service in Polk County supports the efforts of the Polk County Soil and Water Conservation District, Polk County Conservation Board, City of Des Moines, and the Iowa Department of Natural Resources to improve the water quality of Easter Lake. These entities have worked together to develop a watershed assessment and watershed management plan to address erosion control and stormwater management. The proposed practices will reduce sediment and pollutants in stormwater before they can enter this important water resource.

The Polk County NRCS is committed to this project and will provide office space for a watershed coordinator, as well as computer, vehicle, phone, and internet usage for the time period of this grant application. Easter Lake is a valuable water resource and implementing this grant will lead to public education and the installation of practices that will enhance the public use and extend the life of the lake.

Sincerely,

A handwritten signature in cursive script that reads "Paul Miller".

Paul Miller
District Conservationist

April 30, 2013

Dear City Administrator / Manager, and Bow-Hunt Coordinators,

2012-2013 Urban Deer Management Bow-Hunt Harvest Report

The Polk County Deer Task Force is pleased to report that once again has had a successful deer harvest. A total of 536 antler-less deer were harvested in the Polk County Deer Management Zone for the 2012-2013 season, 34 incentive bucks were also harvested in 2012-2013.

We are pleased to report that no complaints from residents of participating entities were noted.

Our donation program, HUSH, once again was a huge success. Iowa DNR has estimated that hunters statewide have provided 1 million meals to area shelters during the 2012 season. Our hunters' care and handling of donations has been outstanding.

Based on the 2013 Aerial Survey, contained in this report, the PCDTF and the IDNR encourage entities to increase efforts to expand public and private property bow-hunts. No doubt this program has leveled out the growth of our deer herd but reducing deer numbers to reach our goal has still not been reached. We seem to have a growing number of qualified hunters wishing to participate but struggle for locations to harvest deer.

The City of Des Moines private property bow-hunt program continues to impact the stabilization of deer numbers with harvests of 121 antler-less deer, an additional 11-Buck Incentive Tags were filled. This affects many areas in which the populations had previously gone unchecked. Under the program adopted by Des Moines, Private property bow-hunt requests are reviewed by trained individuals who inspect the property and make a recommendation to the City Manager / hunt coordinator, to approve or deny hunting. Cities are encouraged to promote private property hunts to reduce deer herd size. Contact the City of Des Moines for a copy of their ordinance with respect to the section dealing with bow-hunting private property.

It is still recommended that private individuals discontinue the feeding of deer in urban areas in an effort to support the management of our deer herd. Feeding increases travel to and from feed sites increasing automobile / deer incidents and concentrates deer into small areas causing heavy browse damage to neighboring properties. The City of Urbandale has adopted a firm ordinance concerning the feeding of deer; cities may contact them for a copy of their ordinance.

I wish to encourage each of our entities to continue to utilize ordinances in place by others in order to keep the rules for this hunt as standardized as possible. This helps our enforcement personnel as well as our hunters.

We would like to thank each City for keeping amounts in their budget that directly fund our annual Aerial Survey. The reports from these surveys are a vital tool in controlling our urban deer population.

Thank you for your support of this program and our goal to maintaining a healthy and controlled population of the Whitetail Deer in Central Iowa.

Sincerely,



Erv Wagner, Chair, Polk County Deer Task Force

Polk County Controlled Bow-Hunt 2012-2013 Deer Report



Executive Summary
Post Season Reports
Aerial Survey Results
Bow-Hunt Administrators
Advisory Organizations

Compiled by the
Polk County Deer Task Force

The Polk County Deer Task Force believes that the White-tailed deer is a valuable part of our natural heritage. We support the perpetuation of the deer population in Polk County at ecologically acceptable levels.

-1997 Position Statement of the Polk County Deer Task Force

Executive Summary

Based on the following results, it is recommended that the Polk County Controlled Bow-Hunt should be continued for the 2013-2014 season throughout the Polk County Deer Management Zone. It is also recommended to continue expanding efforts in all areas including:

- Urbandale
- Brown's Woods and Walnut Woods
- Clive
- Easter Lake to Cownie Park
- Pleasant Hill
- private property throughout the zone
- Johnston - Beaver Creek corridor



Post Season Reports

Licenses Sold

-The Polk County Deer Management Zone is divided into two zones. 1200 licenses were available for zone 48 which includes all of the cities, Polk County Conservation areas and U.S. Army Corps of Engineers areas. 400 licenses were available in zone 61 which is comprised of mostly rural areas not included in zone 48. Hunters purchased 827 antler-less licenses in zone 48 and 42 antler-less licenses in zone 61 for use in the Polk County Deer Management Zone.



Hunting Season

-This year the IDNR allowed participating entities to use September 15, 2012 through January 27, 2013, for the Polk County Deer Management Zone bow-hunting season. Agencies could choose to use these dates for their season, or tailor their hunt to suit individual needs (as long as the dates were within the allowable season above). The proposed hunt dates for the 2013 -2014 season will be September 14, 2013 through January 19, 2014.

Deer Harvest

-Agencies reported that 497 antler-less deer had been harvested during the '12-'13 bow-hunt, which is a decrease from 506 in the 2011-2012 season.

-There was a total of 536 antler-less deer harvested in the Polk County Deer Management Zone (including antler-less deer harvested in Camp Dodge with shotgun/muzzle).

34 incentive bucks were harvested during the '12-'13 bow-hunt

A total of *580 deer were harvested during the '12-'13 season.

* Count includes Camp Dodge (shotgun and muzzle any sex-tags)

Proficiency Testing

- Archery Field and Sports administered 291 proficiency tests to 283 hunters.

Safety Record

No injuries were reported from neighbors or park visitors



Polk County Aerial Deer Surveys: 2013

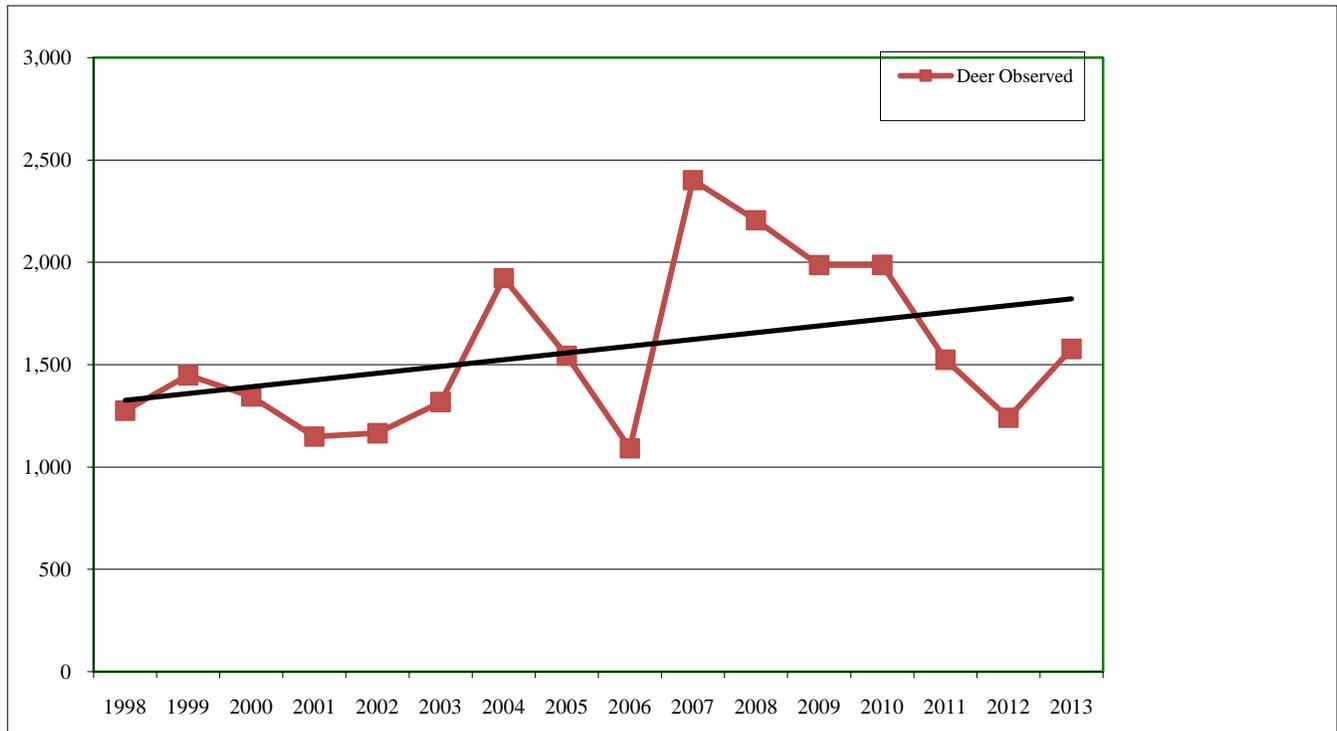
by Bill Bunger
Iowa DNR

Helicopter surveys were flown on February 23rd & 24th using a Bell Jet helicopter. All of the metro areas were flown on the 23rd and Saylorville Lake on the 24th. Observers were Brian Hickman and Bill Bunger. Conditions for the survey were good with >5" of snow. The sky was mostly clear on the 23rd and partly cloudy on the 24th. Winds were light. Temperatures started in the upper teens each day and were in the low to mid twenties by end of the day. Sighting conditions were good. Some deer beds were visible.

The number of deer sighted for each area is reported in Table 1. The number of deer recorded should be viewed as a minimum count. Each area listed was divided up into discrete units and circled or flown systematically. Where necessary the helicopter was brought around to count areas more thoroughly. In most areas the deer ran as the helicopter passed overhead.

The number of deer counted was up in 10 of the 20 urban areas surveyed when compared to 2012. A 21st area was added in West Des Moines this year. Snowfall and better sighting conditions across most of the survey areas compared to last year, would account for some of the increases from this year to last. (Comparisons to counts in 2011, however, would show increases in only five of the survey areas.) Three areas saw decreases while seven were mostly unchanged. Ten of the 20 survey areas have been at or below original goals the last three years.

Figure 1. The number of deer observed across all urban areas on the helicopter survey, 1998 – present.



Overall counts are considerably lower than we would expect if the controlled hunts had not been initiated in 1998. Nearly 5000 deer have been harvested in the deer management zone. This hunting pressure has helped bring numbers down from the highest counts observed in 2007. Some areas appear to be stabilizing but doing so at levels originally deemed acceptable by the task force. Areas with little or no hunting pressure appear to be keeping overall numbers slightly above acceptable density levels.

Bow-Hunt Administrators

- City of Des Moines: Mike Gaul 208-0310
- Administers public property bow-hunting; allows private property bow-hunting
- Des Moines Water Works: Scott Atzen 208-8702, Regina Olmstead 283-8769
- City of Johnston: Jim Sanders 727-7760
- Administers public property bow-hunting; allows private property bow-hunting
- Polk County Conservation: Brian Herrstrom 967-4889, c 249-1753
- US Army Corps of Engineers (Saylorville Lake): Tyler Hill 276-4656 ext. 6512
- City of Urbandale: Jeff Casey 331-6812
- Administers public property bow-hunting; allows private property bow-hunting
- Walnut Woods State Park (IDNR): Tim Gedler 285-4502
- City of West Des Moines: Sally Ortegies 222-3447
-Administers public property bow-hunting
- City of Clive: Kelly Canfield 223-5246
-Administers public property bow-hunting
- City of Pleasant Hill: Heath Ellis 208-5212, Rick Courcier 208-8214
- Administers public property bow-hunting; allows private property bow-hunting

Advisory Organizations

The following organizations serve in an advisory capacity to the Polk County Deer Task Force (in addition to the organizations listed above).

- Iowa Dept. of Natural Resources: Bill Bunger (515) 975-8318, Willie Suchy (515) 281-8660
- City of Ankeny, City of Des Moines Animal Control, City of Grimes, City of Polk City, Dallas County Conservation Board
- Archery Field and Sports, Des Moines Audubon, Des Moines Founders' Garden Club, Des Moines Izaak Walton League, IDNR Law Enforcement, Iowa Bow Hunters Assoc. (IBA), National Field Archery Association, Polk County Conservation Board, Polk County Board of Supervisors, Sierra Club and Westwood Neighborhood Association.

Table 1. Results from the helicopter deer surveys in Polk county, 1996 to present.

| Urban Areas Surveyed | Area (Square Miles) | Deer Sighted | | | | | | | | | | | | | | | | | | |
|---|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| | | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | |
| Water Works Park Area | 3.91 | 100 | 159 | 206 | 204 | 136 | 88 | 105 | 102 | 134 | 130 | 37 | 58 | 63 | 51 | 46 | 35 | 21 | 35 | |
| D.M, South of Grand | 1.37 | | | 56 | 45 | 39 | 50 | 49 | 36 | 63 | 56 | 18 | 53 | 66 | 49 | 55 | 28 | 28 | 29 | |
| DSM airport west-63rd* | 1.78 | | | | | | | | | | | | 150 | 164 | 188 | 103 | 76 | 76 | 74 | |
| Browns & Walnut Woods | 4.20 | 43 | 132 | 149 | 106 | 128 | 86 | 91 | 155 | 226 | 167 | 137 | 301 | 216 | 232 | 151 | 189 | 182 | 238 | |
| Easter Lake & DSM River East | 6.74 | 26 | 43 | 58 | 135 | 145 | 110 | 163 | 132 | 146 | 239 | 84 | 418 | 233 | 209 | 254 | 195 | 142 | 174 | |
| Yellow Banks & DSM River | 1.75 | 24 | 52 | 62 | 77 | 67 | 122 | 81 | 98 | 77 | 78 | 29 | 110 | 92 | 77 | 61 | 33 | 19 | 51 | |
| Four Mile Creek: | | | | | | | | | | | | | | | | | | | | |
| I80 -Des Moines River | 5.29 | 7 | 41 | 51 | 99 | 79 | 39 | 83 | 87 | 100 | 107 | 118 | 174 | 165 | 179 | 164 | 87 | 113 | 114 | |
| Pleasant Hill west* | 0.93 | | | | | | | | | | | | 48 | 71 | 59 | 86 | 63 | 53 | 43 | 70 |
| Pleasant Hill east | 2.27 | | | | | | | | | | | | 25 | 31 | 150 | 162 | 128 | 90 | 71 | 138 |
| North of I-80 | 4.45 | 58 | 128 | 128 | 158 | 117 | 103 | 86 | 80 | 104 | 127 | 16 | 124 | 202 | 136 | 177 | 125 | 71 | 98 | |
| Margo Frankel Woods | 0.78 | 15 | 14 | 35 | 4 | 23 | 12 | 6 | 0 | 28 | 15 | 8 | 15 | 15 | 17 | 25 | 18 | 21 | 14 | |
| Rock Creek | 2.91 | 26 | 74 | 38 | 51 | 49 | 79 | 24 | 39 | 44 | 27 | 52 | 66 | 92 | 58 | 47 | 41 | 46 | 34 | |
| Des Moines River: | | | | | | | | | | | | | | | | | | | | |
| Saylorville Dam-Riverview Park | 4.66 | 83 | 115 | 83 | 150 | 124 | 122 | 162 | 209 | 296 | 184 | 153 | 278 | 238 | 143 | 155 | 150 | 123 | 193 | |
| North of I-80* | 2.81 | | | | | | | | | | | | | 175 | 122 | 124 | 111 | 82 | 118 | |
| South of I-80* | 1.85 | | | | | | | | | | | | | 63 | 21 | 31 | 39 | 41 | 75 | |
| Jordan Creek/South Woods | 0.22 | | | | | | | | | 63 | 56 | 38 | 10 | 25 | 35 | 30 | 33 | 15 | 17 | |
| Quail Park- W. DSM** | 0.90 | | | | | | | | | | | | | | | | | | 101 | |
| Walnut Creek: | | | | | | | | | | | | | | | | | | | | |
| Raccoon River to I-80 | 0.79 | 0 | 1 | 7 | 5 | 23 | 14 | 14 | 25 | 42 | 19 | 30 | 50 | 19 | 40 | 40 | 27 | 22 | 13 | |
| Clive Area; west of I-35* | 0.30 | | | | | | | | | | | | | 23 | 15 | 10 | 5 | 8 | 6 | |
| Living History Farms | 0.41 | | | | 20 | 20 | 10 | 42 | 16 | 34 | 26 | 30 | 25 | 43 | 23 | 17 | 24 | 18 | 22 | |
| West of I-80 | 1.38 | 59 | 229 | 285 | 261 | 270 | 225 | 146 | 203 | 336 | 177 | 227 | 340 | 172 | 147 | 186 | 170 | 127 | 154 | |
| Beaver Creek (Johnston) | 0.59 | | | | | | | | | | | | | 100 | 74 | 80 | 61 | 27 | 74 | |
| Polk City Barrier Dam Refuge | 3.11 | 41 | 92 | 117 | 133 | 125 | 89 | 113 | 135 | 230 | 135 | 89 | 198 | 150 | 166 | 268 | 142 | 118 | 99 | |
| Total | 53.40 | 482 | 1,080 | 1,275 | 1,448 | 1,345 | 1,149 | 1,165 | 1,317 | 1,923 | 1,543 | 1,091 | 2,401 | 2,205 | 1,986 | 1,987 | 1,524 | 1,240 | 1,678 | |
| Rural Areas | | | | | | | | | | | | | | | | | | | | |
| Saylorville Reservoir | | | | | | | | | | | | | | | | | | | | |
| Camp Dodge | 2.23 | 55 | 71 | 93 | 105 | 108 | 69 | 73 | 68 | 195 | 165 | 148 | 234 | 148 | 109 | 93 | 107 | 49 | 91 | |
| Dam to MLB (west side) | 1.92 | | 61 | 62 | 24 | 38 | 34 | 61 | 50 | 109 | 46 | 67 | 98 | 114 | 86 | 136 | 84 | 115 | 94 | |
| Dam to MLB (east side) <i>a</i> | 2.55 | | 41 | 72 | 94 | 83 | 85 | 86 | 50 | 137 | 94 | 55 | 66 | 127 | 91 | 90 | 105 | 110 | 67 | |
| MLB to Hwy 17 (east side) | 4.18 | | 35 | 33 | 53 | 77 | 80 | - | - | | 142 | 123 | 124 | 208 | 134 | 178 | 179 | 201 | 225 | |
| Jester Park, MLB to Bridge to Hwy 17 | 4.82 | 88 | 158 | 161 | 95 | 95 | 132 | 127 | 108 | 189 | 82 | 110 | 133 | 221 | 165 | 187 | 201 | 238 | 132 | |
| Total (excluding Barrier Dam Refuge) | 16 | 143 | 366 | 421 | 371 | 401 | 400 | 347 | 276 | 630 | 529 | 503 | 655 | 818 | 585 | 684 | 676 | 713 | 609 | |
| Chichaqua & Skunk River | | 96 | 85 | | 197 | 109 | - | - | 187 | 133 | 106 | 181 | 210 | - | 154 | - | 103 | - | - | |

*New survey area, 2007.

a - does not include Barrier Dam Refuge area

**new survey area 2013

Table 1. Results from the helicopter deer surveys in Polk county, 1996 to present.

| Urban Areas Surveyed | Area (Square Miles) | Deer per Square Mile | | | | | | | | | | | | | | | | | | Change (2012 to 2013) | |
|---|---------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------|-----|
| | | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | | |
| Water Works Park Area | 3.91 | 26 | 41 | 53 | 52 | 35 | 23 | 27 | 26 | 34 | 33 | 9 | 15 | 16 | 13 | 12 | 9 | 5 | 9 | 80% | |
| D.M, South of Grand | 1.37 | 0 | 0 | 41 | 33 | 28 | 36 | 36 | 26 | 46 | 41 | 13 | 39 | 48 | 36 | 40 | 20 | 20 | 21 | 5% | |
| DSM airport west-63rd* | 1.78 | | | | | | | | | | | | 84 | 92 | 106 | 58 | 43 | 43 | 42 | -2% | |
| Browns & Walnut Woods | 4.20 | 10 | 31 | 35 | 25 | 30 | 20 | 22 | 37 | 54 | 40 | 33 | 72 | 51 | 55 | 36 | 45 | 43 | 57 | 23% | |
| Easter Lake & DSM River East | 6.74 | 4 | 6 | 9 | 20 | 22 | 16 | 24 | 20 | 22 | 35 | 12 | 62 | 35 | 31 | 38 | 29 | 21 | 26 | 33% | |
| Yellow Banks & DSM River | 1.75 | 14 | 30 | 35 | 44 | 38 | 70 | 46 | 56 | 44 | 45 | 17 | 63 | 53 | 44 | 35 | 19 | 11 | 29 | 164% | |
| Four Mile Creek: | | | | | | | | | | | | | | | | | | | | | |
| I80 -Des Moines River | 5.29 | 1 | 8 | 10 | 19 | 15 | 7 | 16 | 16 | 19 | 20 | 22 | 33 | 31 | 34 | 31 | 16 | 21 | 22 | 5% | |
| Pleasant Hill west* | 0.93 | | | | | | | | | | | | 48 | 71 | 63 | 92 | 68 | 57 | 46 | 75 | 63% |
| Pleasant Hill east | 2.27 | | | | | | | | | | | | 26 | 31 | 66 | 71 | 56 | 40 | 31 | 61 | 97% |
| North of I-80 | 4.45 | 13 | 29 | 29 | 36 | 26 | 23 | 19 | 18 | 23 | 29 | 4 | 28 | 45 | 31 | 40 | 28 | 16 | 22 | 38% | |
| Margo Frankel Woods | 0.78 | 19 | 18 | 45 | 5 | 29 | 15 | 8 | 0 | 36 | 19 | 10 | 19 | 19 | 22 | 32 | 23 | 27 | 18 | -33% | |
| Rock Creek | 2.91 | 9 | 25 | 13 | 18 | 17 | 27 | 8 | 13 | 15 | 9 | 18 | 23 | 32 | 20 | 16 | 14 | 16 | 12 | -25% | |
| Des Moines River: | | | | | | | | | | | | | | | | | | | | | |
| Saylorville Dam-Riverview Park | 4.66 | 18 | 25 | 18 | 32 | 27 | 26 | 35 | 45 | 64 | 39 | 33 | 60 | 51 | 31 | 33 | 32 | 26 | 41 | 57% | |
| North of I-80* | 2.81 | | | | | | | | | | | | | 62 | 43 | 44 | 40 | 29 | 42 | 45% | |
| South of I-80* | 1.85 | | | | | | | | | | | | | 34 | 11 | 17 | 21 | 22 | 41 | 86% | |
| Jordan Creek/South Woods | 0.22 | | | | | | | | 286 | 255 | 173 | 45 | 114 | 159 | 136 | 150 | 68 | 77 | 13% | | |
| Quail Park- W. DSM** | 0.90 | | | | | | | | | | | | | | | | | | 112 | | |
| Walnut Creek: | | | | | | | | | | | | | | | | | | | | | |
| Raccoon River to I-80 | 0.79 | 0 | 1 | 9 | 6 | 29 | 18 | 18 | 32 | 53 | 24 | 38 | 63 | 24 | 51 | 51 | 34 | 28 | 16 | -46% | |
| Clive Area; west of I-35* | 0.30 | | | | | | | | | | | | | 77 | 50 | 33 | 17 | 27 | 20 | -26% | |
| Living History Farms | 0.41 | | | | 49 | 49 | 24 | 102 | 39 | 83 | 63 | 73 | 61 | 105 | 56 | 41 | 59 | 44 | 54 | 23% | |
| West of I-80 | 1.38 | 43 | 166 | 207 | 189 | 196 | 163 | 106 | 147 | 243 | 128 | 164 | 246 | 125 | 107 | 135 | 123 | 92 | 112 | 22% | |
| Beaver Creek (Johnston) | 0.59 | | | | | | | | | | | | | 169 | 125 | 136 | 103 | 46 | 125 | 172% | |
| Polk City Barrier Dam Refuge | 3.11 | 13 | 30 | 38 | 43 | 40 | 29 | 36 | 43 | 74 | 43 | 29 | 64 | 48 | 53 | 86 | 46 | 38 | 32 | -16% | |
| Total | 53.40 | 9 | 20 | 24 | 27 | 25 | 22 | 22 | 25 | 36 | 29 | 20 | 45 | 41 | 37 | 37 | 29 | 23 | 31 | 33% | |
| Rural Areas | | | | | | | | | | | | | | | | | | | | | |
| Saylorville Reservoir | | | | | | | | | | | | | | | | | | | | | |
| Camp Dodge | 2.23 | 25 | 32 | 42 | 47 | 48 | 31 | 33 | 30 | 87 | 74 | 66 | 105 | 66 | 49 | 42 | 48 | 22 | 41 | 86% | |
| Dam to MLB (west side) | 1.92 | - | 32 | 32 | 13 | 20 | 18 | 32 | 26 | 57 | 24 | 35 | 51 | 59 | 45 | 71 | 44 | 60 | 49 | -18% | |
| Dam to MLB (east side) <i>a</i> | 2.55 | - | 16 | 28 | 37 | 33 | 33 | 34 | 20 | 54 | 37 | 22 | 26 | 50 | 36 | 35 | 41 | 43 | 26 | -40% | |
| MLB to Hwy 17 (east side) | 4.18 | - | 8 | 8 | 13 | 18 | 19 | - | - | - | 34 | 29 | 30 | 50 | 32 | 43 | 43 | 48 | 54 | 13% | |
| Jester Park, MLB to Bridge to Hwy 17 | 4.82 | 18 | 33 | 33 | 20 | 20 | 27 | 26 | 22 | 39 | 17 | 23 | 28 | 46 | 34 | 39 | 42 | 49 | 27 | -45% | |
| Total (excluding Barrier Dam Refuge) | 16 | - | 23 | 27 | 24 | 26 | 25 | 22 | 18 | 40 | 34 | 32 | 42 | 52 | 37 | 44 | 43 | 45 | 39 | -13% | |
| Chichaqua & Skunk River | | | | | | | | | | | | | | | | | | | | | |

*New survey area, 2007.

a - does not include Barrier Dam Refuge area

**new survey area 2013

2012 - 2013 Deer Harvest

POLK-DALLAS URBAN ZONE 48

A. **Polk County Conservation (PCC) Public Areas:** Brian Herrstrom 967-4889

| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe |
|--|---------------------------|-----------------------------------|------------------------|------------|
| Jester Park | | | | |
| Incentive Buck (4 allotted) | 2 | 0 | 2 | 10 |
| Sycamore Trail (includes Area C in Johnston) | | | | |
| Incentive Buck (1 allotted) | 0 | 0 | 2 | 12 |
| Easter Lake | | | | |
| Incentive Buck (2 allotted) | 1 | 0 | 2 | 11 |
| Brown's Woods | | | | |
| Incentive Buck (4 allotted) | 1 | 0 | 1 | 30 |
| Thomas Mitchell Park | | | | |
| Incentive Buck (1 allotted) | 1 | 0 | 1 | 1 |
| Mally's Weh-Weh-Neh-Kee Park | | | | |
| Incentive Buck (1 allotted) | 0 | 0 | 4 | 1 |
| Four Mile Greenbelt | | | | |
| Incentive Buck (1 allotted) | 0 | 0 | 0 | 8 |
| Yellow Banks Park | | | | |
| Incentive Buck (2 allotted) | 0 | 0 | 0 | 9 |
| Gay Lea Wilson East Trail | | | | |
| Incentive Buck (1 allotted) | 1 | 0 | 2 | 5 |
| Polk County Conservation (PCC) | | | | |
| Harvest Total | 6 | 0 | 14 | 87 |

B. **City of Clive Public Areas:** Kelly Canfield 223-5246

| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe |
|---|---------------------------|-----------------------------------|------------------------|------------|
| West of I-80 | 0 | 0 | 1 | 5 |
| Greenbelt Park: East of NW 114th | 0 | 0 | 0 | 0 |
| Incentive Buck (None allotted at this time) | | | | |
| Sub-total | 0 | 0 | 1 | 5 |
| City of Clive Private Property | | | | |
| None at present date | | | | 0 |
| Sub-total | 0 | 0 | 0 | 0 |
| City of Clive | | | | |
| Harvest Total | 0 | 0 | 1 | 5 |

| C. City of Des Moines Public Areas: Michael Gaul 208-0310 | | | | | |
|--|-----------------------|---------------------------|--------------------|------------|--|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| Cases Lake: Hartford Ave | 1 | 1 | 2 | 6 | |
| Crocker Woods: Prospect Rd. & Hickman Rd. | 1 | 0 | 0 | 4 | |
| Ewing Park | 1 | 0 | 1 | 13 | |
| Laurel Hill Woods | 0 | 0 | 0 | 3 | |
| MacRae Park | 0 | 0 | 1 | 4 | |
| Pioneer Park | 0 | 1 | 1 | 4 | |
| Ashworth Park | 1 | 0 | 0 | 7 | |
| Incentive Buck (9 allotted) | | | | | |
| Sub-total | 4 | 2 | 5 | 41 | |

| City of Des Moines Private Property | | | | | |
|--|-----------------------|---------------------------|--------------------|------------|------------|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| SW / Airport Area (South of Waterworks Park, West of Fleur to limits) | 3 | 0 | 5 | 31 | |
| SE / Easter Lake and Ewing Parks Area (SE 14th east, South of DM River to Limits) | 4 | 0 | 4 | 27 | |
| South of Grand Area (West of Terrace Hill to 63rd, South of University to Waterworks) | 2 | 0 | 1 | 18 | |
| MacRae Park Area | 0 | 0 | 0 | 0 | |
| Prospect / Beaverdale Park Area | 1 | 0 | 2 | 8 | |
| East Area (East and Northeast area of city) | 1 | 0 | 2 | 23 | |
| Incentive Buck (15 allotted) | | | | | |
| Sub-total | 11 | 0 | 14 | 107 | |
| City of Des Moines | Harvest Total | 15 | 2 | 19 | 148 |

| D. Des Moines Water Works: Scott Atzen 208-8702, Regina Olmstead 283-8769 | | | | | |
|--|-----------------------|---------------------------|--------------------|------------|-----------|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| 2201 George Flagg Parkway, 50321 Incentive Buck (3 allotted) | 2 | 0 | 1 | 20 | |
| Des Moines Water Works | Harvest Total | 2 | 0 | 1 | 20 |

| E. City of Johnston Public Areas: Jim Sanders 727-7760 | | | | | |
|---|-----------------------|---------------------------|--------------------|------------|--|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| Area A: Army Corps of Engineers (See USACE totals) | | | | | |
| Area C: Sycamore Trail (See PCC totals) | | | | | |
| Area E: City of Johnston - 156 Acres Incentive Buck (2 allotted) | 0 | 0 | 0 | 7 | |
| Sub-total | 0 | 0 | 0 | 7 | |

| City of Johnston Private Property | | | | | |
|--|----------------------|----------|----------|----------|-----------|
| Private Property | | 1 | 3 | 2 | 19 |
| Incentive Buck (3 allotted) | | | | | |
| | Sub-total | 1 | 3 | 2 | 19 |
| City of Johnston | Harvest Total | 1 | 3 | 2 | 26 |

F. **City of Pleasant Hill: Rick Courcier 208-8214**

| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
|--|----------------------|--------------------|-------------|----------|-----------|
| City Property | 0 | 0 | 0 | 2 | |
| Private Property | 0 | 0 | 0 | 13 | |
| Incentive Buck (1 allotted) | | | | | |
| Gay Lea Wilson East Trail (See PCC totals) | | | | | |
| City of Pleasant Hill | Harvest Total | 0 | 0 | 0 | 15 |

G. **City of Urbandale Public Areas: Jeff Casey 331-6800**

| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
|---|----------------------|--------------------|-------------|-----------|-----------|
| City Parks | 1 | 0 | 1 | 7 | |
| Incentive Buck (13 allotted city wide) | | | | | |
| | Sub-total | 1 | 0 | 1 | 7 |
| City of Urbandale Private Property | | | | | |
| Living History Farms (LHF) (West of I-35) | 1 | 1 | 4 | 8 | |
| Other Private Property | 6 | 2 | 11 | 51 | |
| | Sub-total | 7 | 3 | 15 | 59 |
| City of Urbandale | Harvest Total | 8 | 3 | 16 | 66 |

H. **City of West Des Moines Public Areas: Sally Ortgies 222-3447**

| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
|---|----------------------|--------------------|-------------|----------|-----------|
| South Woods | 1 | 0 | 0 | 8 | |
| Incentive Buck (2 allotted) | | | | | |
| | Sub-total | 1 | 0 | 0 | 8 |
| City of West Des Moines Private Property | | | | | |
| | 1 | 0 | 0 | 9 | |
| | Sub-total | 1 | 0 | 0 | 9 |
| City of West Des Moines | Harvest Total | 2 | 0 | 0 | 17 |

| I. USACE: (Corps of Engineers): 276-4656 Scott Rolfes ext. 6508; Tyler Hill ext. 6512 | | | | | |
|--|----------------------|--------------------|-------------|-----------|-----------|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| Saylorville (No Buck Incentive Issued for this area) | 0 | 0 | 9 | 27 | |
| Polk City Refuge (No Buck Incentive Issued for this area) | 0 | 0 | 1 | 1 | |
| USACE | Harvest Total | | 0 | 0 | 10 |
| | | | | 28 | |

| J. Walnut Woods State Park: Tim Gedler 285-4502 | | | | | |
|---|----------------------|--------------------|-------------|-----------|----------|
| | Incentive Buck | Shed Antlered Buck | Button Buck | Doe | |
| Walnut Woods State Park (No Buck Incentive Issued for this area) | | 0 | 3 | 11 | |
| Walnut Woods State Park | Harvest Total | | 0 | 0 | 3 |
| | | | | 11 | |

Total Doe Harvested Zone 48 **423**

Total Incentive Bucks Harvested Zone 48 **34**

Total Shed Antlered Bucks Harvested Zone 48 **8**

Total Button Bucks Harvested Zone 48 **66**

| | | | |
|--|-------------|--------------|------------|
| Antler-less tags available zone 48: | 1200 | Sold: | 827 |
| Incentive Buck Tags available Zone 48 | 75 | Sold: | 71 |

| K. IDNR ELECTRONIC LICENSING (ELSI) Zone 48 | | | | | | |
|--|------------------------|----------------------|-----------|--------------------|-------------|------------|
| | <u>Incentive Bucks</u> | <u>Licenses Does</u> | Buck | Shed Antlered Buck | Button Buck | Doe |
| | 31 | 3 | 31 | 7 | 80 | 408 |
| ELSI | Harvest Total | | 31 | 7 | 80 | 408 |

ELSI harvest totals for zone 48 are displayed to show reporting discrepancies by hunters to both administrating agencies and IDNR.

POLK-DALLAS RURAL ZONE 61

| L. Camp Dodge: Mary Jones 252-4648 | | | | |
|---|----------------------|---------------------------|--------------------|------------|
| | Buck** | Shed Antlered Buck | Button Buck | Doe |
| Archery | 2 | 0 | 2 | 15 |
| Shotgun / Muzzle loader | 8 | 0 | 0 | 11 |
| **Buck (Normal seasons and any-sex tags allowed) | | | | |
| Camp Dodge | Total Harvest | 10 | 0 | 2 |
| | | | 2 | 26 |

| M. IDNR ELECTRONIC LICENSING (ELSI) Zone 61 | | | | |
|--|----------------------|---------------------------|--------------------|------------|
| | Buck | Shed Antlered Buck | Button Buck | Doe |
| | 0 | 0 | 1 | 10 |
| ELSI | Total Harvest | 0 | 0 | 1 |
| | | | 1 | 10 |

Total Antlerless Deer Harvested Zone 61 39

Total Bucks Harvested Zone 61 10

Antler-less tags available zone 61: 400 Sold: 42

Antler-less Deer Harvested (Bow) Total 514

*** Count including Camp Dodge (shotgun/muzzle) and ELSI zone 61 536**

Incentive Bucks Total 34

Bucks: Camp Dodge and ELSI zone 61 Total 10**

****Normal seasons (shotgun/bow) and any-sex tags allowed**

Total Deer Harvested 580

2012- 2013 Revenue Budget

- as of 04/30/13 (83.33% of budget year expired)

| UNIT # | UNIT | Revenue Budget | Total Revenues Received | Balance Due | % Received |
|-----------------------------------|---------------------------|---------------------|-------------------------|-------------------|--------------|
| General - Fund 1 | | | | | |
| 0213 | Equipment | \$ 11,040 | \$ 11,040 | \$ - | 100.0% |
| 6006 | Environmental Ed | \$ 52,600 | \$ 56,056 | \$ (3,456) | 106.6% |
| 6009 | Natural Resources | \$ 109,922 | \$ 46,065 | \$ 63,857 | 41.9% |
| 6101 | Administration | \$ 97,340 | \$ 92,061 | \$ 5,279 | 94.6% |
| 6103 | Community Outreach | \$ - | \$ - | \$ - | 0.0% |
| 6104 | Conservation Grants | \$ 312,993 | \$ 267,416 | \$ 45,577 | 85.4% |
| 6110 | Parks Advocacy Unit | \$ 361,700 | \$ 210,648 | \$ 151,052 | 58.2% |
| 6119 | Construction/Maint. | \$ - | \$ 379 | \$ (379) | #DIV/0! |
| 6124 | Equestrian Center | \$ 321,060 | \$ 229,601 | \$ 91,459 | 71.5% |
| Sub-Total - General Fund 1 | | \$ 1,266,655 | \$ 913,266 | \$ 353,389 | 72.1% |
| REAP - Fund 26 | | | | | |
| 0211 | Resource Enhancement | \$ 103,000 | \$ 102,511 | \$ 489 | 99.5% |
| Reserve - Fund 50 | | | | | |
| 0210-0214 | Special Projects | \$ 594,500 | \$ 420,957 | \$ 173,543 | 70.8% |
| Bond - Fund 51 | | | | | |
| 0210 | Water & Land Dev & Trails | \$ - | \$ - | \$ - | 0.0% |
| Grand Total - Conservation | | \$ 1,964,155 | \$ 1,436,735 | \$ 527,420 | 73.1% |

2012- 2013 Expense Budget

- as of 04/30/13 (83.33% of budget year expired)

| UNIT # | UNIT | Expense Budget | Total Expended | Balance Remaining | % Expended |
|--------------------------------------|---------------------------------|----------------------|---------------------|---------------------|--------------|
| General - Fund 1 | | | | | |
| 0213 | Equipment | \$ 134,656 | \$ 119,686 | \$ 14,970 | 88.9% |
| 6006 | Environmental Ed | \$ 359,543 | \$ 308,820 | \$ 50,723 | 85.9% |
| 6009 | Natural Resources | \$ 688,628 | \$ 539,158 | \$ 149,470 | 78.3% |
| 6101 | Administration | \$ 758,867 | \$ 641,720 | \$ 117,147 | 84.6% |
| 6103 | Community Outreach | \$ 199,621 | \$ 161,184 | \$ 38,437 | 80.7% |
| 6104 | Conservation Grants | \$ 768,285 | \$ 595,128 | \$ 173,157 | 77.5% |
| 6110 | Parks Advocacy Unit | \$ 453,343 | \$ 384,810 | \$ 68,533 | 84.9% |
| 6119 | Construction/Maint. | \$ 958,813 | \$ 814,752 | \$ 144,061 | 85.0% |
| 6124 | Equestrian Center | \$ 382,149 | \$ 349,324 | \$ 32,825 | 91.4% |
| Sub-Total - General Fund 1 | | \$ 4,703,905 | \$ 3,914,582 | \$ 789,323 | 83.2% |
| General Supplemental - Fund 2 | | | | | |
| All Units | Benefits (IPERS/FICA/Ins, Etc.) | \$ 938,896 | \$ 767,609 | \$ 171,287 | 81.8% |
| Risk Management - Fund 3 | | | | | |
| 6100 | Insurance, Med., Work. Comp. | \$ 167,200 | \$ 144,159 | \$ 23,041 | 86.2% |
| REAP - Fund 26 | | | | | |
| 0211 | Resource Enhancement | \$ 135,401 | \$ 114,735 | \$ 20,666 | 84.7% |
| Reserve - Fund 50 | | | | | |
| 0210-0214 | Trails, Special Projects | \$ 527,634 | \$ 425,870 | \$ 101,764 | 80.7% |
| Bond - Fund 51 | | | | | |
| 0210 | Water & Land Dev & Trails | \$ 3,679,362 | \$ 103,590 | \$ 3,575,772 | 0.0% |
| Grand Total - Conservation | | \$ 10,152,398 | \$ 5,470,547 | \$ 1,106,080 | 53.9% |