



Spokane Aquifer Joint Board

December 19, 2013

Wellhead Implementation  
Program Report

# Aquifer Outreach End of Year Synopsis

2013

**KSPS** 

# Main Menu

## Aquifer Workshop

### Overview

- Statistics
- Materials
- Workshop Summary
- Evaluations
- Giving Thanks

## Other Outreach

### Events and Activities

- Poster Contest
- Silverwood
- Kids Day
- Daniel Day at KSPS

# Workshop Stats

Winter/ Spring 2013				
Date	School	Teacher	Kids	Classes
2/1/13	Adams		50	2
2/6/13	Indian Trail	Melnick/Hall	50	2
2/22/13	Garfield	Hays/ Wunsch	50	2
2/27/13	Mullan Road	Larson/ Current	50	2
3/1/13	Garfield	Lee/ Tucker	50	1
3/11/13	Cub Scouts	Frank Robl	17	1
4/11/13	Moran Prairie	Antonio	75	3
4/12/13	Regal Elementary	Brooks	75	3
5/9/13	Ponderosa	Sullivan	50	2
5/15/13	Spokane Valley Adventis	Zarate	21	1
5/16/13	Pioneer	Betty Burley-Wolf	85	3
6/5/13	Colbert	O'Connor/ Smith	48	2
8/15/13	Girl Scouts	Sarah Wallace	64	3



# Workshop Stats

Fall/ Winter 2013-2014				
Date	School	Teacher	Kids	Classes
9/10/13	Girl Scouts Open House	Sarah Betts		2
10/7/13	St. John Vianney	Barnum		3
10/11/13	Woodridge	Seipp		1
10/14/13	Adams	Towne/Olsen		2
10/16/13	East Farms	Williams		2
10/21/13	Wilson	Farley		3
10/22/13	St. George's	Inman		2
10/23/13	Browne	Pittman		3
11/7/13	Pasadena Park	Spilker		1
11/15/13	Adams (Valley)	Smith		3
11/13/13	Linwood	McGowan		3
Total				52



# Workshop Stats

- 52 workshops completed
- Requests for workshops have been scheduled through April 2014



# Workshop Summary

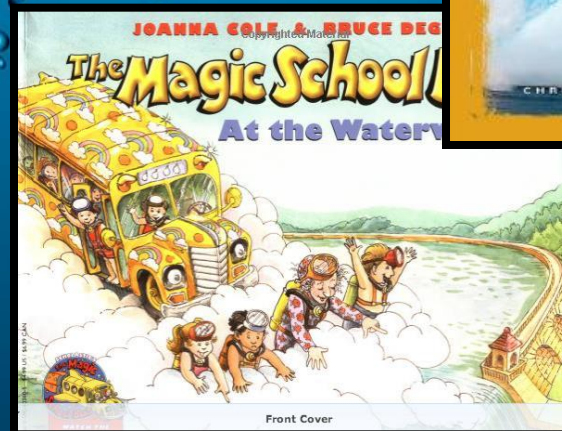
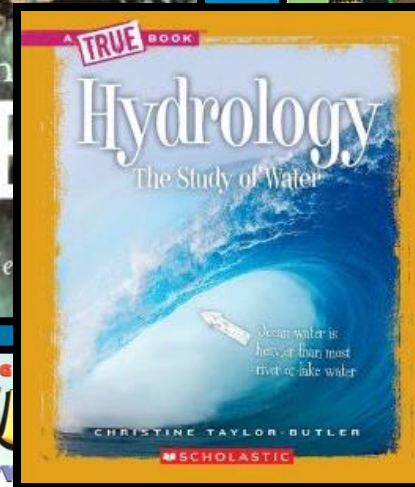
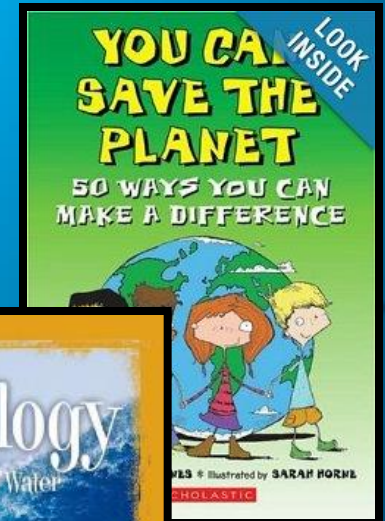
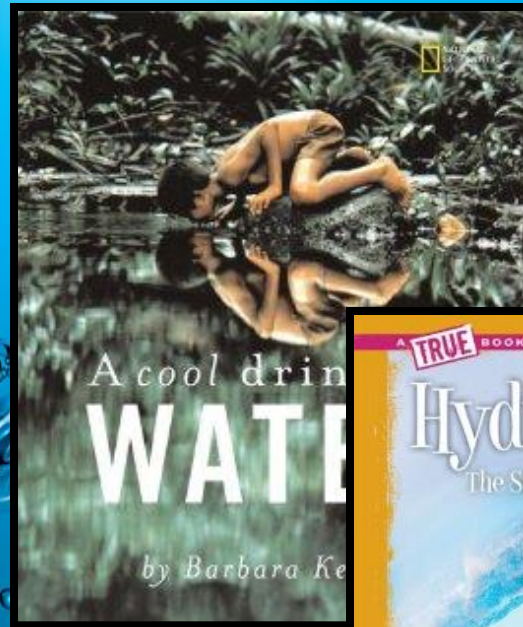
Click to view:

<http://www.youtube.com/watch?v=wLzpEbSsUL0&feature=share&list=FLd2pn4h0ml2BGiNBqerhqkg>



# Educational Materials

Each classroom received a set of five water related books, Groundwater: The Wonder Down Under packet, an aquifer atlas, placemat, folder and an Aqua Duck comic book.





# Teacher Evaluations



Thank You!

## Workshop Evaluation

Your workshop evaluation will provide constructive feedback to the presenter(s). Please return this to KSPS at the address below at your convenience. Thank you!

Please rate the following on a scale of 1 to 5 where 1 = poor and 5 = excellent.

**Workshop Topic** 1 2 3 4 5  
From the title of this session, did you receive information you expected to learn about?

**Workshop Materials** 1 2 3 4 5  
Were the materials and handouts relevant to the topic?

**Workshop Flow** 1 2 3 4 5  
Was the information presented in an easy-to understand format?

**Workshop Discussion** 1 2 3 4 5  
Did the presenter answer questions effectively and accurately?

**Workshop Presenter** 1 2 3 4 5  
Was the presenter clear and easy to follow?

**Workshop Overall** 1 2 3 4 5  
How would you rate this workshop in general?

**Additional Comments:** *The students remained fully engaged and interested; building an aquifer replica was very effective; Kristen did a great job!*

*Rich Petrini  
Saint George's School*



KSPS Public Television, 3911 South Regal Street, Spokane, WA 99223  
(509) 354-7743....(800) 735-2377.....kristenz@spokaneschools.org



Thank You!

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Was the information presented in an easy-to understand format?

**Workshop Discussion** 1 2 3 4 5  
Did the presenter answer questions effectively and accurately?

**Workshop Presenter** 1 2 3 4 5  
Was the presenter clear and easy to follow?

**Workshop Overall** 1 2 3 4 5  
How would you rate this workshop in general?

**Additional Comments:** *Kristen did such a nice job. The kids were engaged and learned a lot. You can tell that she loves what she does.*

*Jacki Seipp*



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Please rate the following on a scale of 1 to 5 where 1 = poor and 5 = excellent.

**Workshop Topic** 1 2 3 4 (5)  
From the title of this session, did you receive information you expected to learn about?

**Workshop Materials** 1 2 3 4 (5)  
Were the materials and handouts relevant to the topic?

**Workshop Flow** 1 2 3 4 (5)  
Was the information presented in an easy-to understand format?

**Workshop Discussion** 1 2 3 4 (5)  
Did the presenter answer questions effectively and accurately?

**Workshop Presenter** 1 2 3 4 (5)+++  
Was the presenter clear and easy to follow?

**Workshop Overall** 1 2 3 4 (5)  
How would you rate this workshop in general?

**Additional Comments:** The class loved the workshop. Kristin is an amazing presenter.

Mary Joaze  
5th Adams



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Thank You!

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Please rate the following on a scale of 1 to 5 where 1 = poor and 5 = excellent.

**Workshop Topic** 1 2 3 4 (5)  
From the title of this session, did you receive information you expected to learn about?

**Workshop Materials** 1 2 3 4 (5) Awesome!  
Were the materials and handouts relevant to the topic?

**Workshop Flow** 1 2 3 4 (5)  
Was the information presented in an easy-to understand format?

**Workshop Discussion** 1 2 3 4 (5)  
Did the presenter answer questions effectively and accurately?

**Workshop Presenter** 1 2 3 4 (5) well dressed, kid friendly  
Was the presenter clear and easy to follow?

**Workshop Overall** 1 2 3 4 (5)  
How would you rate this workshop in general?

**Additional Comments:** Thank you Kristin for the wonderful aquifer lesson. The students were all engaged and excited to learn. They continued to talk about it the next school day!

Thanks Again!  
Megan Smith (4th Grade Teacher)



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Haak



Thank You!

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**Workshop Topic** 1 2 3 4 5  
From the title of this session, did you receive information you expected to learn?

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**Workshop Flow** 1 2 3 4 5  
Was the information presented in an easy-to-understand format?

**Workshop Discussion** 1 2 3 4 5  
Did the presenter answer questions effectively and accurately?

**Workshop Presenter** 1 2 3 4 5  
Was the presenter clear and easy to follow?

**Workshop Overall** 1 2 3 4 5  
How would you rate this workshop in general?

**Additional Comments:** *Very well organized! Wonderfully varied presentation from a PP to discussion to hands-on materials. Presenter was very professional, great management and knowledgeable!*  
*Kate Haak* *wonderful*



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Kristen-

Thank you so much for your time and expertise! The kids thoroughly enjoyed the presentation and learned a lot. Sorry I didn't get a chance to say goodbye. I hope the 4<sup>th</sup> grade presentation went well.

Also, thank you for the books! They'll be well-loved and well-used.



**Denie Inman**  
3rd Grade Teacher  
**Saint George's School**  
2929 W Waikiki Rd • Spokane WA 99208  
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denie.inman@sgs.org • [www.sgs.org](http://www.sgs.org)

**Saint George's School Mission:**  
*Inspiring scholars, athletes, and artists to serve and lead others.*



# Poster Contest

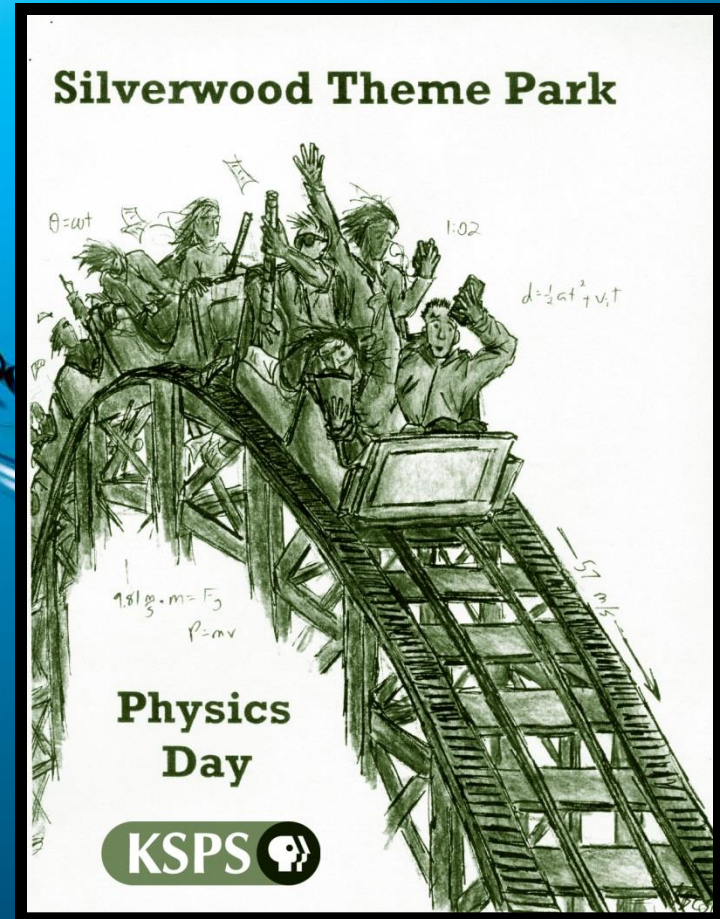


The five winners of the contest and their teachers received a backpack of books, fun water activities, and a pass to Mobius Science Center .



# Silverwood Physics & Science Days

May 22-23, 2013-  
Over 3,400 high school teachers and teens visited the KSPS booth to learn about the aquifer at the 17th annual Physics and Science Day.



# Kid's Day

August 10<sup>th</sup>, 2013 -  
Hundreds of families  
received aquifer  
maps and comic  
books. Aqua Duck  
greeted supporters  
and made many new  
fans, small and  
large, throughout  
the day.



# Daniel The Tiger Event at KSPS

August 9<sup>th</sup>, 2013 –

Aquaduck made a guest appearance at our Daniel The Tiger station event .

There he greeted families and handed out comic books to enthusiastic fans.



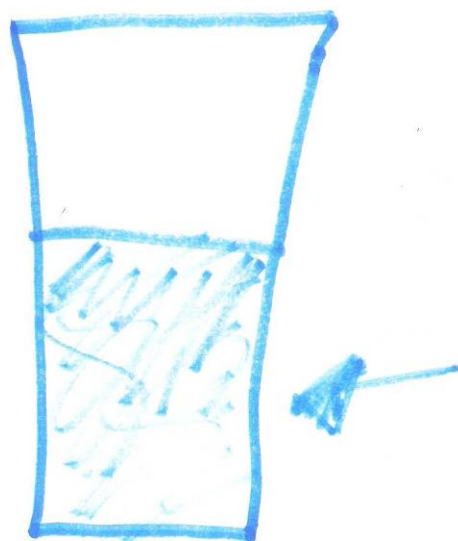
Thank you for teaching  
us about the Spokane  
Aquifer!

Thank you for letting us  
make mini-aquifers.  
Thank you for the supercool  
aquifer folder and supplies!





I ♥

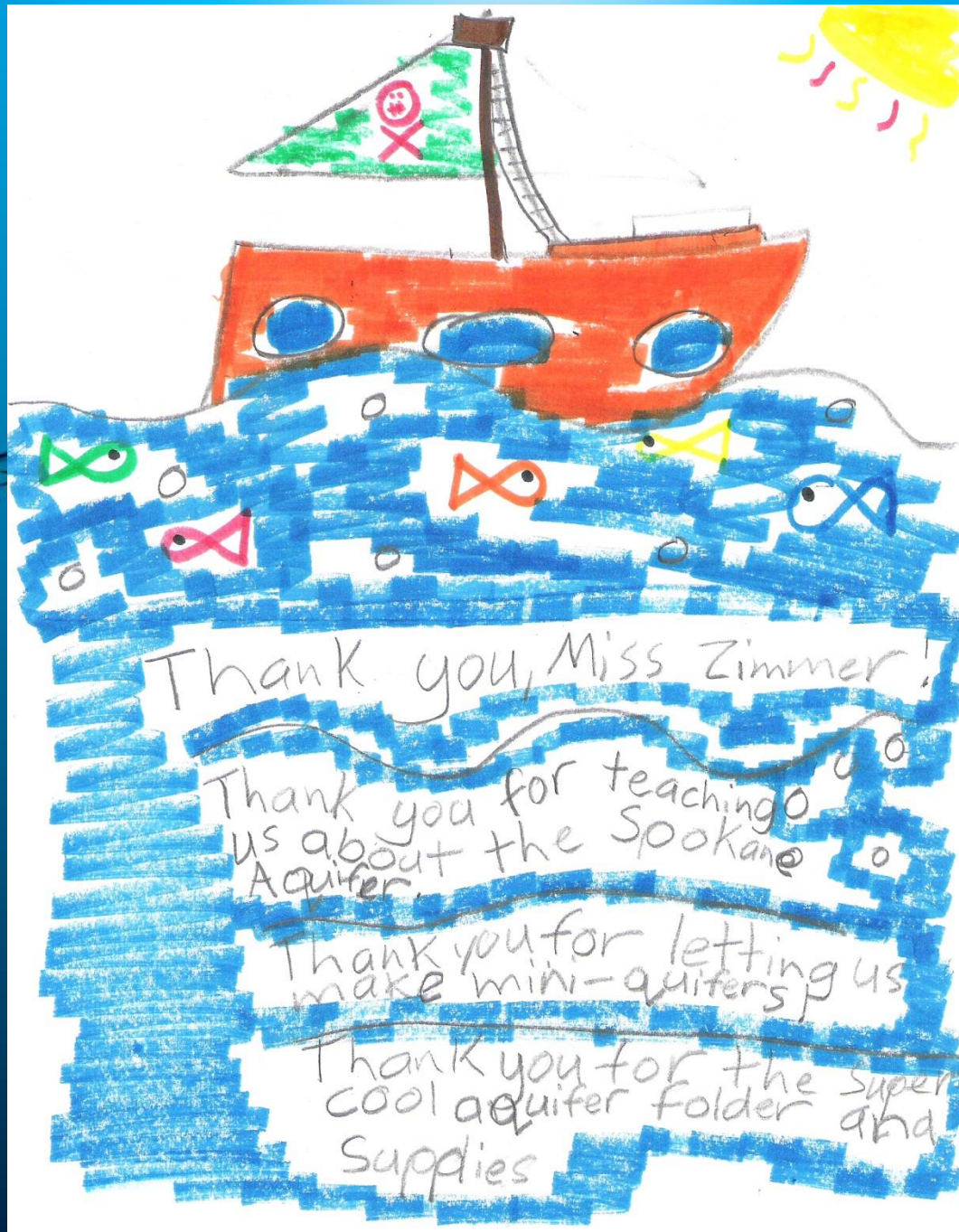


Water

Thank you for  
coming to our  
class Ms. Zimmer.  
I NEVER knew  
how cool the  
Aquifer is!

Love, Bailey  
from: Mrs. Current's  
class





Thank you, Miss Zimmer!

Thank you for teaching us about the Sookane Aquifer.

Thank you for letting us make mini-aquifers!

Thank you for the super cool aquifer folder and supplies



Thank you  
for teaching  
us about the  
aquifer. I have  
almost told too  
people. My goal is  
1,000 people. Your  
friend,  
Ryan



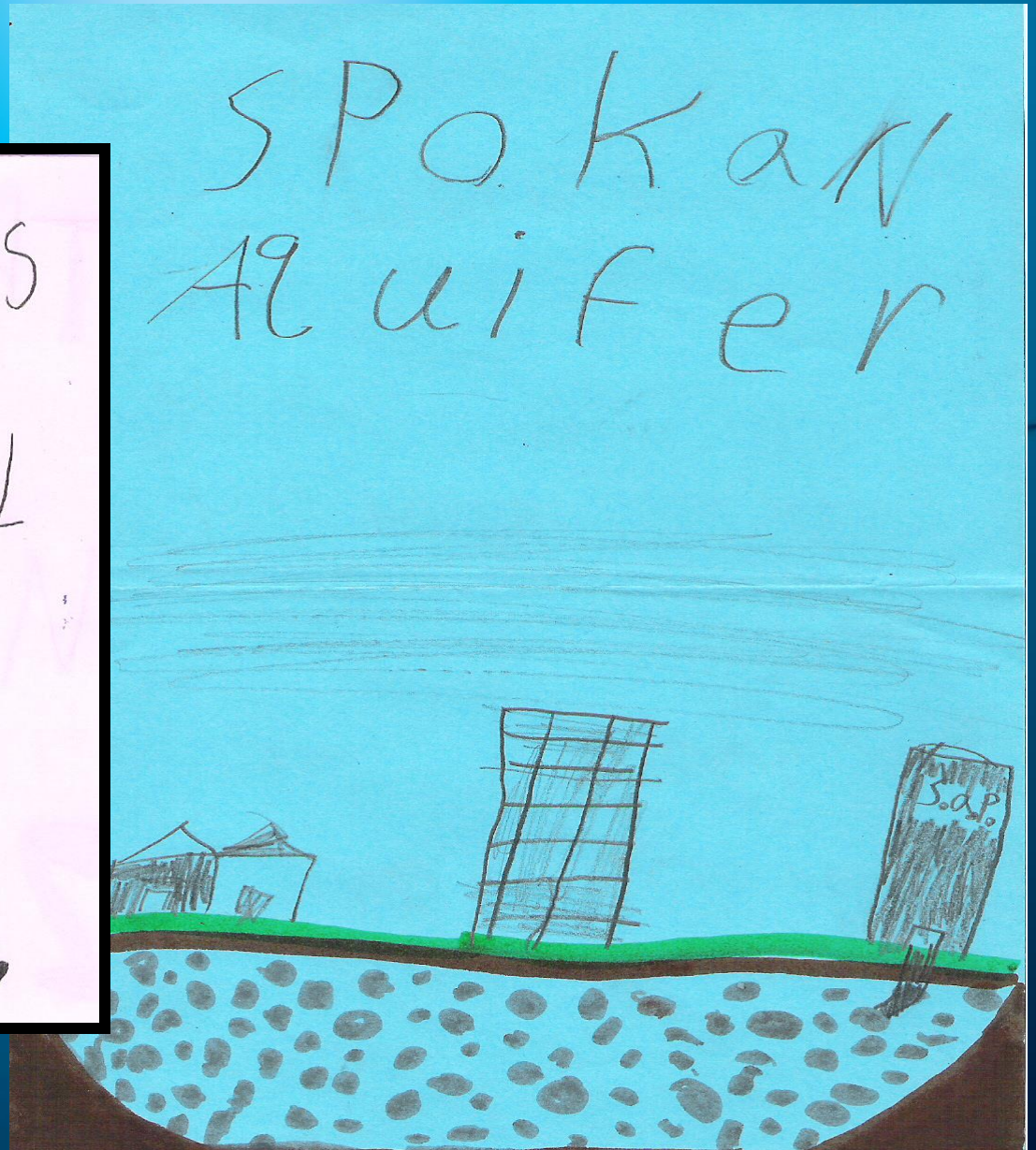
aquifers

POWELL

The

WORLD!

SPOKAN  
AQUIFER



**Thank you SAJB for another  
wonderful year!**



# AWWA Exemplary Source Water Protection Award

- Due 1/15/14
- 20 page limit
- A draft is ready to be sent out for review.
  - Is it accurate?
  - Is anything missing?
  - Should anything be deleted?
  - Suggestions, comments, questions

# AWWA Award Content & Scoring

1. Vision – 5 pts.
2. Source Water Characterization - 5 pts.
3. Source Water Protection Goals – 5 pts.
4. Action Plan – 20 pts.
5. Implementation - 20 pts. (outline with links)
6. Review & Evaluation – 10 pts.
7. Effectiveness – 10 pts.
8. Innovations - 10 pts.
9. Political, Social, Economic, Environmental Setting- 10 pts.
10. Program Manager – 5 pts.

# EnviroStars Waste Directory Data Base

**What is it?**

**WASTE TYPE**

**10% of Audience**

**How do I Get Rid of It?**

**VENDORS**

**90 % of Audience**

- **Hazardous Waste - Urban Waters Contaminant of Concern**
  - Department of Ecology [[amalgam, solvents](#)] (12/12/13)
- **Pre-Treatment (1/6/14)**
  - City of Spokane & Spokane County [[carpet cleaning waste water](#)]
- **Solid Waste**
  - SRSWS, Ecology, City of Spokane, Spokane County [[yard waste](#)]
- **Stormwater**
  - City of Spokane, Ecology, Spokane County [[dry wells](#)]



# Waste Type Data Collection Form

## Database Content Collection Form

Waste Type									
<b>Description</b>									
<b>Disposal Options</b>	Transfer Station/Landfill	Recycle	Reuse	Repair	Trade/Materials Exchange	Treatment	Pick-Up	Drop-Off	Mail
<b>Disposal Descriptions</b>									
<b>Vendors</b>	<b>Residential</b>	<b>Business</b>	<b>Disposal</b>	<b>Recycling</b>	<b>Equipment</b>	<b>Lab</b>	<b>Consulting</b>		
<b>Related Wastes</b>									
<b>Safer Alternatives</b>									
<b>By Industry</b>	Auto	Carpet Cleaning	Dental	Dry Cleaning	Land-scaping	Veterinary	Bio-hazardous	Pharmaceutical	
<b>Regulations</b>									

# Vendor Data Collection Form

Vendor						
<b>Contact</b>						
<b>Customers Served</b>	Residential	SQG	MQG	LQG		
<b>Waste Type</b>						
<b>Collection</b>	Drop-Off	Transport	Pick-Up	Mail		
<b>Disposal Options</b>	Transfer Station	Recycle	Reuse	Repair	Trade/Materials Exchange	Treatment
<b>Support Services</b>	Treatment	Equipment	Lab	Consulting	Spill Response	
<b>Description</b>						
<b>Location</b>	City of Spokane	Spokane Valley	Spokane County			

# Spokane EnviroStars Certified Businesses

## 2013 Results

- 69 Certified
- 8 Upgraded Star Levels
- 2 Decertifications

## 2014 Goals

- 21 new certifications
- 20 re-certifications

On average one out of 20  
Local Source Control Visits  
result in a certification.

Auto Body & Paint  
Auto Repair  
Cleaning Services  
Cleaning Products  
Chiropractic  
Dentistry  
Education  
Electric Services and  
Supplies  
HVAC  
Landscaping  
Manufacturing  
Painting  
Photography  
Printing  
Property Management  
Repair & Maintenance  
Transportation  
Veterinary Medicine

# NEW Spokane EnviroStars Certified Businesses

Industrial Commercial  
Electrical Supplies & Services

**BL Best**

**Power City Electric**

GOOD FOR BUSINESS  
GOOD FOR THE ENVIRONMENT  
GOOD FOR YOU



# 2013 Web Statistics

Dates 2012-2013	3/15/13 4/14/13	4/15/13 5/14/13	5/15/13 6/14/13	6/15/13 7/14/13	7/15/13 8/14/13	8/15/13 9/14/13	9/15/13 10/14/13	10/15/13 11/14/15	11/14/13 12/15/13
Total visits	3,332	2,352	2,029	1,779	1,790	1,569	4,148	4,313	1,819
Unique Visits	3,026	2,699	1873	1635	1,570	1,422	3,972	4,042	1,515
Page Views	10,080	8,703	6,605	5,019	6,024	4,975	9,631	13,989	7,860
Ave. Visit	1:23 min	1:19 min	1:07 min	1:09 min	1:12 min	1:10 min	0:54 sec	2:40 min	3:07 min
New visitors	89.47%	85.85%	91.01%	90.03%	85.08%	88.08%	95.15%	92.65%	79.93%
Returning Visitors	10.50%	14.1%	8.09%	9.07%	14.02%	11.9%	4.85%	7.35%	19.07%
Page Visits	3.03 p.	3.22 p.	3.26 p.	2.82 p.	3.37 p.	3.17 p.	2.32 p.	3.24 p.	4.32 p.
Bounce Rate	57.83%	46.94%	48.84%	53.34%	43.35	41.36%	71.22%	57.92%	26.88%
Peak Dates	4/9, 4/11	4/15, 4/29, 5/14	5/15	7/1, 7/9	7/18	9/6, 9/11	9/15, 9/20	10/24,10/2 11/11, 11/12	11/18,11/25 12/2, 12/11

SAJB - <http://spokaneaquifer.org>  
SAJB

# Audience

## Audience Overview

Nov 15, 2013 - Dec 14, 2013

All Visits  
100.00%

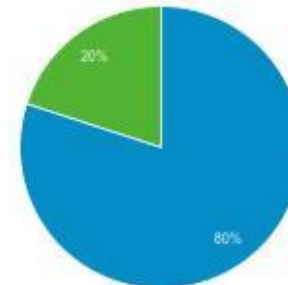
### Overview



### 1,515 people visited this site



■ New Visitor ■ Returning Visitor



# PAGES

[Go to this report](#)

SAJB - <http://spokaneaquifer.org>  
SAJB

## Pages

Nov 15, 2013 - Dec 14, 2013

All Visits  
100.00%

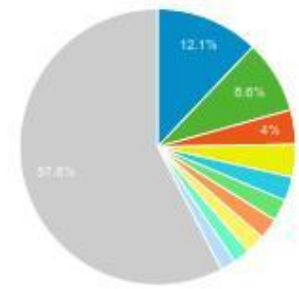
### Explorer

Pageviews



Page	Pageviews	Pageviews
	7,860 % of Total: 100.00% (7,860)	7,860 % of Total: 100.00% (7,860)
1. /contact/service-area-map /	952	12.11%
2. /	673	8.56%
3. /education-awareness/elementary-aquifer/field-trip/	316	4.02%
4. /education-awareness/elementary-aquifer/	301	3.83%

Contribution to total: Pageviews





Happy Holidays  
&  
Thank You  
for a Great Year