





### Northern Virginia Stream Restoration Bank Reston Status and Wiehle South Final Plan

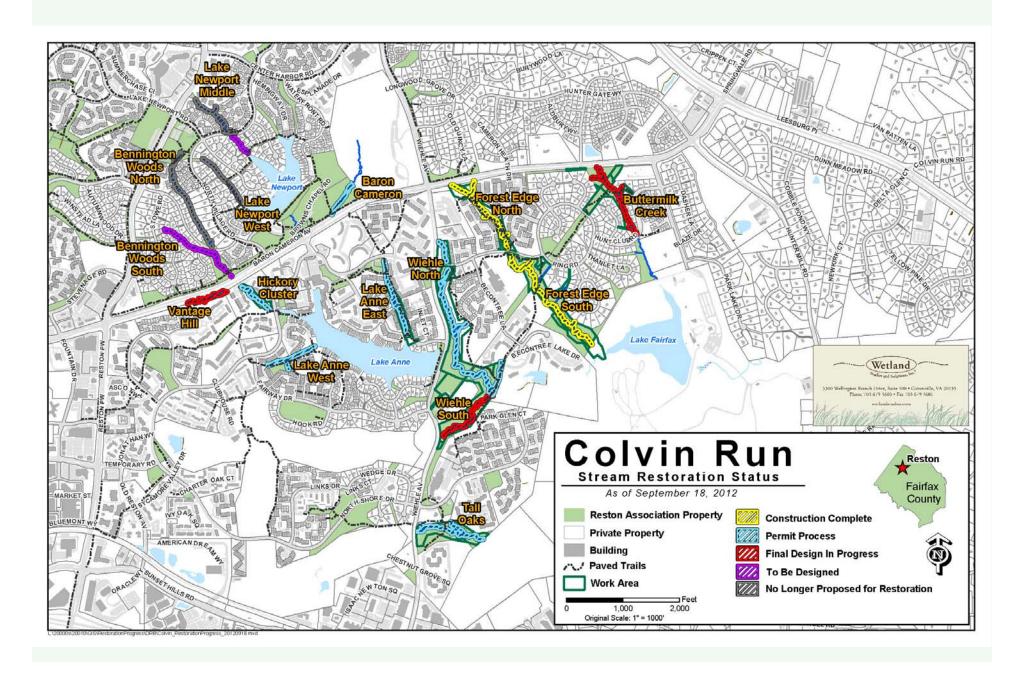
**September 18, 2012** 

**Presented by Kelly Petrey** 

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive · Suite 100 · Gainesville · Virginia 20155
www.wetlandstudies.com



#### **Reston Status**



### **Lake Anne West**

### Waterview and Sunderbriar Clusters September 8, 2012 Storm Damage

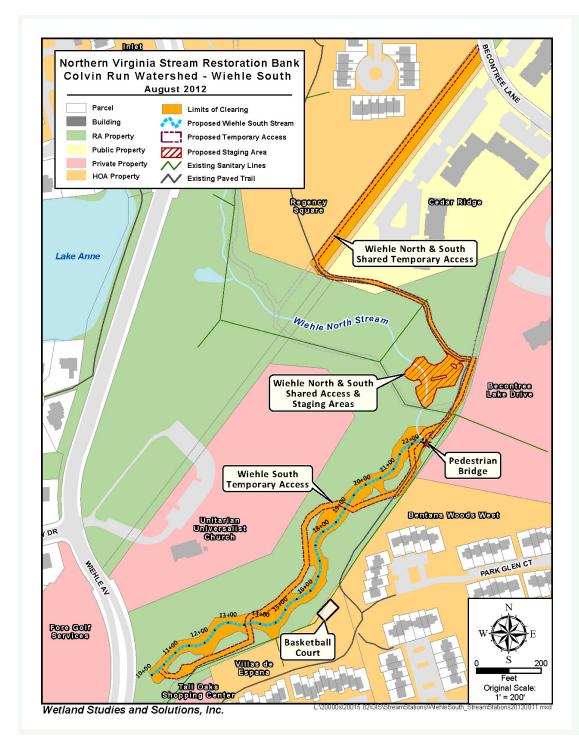






### Wiehle South Final Plan





## Wiehle South – Final Plan

Preliminary Plan approved – February 2012 No changes from the Preliminary Plan

#### **Community Events:**

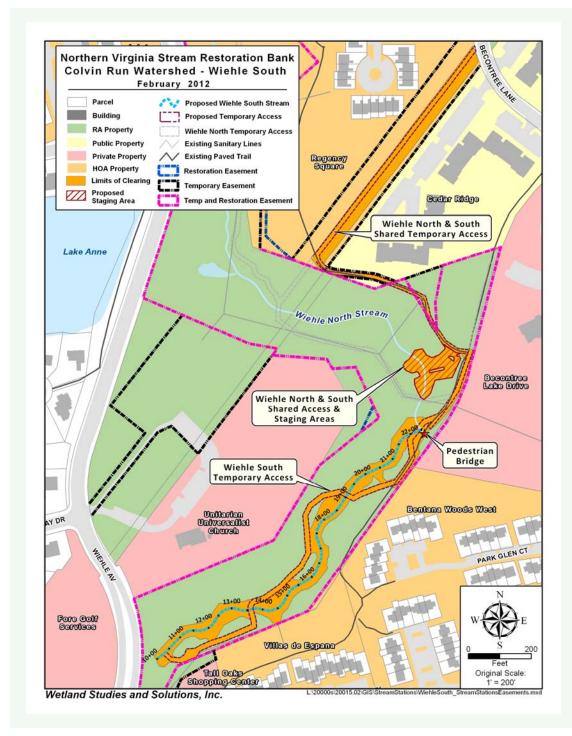
• Community Stream Walk August 11, 2012

#### Proposed Construction Access & Staging:

- Access from Becontree Lane through Gas Easement and paved trail
- Staging Area shared with Wiehle South Stream Project
- Access crosses stream twice to limit tree removal

#### Channel Length & Dimensions:

- Bankfull Width = 22'
- Bankfull Depth = 1.7'
- Restored Length = 1,238'



### Wiehle South – Easements

- 1. Shared access and staging with Wiehle North Restoration Project (reduces land disturbance and tree removal)
- 2. Easements for access all recorded:
  - Regency Square Cluster (gas line)
  - Cedar Ridge Paved trail from gas easement
- 3. Easements for staging and proposed stream restoration all recorded:
  - Reston Association property only



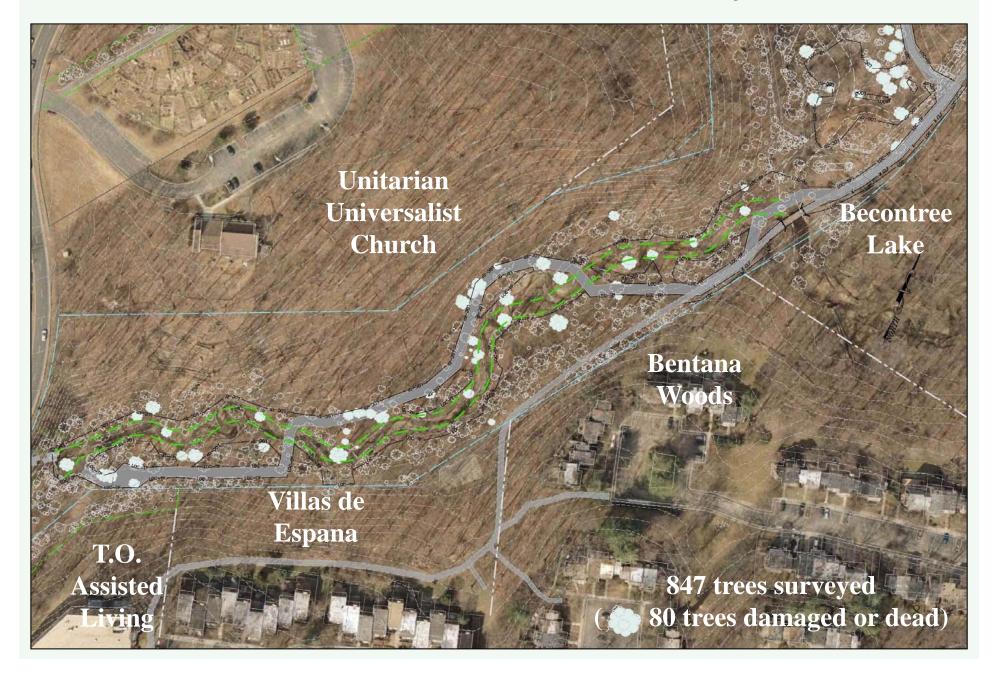


### F0 Tornado Damage (April 2011)





### Wiehle South – Tree Survey

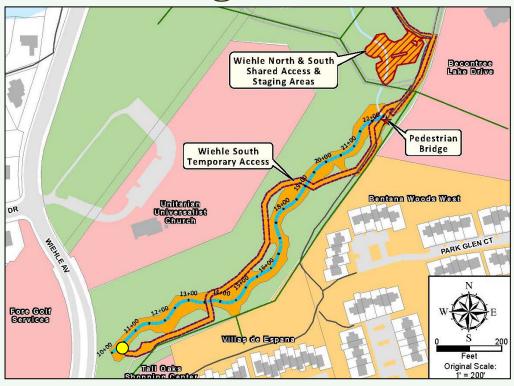


### h Bank outh h Stream Access Regency Square Gedar Ridge Wiehle North & South Shared Temporary Access Wiehle North Stream Wiehle North & South Beconfree Shared Access & **Staging Areas** e South

# Wiehle South – Access & Staging





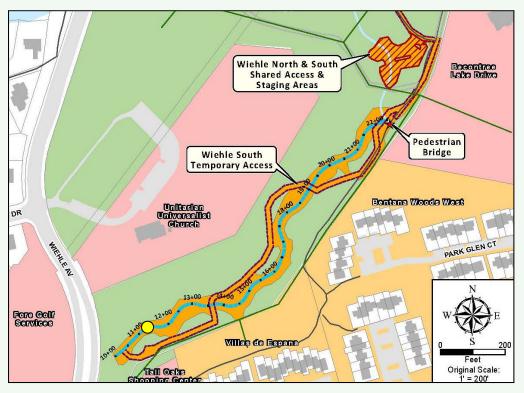


- All trees are down in the small island immediately downstream of the culvert.
- Large drop at concrete trickle ditch.







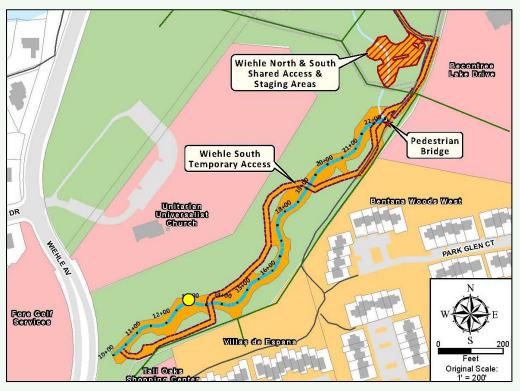


- Vertical banks typical throughout reach.
- Eroded bank at meander debris jam accumulated since tornado damage.







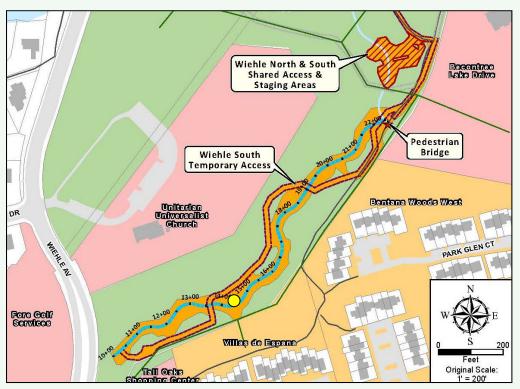


- Very tight meander and another tall, eroded bank.





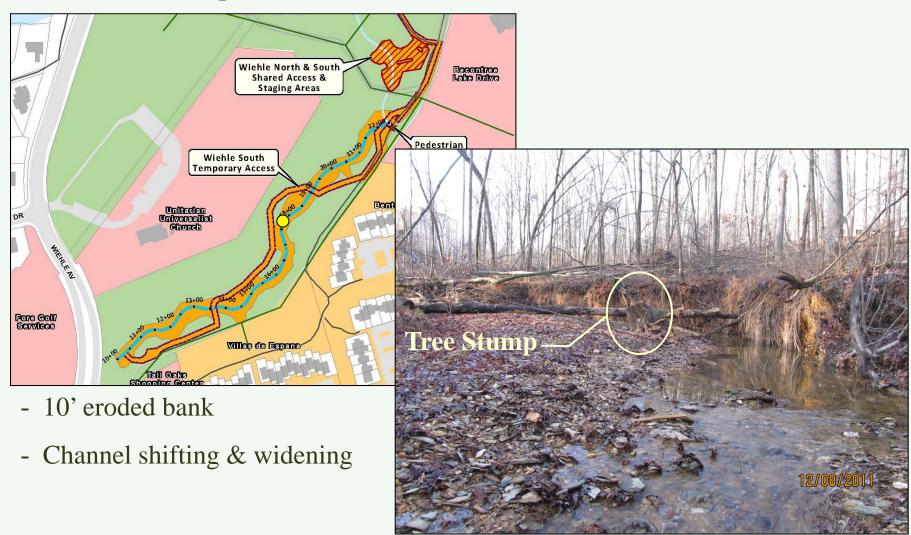


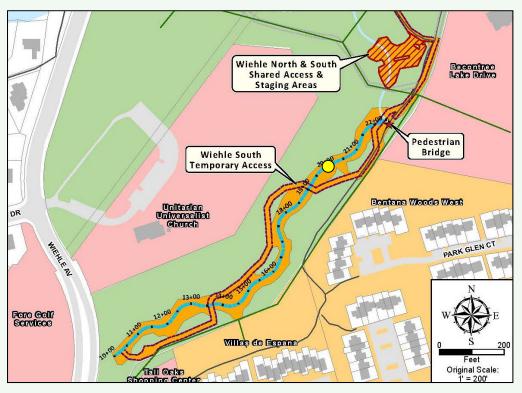


- Tree fall (left bank) at disconnected culvert outfall on the right bank.









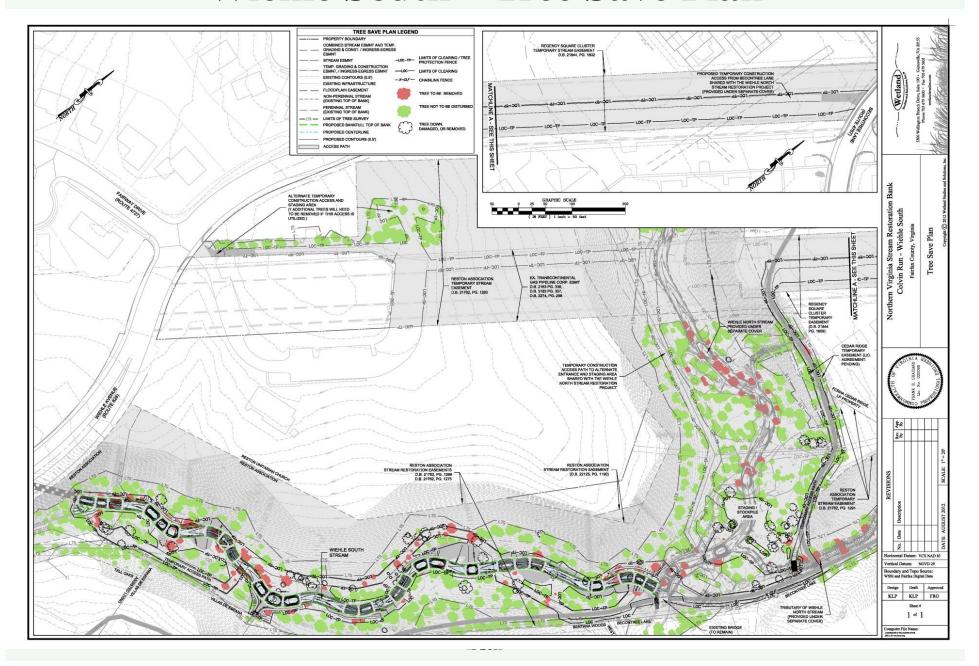
- Abrupt tie-in with Wiehle North at metal bridge.
- Bridge will not be replaced.







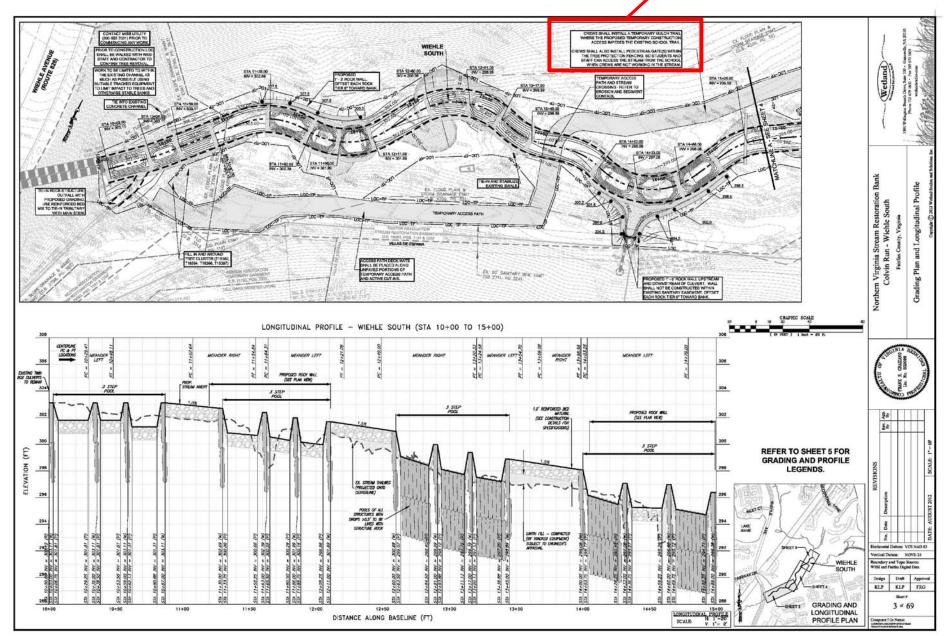
### Wiehle South - Tree Save Plan



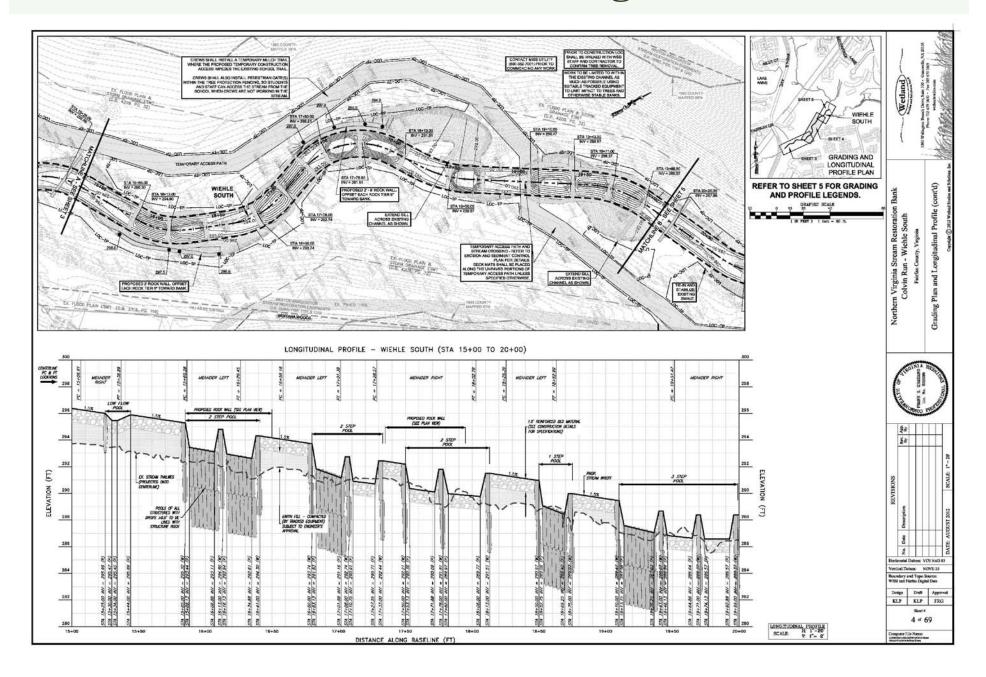
### Wiehle South – Grading/Profile

#### Added notes

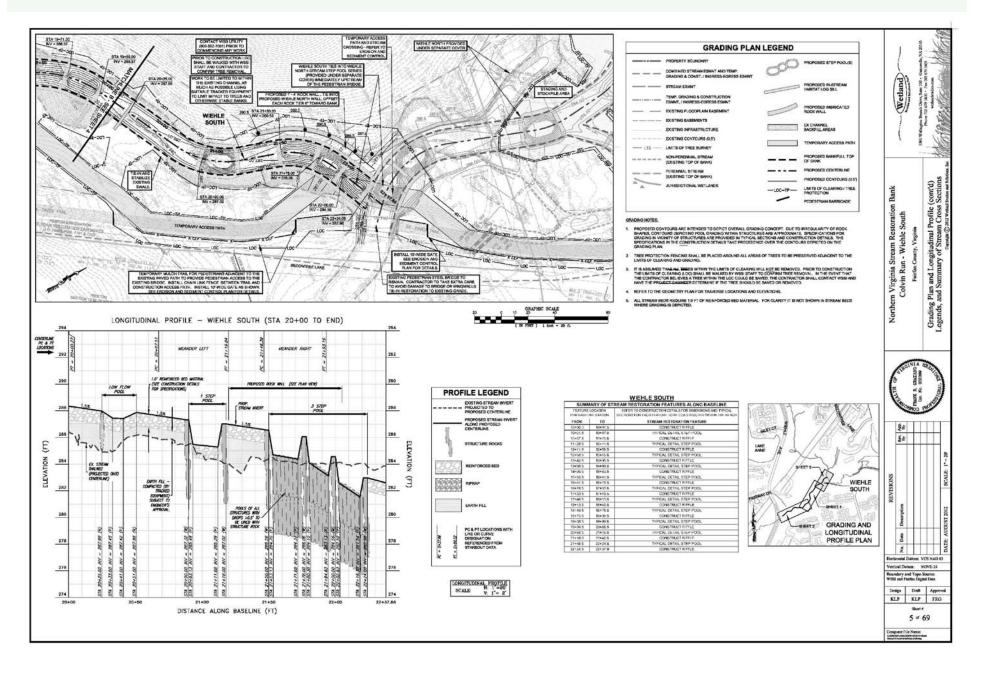
- 1. Keep school loop trail open; and,
- 2. Install gates for students and teachers to access stream



### Wiehle South – Grading / Profile



### Wiehle South – Grading / Profile



## Wiehle South's Tree Inventory

### - No changes from Preliminary Plan -

#### TREE INVENTORY SUMMARY COLVIN RUN - WIEHLE SOUTH

DIAMETER	STATUS				
	TBR <sup>1</sup>				
(INCHES)	(LIVE)	(DEAD / FALLEN)	(WIEHLE NORTH) <sup>4</sup>	DND <sup>2</sup>	TST <sup>3</sup>
4-5" (Sapling)	27	8	10	163	208
6-9" (Pole)	36	12	11	208	267
10-17" (Small)	16	16	8	164	204
18-29" (Medium)	17	12	8	114	151
30"+ (Large)	0	2	0	15	17
	96	50	37		
TOTAL	146		37	664	847

<sup>&</sup>lt;sup>1</sup> TBR means to be removed.

(183)

Compiled 01/10/2012

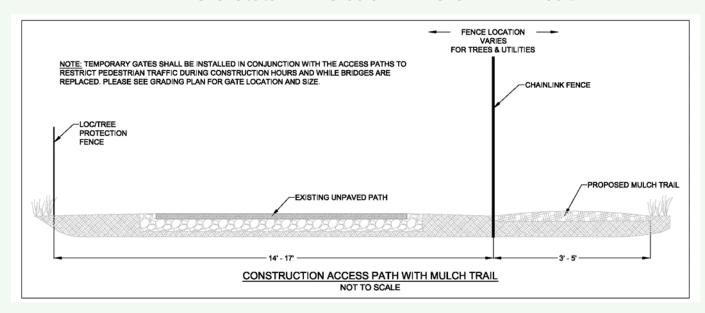


<sup>&</sup>lt;sup>2</sup> DND means do not disturb.

<sup>&</sup>lt;sup>3</sup> TST means total surveyed trees.

<sup>&</sup>lt;sup>4</sup>Trees under TBR-WIEHLE NORTH were previously proposed for removal under the *Northern Virginia Stream Restoration Bank - Colvin Run Wiehle North Stream Restoration Plan* (provided under separate cover). These trees are included herein as the Wiehle South plan proposes to use the Wiehle North lower staging area (see plan for details). 11 of the 37 trees are either dead or fallen.

### **Access Road Deck Mat**







### Questions



