



Northwest Illinois Water Study – Phase I Report

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Process Report

#	Item	Progress
1	Pre-planning	BHRC (covering Jo Daviess, Stephenson, Carroll, Ogle, Whiteside, and Lee counties) contacted planning organizations within the study area for support. Specifically, we solicited assistance from Bi-State Regional Commission (Rock Island and Henry counties), North Central Illinois Council of Governments (Bureau County), and Region 1 Planning Council (Winnebago and Boone counties). Additionally, BHRC created outreach material (including a participation invite letter) and began to develop stakeholder lists.
2	Stakeholder assembly & invites	Each planning organization created stakeholder lists and provided sector-by-sector names, addresses, etc. BHRC used this information to contact stakeholders (and would-be participants) by mail and email. Partner planning organizations followed up with their own calls and emails to stakeholders and reported on outreach progress to BHRC.
3	Kick-off meetings	<p>BHRC advertised kick-off meetings in a northern paper (The Journal Standard), southern papers (Sauk Valley Media and WNS Publications), and on our website. We also distributed information about the kick-off meetings on Facebook (through posts and targeted ads). Furthermore, our partners distributed information about the events within their respective regions.</p> <p>With BHRC facilitating, the kick-off meetings featured IDNR and ISWS presenting in both Deer Grove (Deer Valley Country Club) and Freeport (Stephenson County Farm Bureau). IDNR and ISWS representatives provided information that included historical and process background, as well as region-specific water data. At both events, attendees discussed regional water demand and supply strengths and weaknesses. Other topics included water quality (on the mind of attendees), so-called next steps, and stakeholder committee selection. The Deer Grove meeting took place on April 9, 2018, and the Freeport one on April 12, 2018.</p> <p>At the Freeport gathering, representatives from Boone County, who were invited to and attending the event, asked to be included in the process. Following a discussion among IDNR, ISWS, and BHRC staff, IDNR opted to extend the study area to</p>

		<p>include Boone County (increasing the overall number of study counties to eleven, up from ten).</p> <p>Strengths and weaknesses (of the region's water supply, use characteristics, and other qualities) enumerated by meeting participants are attached. In addition, some speculative goals and objectives from Deer Grove are included.*</p> <p>*Note: for the sake of time and focus – and given participant feedback in Deer Grove – BHRC chose not to discuss goals/objectives at the Freeport meeting).</p>
4	Stakeholder committee meeting	<p>The stakeholder committee met at the Lake Carroll Clubhouse (near Lanark, IL) on May 30, 2018. At the meeting, the ISWS presented its draft demand report for Northwest Illinois. Lecture and Q&A consumed the first 1.5 hours. For the remainder of the meeting, Q&A continued and the group began to discuss future steps. The committee decided to meet during Phase II of the study at the Lake Carroll location again. Before the meeting concluded, BHRC asked participants to provide supplementary written comments and questions.</p>
5	Stakeholder comments & questions	<p>The following comments and questions were recorded at or after the first meeting of the Stakeholder Committee meeting at the Lake Carroll Clubhouse:</p> <ul style="list-style-type: none"> • Question about IDPH's population projections, used in the ISWS Water Demand Report, which predict population increases in Northwest Illinois. The most recent American Community Survey (2016) shows stagnant or decreasing population for most of the planning area (Table 2.2) • Concern about an assumed increase in employment (especially in light of present day workforce shortages) • Concerns about the exclusion of/reduced emphasis on surface water, recreational uses, and water quality • Desire to see error bars included with illustrations (and questions about the statistical methods used) • Request for a map of all the aquifers contained in or intersecting with the eleven-county region • Query about peaking power plants (both in Lee County) excluded from the demand report • Curiosity about whether or not the hydroelectric plants in Rockton, Dixon, Rock Falls, and Rock Island should be considered

		<ul style="list-style-type: none"> • Suggestion that the ISWS report writers consider trends in industry, such as the introduction of automation and sustainability measures, as well as growing vs. shrinking sectors • Question about whether or not the region is too reliant on ground water, especially those communities next to the Mississippi and Rock rivers (is diversification possible?) • Question about whether or not the irrigation systems monitored actually pump from river water or from ground water at certain locations; a related question about whether or not center-pivot irrigation systems can pump at variable rates (and the impact of variable rate pumping) • Question about whether or not water quality is related to the types of agriculture widely in use (and about whether or not new practices or crops adopted by the next generation of farmers will address concerns) • Question about whether or not to include the decommissioning of the two nuclear generating stations in Cordova and Byron (likely to occur following the expiration of the incentives associated with in the Illinois Future Energy Jobs Act or the projected end of life at each station) in demand projections; these stations consume substantial quantities of water • Question about whether or not there are any governmental water authorities within the study area • Question about how private lake communities on centralized systems are classified • Desire to see a withdrawal capacity and risk map • Desire to address how to respond to requests for withdrawals • Question/discussion about water systems and price elasticity
6	Survey	BHRC distributed an online and paper survey, built using Google Forms. 159 respondents participated. For details, please see the supplemental survey documents, including the narrative and illustrated responses.
7	Other outreach	Daniel Payette presented to an Illinois Association of Groundwater Professionals continuing education class (100+ participants) at Kishwaukee Community College in Malta, IL, on April 14, 2018. BHRC staff also promoted related events

		and the aforementioned survey during its regular meetings with local officials (e.g., county board chairs, county staff, Soil and Water Conservation Districts, etc.).
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Attachment A – Outreach Materials

Dear Northwest Illinois Water User:

In early 2006, the Illinois Governor's Office, responding to statewide drought conditions, directed the Illinois Department of Natural Resources (IDNR) to develop a comprehensive program for state and regional water supply planning. That program, which has implications for community and economic development, has reached northwest Illinois.

Although more abundant than elsewhere in the United States, local water resources are not unlimited. Northwest Illinois has already grappled with important water supply issues, including:

- Serving current manufacturing, food processing, and energy production needs
- Trends requiring year-round agricultural production (e.g., tomatoes or medical cannabis grown indoors on an industrial scale)
- Aging municipal systems that hemorrhage millions of gallons of water per year
- Radium and other contaminants in municipal water supplies, requiring expensive treatment or new sourcing
- Residential restrictions on outdoor water use, especially during extremely dry weather or drought
- Dry wells reported at local recreational communities and agricultural homesteads
- Development proposals to extract and ship millions of gallons of water away from local aquifers

To kick off the study in northwest Illinois, the partners invite you to attend one of two informational meetings:

- **Southern meeting:** April 9, 6-8 pm, Deer Valley Golf Club, 3298 Hoover Rd, Deer Grove
- **Northern meeting:** April 12, 6-8 pm, Stephenson County Farm Bureau, 210 W Spring St, Freeport

Please RSVP online at www.blackhawkhills.com/water or via phone (815-625-3854) by April 5.

Governments, private businesses, the agricultural community, local residents, and other water users are invited, and we encourage you to invite others to attend. We believe your participation is vitally important and will ensure a future where water remains plentiful for all of the region's users.

Sincerely,

The Representatives of:



Water Study Local Contact:

Daniel Payette, Blackhawk Hills Regional Council
309 1st Ave, Rock Falls
815.625.3854
daniel.payette@blackhawkhills.com

Attachment A, continued



In early 2006, the Illinois Governor's Office, responding to statewide drought conditions, directed the Illinois Department of Natural Resources (IDNR) to develop a comprehensive program for state and regional water supply planning. That program, which has implications for community and economic development, has reached northwest Illinois.

To kick off the study in northwest Illinois, the partners invite you to attend one of two informational meetings:

SOUTHERN MEETING:

April 9, 6-8 pm

Deer Valley Golf Club | 3298 Hoover Rd. | Deer Grove

NORTHERN MEETING:

April 12, 6-8 pm

Stephenson County Farm Bureau | 210 W. Spring St. | Freeport

Please RSVP online at www.blackhawkhills.com/water or via phone (815-625-3854) by April 5.


Governments, private businesses, the agricultural community, local residents, and other water users/stakeholders are invited, and we encourage you to invite others to attend.

Partners:


Blackhawk Hills Regional Council
Illinois Department of Natural Resources
Illinois State Water Survey
Region 1 Planning Council
Bi-State Regional Commission
North Central Illinois Council of Governments

www.blackhawkhills.com/water

Attachment A, continued

**Blackhawk Hills Regional Council**
Written by Daniel Payette [?] · March 15 · 🌐

Live in Northwest Illinois? Think water is important? Join us this April near Deer Grove or in Freeport and help us plan for tomorrow.





[HTTP://WWW.BLACKHAWKHILLS.COM/WATER](http://www.blackhawkhills.com/water)

Water Study Kickoff



Businesses. Communities. Individuals. Everybody uses wat...

[Sign Up](#)






 **4,496 people** reached



Attachment A, continued

**Blackhawk Hills Regional Council**
Published by Daniel Payette [?] · April 13 · 

Live or work in Northwest Illinois? We want to know how you use water.
Take the survey and help us plan for a water-filled future.



Northwest Illinois Water Study Survey

31 questions in 6 minutes or less.

Intended for residents or workers of the counties of Boone, Bureau, Carroll, Henry, Jo Daviess, Lee, Ogle, Rock Island, Stephenson, Whiteside, and Winnebago.


For this and all other questions, use your best judgement. One survey per household only, please.

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Northwest Illinois Water Study Survey
31 Questions in 6 Minutes or Less. Intended for residents...


Learn More


 **2,373 people** reached


Boost Post


 Edward Juracek, Don Mazzanti and 4 others


9 Shares





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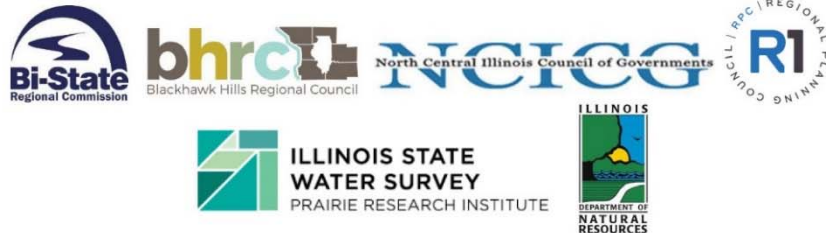
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 Write a comment...



Attachment A, continued



AGENDA

WHAT? Northwest Illinois Water Study Kickoff Meetings
 DATE: April 9, 2018 (Deer Grove)
 April 12, 2018 (Freeport)
 TIME: 6 p.m. – 8 p.m.
 LOCATION: Deer Valley Golf Club, 3298 Hoover Rd, Deer Grove (April 9)
 Stephenson County Farm Bureau, 210 W Spring St, Freeport (April 12)

Topic	Preparation or Notes
1. Welcome TIME: 6 p.m. (food and beverages available at this point) PURPOSE: allow for introductions LEADER: BHRC	
2. Water Demand/Supply Planning Overview TIME: 6:15 p.m. PURPOSE: provide project background, address the need for planning, summarize next steps, allow for Q&A LEADERS: *Wes Cattoor, Illinois Department of Natural Resources *Walt Kelly, Illinois State Water Survey	Find an example of an Illinois-based water supply plan here (link to executive summary).
3. Pre-Planning Activities TIME: 7 p.m. PURPOSE: discuss the region's general strengths and weaknesses, consider planning process goals/objectives, undertake mapping and survey exercises, allow for Q&A LEADERS: *BHRC *Meeting attendees	Consider the following prompts: *What is my greatest concern re: water supply? *What is the region's greatest opportunity re: water supply? *What is the region's greatest challenge re: water supply? *What do I, my community, or my business want out of this planning process or addressed in the final report?
4. Next Steps & Adjournment TIME: 7:45 p.m. PURPOSE: review timeline, recruit stakeholder committee members, adjourn LEADER: BHRC	

CONTACT:

- Daniel Payette, Blackhawk Hills Regional Council, Executive Director, 815-625-3854, daniel.payette@blackhawkhills.com

Attachment A, continued



AGENDA

WHAT? Northwest Illinois Water Study - Stakeholder Committee Meeting
 DATE: May 30, 2018
 TIME: 2 p.m. - 4 p.m.
 LOCATION: Sunrise Room, Lake Carroll Clubhouse, 29-11 Ironwood Dr, Lanark, IL

Topic	Preparation or Notes
1. Welcome TIME: 2 p.m. PURPOSE: allow for introductions LEAD: BHRC	
2. Draft Rock River Demand Report Overview TIME: 2:05 p.m. PURPOSE: provide attendees with a high-level overview of the draft demand report LEAD: Walt Kelly, Illinois State Water Survey	Review draft report, updated tables, and appendices
3. Draft Rock River Demand Report Discussion TIME: 3 p.m. PURPOSE: discuss the draft demand report presented by ISWS LEAD: Attendees	
4. Next Steps & Adjournment TIME: 3:55 p.m. PURPOSE: discuss phase two meeting schedule LEAD: BHRC	

CONTACT:

- Daniel Payette, Blackhawk Hills Regional Council, Executive Director, 815-625-3854, daniel.payette@blackhawkhills.com



Attachment B – Participants

NW IL Water Study Kickoff Meeting Deer Grove – April 9, 2018

Name	Organization	Email
Alex Stuedemann	TPC Deere Run	[REDACTED]
Amy Allen	Village of Manlius	[REDACTED]
Beth Baranski	League of Women Voters	[REDACTED]
Bruce Black	University of Illinois Extension	[REDACTED]
David Dyer	City of Galva	[REDACTED]
Don Bixby	Chamlin & Associates, Inc	[REDACTED]
Doug Mitchell	Tampico	[REDACTED]
Eric L. Epps	Sauk Valley Community College, BHRC	[REDACTED]
Glen Kuhlemier	City of Rock Falls, BHRC	[REDACTED]
Gregg Pearson	Nutrient Stewardship of Northern Illinois	[REDACTED]
Jack Novotney	IMEG Corp	[REDACTED]
Janice McCoy	University of Illinois Extension	[REDACTED]
John Espinoza	Whiteside County Board, BHRC	[REDACTED]
Larry Pearson	Nutrient Stewardship of Northern Illinois	[REDACTED]
Lisa Bergeron	NIU Center for Governmental Studies	[REDACTED]
Loralie Heintzelman	USDA Rural Development	[REDACTED]
Mark Kaiser	USDA NRCS	[REDACTED]
Mary Latwesen		[REDACTED]
Matt Floming	Neumiller Farms	[REDACTED]
Matt Hansen	Willett, Hofmann & Associates, Inc.	[REDACTED]
Ted Padilla	City of Rock Falls Water Department	[REDACTED]
Tony Loete	City of Moline Department of Public Works	[REDACTED]
Vern Latwesen	Whiteside County SWCD	[REDACTED]
Andrew Shaw	BHRC	[REDACTED]
Daniel Payette	BHRC	[REDACTED]
Julie Jacobs	BHRC	[REDACTED]
Sarah Gardner	Bi State Regional Commission	[REDACTED]
Austin Taylor	NCICG	[REDACTED]
Kevin Lindeman	NCICG	[REDACTED]
Walt Kelly	ISWS	[REDACTED]
Wes Cattoor	IDNR	[REDACTED]



Attachment B, continued

NW IL Water Study Kickoff Meeting Freeport – April 12, 2018

Name	Organization	Email
Beckie Maddox	Exelon Generation, LLC	[REDACTED]
Bill Zink	Village of Mount Carroll Water & Sewer Department	[REDACTED]
Bonnie Foust	Village of Shannon	[REDACTED]
Brian Dockery	Riverstone Group	[REDACTED]
Bruce Johnson	Stephenson County Farm Bureau	[REDACTED]
Cory Law	Whiteside County Health Department	[REDACTED]
Curt Dambman	Carroll County SWCD	[REDACTED]
Dan Kane	Boone County Conservation District	[REDACTED]
Dick Marsh	Swedish American Health System	[REDACTED]
Doug Block	Hunter Haven Farm	[REDACTED]
Jamie Rott	City of Rockford	[REDACTED]
Joe Rush	Lake Carroll	[REDACTED]
Kyle Saunders	City of Rockford	[REDACTED]
Larry McFall	Rock River Water Reclamation District	[REDACTED]
Laurel Bergren	ARC Perspectives, Inc	[REDACTED]
Mark Rust	Village of Pecatonica Public Works	[REDACTED]
Mark Stockman	City of Rockford	[REDACTED]
Nick Thompson	Illinois Association of Groundwater Professionals	[REDACTED]
Nicole Haas	Illinois Association of Groundwater Professionals	[REDACTED]
Phil Crnkovich	East Dubuque Nitrogen Fertilizers, LLC	[REDACTED]
Sandra Martell	Winnebago County Health Department	[REDACTED]
Shawn Lyons	Lyons Well Drilling	[REDACTED]
Steve Haring	MSA Professional Services, Inc	[REDACTED]
Thomas A. Kopanski	City of Freeport Water & Sewer Department	[REDACTED]
Todd Marshall	Winnebago County Health Department	[REDACTED]
Tom Glendenning	Fehr-Graham Engineering & Environmental	[REDACTED]
Tom Block	Hunter Haven Farm	[REDACTED]
Ed Juracek	BHRC, Carroll County SWCD	[REDACTED]
Greg Thoren	Landowner	[REDACTED]
Robert Baker	Stephenson County EMA	[REDACTED]
Tim Hanson	RRWRD	[REDACTED]
Chris Baer	RRWRD	[REDACTED]
Nick Hyde		[REDACTED]
Dan Switzer		[REDACTED]
Joe Ginger	Yellow Creek Partnership	[REDACTED]
Dennis Bonnet		[REDACTED]



Matt Keller
Ernst Nemeth
Ken Terrinoni
Sherry Branson

Farmer
ARC Perspectives, Inc
Boone County Government
Boone County Board



Andy Shaw
Dan Payette
Julie Jacobs
Ben Rohr
Jon Paul Dipla

BHRC
BHRC
BHRC
R1PC
R1PC



Wes Cattoor
Daniel Abrams
Jason Zhang

IDNR
ISWS
ISWS





Attachment B, continued

NW IL Water Study - Stakeholder Committee Meeting Lake Carroll – May 30, 2018

Name	Organization	Email
Adam Holder	Fehr Graham	[REDACTED]
Alex Stuedemann	TPC Deere Run	[REDACTED]
Angela Freyermuth	US Army Corp of Engineers	[REDACTED]
Beckie Maddox	Exelon	[REDACTED]
Ben Adolph	Midwestern BioAg	[REDACTED]
Beth Baranski	League of Women Voters of Jo Daviess County	[REDACTED]
Bonnie Foust	Village of Shannon	[REDACTED]
Bruce Black	Uofl Extension	[REDACTED]
Dan Kane	Boone County Conservation District	[REDACTED]
Gerry Pearson	Nutrient Stewardship	[REDACTED]
Greg Thoren	Nutrient Stewardship	[REDACTED]
Harold Albrecht	Albrecht Well	[REDACTED]
Jamie Rott	City of Rockford	[REDACTED]
Joe Rush	Lake Carroll Association	[REDACTED]
Jon Phillips	Midwestern BioAg	[REDACTED]
Kyle Saunders	City of Rockford	[REDACTED]
Loralia Heitzleman	USDA RD	[REDACTED]
Madan Maharjan	NIU	[REDACTED]
Mike Reibel	Ogle County Planning & Zoning	[REDACTED]
Nicole Hass	IAGP/Jo Daviess County SWCD	[REDACTED]
Rick Vondra	CHS, Inc	[REDACTED]
Sherry Branson	Boone County Board	[REDACTED]
Tara Cullison	Resident	[REDACTED]
Todd Marshall	Winnebago County Health Department	[REDACTED]
Andrew Shaw	BHRC	[REDACTED]
Daniel Payette	BHRC	[REDACTED]
Julie Jacobs	BHRC	[REDACTED]
Sarah Gardner	BSRC	[REDACTED]
Austin Taylor	NCICG	[REDACTED]
Branden Gaber	R1PC	[REDACTED]
Colin Belle	R1PC	[REDACTED]
Walt Kelly	ISWS	[REDACTED]
Wes Cattoor	IDNR	[REDACTED]

Attachment C – Strengths

Resp. Strength(s) – combined Deer Grove and Freeport responses

1	Lot of vertical faults for aquifer diversity, generally good quality of water
2	Ample water supply, diversity of business/industry/residential, smaller communities-population of 25K or less & many less than 5K, well managed-maintained municipal water facilities
3	Brings land value to the area
4	Fair amount of water supply, Lake Carroll tax values helps schools
5	Four rivers, different aquifers, quantity of water, conservation practices
6	Good volume producing wells, public & elected officials are starting to see the need for investment, metering programs are promoting conservation
7	Good water supply, increase in water conservation, increase in public education
8	Have always had the needed quantity of water (public use), water needed for recreation, plenty of water for wetlands
9	Healthy aquifer recharge rates
10	Healthy aquifer, good recharge rate
11	Healthy aquifer, low industrial usage
12	High quality water supply, low demand on aquifer in East Dubuque, 800' & lower better quality than river level water
13	Industry support, good water supply, high recharge rate in Boone County
14	Lots of water, regional environmental planning is a priority, new hazard mitigation plan (Winnebago Co), high biodiversity in Rock River & Kishwaukee River
15	Natural beauty of water systems in region
16	Plentiful regional aquifer
17	Rechargeable aquifer
18	Recreational opportunities
19	Rivers, good quality water, volunteer conservation
20	Sandy bottom lands, control of water levels by lock & dams
21	Steady water supply
22	Subsurface geology, lock & dam system on the Mississippi

Attachment C – Weaknesses

Resp. Weakness(es) – combined Deer Grove and Freeport responses

1	Abandoned wells, lack of samples, recharge challenges
2	Abundance of abandoned wells, leaky distribution lines & infrastructure
3	Aging water infrastructure
4	Barium & radium levels; abandoned wells
5	Declining industrial base, karst
6	Farmers get picked on for water shortages - lack of understanding
7	Hydraulic fracturing if it comes to our region
8	Knowledge deficit re: water control, water usage is high for industry, the IEPA has declared Boone County as highly sensitive to contamination due to our geology, our river's water level is dropping as Joliet's cone of depression is spreading outward, we do not plan for growth using a SAR map - we look at 2D maps instead, lack of funding for 3-D mapping
9	Lack of knowledge by homeowners as to use
10	Lack of understanding of water supply issues, removal of vegetation in fields, very leaky old municipal water systems
11	Leakage of 100-year-old system, no backflow prevention
12	More extreme weather events - flooding, rainstorms
13	Multi levels (depths) of radium 226 & 228, shallow aquifer high in iron & manganese, total hardness, some unregulated contaminants occurring, public water distribution systems are failing, inflow & infiltration displacing water supplies
14	Old farm wells must be abandoned
15	Old infrastructure, significant demand, large-scale stormwater issues, public education on issues
16	Perceived abundance leads to lack of conservation
17	Pollutants in water, methods of distribution, increasing methods of contamination
18	Radium is a serious challenge (economically for small villages)
19	Radium levels vary, protect surface water
20	Radium, increased levels of nitrates in municipal systems, strain on local & county gov. to maintain & expand water facilities, lack of consumer awareness regarding the true value of our water supply & clean water supply, many business/industry/residential that may negatively impact watershed by lack of regulatory compliance/ignorance
21	Radium, iron, hardness
22	Slowed population growth/population loss = fewer people to share the costs of infrastructure maintenance/upgrades
23	Soil and/or nutrient runoff-loss, aging infrastructure
24	Taxes high and incentives very low, no industry, Lake Carroll - drugs, age of population (old), need farmers involved - not many at meeting tonight
25	Watershed contamination, protect shallow H ₂ O, no water conservation

Attachment D – Miscellaneous

Suggested goals & objectives (from Deer Grove only):

Goal	Objective	Objective	Objective	Objective	Objective
Conserve groundwater	Draw from surface water when possible for large users	Put a premium on groundwater use	Support creative demonstration projects that conserve groundwater	Promote projects and practices that increase infiltration and reduce runoff	Consider pros & cons of a groundwater allocation system
Keep the rivers & aquifers pollution-free	Stop the erosion of Lawrence Park by the Rock River each winter	Develop the Hennepin Canal for further recreational use (clean the east bank like the west bank)			
Committee composition	Health department employees, water/wastewater engineers	Well drillers, farm/supply, fertilizer/irrigation	Water company representative (i.e., Illinois American)		
Good representation from area not too far away					
Offer home gardeners strategies, tips, & resources for reducing H2O consumption while being able to grow plants, fruits, & veggies for their family use					
Develop a long range plan to address	Identify largest consumers of H2O	Identify alternative sources of H2O	Outline productive conservation		



Goal	Objective	Objective	Objective	Objective	Objective
potential future H2O deficits			efforts/economic impacts		
Identify key areas of water use and potential demand					
Learn more about what is the state of our water supply	Develop a system/ organization that can assemble and disperse factual information in regards to protecting our water supply in terms of both quantity and quality				
Protect water quality	Promote projects and practices that increase infiltration and reduce runoff.				
Address recycling of WWTP effluent					

Attachment D, continued

Comments received on our Facebook survey promotion:



Georgann Castro Did you ever wonder why we have so many floods these days. Could it be because the farmers all tile their fields and the water does not settle to the earth but is hustled off via drainage tiles to the nearest creek

Like · Reply · Message · 20w



Blackhawk Hills Regional Council Hi, Georgann. Thanks for commenting. Flooding is an important issue, but this study is focused on water use and availability. We're trying to determine (through these meetings and other research) whether the region has enough water to support existing and future uses - whether by businesses, communities, or individuals.

Like · Reply · Commented on by Daniel Payette [?] · 20w



Georgann Castro That's the point. Water that is redirected to creeks rather than being allowed to reach the aquifer goes to Louisiana . Not here for use here. That has to be considered in any discussion regarding available water

Like · Reply · Message · 20w



Supplemental Documents

The following are enclosed:

- Survey form
- Survey narrative & report
- Illustrated survey responses
- Communication plan