

Planting the seeds for future watershed stewards

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Lake Management
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2009-A Different Way: Back to the Earth

- National Science Foundation – Innovative Technology Experiences for Students and Teachers
- Integrate western STEM with Traditional Ecological Knowledge
- Critical Pedagogy of Place (Gruenewald 2003)
- 3-year project focused on shared Spokane River watershed
- Uibtte.org



Year 1

- Coeur d'Alene Tribe: Sheep Creek
- Spokane Tribe: Tshmikain Creek
- Combined: North Fork Coeur d'Alene



Year 2

- Coeur d'Alene: Windy Bay – Camp Four Echoes
- Spokane: Tshimikain Creek
- Combined: Spokane River Journey/Farragut State Park



Year 3

- Two weeks combined
- Wellpinit Pow Wow Grounds
- Heyburn State Park
- Spokane and St. Joe Rivers









What worked; what didn't

- Whose voice leads?
- Family and community participation critical
- Place drives learning
- Culture is science, not an add-on
- Research issues - understanding protocols

The Confluence Project

- Lake Management began partnering with TCP in 2013
 - UI-led, funded by NSF DRK12
 - Goal to connect graduate students, teachers, students and community watershed experts
 - Partners – The Lands Council, St. Maries, Post Falls, Lake City
- 2015 – NSF-funding ended, EPA Environmental Education funds obtained
 - Tribal partnership expanded
 - Lakeside High School added to project

Learning from the hnmulshensh



Removing non-native fish



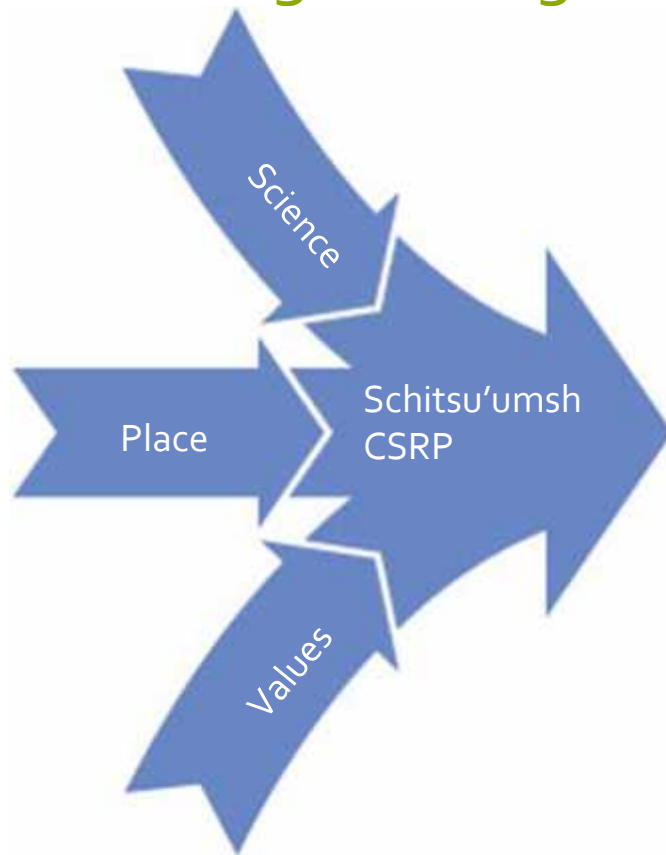
Understanding water quality measurements



Tribal Farm/Hangman Creek



Putting it all together



- Critical **Culturally Sustaining/Revitalizing Pedagogy** (McCarty and Lee 20144)
- Education for Native American students is not only about language, ethnicity, etc.; but also sovereignty
- CSRP “reclaims and revitalizes what has been disrupted and displaced”
- Increasingly seeing Tribally-driven watershed education as a means for cultural restoration

Core Values

- Relationship
- Respect
- Responsibility
- Reciprocity



- T'u'Ischint
- K'wne' ch'at'qhn'wesh
khwe te'l hnpu'snet
- Smiypngwiln



The Canoe Project



March 23, 2016

Spokane River Forum

Schitsu'umsh Calendar

Schitsu'umsh Moons & Seasons

JAN	si'at'ak'aw (winter)
FEB	si'at'ak'aw
MAR	setq'aps (spring)
APR	setq'aps
MAY	setq'aps
JUN	ya'als'to (summer)
JUL	ya'als'to
AUG	ya'als'to
SEP	ya'als'to
OCT	ya'als'to
NOV	ya'als'to
DEC	ya'als'to

Schitsu'umsh/English

Vocabulary

si'at'ak'aw	Winter
setq'aps	Spring
ya'als'to	Summer
schedp	Fall
si'at'ak'aw	January
setq'aps	February
ya'als'to	March
ya'als'to	April
ya'als'to	May
ya'als'to	June
ya'als'to	July
ya'als'to	August
ya'als'to	September
ya'als'to	October
ya'als'to	November
ya'als'to	December

Activities

- si'at'ak'aw: ...
- setq'aps: ...
- ya'als'to: ...
- schedp: ...

Learnings

- Let the watershed be your classroom
- The 4s: Relationship, Reciprocity, Respect, Responsibility
- Stop compartmentalizing knowledge; make room for emotional, spiritual, physical knowledge to accompany intellectual goals.
- What makes your heart sing?



Questions?

- **Thank you** to Dr. Anne Kern, Dr. Aaron Thomas, Dr. Ed Galindo, Dr. Jan Boll, Dr. Brant Miller, Dr. Yolanda Bisbee, Jim Ekins and many other wonderful UI partners for the many opportunities for learning!
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Photo Credit: Glen Pettit