

HYBRID MEETING NOTICE

Truckee Meadows Stormwater Permit Coordinating Committee

DATE: July 27, 2023
TIME: 9:15 A.M.
PLACE: CITY OF RENO, CITY HALL
6TH FLOOR CONFERENCE ROOM
1 EAST FIRST STREET
RENO, NEVADA 89501
(There is parking available in Parking Garage
above the First Floor)

Members

James Pehrson, Chair
Theresa Jones
Alex Mayorga
Robert Wimer
Ashley Elson
Cody McDougall

Public Notice

This agenda has been physically posted in compliance with NRS 241.020(3)(notice of meetings) at Reno City Hall – 1 East First Street, Washoe County Administration Building – 1001 East 9th Street and Sparks City Hall – 431 Prater Way. In addition, this agenda has been electronically posted in compliance with NRS 241.020(3) at <http://www.reno.gov>, and NRS 232.2175 at <https://notice.nv.gov/>. To obtain further documentation regarding posting, please contact Leslie Griffin at griffinl@reno.gov.

Members of the Committee may participate in this meeting using the zoom video conference platform.

Members of the public may participate in the meeting by registering through the below zoom link which will provide the meeting ID number and call-in phone number.

Virtual link: https://us06web.zoom.us/join/zoom/register/tZEufuuuqj4rHddZKC36E8o_aCkMfFpwLT6v
In Person: 1 East First Street, 6th Floor Conference Room

Accommodations

Reasonable efforts will be made to assist and accommodate individuals with disabilities attending the meeting. Please contact Leslie Griffin at (775)-657-4595 at least 48 hours in advance so that arrangements can be made.

Supporting Materials

Staff reports and supporting material for the meeting are available by contacting Leslie Griffin at (775)-657-4595 or griffinl@reno.gov and on the City's website at Reno.Gov. Pursuant to NRS 241.020(9), supporting material is made available to the general public at the same time it is provided to the public body.

Order of Business

The presiding officer shall determine the order of the agenda and all questions of parliamentary procedure at the meeting. Items on the agenda may be taken out of order. The public body may combine two or more agenda items for consideration; remove an item from the agenda; or delay discussion relating to an item on the agenda at any time. See, NRS 241.020(2)(c)(6). Items scheduled to be heard at a specific time will be heard no earlier than the stated time, but may be heard later.

In Person Public Comment

Public comment, whether on items listed on the agenda or general public comment, is limited to three (3) minutes per person. Unused time may not be reserved by the speaker, nor allocated to another speaker. No action may be taken

on a matter raised under general public comment until the matter is included on an agenda as an item on which action may be taken.

Virtual Public Comment

No action may be taken on a matter raised under general public comment until the matter is included on a subsequent agenda as an action item.

Pursuant to NRS 241.023, those wishing to submit public comment may do so by contacting Theresa Jones by sending an email to jonest@reno.gov or by leaving a voicemail at (775)-657-4595, or at the meeting during virtual public comment. Public comment is limited to three (3) minutes per person. Comments received prior to 4:00 p.m. on the day preceding the meeting will be transcribed, provided to the Board/Commission/Committee for review, and entered into the record. Comments received after 4:00 pm on the day preceding the meeting will be provided to the Board/Commission/Committee for review prior to adjournment, and entered into the record.

A. Introductory Items

A.1 Call To Order/Roll Call

A.2 Public Comment – This item is for either public comment on any action item or for any general public comment and is limited to no more than three (3) minutes for each commentator.

A.3 Approval Of The Agenda (For Possible Action) – July 27, 2023

A.4 Approval Of The Minutes (For Possible Action) – June 22, 2023

B. Business Items

B.1 Review and possible approval for payment of below invoices. The City will pay the invoices and seek 75% reimbursement from the Water Management Fund from the Western Regional Water Commission and 25% reimbursement from the Nevada Department of Transportation per the Interlocal Agreements. (For Possible Action)

(i) Balance Hydrologics Invoice # 213136-0623, dated July 4, 2023, in the amount of \$11,135.05 related to Stormwater Monitoring for FY22/23.

B.2 Review and possible approval for payment of below invoices and receipt. The City will seek reimbursement from the Water Management Fund from the Western Regional Water Commission per the Interlocal Agreement. (For Possible Action)

(i) Siteground, for FY23/24, in the amount of \$239.76, related to FY23/24 webhosting TMstormwater.com.

(ii) The Factory, in the amount of \$5,062.50, related to website changes to TMstormwater.com.

(iii) Atkins North America Inc., Invoice #1998207 in the amount of \$10,000, related to development of an educational Interactive Watershed Map.

B.3 Review, discussion and possible approval of proposed website changes to TMstormwater.com (For Possible Action)

B.4 Review, discussion and possible approval of the SWPCC FY23/24 Roadmap. (For Possible Action)

B.5 Review and discussion of tributary reaches to be included in FY23/24 watershed assessment to be conducted by NCE. (For Possible Action)

B.6 Review end of year FY22/23 SWPCC annual budget.

C. Standing Agenda Items (Not For Action)

C.1 Stormwater Management Program activities including but not limited to Construction, Industrial, Monitoring, Public Outreach, Maintenance, IDDE, and Post Construction elements in support of the Truckee Meadows Storm Water Program.

(i) Prepare to provide Annual Report data in August.

C.2 Update on Nevada Division of Environmental Protection's activities regarding federal, state, and local matters.

C.3 Update on Nevada Department of Transportation activities regarding MS4 activities.

C.4 Updates on grants and funding opportunities and projects, public presentations, volunteer opportunities and events, trainings, workshops, and conferences.

D. Discussion and possible direction on setting the next regular meeting for August 24, 2023 at 9:15 a.m. (For Possible Action).

E. Public Comment - This is for general public comment limited to items that do not appear on the agenda and is limited to no more than three (3) minutes for each commentator.

F. Adjournment (For Possible Action)

MEETING MINUTES
TRUCKEE MEADOWS STORMWATER PERMIT
COORDINATING COMMITTEE

Thursday, June 22, 2023

The regular meeting of the Truckee Meadows Stormwater Permit Coordinating Committee (SWPCC) was held virtually and in person in the City Hall 6th Floor Conference Room at 1 East First Street, Reno, Nevada, and conducted the following business:

A. Introductory Items

A.1 Call to Order/Roll Call

The meeting was called to order by Chair Mayorga at 9:15 a.m. and a quorum was present.

Members Present: Alex Mayorga, Chair; Theresa Jones, SWPCC Coordinator; James Pehrson; Robert Wimer

Members Absent: Ashley Elson; Cody McDougall

Staff and Guests Present: Susan Ball Rothe, Legal Counsel; David Lake, City of Reno; Mitch Cowles, Nevada Division of Environmental Protection (NDEP); Tara Aufiero, City of Reno

A.2 Public Comment

None

A.3 Approval of Agenda (For Possible Action) – June 22, 2023

CHAIR MAYORGA MADE A MOTION TO APPROVE THE AGENDA, SECONDED BY MEMBER PEHRSON. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

A.4 Approval of the Minutes (For Possible Action) - May 25, 2023

MEMBER WIMER MADE A MOTION TO APPROVE THE MINUTES, SECONDED BY CHAIR MAYORGA. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

B. Business Items

B.1 Review and possible approval for payment of below invoice(s). The City will pay the invoice(s) and seek 75% reimbursement from the Water Management Fund from the Western Regional Water Commission (WRWC) and 25% reimbursement from the Nevada Department of Transportation per the Interlocal Agreements. (For Possible Action)

- (i) Balance Hydrologics Invoice #213136-0523, dated June 13, 2023, in the amount of \$4,769.94 related to Stormwater Monitoring for FY22/23

MEMBER PEHRON MADE A MOTION TO APPROVE THE INVOICE, SECONDED BY MEMBER WIMER. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

B.2 Nomination and election of chair for next fiscal year, to commence at the July 2023 SWPCC meeting. (For Possible Action)

COORDINATOR JONES MADE A MOTION TO ELECT MEMBER PEHRSON AS CHAIR, SECONDED BY CHAIR MAYORGA. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

C. Standing Agenda Items (Not For Action)

C.1 Stormwater Management Program activities including but not limited to Construction, Industrial, Monitoring, Public Outreach, Maintenance, IDDE, and Post Construction elements in support of the Truckee Meadows Stormwater Program.

- (i) Prepare to provide Annual Report data in July/August

Coordinator Jones reported that Daniel Moss will start reaching out to SWPCC members around the end of July to begin gathering data for the Annual Report. She discussed the need to get the data submitted as soon as possible so the report can be written and submitted before the deadline. She expects the new MS4 Permit will change the due date for the Annual Report from January 15 to October 15.

C.2 Update on Nevada Division of Environmental Protection's (NDEP) activities regarding federal, state, and local matters.

Mitch Cowles, NDEP, reported they have hired Marlia Stout as a new stormwater inspector and she is currently being trained. They have a meeting coming up with some inspectors from the City of Reno and the City of Sparks to go over dewatering activities in the permit. They are finalizing their response to comments on the Las Vegas Valley Permit for the Environmental Protection Agency (EPA).

C.3 Update on Nevada Department of Transportation (NDOT) activities regarding MS4 activities.

None

C.4 Updates on grants and funding opportunities and projects, public presentations, volunteer opportunities and events, trainings, workshops, and conferences.

- (i) Reno-Sparks Water Palooza, June 9, 2023

Coordinator Jones reported that around 135 students attended and it was a great success.

- (ii) Great Basin Outdoor School classes, June 2023

Coordinator Jones reported that Daniel Moss gave several hours of presentations to Great Basin Outdoor School.

Both of these outreach events will be occurring next year as well.

D. Discussion and possible direction on setting the next regular meeting for July 27, 2023 at 9:15 a.m. (For Possible Action)

MEMBER MAYORGA MADE A MOTION TO APPROVE, SECONDED BY COORDINATOR JONES. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

E. Public Comment

None

F. Adjournment (For Possible Action)

MEMBER MAYORGA MADE A MOTION TO ADJOURN AT 9:25 AM, SECONDED BY MEMBER WIMER. THE MOTION CARRIED UNANIMOUSLY WITH FOUR (4) MEMBERS PRESENT.

Respectfully submitted by,
Christine Birmingham, Recording Secretary



**Balance
Hydrologics, Inc.®**

Theresa Jones

800 Bancroft Way • Suite 101 • Berkeley, CA 94710 • (510) 704-1000
www.balancehydro.com • email: office@balancehydro.com

Invoice

Theresa Jones
City of Reno
1 East First Street
7th Floor
Reno, NV 89501

Terms: Due Upon Receipt

<u>Invoice #</u>	<u>Date</u>	<u>Amount Due</u>
213136-0623	07/04/23	\$ 11,135.05

Project Manager: Brian K. Hastings
Project Number: 213136:Ph9
Job Description: City of Reno Stormwater
Billing Through: 06/30/23
Contract/PO#:

SUMMARY OF CHARGES

	Amount
02 Stormwater Sampling	\$273.75
04 Streamflow gaging (5 gages)	\$9,727.50
05 Committee Meetings and Presentations	\$97.50
06 Project Management and Correspondence	\$162.50
Contingency	\$675.00
Expenses	\$198.80
Amount Due This Invoice:	\$11,135.05

Task 2

- 1) storm monitoring

Task 4

- 1) Round of gaging observations, measurements, downloads
- 2) decommission Alum Ck gage
- 3) Install new gage on NTD
- 4) Follow up download and set-up new gage
- 5) data management

Task 5

- 1) emails with city on meeting agenda and update

Task 6

- 1) correspondence with City of Reno
- 2) project management activities

Expenses: AT&T; miles; materials

PLEASE REMIT TO THE BERKELEY ADDRESS ABOVE

Questions regarding progress of work may be directed to the Project Manager (name above). Questions regarding billing, payment and certificates of insurance should be directed to Rachel Boitano @ (510) 704-1000 x245.



Invoice

Theresa Jones
City of Reno
 1 East First Street
 7th Floor
 Reno, NV 89501

Invoice #	Date	Amount Due
213136-0623	07/04/23	\$ 11,135.05

Project Manager: Brian K. Hastings
Project Number: 213136:Ph9
Job Description: City of Reno Stormwater
Billing Through: 06/30/23
Contract/PO#:

Terms: Due Upon Receipt

BREAKDOWN OF TIME CHARGES	Rate	Hours	Amount
02 Stormwater Sampling			
Senior Professional	\$195.00	0.25	\$48.75
Staff Professional	\$150.00	1.50	<u>\$225.00</u>
			\$273.75
04 Streamflow gaging (5 gages)			
Senior Professional	\$195.00	17.00	\$3,315.00
Staff Professional	\$150.00	42.75	<u>\$6,412.50</u>
			\$9,727.50
05 Committee Meetings and Presentations			
Senior Professional	\$195.00	0.50	<u>\$97.50</u>
			\$97.50
06 Project Management and Correspondence			
Senior Project Administrator	\$130.00	1.25	<u>\$162.50</u>
			\$162.50
Contingency			
Staff Professional	\$150.00	4.50	<u>\$675.00</u>
			\$675.00
Total Time Charges:			\$10,936.25

BREAKDOWN OF EXPENSES	Quantity	Rate	Amount
Field Phone	1.00	\$13.76	\$13.76
Field Supplies	2.00	\$15.12	\$30.24
Mileage Reimbursement - Truck	215.00	\$0.720	\$154.80
Total Expenses:			\$198.80

PLEASE REMIT TO THE BERKELEY ADDRESS ABOVE

Questions regarding progress of work may be directed to the Project Manager (name above). Questions regarding billing, payment and certificates of insurance should be directed to Rachel Boitano @ (510) 704-1000 x245.

Truckee Meadows Stormwater Monitoring
 City of Reno
 Balance Project # 213136 PH9
 FINAL INVOICE UNDER THIS CONTRACT
Tasks & Allocation of Budget

Task	\$ Allocated	Previous	Invoice	Total Expended		Budget	
		Expenditures	(#213136-0623)	\$ amt	\$ amt	% Budget	Remaining
		\$ amt	\$ amt	\$ amt		\$ amt	%
01 Data Analysis and Annual Report (FY2022)	\$44,895	\$48,298.25		\$48,298.25	108%	-\$3,403.25	-8%
02 Stormwater Sampling (ouffalls and tributaries)	\$48,650	\$44,325.25	\$273.75	\$44,599.00	92%	\$4,051.00	8%
03 Tributary Ambient Sampling (2x)	\$10,800	\$14,732.50		\$14,732.50	136%	-\$3,932.50	-36%
04 Streamflow Gaging (5 gages)	\$29,608	\$19,687.50	\$9,727.50	\$29,415.00	99%	\$192.50	1%
05 Committee Meetings and Presentations	\$11,610	\$4,233.75	\$97.50	\$4,331.25	37%	\$7,278.75	63%
06 Project Management and Correspondence	\$6,940	\$10,242.50	\$162.50	\$10,405.00	150%	-\$3,465.00	-50%
Total Labor	\$152,502.50	\$141,519.75	\$10,261.25	\$151,781.00	100%	\$721.50	0%
Direct Costs	\$3,936.00	\$3,181.93	\$198.80	\$3,380.73	86%	\$555.27	14%
Analytical Costs	\$23,550.00	\$27,367.94		\$27,367.94	116%	-\$3,817.94	-16%
Contingency	\$11,798.00	\$5,992.50	\$675.00	\$6,667.50	57%	\$5,130.50	43%
		\$178,062.12	\$11,135.05	\$189,197.17	99%		

Total Allocated (including contingency)	\$191,786.50					
Total Expended (including current invoice)				\$189,197.17		
Total remaining					\$2,589.33	

213136



How doers
get more done.

RENO, NV 89523 (775)787-9690
STORE MANAGER JEB MURDOCK

3311 00051 11398 06/14/23 08:20 AM
SALE SELF CHECKOUT

030699725250 CORD <A>	5.23
PARACORD 1/8"X50 MULTI CLR POLY PRO	
070257632125 AIM-N-FLAME <A>	4.97
SCRIPTO AIM N FLAME II LIGHTER	
037103333254 8.5 IN. ALL- <A>	9.97
CRESCENT 8 1/2 IN. ALL-PURPOSE SHEAR	

SUBTOTAL	20.17
SALES TAX	1.67
TOTAL	\$21.84

XXXXXXXXXXXX2977 VISA USD\$ 21.84 TA
 AUTH CODE 03457D/7513917
 Chip Read
 AID A0000000031010 CAPITAL ONE VISA

3311 06/14/23 08:20 AM



3311 51 11398 06/14/2023 6148

RETURN POLICY DEFINITIONS		
POLICY ID	DAYS	POLICY EXPIRES ON
A 1	90	09/12/2023

DID WE NAIL IT?

Take a short survey for a chance TO WIN
A \$5,000 HOME DEPOT GIFT CARD

Opine en español

www.homedepot.com/survey

User ID: H89 26396 23136
PASSWORD: 23314 23085

Entries must be completed within 14 days
of purchase. Entrants must be 18 or
older to enter. See complete rules on
website. No purchase necessary.

213136



How doers
get more done..

RENO, NV 89523 (775)787-9690
STORE MANAGER JEB MURDOCK

3311 00051 11356 06/14/23 08:09 AM
SALE SELF CHECKOUT

049081136888 2 PVC CAP <A>	
2" PVC CAP SLIP	
202.61	5.22

SUBTOTAL	5.22
SALES TAX	0.43
TOTAL	\$5.65

XXXXXXXXXXXX2977 VISA USD\$ 5.65 TA

AUTH CODE 08431D/7513913
 Chip Read
 AID A0000000031010 CAPITAL ONE VISA

3311 06/14/23 08:09 AM



3311 51 11356 06/14/2023 6148

RETURN POLICY DEFINITIONS		
POLICY ID	DAYS	POLICY EXPIRES ON
A 1	90	09/12/2023

DID WE NAIL IT?

Take a short survey for a chance TO WIN
A \$5,000 HOME DEPOT GIFT CARD

Opine en español

www.homedepot.com/survey

User ID: H89 26312 23052
PASSWORD: 23314 23001

Entries must be completed within 14 days
of purchase. Entrants must be 18 or
older to enter. See complete rules on
website. No purchase necessary.



Page: 2 of 13
Issue Date: Jun 12, 2023
Account Number: 995679142
Foundation Account: 02637349
Invoice: 995679142X06202023

Service activity

Wireless

Number	User	Page	Activity since last bill	Monthly charges		Company fees & surcharges	Government fees & taxes	Total
				Plan	Add-ons			
510.387.2921	213136 RENO	8	\$3.00	\$5.00	\$3.00	\$1.51	-	\$12.51

Wireless continues...



Daniel Moss <mossd@reno.gov>

30 days left until service expiration

2 messages

SiteGround <noreply@siteground.com>

Sat, Jul 1, 2023 at 11:40 AM

To: mossd@reno.gov



Approved for payment upon approval by SWPCC on 07/27/23

Daniel Moss

Dear Daniel Moss,

The following service(s) are expiring soon. **We will attempt to renew them automatically on Jul 16, 2023.**

Service	Expires	Cycle	Price
1 Year StartUp Hosting - StartUp Plan	Jul 31, 2023	12 months	179.88 USD
12 Months SG Site Scanner - tmstormwater.com	Jul 31, 2023	12 months	59.88 USD
TOTAL:			239.76 USD

Renew for a longer period and get a big discount!

We provide generous discounts on renewal prices when a longer renewal period is chosen. You may check the renewal prices for all periods in your Client Area.

[GO TO RENEWALS](#)

Need Help?

If you need any help, you are welcome to come to our live chat. If you are considering cancelling the service(s), you can do it from your SiteGround account.

Best Regards,
The SiteGround Team

SG Hosting Inc. [700 N. Fairfax St, Suite 614, Alexandria 22314 VA, USA](#)

Daniel Moss <mossd@reno.gov>
To: Leslie Griffin <griffinl@reno.gov>

Wed, Jul 5, 2023 at 10:52 AM

This will be billed on July 16, fyi.

Approved for payment upon approval by SWPCC on 07/27/23

Daniel Moss



The Factory

655 S. Virginia St.

Reno, NV 89501

brian@thefactoryreno.com

INVOICE

BILL TO

The City of Reno

Attn: Daniel Moss

INVOICE # 10177

DATE 07/01/2023

DUE DATE 07/31/2023

TERMS Net 30

ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
Web Design	TM Stormwater Program Website Re-Design Work for FY 2023	33.75	150.00	5,062.50

BALANCE DUE

\$5,062.50

Website Development

Informational Website 10-15 pages

WEBSITE REBUILD

33.75 total hours
of design & development
(Website development done at our \$150/hr rate)

TOTAL COST: \$5062.50

SCOPE OF WORK

— Project Details

- Completely re-designed and re-built existing website using Elementor Visual page builder. 11 total pages
- The website was coded to be responsive for desktop, tablet and mobile
- We created new additional pages and completed all changes outlined in the 12 page word document sent over on January 23rd
- We pulled all necessary download documents from existing website, uploaded and connected them within the new website
- Every effort has been made to achieve ADA compliance with a focus on, but not limited to, color contrast in text, image alt tags and form compliance
- Initial SEO will be completed before launch. We will add all page titles and descriptions and alt tags on every image that makes up the website
- After launch we will create instructional videos for Daniel after completion on how to perform typical tasks and how to use the Elementor page builder
- Once approval is given we will archive the old site and move the new one live

ATKINS

Member of the SNC-Lavalin Group

City of Reno
Attn:
P.O. Box 1900
1 E. First Street, Reno, NV 89501
Reno, NV 89505-1900

Invoice Date: July 17, 2023
Project #: 100085461
Invoice #: 1998207

Project Description: Reno Watershed Storymap
Invoice Comments:
Invoicing Period: to June 30, 2023

Basic Services	Current
Lump Sum	10,000.00

Total Invoice	10,000.00
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Total Due this Invoice	<u>USD 10,000.00</u>
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Contract Amount:	10,000.00
Previous Billed:	0.00
Billed to Date	10,000.00
Contract Balance:	0.00

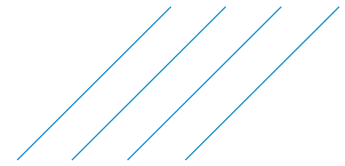
Remit to:
Atkins North America, Inc
PO Box 409357
Atlanta, GA 30384-9357
Tax ID: 59-0896138

Wire Payments: Routing No. 026009593, Acct No 4451286495
ACH EFT Payments: Routing 111000012, Acct No 4451286495

City of Reno
Reno Watershed Storymap461

Project Number 100085461
Invoice Number 1998207
Date 17-JUL-23

	Contract Fee	Percent Complete	Total Earned	Previous Earned	Current Billing
Basic Fee	10,000.00	100	10,000.00	0.00	10,000.00
TOTAL NOW DUE					10,000.00



Progress Report

To: Daniel Moss, P.E., City of Reno

From:	Marc Cavallaro, Atkins	Atkins Project Number:	100085461
Date:	20 July 2023		
Project:	Watershed Story Map		

Subject: Progress Report (through June 30, 2023)

The following is a final summary of the work completed through the end of June 2023. This project is 100% complete for the scoped items.

Task 1 Story Map Framework

- Story Map configuration completed on the City's GIS Portal
 - Layout and theme developed
 - Text and image content and navigation implemented

Task 2 Point of Interest GIS Layer

- Points of interest layer created and populated

Task 3 Web Map Creation

- Web map and map application created and configured containing all pertinent map layers including:
 - Rivers, streams, canals
 - Watersheds
 - Points of Interest
- Watershed descriptions and information, Photos, videos incorporated, and popups configured within web map.

Task 4 Story Map Site Draft and Final Deployment

- Draft Story Map sited deployed for review
- Received comments and implemented changes
- Deployed Final Story Map

Summary Document: Proposed Edits to TMstormwater.com

Updated by: Daniel Moss, 2/17/23

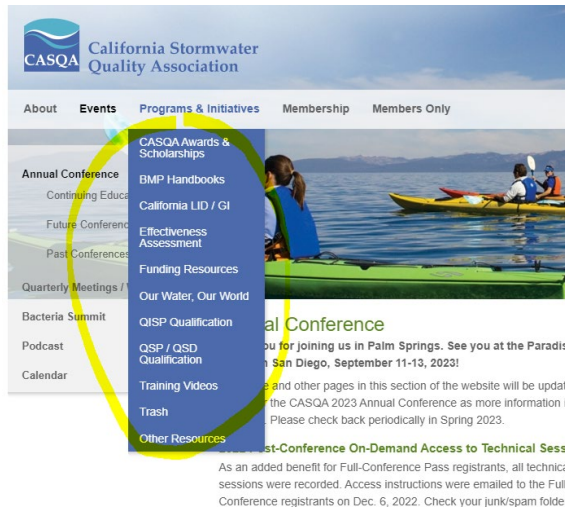
Prepared for: TheFactoryReno.com

Contents

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Top Navigation Bar Modifications:

- Insert a search bar feature to the right of the tabs section
- Replace clickable link on the logo itself with a new Tab called "Home Page"
- If possible, make each tab title highlighted when on that page. Also, create dropdown list when hovering over tab. For example, see below website:



- Generally, can we add a website Counter (visit totals)? Or is it automatic?

Bottom Navigation Links Modifications:

- Change phone number to: 775-334-4230

Construction:

- Remove "Construction Requirements"
- Make link for "Construction"
- Link "How to Comply" to a page jump anchor on Permits subsection
- Link "BMP Resources" to a page jump anchor on BMP Resources subsection

Industrial:

- Remove "Industrial Requirements"
- Link "How to Comply" to a page jump anchor on Permits subsection
- Link "BMP Resources" to a page jump anchor on BMP Resources subsection

Residential:

-Link "At home BMPs list" to the Residential page

-link "Volunteer" to a page jump anchor on the Get Involved page

Report:

-link both links to page jump anchors on the Report page

-add new link: "Permissible Discharges" with anchor

-add new link: "Prohibited Discharges" with anchor

Get Involved to Learn More:

-add appropriate links to page jump anchors

- In general, add all NEW page links

Home Page (NEW):

- Learn More section:
 - o Add additional sentence to the end of the description, next line down: “How can I get involved and volunteer?”
 - o Change the “Get Involved” link to an anchor at the volunteer opportunities section of that page
- Move sections “Upcoming Events” above the fillable email form on “Get Involved” page
- Move the fillable email form to a new “Contact Us” page, and keep description: “Have a question or comment for the program? Send us an email or attend a meeting. / Phone: 775-334-2350”
- Change initial banner photo order: Swap Lake Tahoe sunset photo with Goose photo
 - o Find a photo with human involvement with Truckee River (CASQA kayak photo, water play, etc.)

About SWPCC Page:

- Rename from “About & Publications” to “About SWPCC”. Create new Page called “Publications & Manuals”
- Add Title section (over the banner photo):

“TM SWPCC”

“stands for the Truckee Meadows Stormwater Permit Coordinating Committee, organized to protect our watershed from urban runoff pollution.”

- Add links to websites for [Reno](#), [Sparks](#), and [Washoe County](#) within the descriptive paragraph
- Create Separate section for “THE PROGRAM INCLUDES THE FOLLOWING REQUIRED PROGRAM ELEMENTS:”
- Move “SWPCC Governing Documents & Annual Reports” section to new page “Publications & Manuals”, and Split into 3 Subsections, moving appropriate links within each:
 - o SWPCC Governing Documents & Annual Reports
 - MS4_AnnualReport_Graphic.JPG
 - o Watershed Assessment Reports
 - Photo: WatershedAssessment_Graphic.JPG
 - o Low Impact Development (LID) and Best Management Practice (BMP) Resources
 - Photo: LID_Manual_Graphic.JPG
 - Relink the docs from the Construction Page and Industrial Page.
- Move “Permissible Discharges” and “Prohibited Discharges” from “About” page to bottom of “Report” page. Read about further edits in that section.
-
- Create new section called “Watershed Projects”
 - o Add subsection (2 columns): Chalk Creek Subwatershed
 - o Photo: ChalkCreekErosion.JPG
 - o “Increased runoff from urbanization has increased the hydromodification rate and led to severe erosion at some sites along Chalk Creek. In the [2020 Watershed Plan for Tributaries to the Truckee River](#), Chalk Creek was listed as a high priority for implementation, and in 2020,

the NDEP 319(h) Grant was utilized to kick start the *Chalk Creek Stabilization and Erosion Control at Sapphire Ridge Project*. Please check back for project progress and a future construction schedule.”

- Add subsection (2 columns): McKinley Arts & Cultural Center Demonstration LID Project
- Photo: McKinleyRainGarden_Drawing.png
- Description:

“The City of Reno completed a significant Low Impact Development (LID) project at the McKinley Arts & Cultural Center, breaking ground in 2009. This project includes rain gutters to capture rainfall from the large rooftop, and constructing "softscapes," including a rain garden (depressed landscape area), and a pervious concrete parking lot, which receive and infiltrates rainwater from the western rooftop.

Stormwater that runs off urban rooftops, parking lots, driveways and other "hardscapes" can carry lawn chemicals, oil drips from cars, sediment, trash, other harmful chemicals to organisms in the river. Since urban stormwater travels quickly into the stormdrain system, and is routed straight to the Truckee River, local LID projects created a bio-friendly approach to stormwater management, replacing hardscapes with softscapes. Softscapes infiltrates and treats stormwater naturally, preventing "urban slobber" pollution from entering the River. Two 2010 YouTube videos capture the project well; [learn about the parking lot](#) or [learn about the rain garden](#).

To learn more about pervious concrete and many other LID technologies, view the [Low Impact Design Manual](#), and download the [LID Design Guidance Worksheets](#).”

- Graphic: LID Walking Tour Brochure.pdf

Publications & Manuals Page (NEW):

- Create new banner photo of watershed:
 - o Choose a stock photo from your library, make it “relevant”

Construction Page:

- Change banner description to:
- **“Construction Stormwater Runoff Carries Pollutants**
...into our storm drain system and watershed, discharging directly to the Truckee River. By implementing erosion control Best Management Practices, contractors can help protect our waterways.”
- Move Permits section below BMP Resources section. Create Anchor for page jump

Industrial Page:

- Change web address to: <https://tmstormwater.com/industrial/>
- Change photo for Site Landscaping subsection to Garden1_OneTruckeeRiver.jpg
- Move Permits section below BMP Resources section. Create Anchor for page jump
- Add new 2 column section at bottom titled “Permissible or Prohibited Discharge?”
 - o Column 1: Description “Learn the difference between Permissible and Prohibited Discharges to the Stormwater system.” Add page jump links to these two sections found on the “Report” page
 - o Column 2: Photo: “illicit discharge pollutant sources.png”

Residential Page:

- Change banner description to:
“How Can I Prevent Stormwater Pollution?
We can all reduce our impact on the Truckee River by adapting some simple guidelines at home and in our neighborhood.”
- Add new first row (above Pet Waste) with a **clickable** graphic of the yard with areas of potential pollutant contamination
 - o Use OTR’s infographic (still TBD), or Infographic_Stormwater Flow_September 2022.jpg
 - o Create clickable zones on each tip/trick that jumps to subsection within webpage
- Add new 2-column section titled “Permissible or Prohibited Discharge?” below “Car Maintenance”
 - o Column 1: Description “Learn the difference between Permissible and Prohibited Discharges to the Stormwater system.” Add page jump links to these two sections found on the “Report” page
 - o Column 2: Photo: “illicit discharge pollutant sources.png”
- Augment the [“Prevent Local Stormwater Pollution” Pamphlet](#) row by adding a small photo of the Pamphlet cover, clickable to open pdf
- Change “Learn More” and “Get Involved” links per edits on Home page

Learn More Page:

- Change page name “Get Involved to Learn More” to “Learn More” only
- Add Title section (over the banner photo):

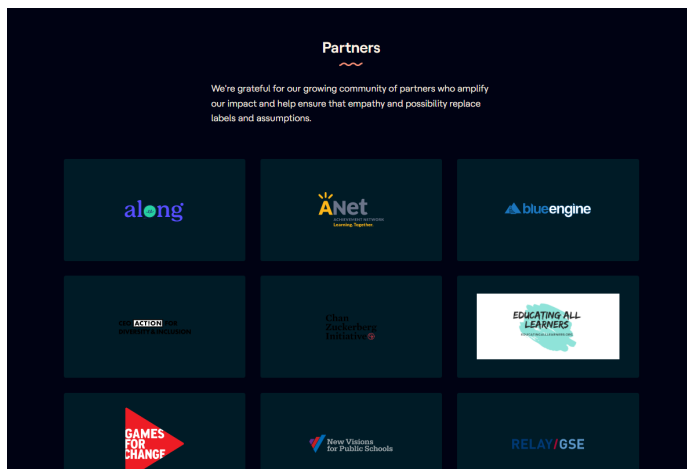
“Learn about Stormwater and Watersheds”

“Learn more from these educational videos and our information library.”

- Change section from “Stormwater Academy Section” to “Watch and Learn”:
 - o Add description: “Check out these videos produced by SWPCC, City of Reno, and the Carson Water Subconservancy District to learn all about stormwater and watershed protection.”
 - o Change first video to “Stormwater Academy (Construction & Public Works)”
 - o Change description to: “An important part of the SWPCC is to train Public Works maintenance staff and the construction industry on incorporating Best Management Practices (BMPs) and prevent pollutants from reaching the Storm Drain System. Check out this Stormwater Academy video to learn more!”
 - o Add new video: “Truckee River Water Quality: Illicit Discharge Detection and Elimination”
 - “Learn about how our region’s Environmental Control Officers help protect the Truckee River from illegal pollution.”
 - <https://www.youtube.com/watch?v=zMWcFfnh2jE>
 - o Add new video: “Re-Know Minute: Stormwater”
 - “City of Reno Stormwater Utility: Maintaining and improving stormwater and flood management infrastructure is critical for the City of Reno and surrounding region. Watch this video to learn more.”
 - <https://www.youtube.com/watch?v=zMWcFfnh2jE>
 - o Carson River Watershed – Watershed Education Video Library
 - “The Carson River Watershed is the Truckee River Watershed’s neighbor to the south. Check out Carson Water Subconservancy District’s (CWSD) [Youtube channel](#) for an extensive library of videos covering watershed science, pollution prevention, floodplain management, climate change, and much more.”
 - <https://www.youtube.com/watch?v=a4PKUPxuYug>
- Modify the links in the following section:
 - o **Remove** “TRUCKEE RIVER MAP TOOL”
(PENDING – this will be added back in when something has replaced it)
 - o WATER QUALITY
 - o GEOCACHING AROUND THE WATERSHED!
 - Add to overall public Geocaching map
 - o TRUCKEE RIVER WATERSHED MAP
 - Link to “Watershed Map Server” is gone so replace with link to:
 - <https://www.watereducation.org/maps-posters/truckee-river-basin-map>
 - o Add new link at end of section: CITY OF RENO STORMWATER UTILITY
 - <https://www.reno.gov/government/departments/public-works/stormwater-utility>
- Section Title: “Learn more at **one** of our affiliated organizations:”
- In addition to updating web links section per below, add a grid of clickable logos as well

- [Nevada Division of Environmental Protection](#)
- [Nevada Department of Transportation - Stormwater Program](#)
- [Western Regional Water Commission](#)
- [One Truckee River](#)
- [Carson-Truckee Water Conservancy District](#)
- [Carson Water Subconservancy District](#)
- [Truckee Meadows Water Authority](#)
- [UNR Extension](#)
- [Truckee River Information Gateway](#)
- [Truckee River Regional Planning Agency](#)

Grid Similar to:



Get Involved Page (NEW):

- Add Title section (over the banner photo):

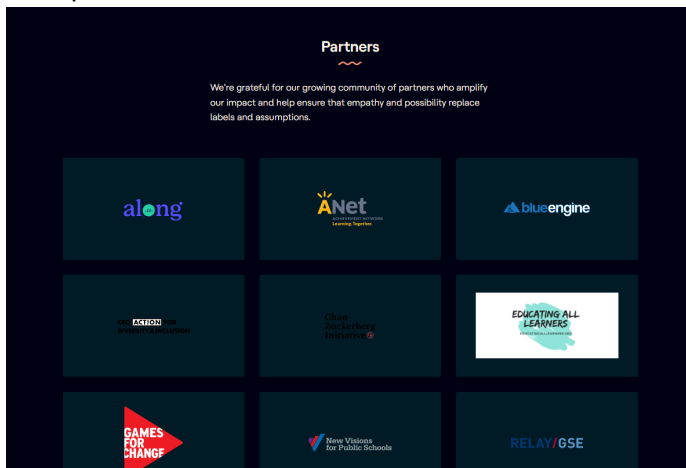
“Learn More and Get Involved”

“Learn more from these educational videos and our information library.”

“Looking for Volunteer Opportunities or other activities related to the Truckee River Watershed? Check out these local organizations for opportunities!”

- Add a grid of clickable logos above the these web links:

Example:



- [Keep Truckee Meadows Beautiful](#)
- [Truckee Meadows Parks Foundation](#)
- [City of Reno Parks and Recreation](#)
- [Washoe County Regional Parks and Open Space](#)
- [Sparks Parks and Recreation](#)
- [Sierra Nevada Journeys Camp](#)
- [Great Basin Outdoor School](#)
- [Tahoe Truckee Snapshot Day](#)
- [Tahoe Pyramid Trail](#)
- [Truckee River Day](#)

Report Issues Page:

- Change page name from “Report” to “Report Issues & Contact Us”
- Add Title section (over the banner photo):

“Report Stormwater Issues”

“We can all help protect our watershed through recognizing and reporting suspicious activity or general stormwater concerns.”

- Illicit Discharges section:
 - o Narrow Table and section to ½ page width
 - o Insert photo to the right: ReportIllegalDumping.png
 - o Change final sentence from “Learn to recognize potential [illegal/illicit discharges](#) into the storm drain system.” to “Read about Permissible and Prohibited Discharges below to learn to recognize potential illegal/illicit discharges into the storm drain system.”
 - o Add website links to table:
 - “[RenoDirect](#), (also, Reno [Environmental Control](#))”
 - [City of Sparks, Environmental Control](#)
 - [Nevada Department of Environmental Protection](#)
 - [Washoe311](#)
- In Clogged Catch Basins section
 - o Narrow Table and section to ½ page width
 - o Insert photo to the right: CleaningCatchBasin.jpg
 - o Change description to “Report clogged catch basins, flooded streets, drainage channels, irrigation ditches, or other general Stormwater issues, contact the local jurisdiction in your area:
 - o Add website links to table:
 - o City of Reno:
 - “[RenoDirect](#), Maintenance & Operations”
 - Numbers: 775-334-INFO(4636) ; 775-334-2243
 - o City of Sparks:
 - [Report an Issue](#)
 - o Washoe County:
 - [Road Division](#)
 - o Nevada Department of Transportation (NDOT):
 - [NDOT](#)
 - 775-888-7000
 - info@dot.nv.gov
- Move “Permissible Discharges” and “Prohibited Discharges” from “About” page to bottom of “Report” page
- Make the following changes to these two subsections:

Change Permissible picture to:

“Residential_Stormdrain_clean_stormwater.jpg”

Add Prohibited picture:

-“illicit discharge pollutant sources.png”

- Insert the “Contact Us” section from home page

Events Calendar & Training Page (NEW):

- Insert calendar (Google?) with ALL the events included
 - o Color coordinate the event groups (ie public outreach events, BMP manual release publications dates, BMP trainings, SWPCC meetings, etc)
- *Side note: For SWPCC Meetings, consider adding a line within the link that explains that attendees must first check into security to access the meeting.*
<https://www.reno.gov/Home/Components/Calendar/Event/28549/530>
-
- Add a new section below the calendar:
- "Attend or Request a Stormwater Training"
"Learn in person or online by attending a free SWPCC training class on stormwater-related topics."
- We offer free trainings and seminars throughout the year, including:
 - o Construction BMPs, Permitting, and Inspections (for Contractors, or for Municipalities)
 - o How to Use the *Truckee Meadows Structural Controls Design and Low Impact Development Manual*
 - o Protecting and Enhancing the Truckee River Watershed
 - o Stormwater Management
- You can also request to book a training by contacting stormwater@reno.gov and mossd@reno.gov, or call 775-334-4230 (City of Reno Utility Services)

City of Reno to complete the following:

- Add Agendas to all the calendar items (clickable), for example:
-
- Training: *Construction BMPs, Permitting, and Inspections*
Photo: Stormwater_BMP_Presentation_Graphic.JPG
 - o Agenda:
 - NV General Construction Permit (NVR100000)
 - Stormwater Best Management Practices (BMPs)
 - Pre-Construction
 - Active Construction
 - Post-Construction
 - Stormwater Pollution Prevention Plans (SWPPP)
 - Inspection Communication Skills
 - NOI/NOT & Close-out Procedure
 - o Add training-related links (move from Construction Page to here)
- Training: *Truckee Meadows Structural Controls Design and Low Impact Development Manual*
Photo: LID_Manual_Graphic_2.JPG
 - o Agenda:
 - Organization of Manual
 - NPDES Regulations, Regional Policies and Procedures
 - Truckee Meadows Stormwater Quality Management
 - Principles of Low Impact Development (LID)
 - Source Controls

- Treatment Controls
 - Using the Design Guidance Worksheets
- Add training-related links (move from Construction Page to here)

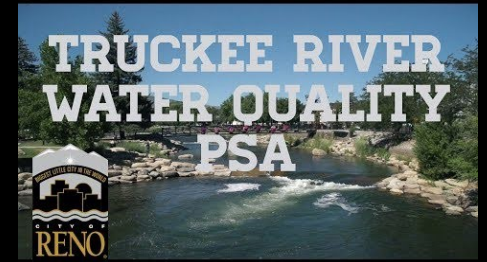
This message is brought to you by



**Truckee Meadows
Stormwater Permit
Coordinating Committee**
Reno · Sparks · Washoe County

TMStormwater.com Proposed Updates

SWPCC Meeting, February 2023



**Truckee Meadows
Stormwater Permit
Coordinating Committee**
Reno · Sparks · Washoe County

[About](#) [Publications & Manuals](#) [Preventing Stormwater Pollution](#) [Learn More](#) [Get Involved](#) [Calendar & Trainings](#) [Report Issues](#) [Contact Us](#)

Residential
Construction Sector
Industrial & Commercial Sector

Welcome to the MS4
Watch and Learn
Truckee River Watershed and Restoration
Affiliate Organizations

Keep Our Truckee River Clean!

Only Rain in the Stormdrain

Source: www.tmstormwater.com

Outline

- 1. Comprehensive Website Revisions
 - a. Update, expand, relocate content
 - b. Improve navigation
 - c. Enhance aesthetics and photos
 - d. Fix existing link issues
- 2. Proposed Designer: TheFactoryReno.com
- 3. Budget
- 4. Questions

Summary Document: Proposed Edits to TMstormwater.com

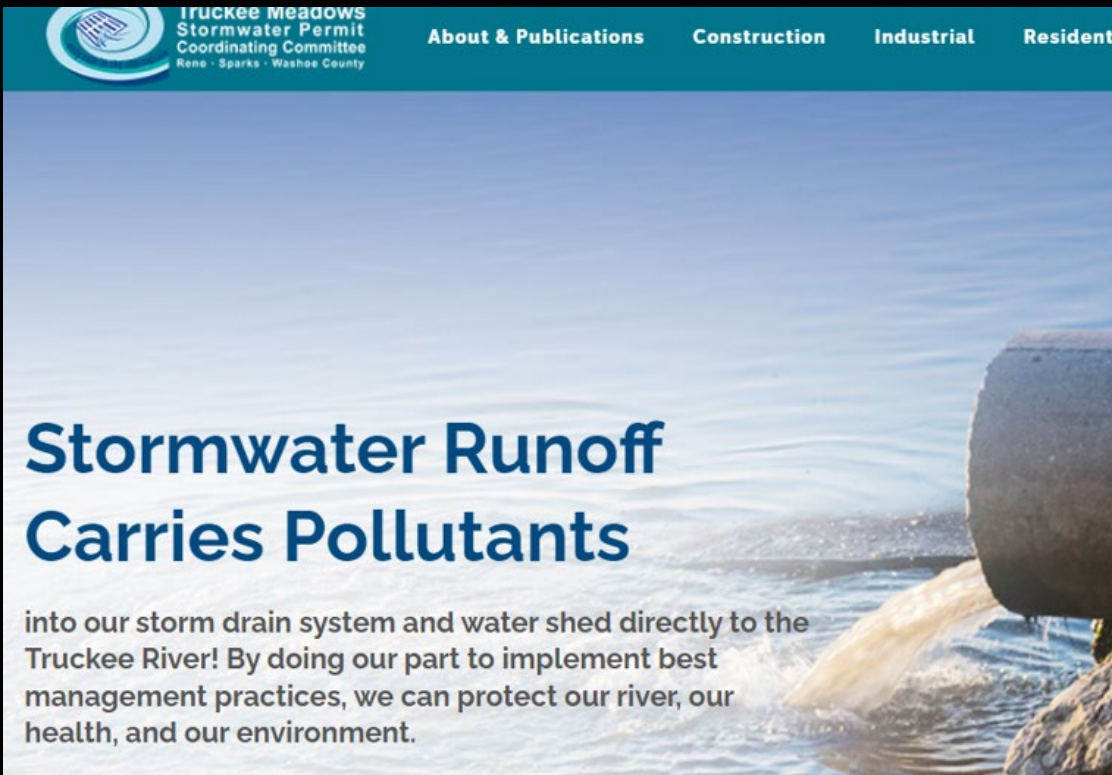
Updated by: Daniel Moss, 2/17/23
Prepared for: TheFactoryReno.com

Contents

- Top Navigation Bar Modifications:..... 2
- Bottom Navigation Links Modifications: 2
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- Get Involved Page (NEW):..... 9
- Report Issues Page: 10
- Events Calendar & Training Page (NEW):..... 12

Update Content - Example

“Construction” page



Publications & Manuals Page (NEW):

- Create new banner photo of watershed:
 - o Choose a stock photo from your library, make it “relevant”

Construction Page:

- Change banner description to:
 - **“Construction Stormwater Runoff Carries Pollutants**
...into our storm drain system and watershed, discharging directly to the Truckee River. By implementing erosion control Best Management Practices, contractors can help protect our waterways.”
- Move Permits section below BMP Resources section. Create Anchor for page jump

Industrial Page:

- Change web address to: <https://tmstormwater.com/industrial/>
- Change photo for Site Landscaping subsection to Garden1_OneTruckeeRiver.jpg
- Move Permits section below BMP Resources section. Create Anchor for page jump
- Add new 2 column section at bottom titled “Permissible or Prohibited Discharge?”
 - o Column 1: Description “Learn the difference between Permissible and Prohibited Discharges to the Stormwater system.” Add page jump links to these two sections found on the “Report” page
 - o Column 2: Photo: “illicit discharge pollutant sources.png”

Residential Page:

- Add new first row (above Pet Waste) with a **clickable** graphic of the yard with areas of potential pollutant contamination

Construction Stormwater Runoff Carries Pollutants...

...into our storm drain system and watershed, discharging into the Truckee River. By implementing construction Best Management Practices and following Stormwater Pollution Prevention Plans, contractors help protect our waterways.



Relocate Page Content

Prohibited and Permissible Discharges:
Currently on “About & Publications” page



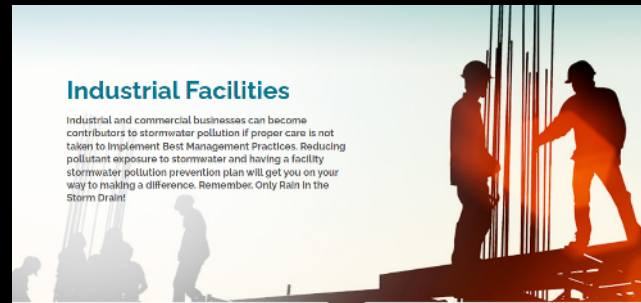
Prohibited Discharges

- Industrial process water
- Commercial car wash wastewater
- Sanitary sewer flows
- Wash-down of loading areas
- Wastewater treatment plant effluent
- Dumping of liquid waste
- Chlorinated pool water
- Water softener brine backwash
- Reclaimed or recycled water

Permissible Discharges

- Lawn, garden and landscape irrigation (not including reclaimed or recycled water)
- Diversified stream flows
- Rising ground waters and springs
- Uncontaminated pumped ground water
- Foundation drains
- Air conditioning condensation
- Water from crawl space pumps
- Footing drains
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Water utility line flushing
- Runoff from firefighting
- Discharges from potable water sources
- Street wash water from cleaning/maintenance
- Residential and fund raising car washing

“Industrial” page




Industrial Facilities

Industrial and commercial businesses can become contributors to stormwater pollution if proper care is not taken to Implement Best Management Practices. Reducing pollutant exposure to stormwater and having a facility stormwater pollution prevention plan will get you on your way to making a difference. Remember, Only Rain in the Storm Drain!

Equipment Maintenance

“Residential” page



By Implementing Best Management Practices

you will be taking action to reduce pollution entering the Storm Drain System (MS4).

Pet Waste

Pet waste carries bacteria as well as nutrients that harm our waterways. Reward your pet and pick up. See our partners on the right that can assist as a doggy housekeeper through [Trojan Pet Waste Pick Up](#) franchisee.

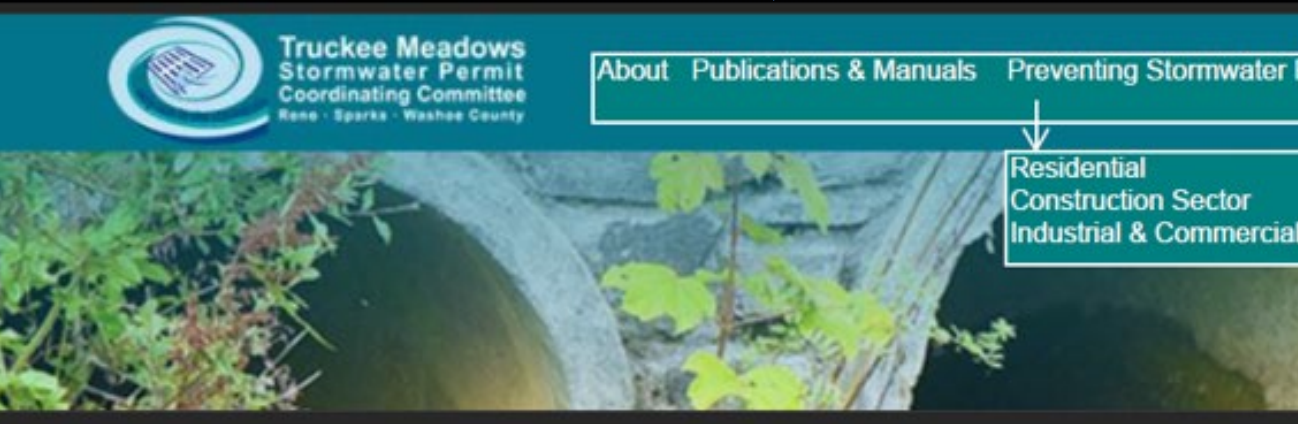
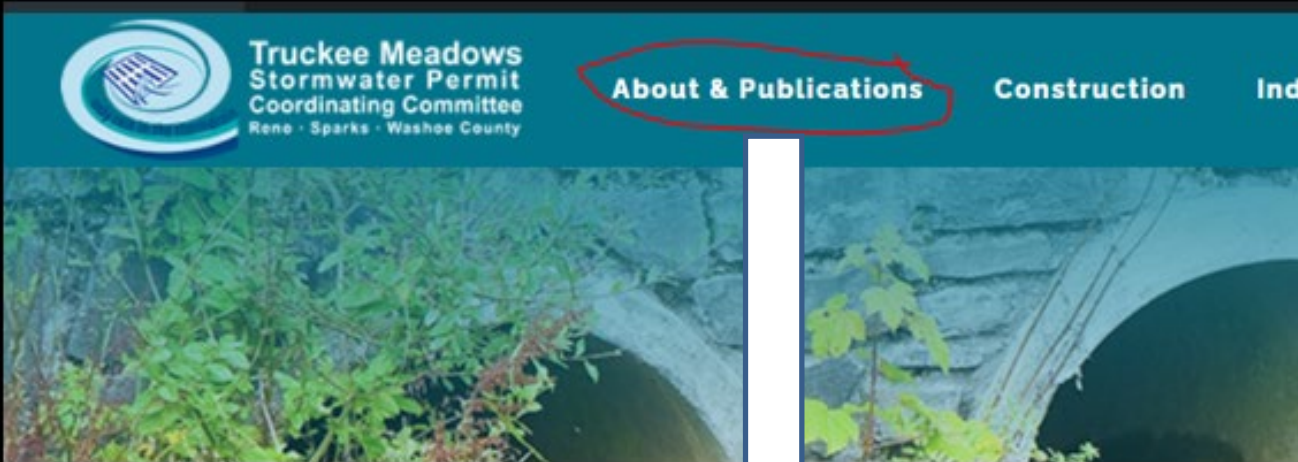
2. Add links to content

“Report Issues” page

1. Move content



Relocate Page Content



SWPCC Governing Documents & Annual Reports

The Truckee Meadows Stormwater Permit Coordinating Committee (SWPCC) meets to coordinate activities of the Stormwater Management Program and Watershed Protection Plan. An Annual Report is prepared each year covering program activities. Note that only the newest reports are linked here. Please contact us for reports dating back to 2005.

Governing Program Documents

- NPDES MS4 Permit NVS000001
- Stormwater Management Program
- Current Sampling Analysis Plan

MS4 Annual Reports

- MS4 Annual Report FY2021
- MS4 Annual Report FY1920
- MS4 Annual Report FY1819

Annual Stormwater Monitoring Reports

- FY2021 Annual Monitoring Report
- FY2020 Annual Monitoring Report
- FY2019 Annual Monitoring Report

Illicit Discharge Detection & Elimination

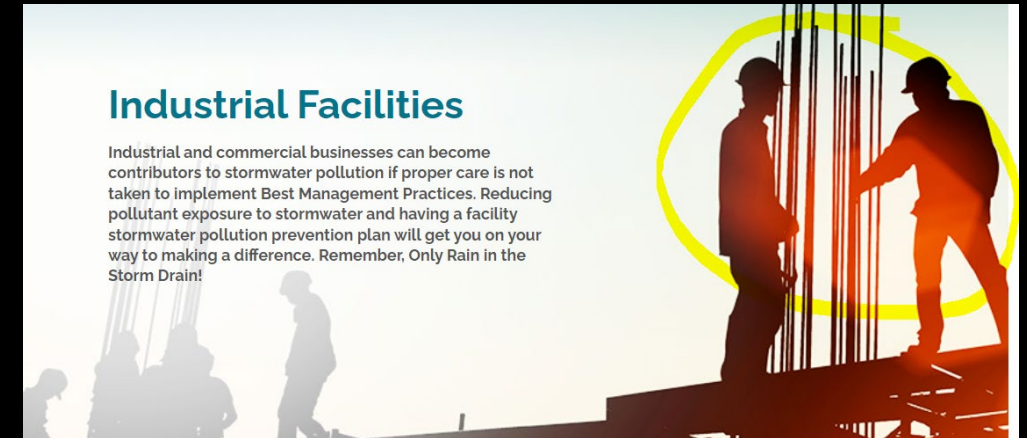
- IDDE Compliance Summary FY2021
- IDDE Compliance Summary 1920

Improve Navigation



Update Photos

- Update photos for relevance, local reference
- Include more human use & interaction with Truckee River



Source: TMStormwater.com



Source: <https://www.visitrenotahoe.com/wp-content/uploads/2020/06/Riverrafting-HEADER.jpg>



Source: McKinley Arts Center Rain Garden, City of Reno

Fix Existing Issues

CONSTRUCTION

Construction Requirements

How to Comply

BMP Resources

Email

stormwater@reno.gov

Phone:

775.334.2350

INDUSTRIAL

Industrial Requirements

How to Comply

BMP Resources

REPORT

Hotlines

Contact

RESIDENTIAL

At home BMPs list

Volunteer

GET INVOLVED TO LEARN MORE

Watershed

Stormwater Pollution

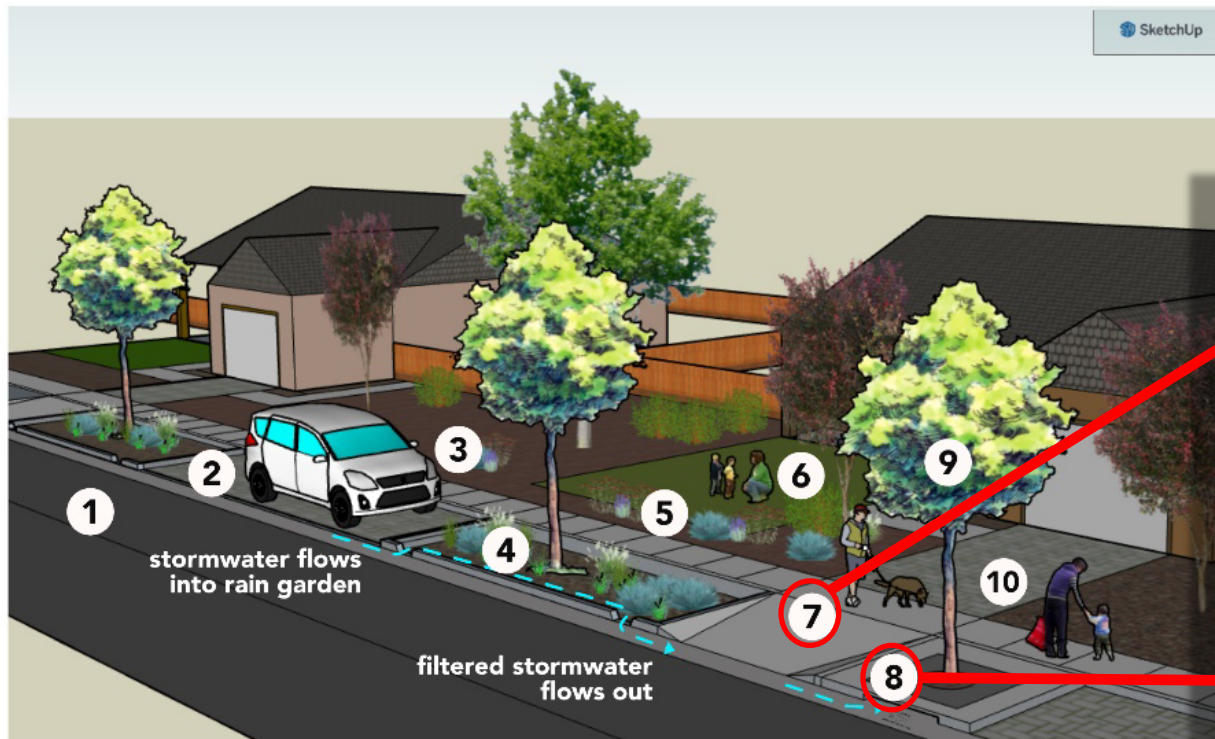
Important Links



River-Friendly Neighborhoods

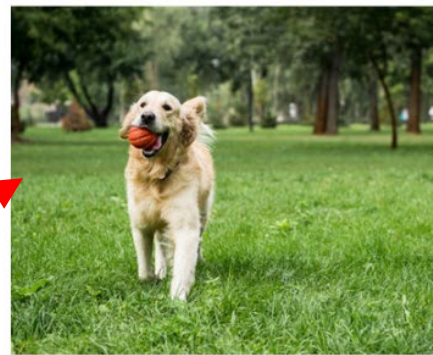
A River-Friendly Living Program: Working Together to ❤️ the Truckee River

SketchUp



- 1** Street network laid out to minimize impervious surfaces, maintain open space, and protect wetlands and waterways
- 2** On-street parking stalls with permeable paving to reduce runoff *
- 3** Efficient irrigation for trees, shrubs, and perennials (no spray irrigation within 3' of paved surfaces) *
- 4** Rain garden with overflow to remove pollutants from stormwater that flows from the street *
- 5** Water-wise plants in a buffer strip next to sidewalk prevent sprinkler runoff
- 6** River-Friendly Yards conserve water, reduce runoff, and provide useable space for people (see www.onetruckeeriver.org/river-friendly-yards)
- 7** Sidewalks provide pedestrian access and ensure a walkable neighborhood
- 8** Tree box filter removes pollutants from stormwater *
- 9** Street trees provide shade and filter stormwater in rain gardens and tree box filters
- 10** Driveways with permeable paving to reduce runoff *

Expand Content - Residential



Pet Waste

Pet waste carries billions of bacteria as well as nutrients that harm our waterways. Please do your part and pick it up. See our partners on the hiking trail or volunteer as a doggie ambassador through [Truckee Meadows Parks Foundation!](#)



Garden & Lawn Maintenance

Many activities from landscaping and yard care can contribute various pollutants to the MS4. Organics, nutrients, and yard chemicals are potential pollutants.

- Do not overwater. Conserve water by using irrigation practices such as drip irrigation, soaker hoses or micro-spray systems.
- In communities with curbside yard waste recycling, place clippings and pruning waste in approved containers for pickup. Or, take clippings to a landfill that composts yard waste.
- Do not blow or rake leaves into the street, gutter or storm drains. Use organic or non-toxic fertilizers.
- Do not over-fertilize and do not fertilize near ditches, streams or other

Source: TMStormwater.com

Source: One Truckee River (note: Document is a DRAFT)

Expand Content - Residential

“Click to view our Prevent Local Stormwater Pollution Pamphlet (or, en Español), or find a printed one at one of partner agencies around town.”



How can I prevent pollution?
To reduce your impact on the river, consider adopting the following five easy guidelines:

- 1 Proper home auto maintenance**
 - Clean up spills
 - Use a car wash
 - Dispose of fluids and waste properly
 - Prevent leaks by keeping car well-maintained
- 2 Dispose of home chemicals properly**
 - See disposal guide at: KTMB.org
- 3 Improve garden & lawn maintenance**
 - Conserve landscape irrigation
 - Don't overwater - No urban slobber!
 - Avoid raking/blowing leaves into street
 - Don't over-fertilize and use organic fertilizer
- 4 Pick up after pets**
 - Do your part and pick it up!
- 5 Avoid & report prohibited discharges**
 - Sediment runoff from construction sites
 - Commercial or residential car wash wastewater
 - Sewer overflows
 - Dumping of liquid waste, such as:
 - Chlorinated pool water
 - Water softener brine backwash
 - Reclaimed or recycled water

Visit TMStormwater.com for more detailed information on these guidelines.

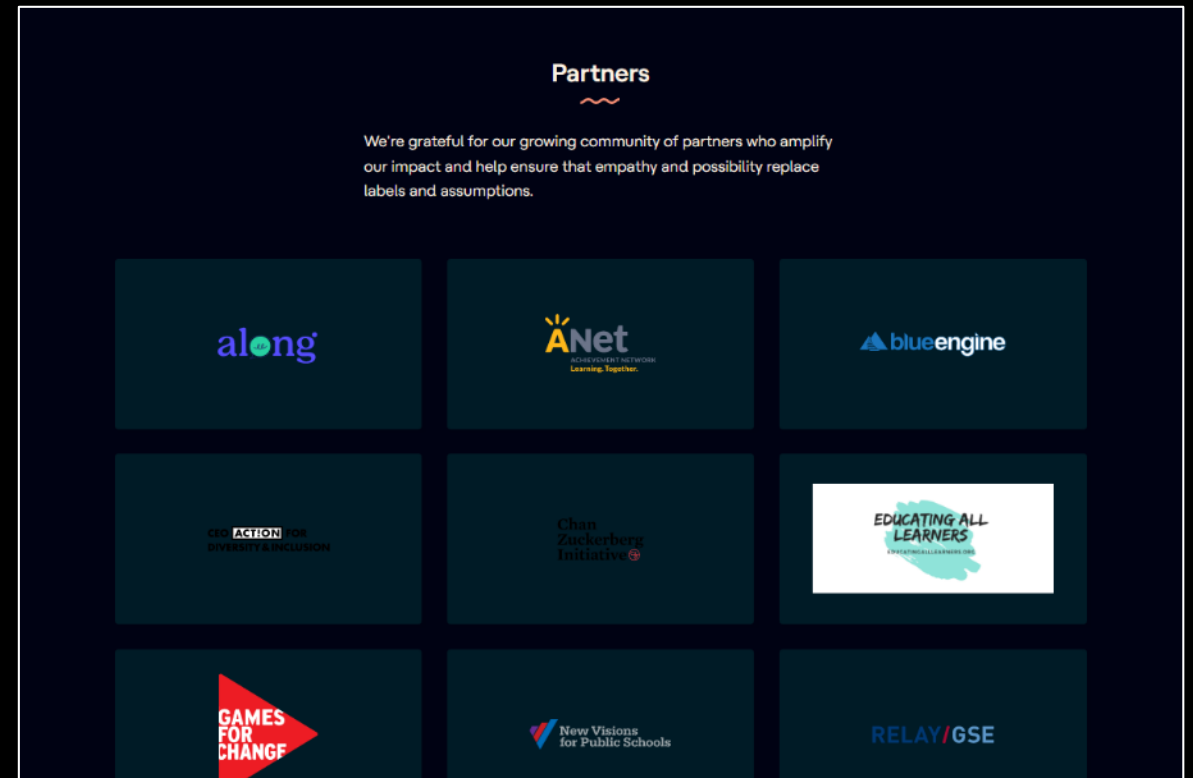
Also, look for prohibited discharges or other concerning activity that may enter the storm drain system and contact the agencies listed on this pamphlet. Once contacted, we will send an inspector to investigate the problem.

Remember, only rain in the stormdrain!

Expand Content - Get Involved

“Looking for Volunteer Opportunities or other activities related to the Truckee River Watershed? Check out these local organizations!”

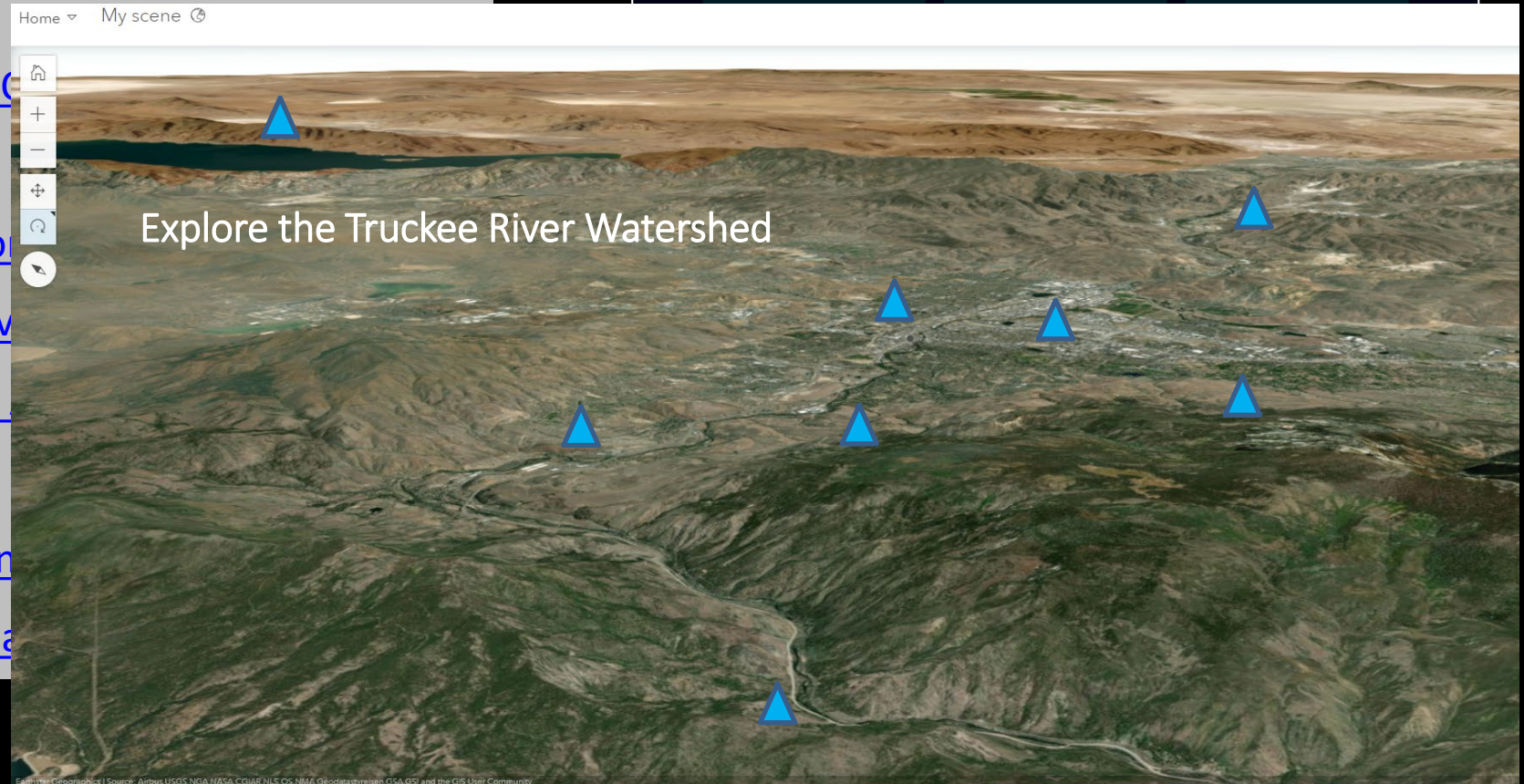
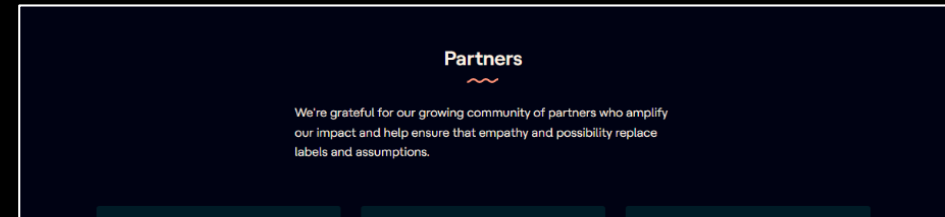
- [Keep Truckee Meadows Beautiful](#)
- [Truckee Meadows Parks Foundation](#)
- [City of Reno Parks and Recreation](#)
- [Washoe County Regional Parks and Open Space](#)
- [Sparks Parks and Recreation](#)
- [Sierra Nevada Journeys Camp](#)
- [Great Basin Outdoor School](#)
- [Tahoe Truckee Snapshot Day](#)
- [Tahoe Pyramid Trail](#)
- [Truckee River Day](#)



Expand Content – Learn More

“Learn more at one of these Affiliated Organizations:”

- [Nevada Division of Environmental Protection](#)
- [Nevada Department of Transportation - Stormwater Program](#)
- [Western Regional Water Council](#)
- [One Truckee River](#)
- [Carson-Truckee Water Conservancy District](#)
- [Carson Water Subconservancy District](#)
- [Truckee Meadows Water Conservancy District](#)
- [UNR Extension](#)
- [Truckee River Information System](#)
- [Truckee River Regional Planning Agency](#)



Learn More: Watch and Learn!

<https://www.youtube.com/cityofreno>

<https://www.youtube.com/@carsonriverwatershed5007/featured>



Nevada Post-Wildfire Project

Information for Residents in Recent Burn Areas

Nevada Floodplain Management Program
Carson River Watershed

The complex block contains a video player interface. At the top is the title "Nevada Post-Wildfire Project". Below it is a large infographic with five panels: "Numbers Fire" (a map of Nevada with a red and orange area), "How Wildfires Cause Flooding" (a diagram showing the process from "BEFORE FIRE" to "AFTER FIRE"), and a photograph of a flooded road. Below the infographic is the text "Information for Residents in Recent Burn Areas". At the bottom right of the video frame is a small inset video of a man in a cap. Below the video frame is a dark grey bar with the text "Nevada Floodplain Management Program" and "Carson River Watershed".

Expand Content - Events Calendar and Training

Upcoming Events

JANUARY SWPCC MEETING – 01/26/23

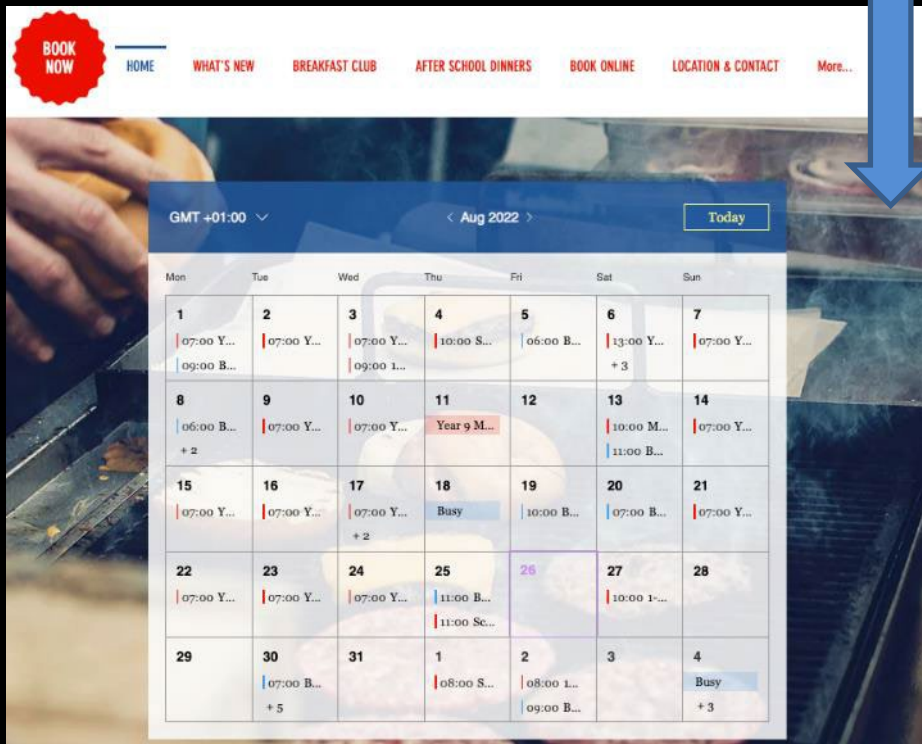
This meeting will be held in person and virtually, at 9:15 am. Please see the City of Reno Calendar ...

DECEMBER SWPCC MEETING – 12/15/22

This meeting will be held in person and virtually, at 9:15 am. Please see the City of Reno Calendar ...

NOVEMBER SWPCC MEETING – 11/17/22

This meeting will be held in person and virtually, at 9:15 am. Please see the City of Reno Calendar ...



New section below Calendar:

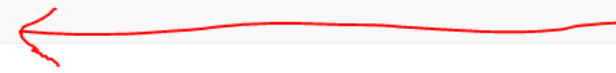
- We offer **free trainings and seminars** throughout the year, including:
 - Construction BMPs, Permitting, and Inspections (for Contractors, or for Municipalities)
 - How to Use the *Truckee Meadows Structural Controls Design and Low Impact Development Manual*
 - Protecting and Enhancing the Truckee River Watershed
 - Stormwater Management
- You can also request to book a training by contacting stormwater@reno.gov and mossd@reno.gov, or call 775-334-4230 (City of Reno Utility Services)

Report Issues

CLOGGED CATCH BASINS:

To report clogged **catch basins**, flood control channels or ditches, contact the local jurisdiction in your area:

City	Hotline	Number
City of Reno	Maintenance & Operations	334-2243
City of Sparks	Maintenance & Customer Service	353-2271
Washoe County	Roads Division	328-2180



- Add website links to table:

- City of Reno:

- “[RenoDirect](#), Maintenance & Operations”

- Numbers: 775-334-INFO(4636) ; 775-334-2243

- City of Sparks:

- [Report an Issue](#)

- Washoe County:

- [Road Division](#)

- Nevada Department of Transportation (NDOT):

- [NDOT](#)

- 775-888-7000

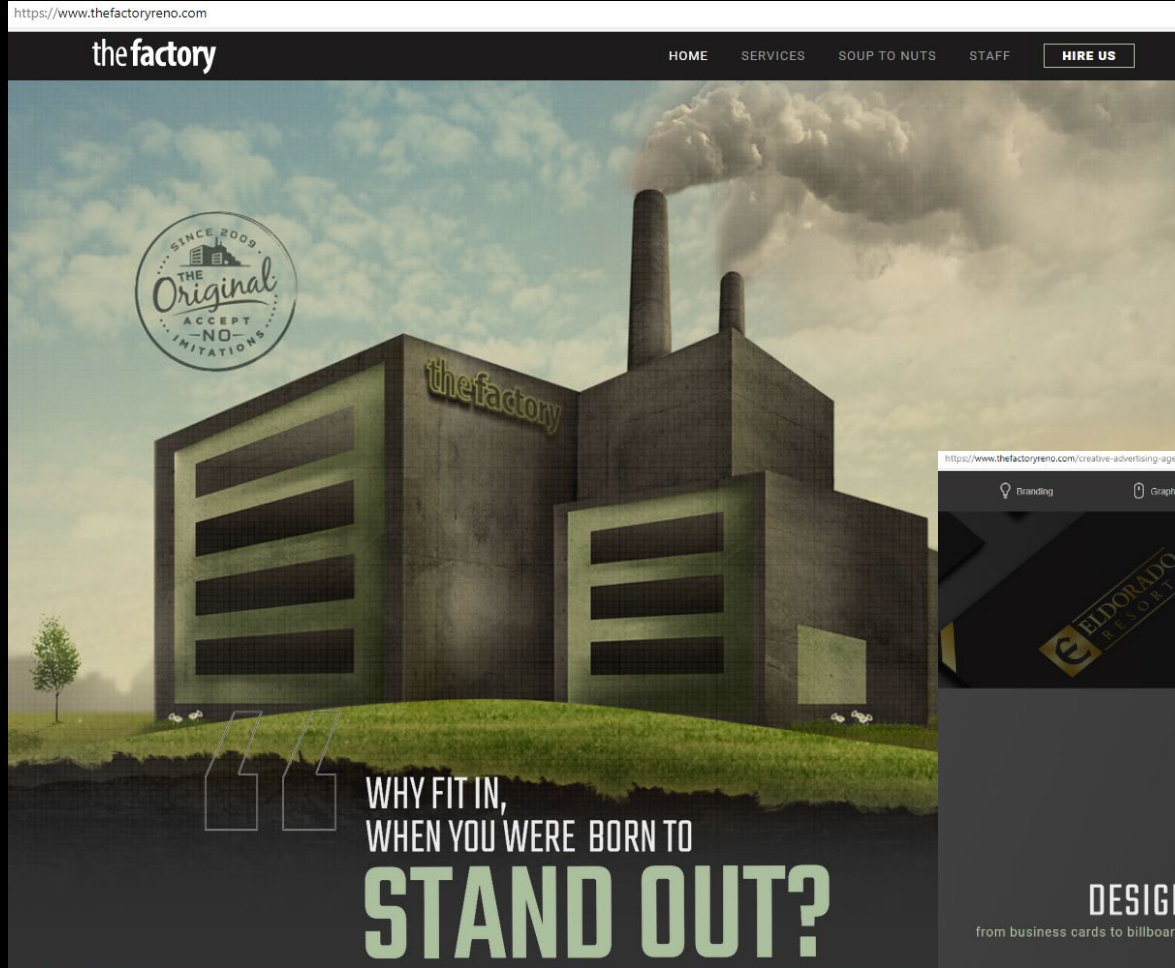
- info@dot.nv.gov

Move “Permissible Discharges” and “Prohibited Discharges” from “About” page to bottom of “Report” page

Make the following changes to these two subsections:

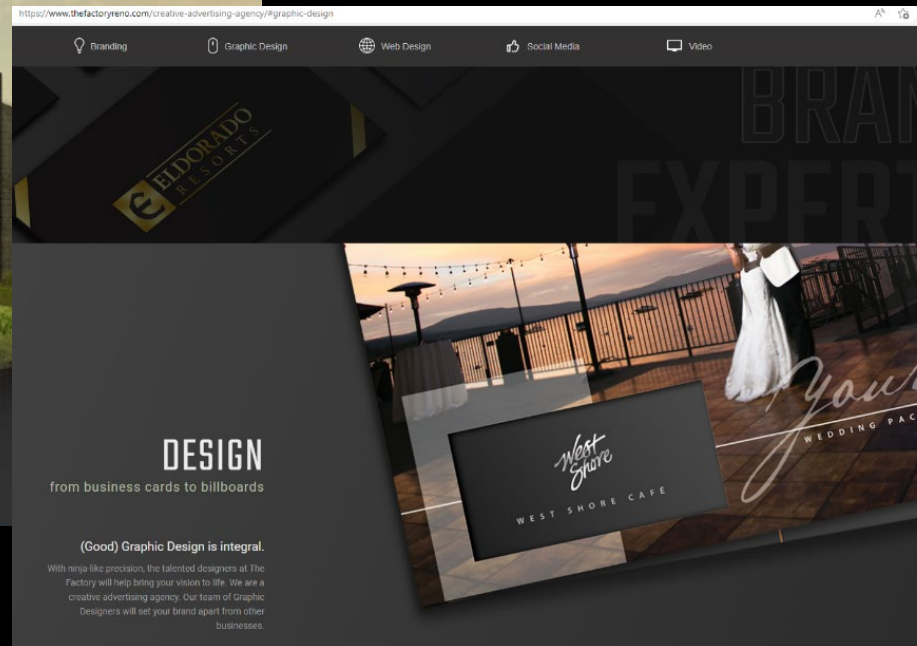


Selected Web Designer: TheFactoryReno.com



Benefits:

1. Fast and effective professional service
2. Long-term tech support
3. Replace old Wordpress web design software with new, user-friendly version



Budget



tmstormwater.com

Website Development Quote Informational Website 10-15 pages

This quote is a ballpark based off of similar previous projects. Website development is billed at our \$150/hr web development rate. We invoice the development upon completion of the project.

WEBSITE REBUILD

Estimated 25-30 hours
of development

(Website development done at our \$150/hr rate)


ESTIMATED TOTAL COSTS: \$3,750 - \$4,500
not to exceed \$4500

*This quote is a ballpark based off of similar previous projects.
Every website is different so final cost can vary.*

- Billing Rate: \$150/hr
- Total Cost Estimate: \$3,750 - \$4,500 (NTE)
- New Web Design software allows for **easy user updates**, leading to long-term cost saving

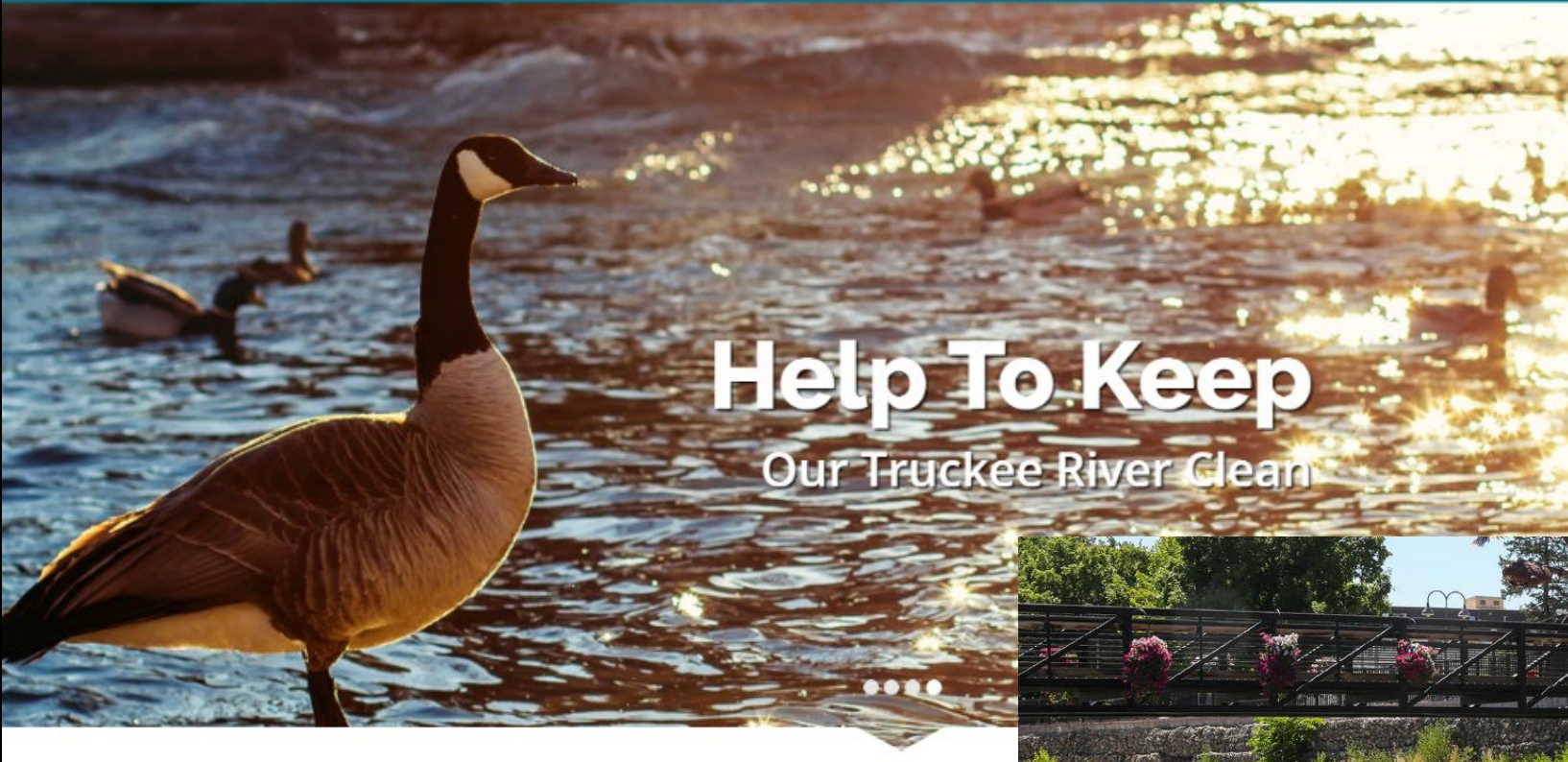


Questions?



Truckee Meadows
Stormwater Permit
Coordinating Committee
Reno · Sparks · Washoe County

About & Publications Construction Industrial Residential Get Involved to Learn More Report



Help To Keep Our Truckee River Clean



Source: <https://www.visitrenotahoe.com/wp-content/uploads/2020/06/Riverrafting-HEADER.jpg>

SWPCC FY23/24 Calendar – DRAFT

NOT A COMPLETE LIST (Items listed do not necessarily translate to agenda items each month)

July

- Annual budget overview and discussion of priorities
 - Watershed Assessments
- Discussion of funding opportunities for Watershed Assessments
- Circulate SWPCC SWMP Annual Report Templates
- All FY invoices received and agendized
- Outreach/Education: Planning for Truckee River Clean-up Day (stenciling locations)

August

- Development of SAP for Fiscal Year to be submitted to NDEP in October
 - To include new sampling location on the NTD
- Develop fall and spring BMP training, LID training, HOA BMP maintenance training

September

- Quarterly Review SWPCC budget review
- Ambient storm water monitoring (Balance)
- Outreach/Education: Truckee River Clean-up Day
- Outreach/Education: City of Sparks Community Day (fall)
- Outreach/Education: Distribute stormwater pamphlets to libraries

October

- Review of FY23/24 SWPCC SWMP Annual Report (incl Effectiveness Assessment)
- Outreach/Education: BMP/LID/HOA Training?

November

- Draft FY24/25 Storm Water Monitoring Report Draft review
- Review of Watershed Assessments Draft Report
- Outreach/Education: BMP/LID/HOA Training?

December

- Final Review and Approval of SWPCC SWMP Annual Report
- Breakfast Potluck!

January

- Storm Water Management Program Annual Report submitted to NDEP
- Quarterly SWPCC Budget Review
- Review of Road Map for FY24/25, include Outreach/Education, Training, etc.

February

- Discussion of SWPCC Program Budget for current and future FY
- Receive and respond to potential NDEP comments to SWMP Annual Report
- Planning Outreach/Education: Spring planning
 - Great Community Clean-up Day (stenciling locations)
 - Snapshot Day
 - Prepare and schedule trainings

March

- Quarterly review of SWPCC Budget
- Review of WRWC Scope-of-Work of SWPCC Program Budget for next FY
- Agreement for Storm Water Monitoring (Balance)
- Agreement for Watershed Assessments
- Hold Outreach/Education: BMP/LID/HOA Training

April

- Approve next FY contracts for monitoring and other
- Everything needing a PO must be approved this meeting for FY
- Outreach/Education: Earth Day
- Outreach/Education: Great Community Clean-up Day
- Outreach/Education: City of Sparks Community Day (Spring)
- Submit SWPCC Program Budget Scope-of-Work to NNWPC/WRWC

May

- Finalize Sampling and Analysis Plan
- Finalize Scope for Monitoring Sampling Contract
- Outreach/Education: NWRA Truckee River Tour (guide or participate, advertise to public)
- Outreach/Education: TMWA Smart about Water Day

- Outreach/Education: Truckee River Snapshot Day

June

- Send Annual Report Financial Questionnaires to City of Reno, Sparks and Washoe County
- Review of yearend SWPCC Program Budget FY
- Nomination and Election of Chairperson to SWPCC
- WRWC Interlocal Agreement Stormwater Monitoring Agreement
- Outreach/Education: Reno-Sparks Water Palooza
- Outreach/Education: Great Basin Outdoor School - Guest Presentation

Standing Items

- Approval of receipts
- Update Source Water and Watershed Protection Program activities
- Update on Stormwater Management Program activities
- Update from NDEP
- Updates on funding opportunities and training available

Possible Tasks/Events/Presentations/Trainings/ETC

- Review of NDOT/Las Vegas Valley Permits to assess possible tone of Truckee Meadows Permit
- Early discussions with NDEP regarding impending issuance of new permit for Truckee Meadows
- Review of Industrial Program Handbook for future update once Industrial Permit is issued
- SWPCC Presentations at various events – ideas/volunteers?
- Discussion for preparing for next audit (typically occur every 5 years)

TRIBUTARY ASSESSMENT PRIORITY MATRIX

PRIORITY	TRIBUTARY & REACH	REASONING (Water Quality Issue)	POINTS OF INTEREST	DATE LAST ASSESSED	CONDITION OF ASSESSMENT
1	Chalk - Upper (West Reach)	Has POIs. Useful to have continuity in assessments, especially given upcoming remediation efforts. Shows high erosion potential.	4	2016	Nonfunctional
2	Chalk - Middle	Has POIs. Useful to have continuity in assessments, especially given upcoming remediation efforts. Shows high erosion potential.	1	2015	Functional-at-Risk
3	Chalk - Lower	Has POIs. Useful to have continuity in assessments, especially given upcoming remediation efforts. Shows high erosion potential.	2	2015	Nonfunctional
4	North Truckee Drain - Lower Middle	Shows high erosion potential. Contained within Sparks, imporant partner.	0	2015	Nonfunctional
5	North Truckee Drain - Upper Middle	Shows high erosion potential. Contained within Sparks, imporant partner.	0	2015	Functional-at-Risk
6	North Truckee Drain - Upper	Shows high erosion potential. Contained within Sparks, imporant partner.	0	2016	Functional-at-Risk
7	S Evans - Middle	Has POIs. Shows high erosion potential and sediment loading.	2	2015	Functional-at-Risk
8	Galena - Middle	Has POIs. Shows high erosion potential and sedmient loading. Large creek with significant public access.	1	2015	Functional-at-Risk
9	Galena - Lower	Has POIs. Shows high erosion potential and sedmient loading. Large creek with significant public access.	2	2016	Functional-at-Risk
10	Jones - Lower	Shows high erosion potential.	1	2015	Nonfunctional
11	Whites - Upper	Shows high erosion potential.	1	2015	Proper Functioning Condition
12	Somerset - Middle	Has POIs. Dramatic redeveloped Has occurred in recent years.	2	2017	Functional-at-Risk
13	Somerset - Lower	Has POIs. Dramatic redeveloped Has occurred in recent years.	1	2017	Proper Functioning Condition

August 19, 2021

Theresa Jones, MSc, PE
Associate Civil Engineer
City of Reno
1 E. First Street
Reno, Nevada 89505

RE: Scope of Work for 2021 Watershed Assessment on Tributaries to the Truckee River

Dear Ms. Jones,

NCE appreciates the opportunity to provide this scope of work to conduct the 2021 Watershed Assessment on tributaries to the Truckee River.

Project Understanding

NCE has reviewed the following resources to determine the most applicable tributaries to assess in 2021:

- The 2015, 2016, and the 2017 Watershed Assessments for Tributaries to the Truckee River
- The 319(h)-funding project list
- Watershed Management and Protection Plan for Tributaries to the Truckee River (2020 Plan)

Since there is limited funding for the 2021 watershed assessment, NCE recommends surveying the reaches where the future 319(h) projects are proposed. The following tributary reaches are proposed to be surveyed in 2021 (**Table 1**):

- Chalk Creek - upper reach
- North Truckee Drain - upper, middle, and lower reaches
- South Evans Creek - middle reach
- Galena Creek – lower reach
- Jones Creek – lower reach
- Whites Creek - upper reach

Three Alum Creek projects and two additional projects were identified in the 319(h) Project List, but due to funding limitations for this year, these projects will not be surveyed as part of this proposed scope of work. The projects proposed to be

Reno, NV

1885 S. Arlington Ave., Suite 111
Reno, NV89509
(775) 329-4955

surveyed during a subsequent year include Alum Creek restoration projects, proposed weed mitigation projects, and the MS4 Outlet Erosion Mitigation Project.

Table 1. 2021 Proposed Tributary Reaches to be Surveyed

Project Count	Entity	Creek	Approximate Location	Water Quality Issue	2021 Proposed Reach to be Surveyed and 2015-2017 Survey History
2	City of Reno	Chalk	Valleywood to Mae Ann	This is a vegetation project with a section devoid of vegetation and subject to erosion.	2021 survey upper reach. Lower and middle were surveyed in 2015; upper was surveyed in 2016.
7	City of Sparks	North Truckee Drain	Spanish Springs Dam to I-80 box culvert	High flow events have caused erosion and sediment loading throughout the tributary.	2021 survey upper, middle, and lower reaches. Lower was surveyed in 2016, middle was surveyed in 2015, upper was surveyed in 2016
8	City of Sparks	North Truckee Drain	Spanish Springs Dam to I-80 box culvert	Invasive weeds and vegetation are present throughout the tributary.	2021 survey upper, middle, and lower reaches. Lower was surveyed in 2016, middle was surveyed in 2015, upper was surveyed in 2016.
9	City of Sparks	North Truckee Drain	Baring Drive to Lillard Drive	Sediment and debris impacts from storm drain outfalls are located throughout high density residential areas.	2021 survey middle reach. Lower was surveyed in 2016, middle was surveyed in 2015, upper was surveyed in 2016.
10	Washoe County	South Evans	Through Anderson Park, Del Monte Lane to Bonde Lane	Historical hydromodification causes frequent flooding, resulting in erosion and sediment loading.	2021 survey middle reach. Lower was surveyed in 2016, middle was surveyed in 2015, upper was surveyed in 2016.
11	Washoe County	Galena	Lower Reach – I-580 bridge to Steamboat Creek	Erosion, undercutting, noxious weeds, hydromodification, and sediment loading are present along the project site.	2021 survey lower reach. Lower was surveyed in 2016, middle was surveyed in 2015, upper was surveyed in 2017.

Project Count	Entity	Creek	Approximate Location	Water Quality Issue	2021 Proposed Reach to be Surveyed and 2015-2017 Survey History
12	Washoe County	Jones	Callahan Ranch Road to Galena Creek	Persistent severe incision/erosion are present.	2021 survey lower reach. Lower was surveyed in 2015.
14	Washoe County	Whites	Timberline Drive to Legend Trail	High flows cause erosion and sediment loading in multiple tributary drainages to Whites Creek.	2021 survey upper reach. Lower was surveyed in 2016; middle was surveyed in 2015, upper surveyed in 2015.

Scope of Work

Task 1 Conduct Watershed Assessments Field Work

As described above, NCE will conduct an assessment on the following creek reaches:

- Chalk Creek - upper reach
- North Truckee Drain - upper, middle, and lower reaches
- South Evans Creek - middle reach
- Galena Creek – lower reach
- Jones Creek – lower reach
- Whites Creek - upper reach

NCE will use the existing pre-determined reaches that were used in the 2015-2017 field assessments for the 2021 field assessments.

The drainages will be assessed using the Proper Functioning Condition according to methodology presented in the U.S. Department of the Interior Bureau of Land Management document titled *Riparian Area Management, A User Guide to Assessing Proper Functioning Condition and the Supporting Science for Lotic Areas* (BLM, 1998). In addition, representative photographs will be taken, and observation points will be recorded with a GPS unit. The data collected will include problem areas such as noxious weeds and drainage erosion and/or deposition locations. The noxious weeds will be identified, the coverage will be estimated, and the extent will be mapped.

Task 2 Watershed Assessments Report

Using the data collected in **Task 1**, NCE will prepare a 2021 watershed assessment report. The report will include a description of the drainage and the reach surveyed

using the existing descriptions from the 2017 watershed assessment report. The report will also include a summary of the field data collected, specific problem areas identified in the field, recommendations, photographs, and a set of maps. The maps will include an overview map, and a map of the surveyed reach with the observation points, the location of noxious weed colonies, and the GPS points of erosion and/or degradation.

A GIS geodatabase will be created and provided to the City of Reno. The GIS database will include photo points, field observation points, points of erosion and/or deposition, extents of invasive/noxious weeds, and the PFC ratings.

The draft 2021 Watershed Assessment report will be provided to the City of Reno for review and comment. The City of Reno will solicit comments from the City of Sparks and Washoe County, and provide a summary of comments to NCE.

Deliverables:

- Draft 2021 Watershed Assessment Report (electronic copy: Word and PDF)
- Final 2021 Watershed Assessment Report (Electronic copy: PDF and GIS geodatabase)

Assumption:

- Field work will be completed by two NCE scientists within four 10-hour days

ESTIMATED FEE

NCE proposes the above-described scope of work on a time and materials basis in accordance with our attached Schedule of Charges 2021. NCE understands the funds may be shifted between tasks, but the not to exceed amount is **\$40,000**.

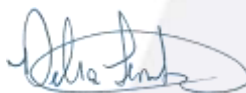
We appreciate the opportunity to provide these services to the City of Reno and look forward to working with you and your team on this project. If you have any questions or additional needs, please call our office at (775) 329-4955.

Respectfully,

NCE



Kevin Senn
Principal



Debra Lemke, PWS, CPESC
Senior Scientist

Attachments: Schedule of Charges 2021



SCHEDULE OF CHARGES 2021

PROFESSIONAL SERVICES

Principal	\$270/hour
Associate.....	\$215/hour
Senior	\$185/hour
Project	\$165/hour
Staff	\$145/hour

TECHNICAL SERVICES

Senior Construction Manager*.....	\$145/(\$170-PW)/hour
Senior Designer.....	\$155/hour
CADD Designer	\$135/hour
Senior Technician*	\$125/(\$150-PW)/hour
Construction Inspector*	\$130/(\$155-PW)/hour
CAD Technician	\$120/hour
Senior Field Scientist.....	\$125/hour
Field Scientist	\$100/hour
Project Administrator	\$110/hour
Field/Engineering Technician*	\$100/(\$125-PW)hour
Technical Editor.....	\$100/hour
Clerical.....	\$90/hour

CONTRACT LABOR

From time to time, NCE retains outside professional and technical labor on a temporary basis to meet peak workload demands. Such contract labor will be charged at regular Schedule charges.

LITIGATION SUPPORT

Engineer/Scientist	\$330/hour
Court Appearances & Depositions	\$550/hour

EQUIPMENT

Plotter Usage	(separate fee schedule)
Truck	\$100/day
Automobile	IRS Standard Mileage Rate+15%
Falling Weight Deflectometer Testing	\$3,500/Day
Coring.....	\$4,500/Day
Environmental Equipment.....	(separate fee schedule)

OUTSIDE SERVICES

Rental of equipment not ordinarily furnished by NCE and all other costs such as special printing, photographic work, travel by common carrier, subsistence, subcontractors, etc..... cost + 15%

**COMMUNICATION/
REPRODUCTION**

In-house costs for long-distance telephone, faxing, postage, printing and copying

project labor charges x 5%

TERMS

Billings are payable upon presentation and are past due 30 days from invoice date. A finance charge of 1.5% per month, or the maximum amount allowable by law, will be charged on past-due accounts. NCE makes no warranty, either expressed or implied, as to its findings, recommendations, specifications, or professional advice except that they are prepared and issued in accordance with generally accepted professional practice.

*A surcharge of \$25/hour applied for technicians and construction inspectors to comply with Prevailing Wage (PW) per requirements of California Department of Industrial Relations.

City of Reno

Truckee Meadows Storm Water Quality Management Program

Scope of Services for 2017 Tributary Assessments

This Scope of Work describes the objectives, approach, assumptions and deliverables associated with the implementation of annual Tributary Assessments as described in the Watershed Protection Manual (Manual) (Kennedy Jenks, 2005) and refined through discussions between CDM Smith and the City of Reno. Tributary Assessments are a component of the Truckee Meadows Storm Water Quality Management Program which was developed and is being implemented by the Truckee Meadows Storm Water Permit Coordinating Committee (SWPCC) in compliance with the Truckee Meadows MS4 Permit (No. NVS000001).

The assessments consist of collecting a variety of field data including photographs, observations at points of interest, documentation of problem areas, and recommendations. The Proper Functioning Condition (PFC) methodology is utilized as presented in the U.S. Department of the Interior Bureau of Land Management document titled *Riparian Area Management, A User Guide to Assessing Proper Functioning Condition and the Supporting Science for Lotic Areas* (BLM, 1998). The PFC assessment provides a consistent approach for considering hydrology, vegetation, and erosion/deposition (soils) attributes and processes to assess the condition of riparian-wetland areas. In addition, efforts are made to identify and characterize the causes of the various problems identified through this work.

Services provided by the CDM Smith (Consultant) under contract with the City of Reno (City) shall include the following Tasks:

Task 1 – Project Initiation

Objectives

Complete the necessary preparation and planning activities for the efficient completion of the tributary assessments. Work will include a kickoff meeting with appropriate SWPCC representatives and project staff to review the goals and objectives of the tributary assessments, discuss the implementation scope and schedule, and document the roles and responsibilities of all team members.

Based on the anticipated assessment activities, the necessary equipment, documentation and data collection systems will be compiled and prepared for initiation of the field work.

Approach

- **Kickoff Meeting.** The Consultant shall work with the City to schedule and conduct a Tributary Assessment Kickoff Meeting. An agenda shall be prepared and distributed to attendees one week in advance and meeting notes shall be distributed to the attendees within one week after the meeting.
- **Compile Equipment and Documentation.** The Consultant shall obtain all necessary equipment and documentation necessary for the successful completion of the field work including but not limited to: GPS, cameras, safety equipment, mapping, field data forms and related supplies. All required equipment shall be provided by the Consultant or, if necessary, purchased with prior approval by the SWPCC agencies. The Consultant shall test and calibrate the equipment, as appropriate, to verify proper functionality prior to initiating field work.

The previously developed documentation and field forms will be obtained, reviewed and revised as necessary for the collection of all required field data. The Consultant shall also review previously submitted reports to determine issues and locations of concern such as erosion and/or invasive weed problems, past projects and BMPs so that specific field observations can be made to assess these conditions and the changes that have occurred since the previous surveys.

Assumptions

- The kickoff meeting will be held within two weeks of Notice to Proceed in Reno and will be approximately 2 hours long. The SWPCC agencies, Consultant's Project Manager and Field Team Leader will attend the meeting.
- Data collection and analysis methodologies will generally follow those described in the 2005 Manual, as modified herein, and no additional written work plan is necessary.
- Information on existing BMPs, relevant projects and previously identified problem areas will be provided by the SWPCC agencies and discussed at the kickoff meeting.
- All mapping of parking locations, access routes and reach locations are available from previously prepared documentation including the 2005 Manual and/or the Annual Watershed Assessment Reports.
- Field forms are available from previous work and require minimal revisions.

Deliverables

- An electronic draft agenda will be distributed one week prior to the kickoff meeting for review. A finalized version will be distributed to all planned attendees prior to the meeting.
- An electronic draft version of the meeting minutes will be distributed for review by all attendees. After incorporating all comments, the finalized minutes will be distributed electronically to participants.

Task 2 - Tributary Assessments

Objectives

The Consultant shall conduct the tributary assessments during the summer of 2017 per the methods described in the Manual and herein. The assessments shall be conducted with the specific purpose of addressing the following objectives as defined previously within the program:

- Locate and map the extents of erosion problems including 1 ft. headcuts, or larger, that can cause damage to riparian areas, scour problems at culverts, active bank erosion where lateral bank migration is apparent and risks to property or other damage;
- Assess stormwater impacts to tributaries by evaluating and mapping stormwater outfall locations with notable erosion, or other, problems such as increased runoff, installation or structural problems with stormwater facilities, lack of energy dissipation structures, etc.;
- Identify and characterize potential causes of significant erosion, sediment deposition and debris buildup, water quality, or stream habitat problems by conducting qualitative field surveys within upgradient development and stormwater drainage systems.

- Locate and map the extents of invasive weed populations;
- Assess hydrologic function, water quality, and vegetative condition;
- Determine if best management practices (BMPs) within, or near, surveyed channels are being maintained and functioning as intended to address stormwater impacts;
- Highlight opportunities to protect or enhance watershed functions;
- Determine “health” trends for tributaries to the Truckee River;
- Help planners focus available stream restoration resources for the greatest benefit; and
- Identify and classify specific problem areas where erosion control, restoration, and/or mitigation measures are needed as well as at risk areas and locations requiring protection.

Approach

The Watershed Assessment Program includes the following tributaries to the Truckee River:

- North Truckee Drain Watershed
- Peavine and Verdi Watersheds (Chalk, Dog, Mogul, N. Evans, Peavine, Somerset, Sunrise)
- North Carson Range Watersheds (Alum, Dry, Hunter, Manzanita, Roberts, S. Evans)
- Southwest Truckee Meadows Watersheds (Browns, Galena, Jones, Steamboat, Thomas, Whites)

These streams are generally monitored on a rotational basis as previously defined within the program. For organizational purposes, the streams are divided into upper, middle, and lower reaches. Middle reaches, some located on alluvial fans, in past years have experienced rapid development and may be experiencing new stormwater impacts from increased runoff. Middle reaches are therefore monitored more frequently to provide an opportunity to track trends, document the benefits of BMPs, and catch problems early. Lower and upper reaches have historically been monitored less frequently. Lower reaches are monitored less often since the surrounding areas are substantially built out and rapid changes are less likely. Upper reaches are generally in a healthier condition and therefore only a select number of upper reaches are typically monitored each year.

An evaluation of the Watershed Assessment Reports that have been produced under this program since 2005 identified multiple streams and reaches in which significant water quality, erosion and/or invasive weed problems were observed. Based on this evaluation and the rotational approach described above, the 2017 Assessment Program shall monitor the streams, reaches and Points of Interest (POIs) identified in the table below.

2017 Tributary Assessment Program Summary

Creek Name	Lower		Middle		Upper	
	Full Reach	POI	Full Reach	POI	Full Reach	POI
NORTH TRUCKEE DRAIN						
North Truckee Drain	<i>No surveys in 2017</i>					
PEAVINE AND VERDI WATERSHED						
Sunrise	X					
Dog	X					
Somerset	X		X			
Mogul	X		X		X	
Chalk				1		
Peavine						4
N Evans				2		
NORTH CARSON RANGE WATERSHED						
Alum		1	X			
Roberts	X					
Hunter	<i>No surveys in 2017</i>					
Manzanita	<i>No surveys in 2017</i>					
S Evans				2		
Dry						
SOUTHWEST TRUCKEE MEADOWS WATERSHED						
Thomas				1		
Whites						
Jones						
Galena		1		1	X	
Steamboat	X		X		X	
Browns	X					
Totals	7	2	4	7	3	4
NOT INCLUDED IN PROGRAM						

POIs (Points of Interest) are points of severe erosion/deposition observed in Functional-at-Risk reaches during 2015/2016.

The Proper Functioning Condition (PFC) Assessment methodologies, as described within the Manual and Reports, shall be used to conduct the tributary assessments. The previously developed field checklists shall be used and information collected shall be the same as that documented within the 2015 and 2016 Watershed Assessment Reports (CDM Smith, Feb 2016 and Jan 2017) with an additional focus on identifying potential causes of significant problem areas.

In addition to the PFC assessments on stream reaches, POIs from the 2015 and 2016 watershed assessments will be visited for a brief evaluation of changes since their last assessment. POIs are locations that were rated as having severe erosion or deposition problems, and are limited to reaches that were designated as Functional-at-Risk. Additional evaluations of these locations will provide information on impacts of the record precipitation that occurred during the winter of 2016-17. Recommendations for corrective actions will be provided for POIs, as appropriate, with a goal of restoring Proper Functioning Condition within the reach.

Upon completion of the field data collection activities, the Consultant shall compile all field notes, photographs and electronic data and review for quality and completeness. A brief email summary of

the field work and preliminary findings shall be submitted and shall include any identified high priority issues requiring immediate attention.

Assumptions

- A total of fourteen (14) reaches will be assessed in 2017 based on a contract start date in July of 2017.
- A total of thirteen (13) POIs will be visited to evaluate changes since the previous 2015/2016 assessment.
- Assessments will be conducted within one month of Notice to Proceed and are expected to require approximately two weeks to complete.
- Each reach will require approximately 4 hours to assess using a 2-person field crew.
- Each POI will require approximately 1 hour to assess using a 2-person field crew.
- Tributary assessment surveys are limited to the riparian zones along the selected stream reaches on public lands and right-of-way.
- Approximately 2 additional hours per reach is anticipated for assessing causes of stormwater related problems near outfalls and in the stream channels by conducting qualitative field surveys within upgradient development and stormwater drainage systems.
- Detailed mapping and inventory of stormwater catchment areas and infrastructure is not included.
- Western Botanical Services will assist on up to 10 of the reaches to be assessed for assistance in identifying and characterizing invasive weed infestations.
- No water quality field measurements or laboratory analysis is included.
- Five to fifteen (5-15) photographs showing key locations and field observations will be taken for each reach.

Deliverables

- One email summary of completed field work and preliminary findings transmitted electronically.

Task 3 – Update GIS Database

Objectives

The existing GIS data developed as part of the 2015 and 2016 Tributary Assessments will be updated with newly collected data to facilitate the creation of improved mapping presentations. Additional and more detailed mapping is needed in the report as either 8 ½ x 11, or 11 x 17 figures to depict the location and extent of erosion problems and invasive weed colonies. Mapping of development and other land uses is also needed to assess their potential stormwater impacts and will be incorporated using existing GIS and other mapping data provided by the SWPCC agencies.

Approach

Following the completion of fieldwork, the Consultant shall incorporate the field data into the existing GIS to update the previously established data fields. These data shall include photo points, field observations, problem area classifications, potential causes of degradation, and the PFC assessment results, and shall be entered and formatted to enable presentation as ESRI shape files as previously developed under this program. The shape files shall include:

- One point file with coordinates of key locations and observations, associated photos and descriptions.
- One line file which identifies the assessed stream reaches and includes data such as condition, land use, trend, and weed presence.
- One polygon file to depict the location and extent of invasive weed colonies.
- Mapping files shall be provided in State Plane Coordinate System, Nevada West Zone, NAD 83.

Assumptions

- The previously developed GIS is available, in the correct datum and coordinate system and useable, and will be provided by the SWPCC agencies.
- Additional GIS layers for development, land uses, jurisdictional boundaries, etc. is available and will be provided by the SWPCC agencies, as needed.
- Newly collected and entered GIS data will be the same as previous data except with the addition of specific locations and extents of erosion problems and invasive weed colonies.
- New mapping will be included within the report and no separate, large-scale maps are included in this task.
- For each regional watershed, one overview map showing all tributaries and indicating those assessed during 2017 will be developed and included in the report.

Deliverables

- Revised GIS files in ArcView format

Task 4 - Data Analysis and Reporting

Objectives

The SWPCC requires a clear and concise Watershed Assessment Report to present the results of the tributary assessments. The format and content of the report shall be consistent with the 2015 and 2016 Watershed Assessment Reports (CDM Smith, Feb 2016, and Jan 2017) with strong reliance on graphic presentation of data. High quality and detailed mapping is needed to illustrate problem areas and support decision making for issues such as prioritizing protection programs, restoration projects or weed abatement efforts. The report shall also include specific sections which evaluate the effectiveness of previous actions such as BMP installations or restoration and stabilization activities.

Approach

The Consultant shall conduct all necessary data analyses to produce the PFC ratings for each reach as presented in previous reports. Problem areas, and their apparent causes, will be identified and discussed with specific attention to developed areas and the related potential stormwater impacts. In addition, new mapping including general vicinity and detailed illustrations will be produced as 8 ½ X 11, or 11 X 17 sized figures with insets as necessary. Key photographs shall also be included with descriptions of what is shown, and photo locations will be shown on the maps. Mapping shall specifically illustrate the location and extent of erosion and deposition, stormwater outfall locations, upstream development and jurisdictional boundaries, and invasive weed problems in sufficient detail to guide decision making on possible corrective, or protective, actions.

The Consultant shall produce one draft report for review by the SWPCC. After submittal of the draft report, the Consultant shall develop and provide a presentation to the SWPCC at a regularly scheduled meeting to present and discuss the results of the tributary assessments. The presentation shall include PowerPoint slides showing similar mapping as presented in the report. SWPCC comments to the draft report will be clarified and discussed during the presentation so that the need for an additional review iteration is eliminated. Following the incorporation of all comments, a finalized version shall be produced and submitted.

Assumptions

- One draft and one final Watershed Assessment Report will be submitted.
- For POI assessments, significant changes will be reported with descriptions and photographs. If the site's conditions are similar to previous assessments, "no-change" will be reported with no new descriptions or photographs. New mapping is not included.
- One compiled set of comments to the draft report will be provided by the SWPCC agencies within three weeks of submitting the draft.
- One presentation of results to the SWPCC in Reno at a regularly scheduled meeting to discuss and clarify comments.
- The draft report shall be submitted within 4 months of Notice to Proceed.
- The final report shall be submitted within three weeks of receiving all compiled comments.

Deliverables

- One draft report submitted in electronic (PDF) format.
- One presentation of results to the SWPCC with supporting handouts and presentation materials.
- Three (3) hardcopies of the final report including CDs with the electronic PDF and MS Word versions and all GIS data, shapefiles, etc.

Task 5 - Project Management

Objectives

The implementation of this project will require coordination with City staff, SWPCC members and the management of a multi-disciplinary team, including subcontractors. Timely and accurate invoices with

progress reports are required to track progress and costs incurred. Any changes in conditions that may result in impacts to the project budget or schedule must be reported immediately upon identification so that corrective actions may be made.

Approach

The Consultant shall perform necessary project management including coordination with City staff and SWPCC members to obtain required information and communicate any problems or unanticipated conditions. The Consultant's Project Manager shall serve as the primary point of contact throughout the project and shall be responsible for all communications and for identifying and providing the necessary staffing and other resources to complete the work.

The Consultant shall provide monthly invoices showing all personnel, hours worked, labor charges, and direct costs including backup documentation. A progress report describing the work completed and project status shall be included with each invoice.

Assumptions

- The project duration is 6 months from receiving Notice to Proceed.

Deliverables

- Monthly invoices with progress reports.

**TMSWPCC Storm Water Management Program Budget Fiscal Year 2022-2023
4th Quarter Summary**

Category	Budget Items	Program Budget	WRWC Contribution	NDOT Participation	Total Billed WRWC	Total Billed NDOT	Total Budget Remaining	% Spent	% Remain	Notes
Stormwater Quality	USGS	\$ 13,520.00	\$ 10,140.00	\$ 3,380.00	\$ 7,605.00	\$ 2,535.00	\$ 3,380.00	75%	25%	
	Field Supplies Equipment misc	\$ 5,000.00	\$ 3,750.00	\$ 1,250.00	\$ 2,280.29	\$ -	\$ 2,719.71	46%	54%	
	Balance Hydro	\$ 191,786.50	\$ 143,839.88	\$ 47,946.63	\$ 141,897.88	\$ 47,299.29	\$ 2,589.33	99%	1%	
	Misc. Stormwater Support	\$ 62,272.00	\$ 46,704.00	\$ 15,568.00	\$ 19,930.39	\$ 1,173.44	\$ 41,168.17	34%	66%	
	Subtotal	\$ 272,578.50	\$ 204,433.88	\$ 68,144.63	\$ 171,713.56	\$ 51,007.73	\$ 49,857.21	82%	18%	
Outreach	Unallocated	\$ 1,290.00	\$ 1,290.00		\$ -		\$ 1,290.00	0%	100%	
	KTMB	\$ 2,000.00	\$ 1,500.00	\$ 500.00	\$ 2,000.00		\$ -	100%	0%	
	SWAG		\$ -				\$ -			
	TMPF	\$ 2,500.00	\$ 2,500.00		\$ 2,468.91		\$ 31.09	99%	1%	
	Misc	\$ 1,500.00	\$ 1,500.00		\$ 2,300.76		\$ (800.76)	153%	-53%	
Subtotal	\$ 7,290.00	\$ 6,790.00	\$ 500.00	\$ 6,769.67	\$ -	\$ 520.33	93%	7%		
Administration and Support	NDEP	\$ 1,276.00	\$ 1,276.00		\$ 1,276.00		\$ -	100%	0%	
	City of Reno/Staffing	\$ 50,000.00	\$ 50,000.00		\$ 52,076.38		\$ (2,076.38)	104%	-4%	
	Subtotal	\$ 51,276.00	\$ 51,276.00	\$ -	\$ 53,352.38		\$ (2,076.38)	104%	-4%	
Total	Totals	\$ 331,145	\$ 262,500	\$ 68,645	\$ 231,836	\$ 51,008	\$ 48,301			Total Budget/Billed WRWC/NDOT
Check		\$ 332,500	\$ 262,500	\$ 70,000	\$ 231,836	\$ 51,008	\$ 48,301			Totals check
		OK	OK	OK	OK	OK				Over budget check
					OK	OK				Invoice Tab Check

Percent Total Available Budget Spent	85%
Percent WRWC Available Budget Spent	88%
Percent NDOT Available Budget Spent	73%
Amount of WRWC Budget Spent \$	231,836
Amount of NDOT Budget Spent \$	51,008
Total Funds Spent FY2023 \$	282,844
Total Available Budget Remaining \$	49,656
Total Available WRWC Budget Remaining \$	30,664
Total Available NDOT Budget Remaining \$	18,992



Project Transaction Report

G/L Date Range 07/01/22 - 06/30/23

Exclude Sub Ledger Detail

Sorted By Project - G/L Account - Date

G/L Date	Journal	Journal Type	Sub Ledger	Description	Source/Reference	Revenue	Debit Amount	Credit Amount	Actual Balance	Net Change
I700021-00103 - STORM WATER PROGRAM TRUCKEE MEADOWS, Project Mgmt/Admin								Year-to-Date	\$0.00	
40000-4000-4040-7102-0000 - Regular salaries							34,098.02	.00	34,098.02	
40000-4000-4040-7202-0000 - Retirement							10,144.18	.00	44,242.20	
40000-4000-4040-7204-0000 - Group insurance							5,838.42	.00	50,080.62	
40000-4000-4040-7205-0000 - Life insurance							120.48	.00	50,201.10	
40000-4000-4040-7210-0000 - Employer medicare contributions							462.05	.00	50,663.15	
40000-4000-4040-7212-0000 - Long Term Disability							109.51	.00	50,772.66	
40000-4000-4040-7214-0000 - Deferred Compensation							542.46	.00	51,315.12	
I700021-00103 Total							\$51,315.12	\$0.00	\$51,315.12	
I700021-09000 - STORM WATER PROGRAM TRUCKEE MEADOWS, Misc Contract/Other Payments								Year-to-Date	\$0.00	
40000-4000-4040-7400-1000 - Outside services-personnel							761.26	.00	761.26	
I700021-09000 Total							\$761.26	\$0.00	\$761.26	
Grand Totals							\$52,076.38	\$0.00		

**TMSWPCC Storm Water Management Program Budget Fiscal Year 2023-2024
1st Quarter Summary**

Category	Budget Items	Program Budget	WRWC Contribution	NDOT Participation	Total Billed WRWC	Total Billed NDOT	Total Budget Remaining	% Spent	% Remain	Notes
Stormwater Quality	USGS	\$ 13,780.00	\$ 10,335.00	\$ 3,445.00	\$ -	\$ -	\$ 13,780.00	0%	100%	
	Field Supplies Equipment misc	\$ 3,000.00	\$ 2,250.00	\$ 750.00	\$ -	\$ -	\$ 3,000.00	0%	100%	
	Balance Hydro	\$ 214,734.00	\$ 161,050.50	\$ 53,683.50	\$ -	\$ -	\$ 214,734.00	0%	100%	
	Misc. Stormwater Support	\$ 38,000.00	\$ 28,500.00	\$ 9,500.00	\$ -	\$ -	\$ 38,000.00	0%	100%	
	Subtotal	\$ 269,514.00	\$ 202,135.50	\$ 67,378.50	\$ -	\$ -	\$ 269,514.00	0%	100%	
Outreach	Unallocated		\$ -		\$ -		\$ -			
	KTMB	\$ 2,000.00	\$ 1,500.00	\$ 500.00	\$ -		\$ 2,000.00	0%	100%	
	SWAG	\$ 588.00	\$ 588.00				\$ 588.00			
	TMPF	\$ 2,000.00	\$ 2,000.00		\$ -		\$ 2,000.00			
	Misc		\$ -		\$ -		\$ -			
	Subtotal	\$ 4,588.00	\$ 4,088.00	\$ 500.00	\$ -	\$ -	\$ 4,588.00	0%	100%	
Administration and Support	NDEP	\$ 1,276.00	\$ 1,276.00		\$ -		\$ 1,276.00	0%	100%	
	City of Reno/Staffing	\$ 55,000.00	\$ 55,000.00		\$ -		\$ 55,000.00	0%	100%	
	Subtotal	\$ 56,276.00	\$ 56,276.00	\$ -	\$ -		\$ 56,276.00	0%	100%	
Total	Totals	\$ 330,378	\$ 262,500	\$ 67,879	\$ -	\$ -	\$ 330,378			Total Budget/Billed WRWC/NDOT
Check		\$ 332,500	\$ 262,500	\$ 70,000	\$ -	\$ -	\$ 330,378			Totals check
	OK		OK	OK	OK	OK				Over budget check
					OK	OK				Invoice Tab Check

Percent Total Budget Spent	0%
Percent WRWC Budget Spent	0%
Percent NDOT Budget Spent	0%
Unallocated Budget WRWC	\$ 28,500.00
Total Budget Remaining	\$ 330,378.00
Total WRWC Budget Remaining	\$ 262,500.00
Total NDOT Budget Remaining	\$ 67,879.00