



WIMBERLEY VALLEY Cypress Creek Project - WPP

Basin Steering Committee meeting
March 20th, 2014



STEP 1 *Characterization Report*

(Phase 1) 2009-2010

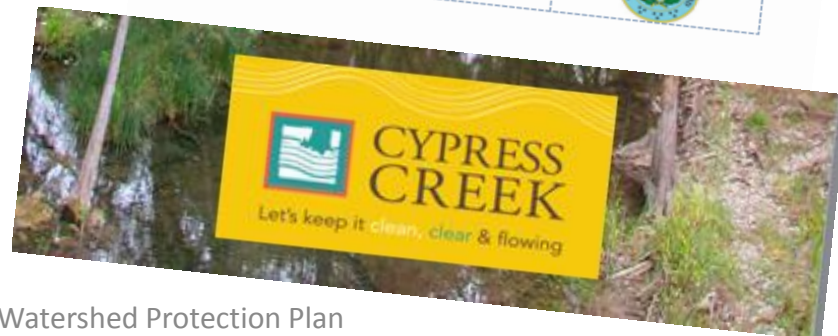
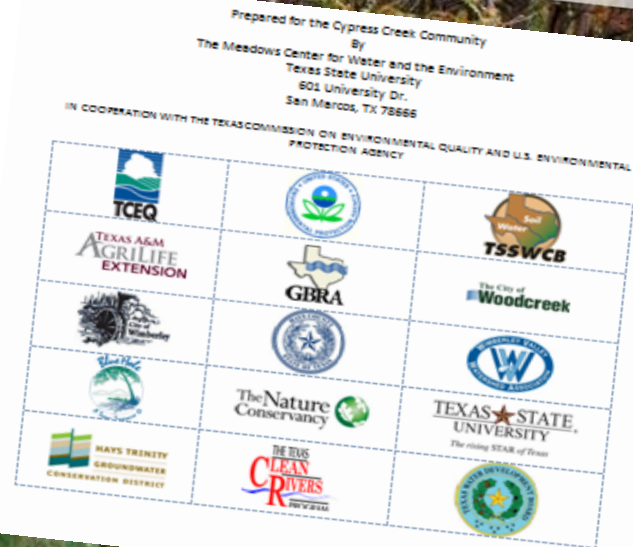
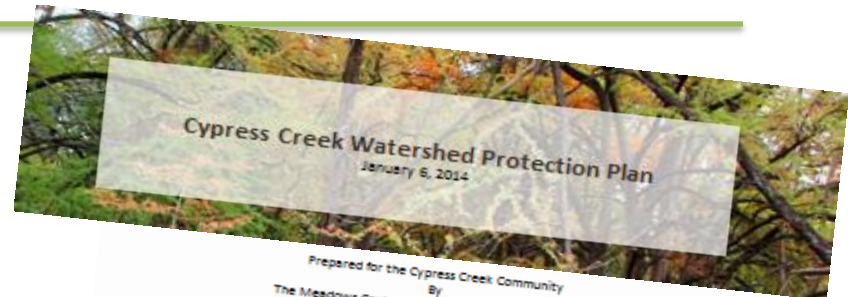
Cypress Creek Project Watershed Characterization Report

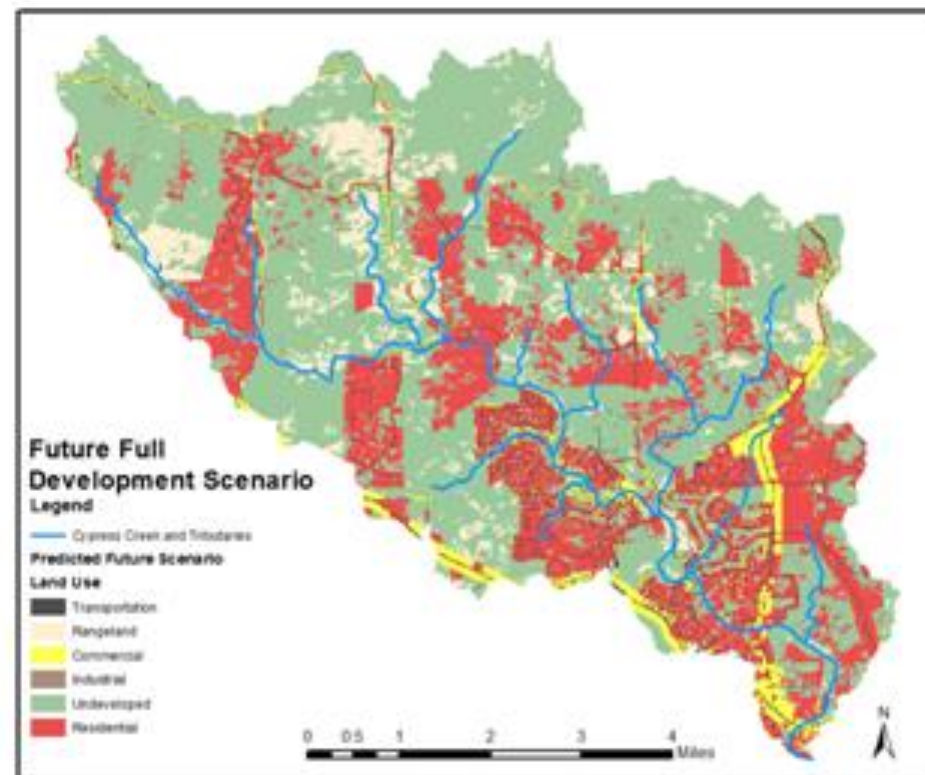


PREPARED IN COOPERATION WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND U.S.
ENVIRONMENTAL PROTECTION AGENCY
The preparation of this report was financed through grants from the U.S. Environmental Protection
Agency through the Texas Commission on Environmental Quality.

STEP 1 *Setting the priorities*

(Phase 2) 2011-2013





Primary growth areas

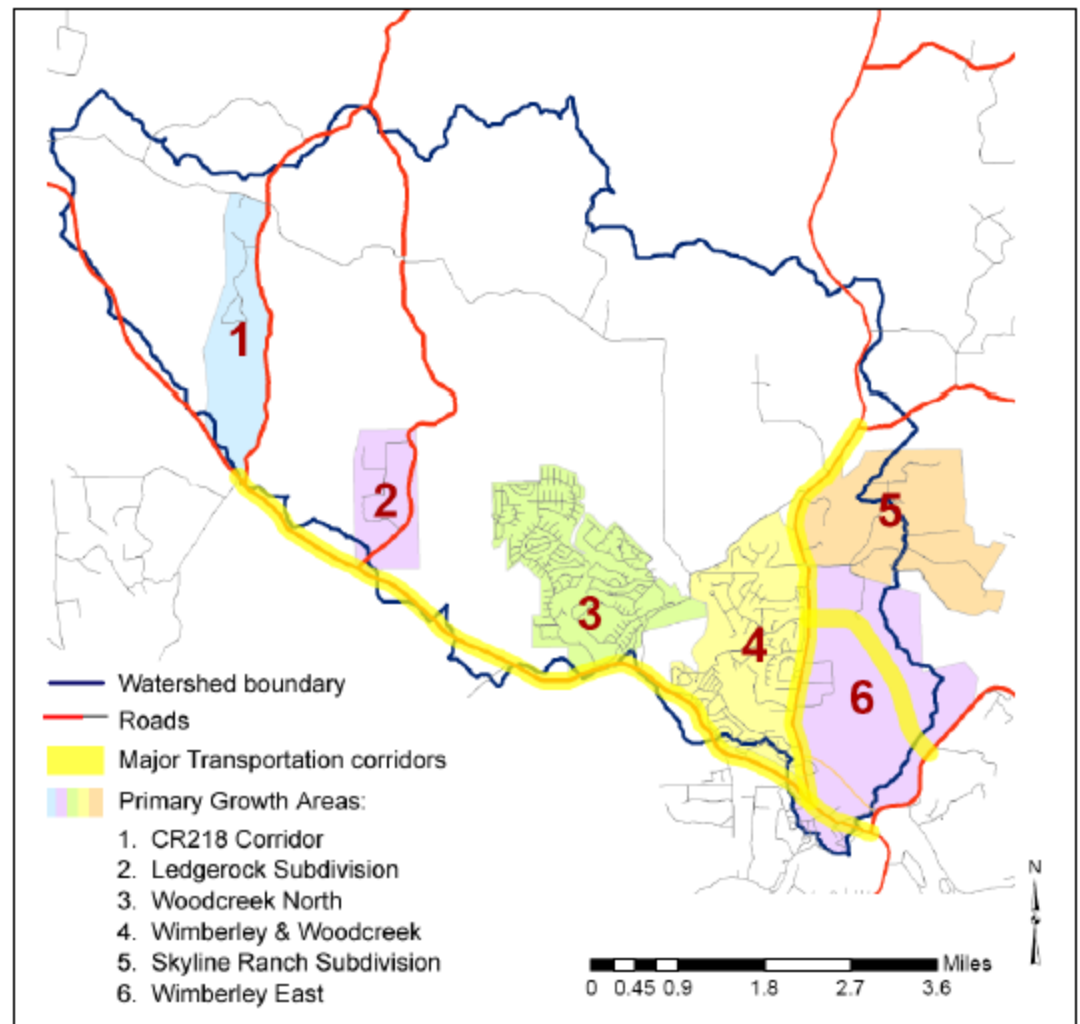
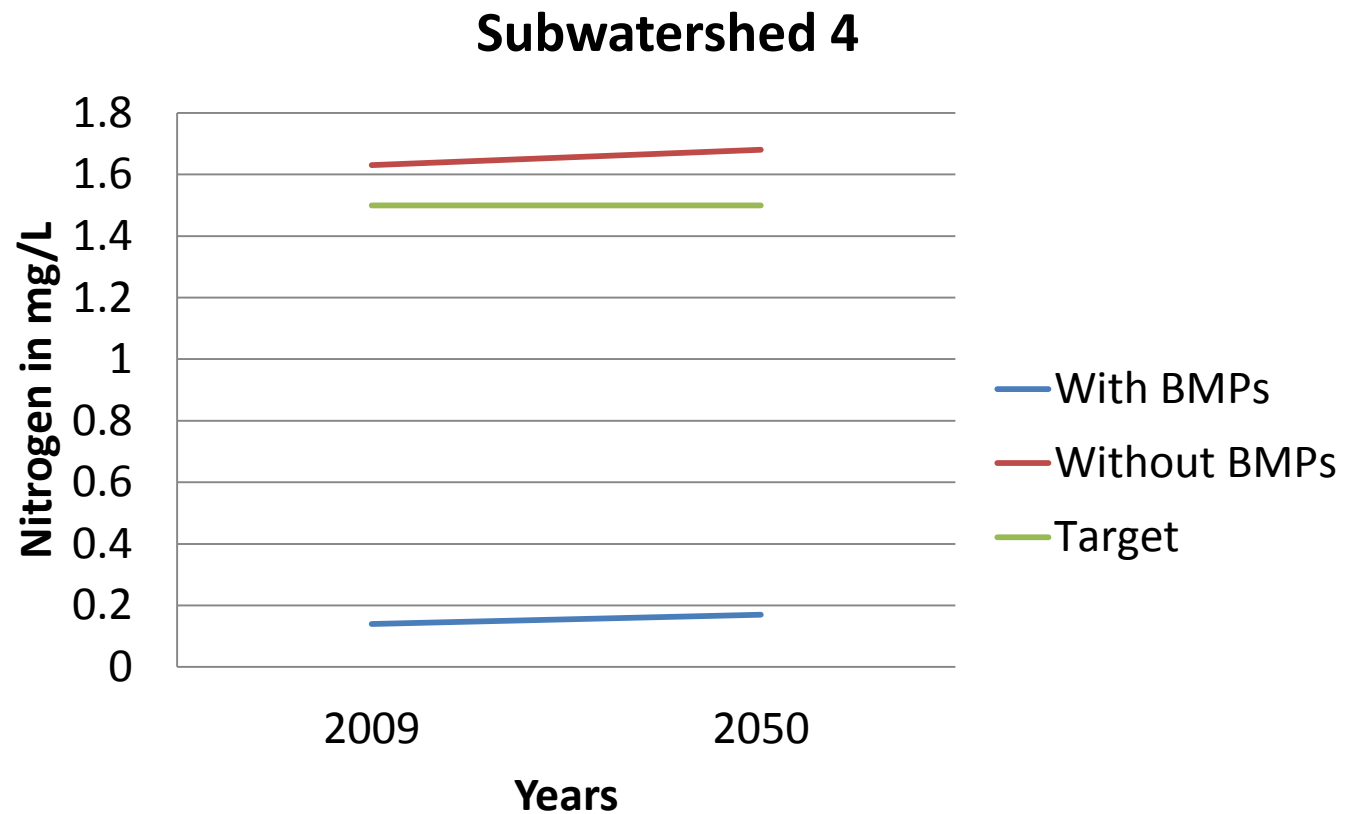


Figure 3.2. Primary growth areas in the Cypress Creek watershed.

Watershed and sub-watershed criteria





HIGH

LOW

| Highest Prioritization 11-23 |
|--|
| SGMA/Groundwater Protection Strategy |
| Water Conservation Pricing Strategies |
| Water Conservation Program for Water Providers or Municipalities |
| Second Highest Prioritization 6-10 |
| Urban Wildlife Management -- Deer |
| Riparian Buffers |
| Water-intensive Turf Grass Ordinances |
| Groundcover Establishment -- Agricultural |
| Parking Lot Pervious Design Strategies |
| Xeriscaping/Nativescaping |
| Engineered Swales |
| Conservation Easements |
| Karst Feature Protection Measures |
| Comprehensive Stormwater Assessment |
| Purchase of Development Rights |
| Landscape Mulching |
| Medium Prioritization 2-5 |
| Rainwater Harvesting Strategies |
| Cypress Creek Land Trust |
| Nutrient & Fertilizer Management |
| Habitat Conservation Areas -- Urban |
| Rock Berms/Gabions |
| Biofiltration/Rain Garden |
| Tree Protection |
| Groundcover Establishment -- Urban |
| Porous/Pervious Pedestrian Walkways |
| Alternative Brush Control -- Prescribed burns |
| Grazing Management Strategies |
| Landowner Incentive Program |
| Pet Waste Ordinance & Stations |
| Low Prioritization 0-1.9 |
| Rock Weirs/Cross-vanes |
| Vegetative Filter Strips |

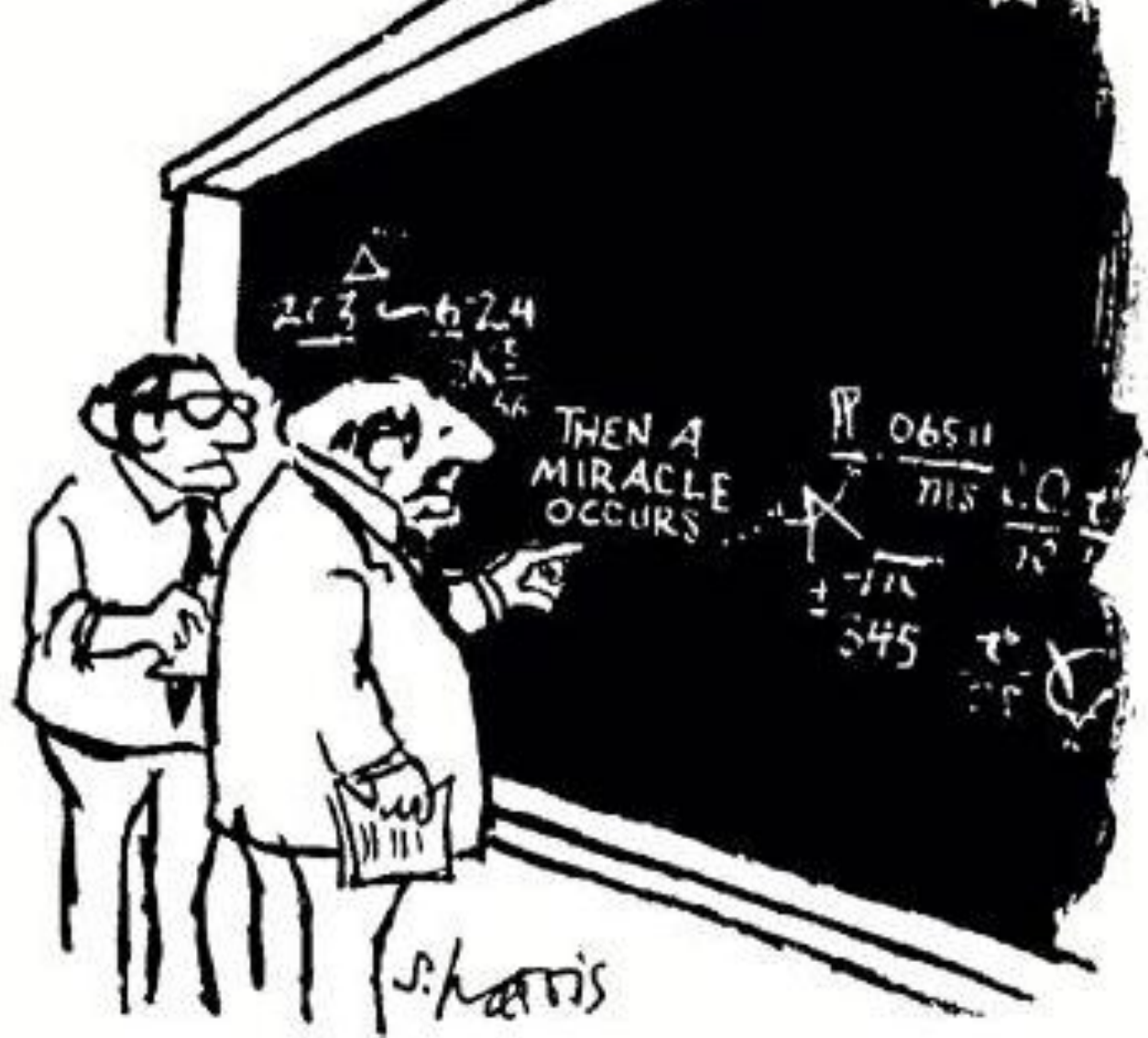
Table 1. Natural Resource Targets for Cypress Creek water quality and quantity

| <i>Water Quality Targets</i> | <i>Target Conditions</i> |
|---|---|
| I. Nitrogen (N) | 1.65 mg/L (Nitrate screening level- 1.95 mg/L) |
| II. Total Suspended Solids ¹ (TSS) | First 5 years @ screening level 5.0 mg/l Years 6-10 4.0 mg/L – Group A Years 6-10 4.5 mg/L – Group B Years 6-10 5.0 mg/L – Group C |
| <i><u>-Parameters of Concern</u></i> | |
| III. Escherichia coli (E. coli) | Single sample- 394 cfu/100mL Geometric mean- 126 cfu/100mL |
| IV. Dissolved Oxygen (DO) | 24-hr mean values above 6.0 mg/L Grab sample values above 4.0 mg/L |
| V. Flow | Jacob's Well- 3.8 to 6.4 cfs Blanco Confluence- 4.11 to 5.1 cfs Cypress Creek- 4 to 6 cfs |
| VI. Impervious Cover | 15-20% |
| VII. Fats, Oils & Grease | No more than a 300-500% increase from current conditions |

¹ TSS targets are specific to vulnerable tributary subwatershed groups detailed in Element B

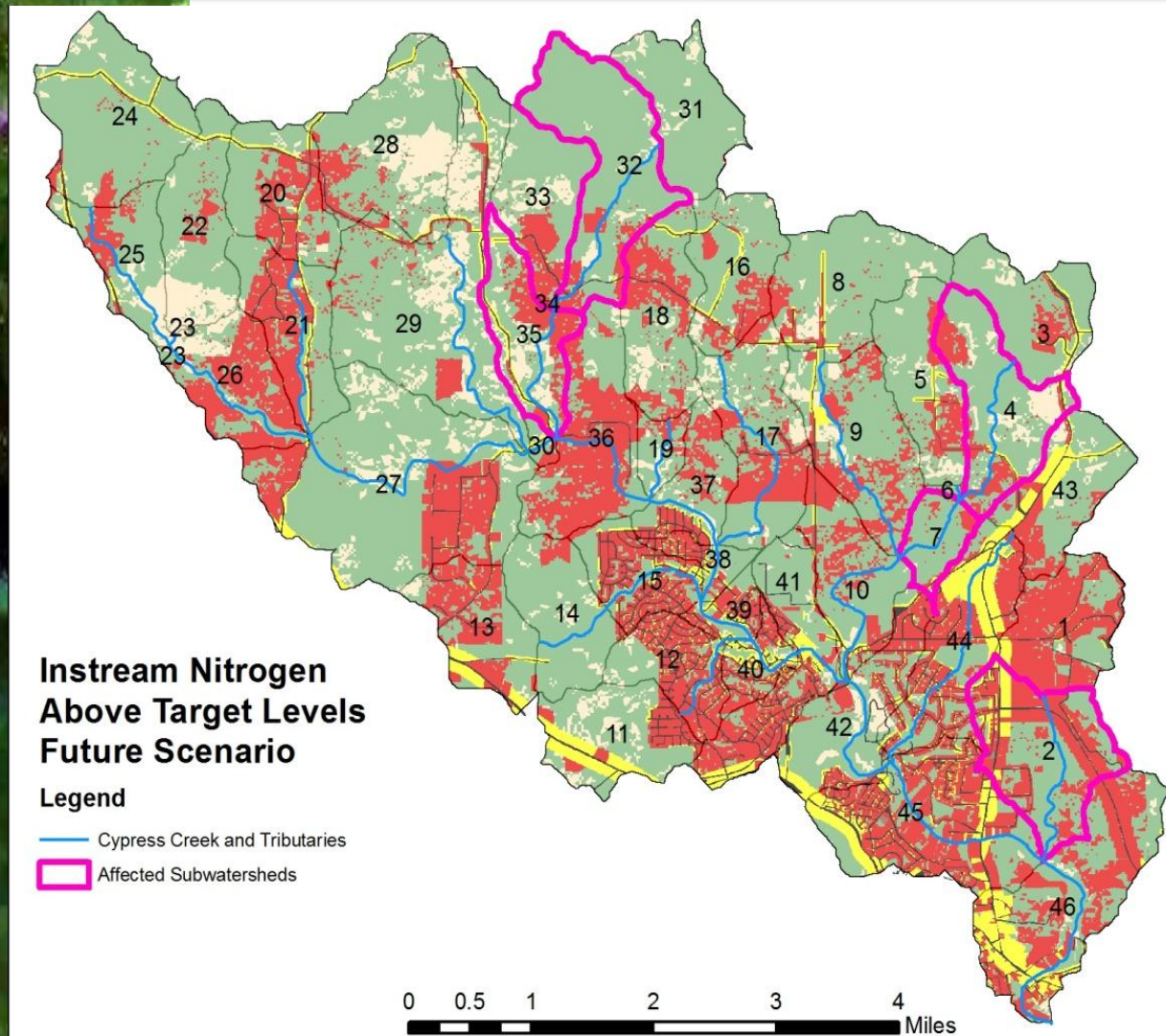
STEP 2

(Phase 3)



"I THINK YOU SHOULD BE MORE EXPLICIT
HERE IN STEP TWO."

NEXT STEPS – “Interim Period”





Current Challenges

- Funding the WPP Priorities
- Funding additional NEEDED studies
- Funding additional data analysis
- Operationalizing the WPP
- Transition of leadership



Additional activities

- Ground/Source Water Protection Strategy – *Preserving Flows*
- Artesian and recharge zones for the local springs
- Developing a localized groundwater/surface water interaction model
- How best to use the emerging science for decision-support

Thanks to our partners!



Contact Info



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