UNRBA Nutrient Credit Development Project

BOD Meeting

January 2016

January 27, 2016

Summary of Status for Credit Development (Task 1)

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Summary of Task 1 Budget and Work Completed

- Contracted budget for Task 1: $187,681
- Remaining budget as of December 31, 2015: $19,997 (~11 percent)
- Work completed:
  - Trapping analysis and delivery factors
  - Screening analysis of 55 measures
  - Four practice standards nearly complete with two under review by DEQ
  - Three technical approach documents in development
  - Two years of project management and status updates

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Multiple Meetings that were not Originally Budgeted

- Additional meetings have been critical to overall success of the project
  - Get DEQ Planning and DEMLR on the same page
  - Understand policy issues related to recently passed Rules and upcoming rule revisions (e.g., the buffer protection and mitigation rules)
  - Work through technical issues with SMEs (twice as many calls and meetings than were budgeted, with more scheduled for 2016)
  - Workshops related to rural practices and nutrient trading

Anticipated Project Extension Thru 2016

- Existing budget for project management and meeting attendance expires February 2016
- Agency processes affecting the credits project
  - Rules Review process and the impacts to the UNRBA Credit Tool
  - JFSAT Tool revisions and impacts to example write-ups in practice standard documents
  - DEMLR recently initiated a Stormwater Control Measures Credit Team that is charged with revising the crediting methods for three of our practices

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Request for Budget Increase

- Cardno and the Center are requesting a budget increase of $20,000
  - Accommodate the project extension through December 2016
  - Continue to participate in meetings with agency staff and SMEs on remaining practices: buffers, land conservation, and elimination of illicit discharges
  - Incorporate technical input from SMEs and draft the remaining practice standard documents

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Practice	Technical Approach	Practice Standard (Credit Document)	Broader Review	Percent Complete
Level spreader filter strips	Finalized	In review by agency	February	95
Infiltration devices	Finalized	In review by agency	February	95
Bioretention	Finalized	Drafting	February/ March	85
Soil amendment and PANM	Finalized	Drafting	March	85
Livestock exclusion	Finalized	Drafting	April	80
Land conservation	In development	---	April/May	60
Buffer restoration (urban and rural development)	In development	---	May	50
Removal of illicit discharges	Awaiting local data	---	June	10

Task 2: Status of Work for Credit Calculation Tool

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Task Force for Tool Development

- Two meetings with the Task Force to receive feedback on the draft tool
- CWP is making additional changes based on comments
- Subsequent development will occur in 2016
  - Consistent with Rules Revisions and reporting requirements
  - Integrate credit development from Task 1 for non structural practices
  - Assess need for supplemental features as we progress

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Discussion, Questions, and Feedback Welcome

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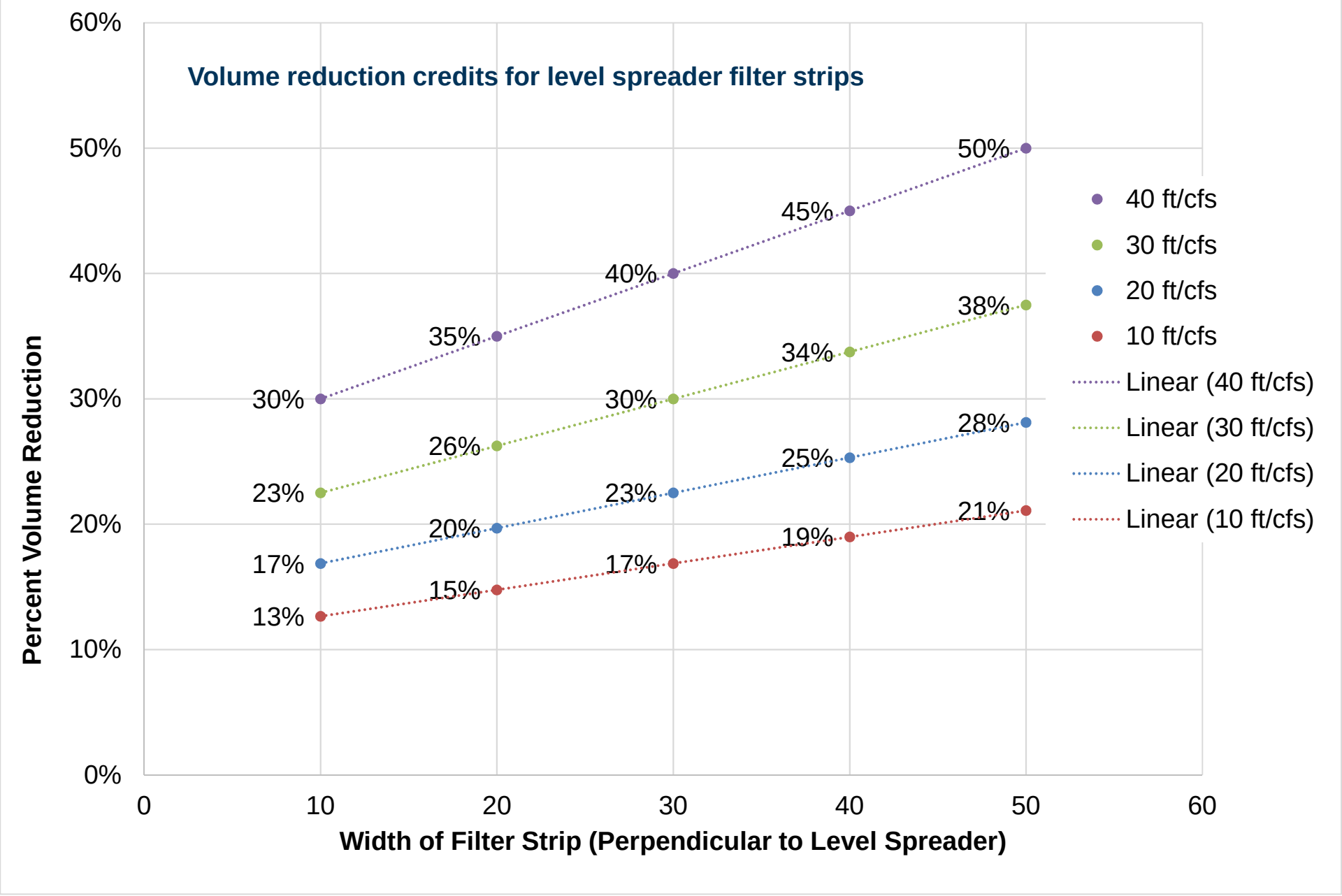

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Table 2. Nutrient Reductions Achieved by Infiltration Devices

Design Storm Size (inches per 24 hours)	% TP Reduction	% TN Reduction
0.5	57	57
0.75	70	70
1.0	79	79
1.25	85	85
1.5	90	90

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Screen Capture of HyPer Tool Input for Bioretention

- Soil Media Depth
- Depth to IWS
- Average Surface Ponding
- Surface Storage Ratio
- Drainage Coefficient
- Bioretention Cell Area : Drainage Area Ratio

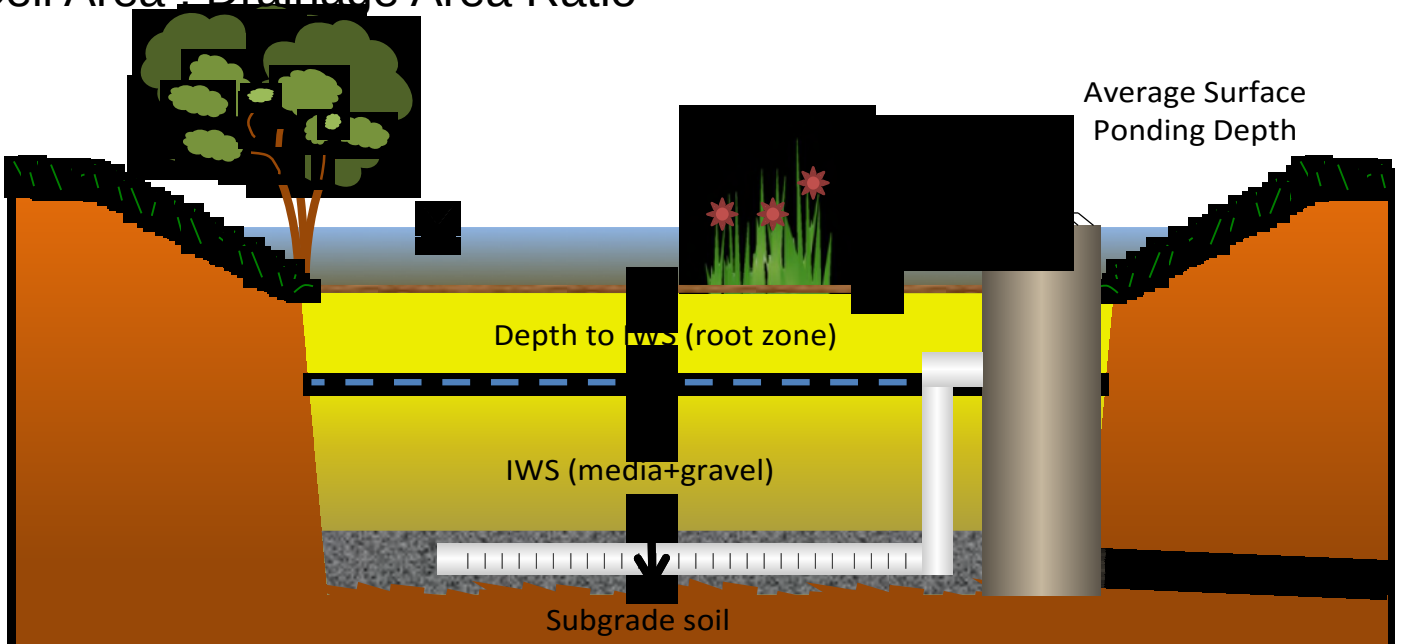

Table 2. Volume Reduction Credits Based on Site Development Age and Soil Improvement Depth

Depth of Improvement (in)	New Development	5 year	10 year	15 year	20 year	25 year	30 year
3	23	19	15	12	8	4	0
5	35	29	23	18	12	6	0
8	49	41	33	25	16	8	0
13	65	54	44	33	22	11	0