



Stormwater Education Update



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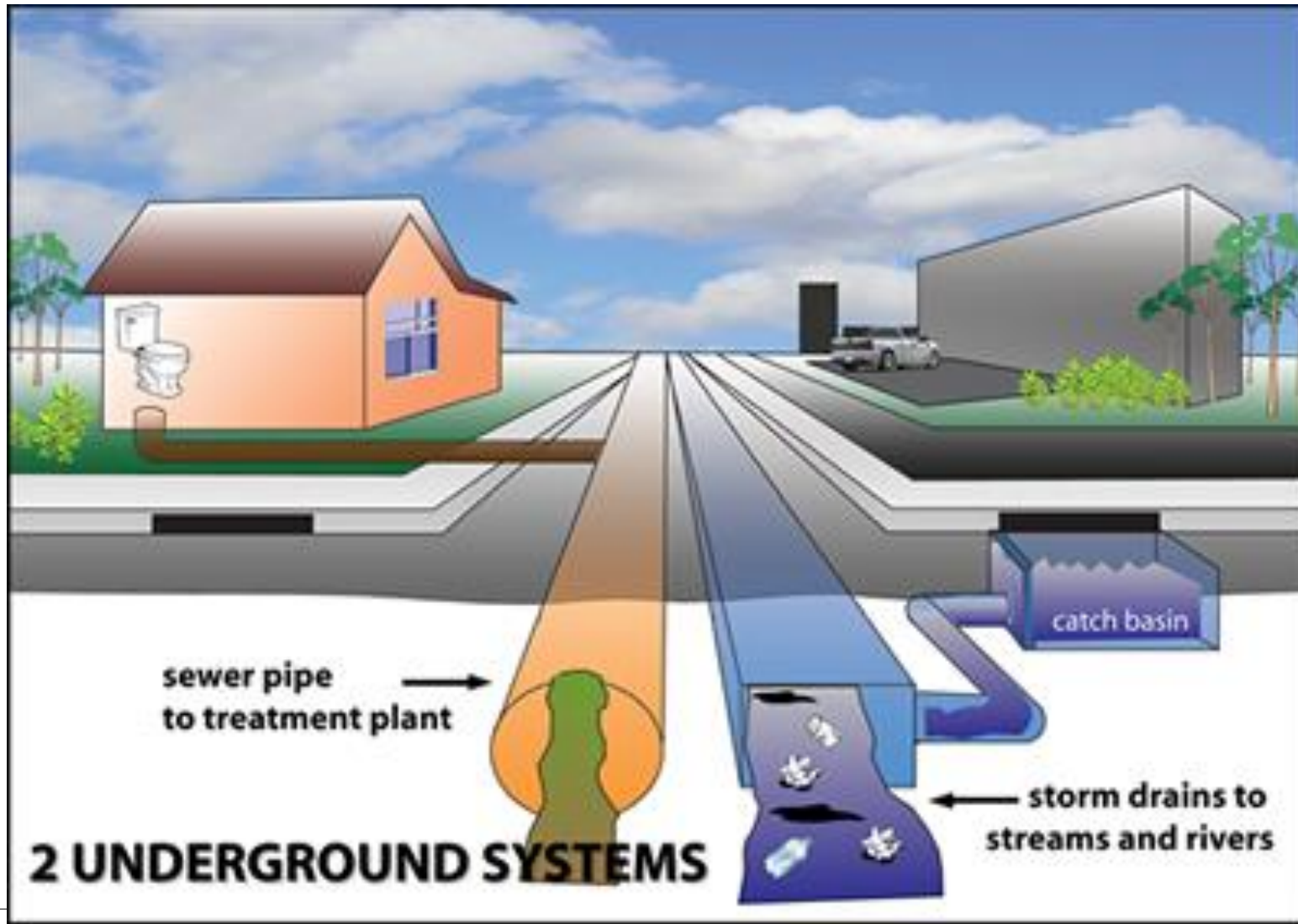
How did we get here?

- Plants have been replaced by pavement and roofs
 - The natural state of the watershed offered much more filtration and percolation
- Hardscapes direct runoff into storm drains or directly into the creek



Drainage from Impervious Surfaces

What is the problem?



If it has an open grate, it doesn't get filtered (storm sewers and sanitary sewers are different).

Changing Understandings of Stormwater Management



Historically, stormwater has been moved into pipes, culverts and ditches as quickly as possible. (Began with Frederick Law Olmsted)

People are beginning to recognize that slowing runoff by filtering it through soil and roots helps keep pollution out of waterways.



Stormwater Inventory



About 2,000 stormwater inlets, outfalls and manholes were catalogued and inspected by SGM in 2015.

Keeping sewage out of our creek



We test several stormwater outfalls for E. coli on regular basis.

- Results over holidays looked good.

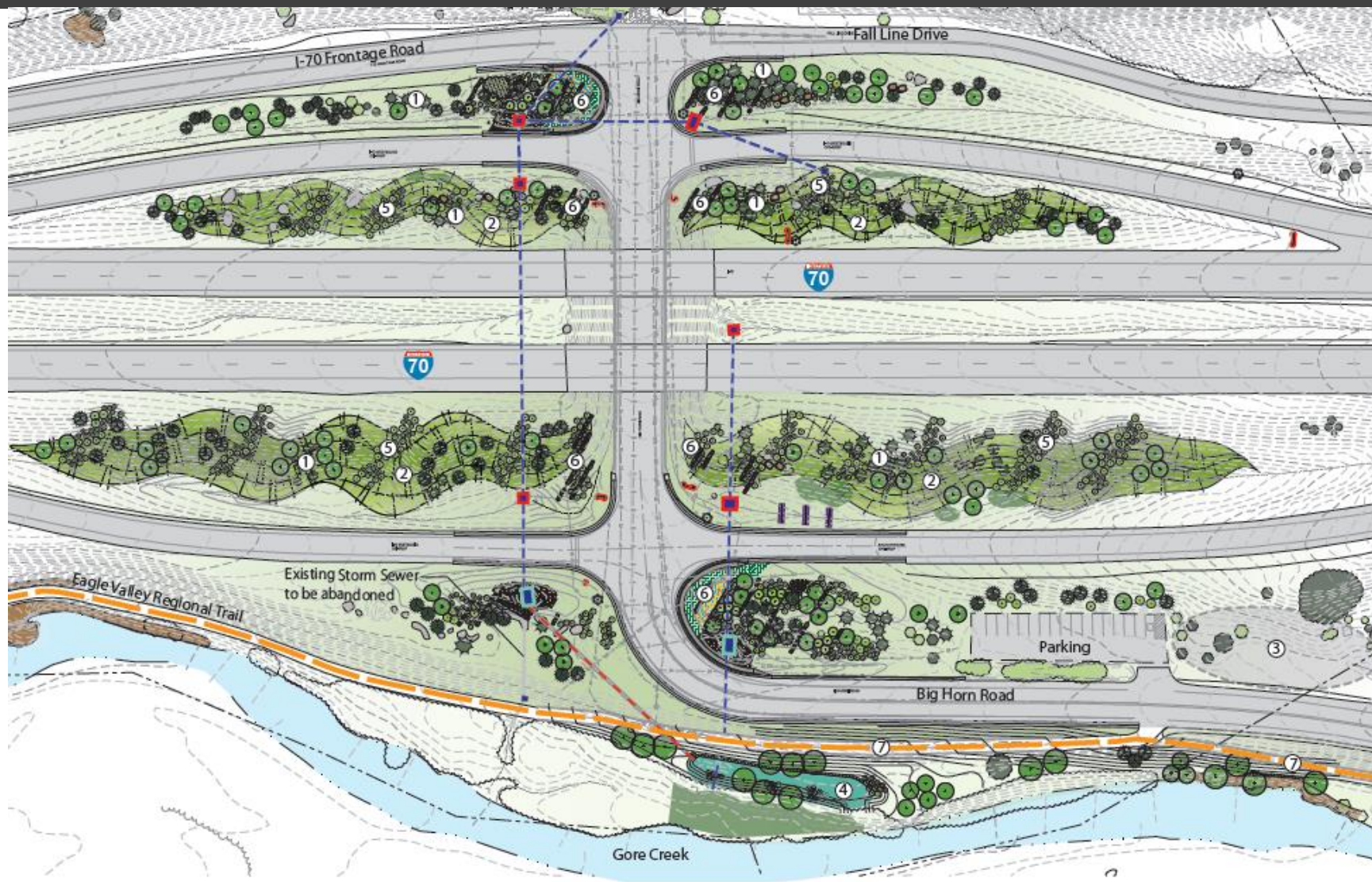
The ongoing hunt for cross connections.

NPS Grant for Public Work Project



- Snow dump filtration was improved in 2016
- NPS plan to begin in 2017

East Vail Interchange



Contact filters and stormwater vaults

Currently, there are 27 water quality vaults installed in Vail

- 13 sand/oil separators
- 14 Hydrodynamic separators
- No contact filters, but some may be installed in 2017



People don't know where the water goes.

Education is needed in Vail

In 2016 people dumped:

- Cement



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In 2016 people dumped:

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- Cooking grease



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Education is needed in Vail

In 2016 people dumped:

- Cement
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- Paint



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Education is needed in Vail

In 2016 people dumped:

- Cement
- Cooking grease
- Paint
- Window Cleaner



wiseGEEK

People don't know where the water goes.

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Education is needed in Vail

In 2016 people dumped:

- Cement
- Cooking grease
- Paint
- Window Cleaner
- 120 hot dogs

Down storm drains in Vail



People don't know where the water goes.

What is our message?



Example of bus board currently appearing on in-town busses. Similar add ran in Vail Daily over the holidays.

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What is our message?

Possible art installation in summer of 2017



Only rain down the drain!



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What is our message?

Possible art installation in summer of 2017



Derek DeYoung

Heavy-duty decals can be applied to pavers, pavement or storm drains themselves and removed at end of summer season.

Polluting is a “real” crime

Bad actors need to know they are being watched and there are consequences.

- Education for code enforcement and PD coming this winter.
- Community members report questionable activities
- We had our first stream-related ticket written in October for drywall dust from a drop-cloth shaken into Gore Creek.



If you see a spill, call 970-476-GORE (4673)



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