



April 3rd, 2024

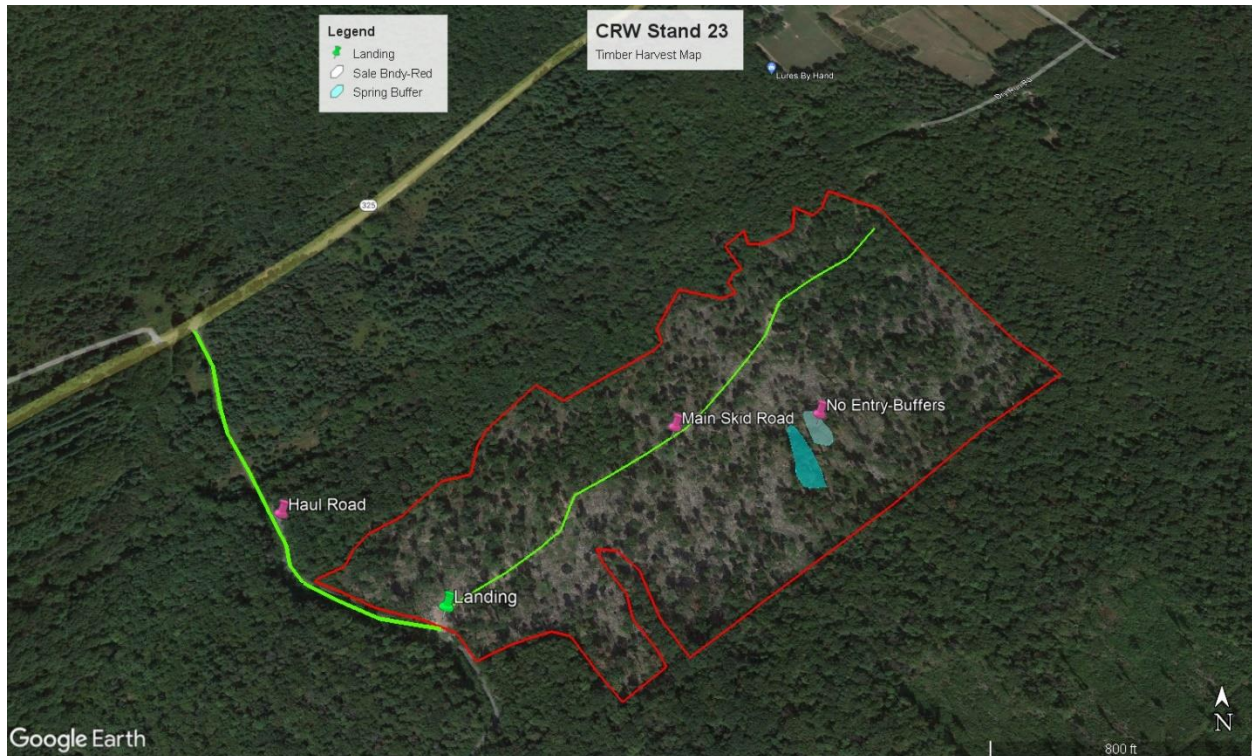
Appalachian Forest Consultants, LLC

Invites Your Bid on the...

Capital Region Water – DeHart Property – Timber Sale (Management Unit 23)

Located in:

Rush Township, Dauphin County, PA
Approximately 73.5 Acre Harvest Area



Highlights of this Timber Sale:

- Approximately 73.5 acre harvest area
- Approximately (10 BAF prism cruise) 410,000 bf sawlogs
- Approx. 193 mbf tulip poplar, 99 mbf red oak, and over 47 mbf white oak estimated
- FSC certified under TNC Group Certification as NC-FM/COC-000238 FSC 100%

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Estimated Volumes per Acre and Total – Scribner Log Rule, FC 78...

Species	Bf volume/acre	Total estimated Saw volume
Red Maple	325.3	23,910
Scarlet Oak	163.8	12,039
Chestnut Oak	356.2	26,181
Dead Chestnut Oak	106.2	7,806
Red Oak	1,350.7	99,276
Yellow Poplar	2,631.2	193,393
White Oak	648.3	47,650
Total	5,581.7	410,255
Acres	73.5	
Avg. dbh (all species)	19.8	

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Diameter Distribution Details...

Overstorey Species x Diameter Table: Net board-foot volume, Scribner (live and dead trees)

Net board-foot volume, Scribner (live and dead trees) STOCK TABLE

	all species	YP	NRO	WO	CO	RM	SO
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	42.5	0.0	42.5	0.0	0.0	0.0	0.0
12	125.2	0.0	31.8	56.8	0.0	36.6	0.0
14	534.8	113.1	181.3	146.8	0.0	93.6	0.0
16	590.6	271.3	157.2	46.7	75.1	40.4	0.0
18	683.4	220.2	147.5	123.7	192.0	0.0	0.0
20	652.1	413.4	0.0	65.6	86.8	86.4	0.0
22	1016.3	426.3	373.4	137.4	0.0	0.0	79.2
24	1068.6	530.4	289.9	71.4	108.6	68.3	0.0
26	358.3	193.5	80.1	0.0	0.0	0.0	84.6
28	183.0	183.0	0.0	0.0	0.0	0.0	0.0
30	327.1	280.1	47.0	0.0	0.0	0.0	0.0
SAPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POLE	42.5	0.0	42.5	0.0	0.0	0.0	0.0
SM SAW	1250.6	384.3	370.3	250.3	75.1	170.6	0.0
MD SAW	2351.8	1059.9	520.9	326.6	278.7	86.4	79.2
LG SAW	1937.0	1187.0	417.0	71.4	108.6	68.3	84.6
Total	5581.8	2631.2	1350.7	648.3	462.4	325.3	163.8
Percent		47.1	24.2	11.6	8.3	5.8	2.9

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Important Information for Bidders:

- Capital Region Water reserves the right to reject any and all bids.
- Buyer will be required to provide the following prior to start of harvest:
 - **Performance bond** of \$10,000.00 (ten thousand dollars) at signing of timber sale agreement
 - **Insurance, Safety, Erosion Control Plan** requirements (below)
- **Payment Schedule** – Timber volume scale sheets, pulpwood weigh slips, and corresponding payment check must be forwarded to Appalachian Forest Consultants, LLC (at above address) on the 1st and 15th of each month; payment check(s) made out to “Capital Region Water.” This is a “pay as you go” or “pay per unit” timber sale process.
- Buyer will have **14 months** from signing of timber sale agreement to complete all harvest and clean-up activities.
- **Sale Tour** – Guided tour of sale area will be conducted **April 24th, 2024**. Meet at DeHart Reservoir parking lot along Rt 325 at 10:30 am. Please confirm your attendance by calling Mike Wolf at (814) 659-1280. Tour will only take place if interested parties call to confirm attendance. This is a secure facility. If you are not able to attend the sale tour on April 24th please contact Mike Wolf to discuss alternative arrangements.
- **Bid Submission** – All sealed bids must be mailed to: Capital Region Water, c/o Tanya Dierolf, Chief Strategy Officer, 3003 N. Front Street, Harrisburg, PA 17110. Print “Timber Sale Bid” on outside of envelope. No fax or email bids will be accepted. **Capital Region Water will open bids at 1:00 pm on Wednesday, May 22nd, 2024**. If interested in the bid opening, contact Tanya Dierolf at tanya.dierolf@capitalregionwater.com for instructions to join virtually. Bid results will be posted on Capital Region Water’s website at <https://capitalregionwater.com>.
- A 3-page Harvesting Plan (see pages 7-9) contains important information about this timber sale. Please familiarize yourself with the 3-page Harvesting Plan before you submit the bid sheet. You will notice that the Harvesting Plan details haul road/landing improvement work that is expected of the Buyer.

REQUIREMENTS for INSURANCE / SAFETY / EROSION CONTROL PLAN

INSURANCE

Prior to signing the forest products harvest agreement with Capital Region Water, the successful bidder must provide: a certificate of public liability insurance naming Capital Region Water and Appalachian Forest Consultants, LLC as “Additional Insured”, with a carrier acceptable to CRW, with limits of not less than one million (\$1,000,000) dollars for injury or death to one person, two million (\$2,000,000) dollars for injury or death to more than one person, and one hundred thousand (\$100,000) dollars for property damage. Bidder shall further carry adequate workmen compensation and occupational disease coverage, as provided under the laws of the Commonwealth of Pennsylvania, upon all employees brought upon the premises. Bidder further agrees to indemnify, protect and save harmless Capital Region Water and Appalachian Forest Consultants, LLC from any and all damage, cost or expense arising out of or for injuries to persons or damage to property occasioned by or resulting from or growing out of timber harvest operations covered this Agreement. Bidder also agrees to waive all rights of subrogation.

SAFETY

Prior to signing the forest products agreement with Capital Region Water, the successful bidder must provide: A forest products harvesting hazard analysis and risk assessment, along with a health and safety plan.

EROSION CONTROL

After familiarization with harvest area(s), and prior to felling, skidding and hauling forest products, the successful bidder will prepare and provide, (to Appalachian Forest Consultants, LLC): a comprehensive soil erosion / sedimentation control plan, along with a site reclamation plan.

Capital Region Water – DeHart Property – Timber Sale

Bid Form for Timber Sale MU 23:

Sawlogs - all grades averaged				
species		product	Bid \$ Price/mbf (fill in below)	Tree Scale for Bid - Must Fill In (Doyle, Scribner, International 1/4")
YP	yellow poplar	sawlogs		
NRO	red oak	sawlogs		
WO	white oak	sawlogs		
CO	chestnut oak	sawlogs		
RM	red maple	sawlogs		
SO	scarlet oak	sawlogs		
Misc	Misc. Hdwd	sawlogs		
ALTERNATIVE: You can choose to leave all the above blank and submit a LUMP SUM BID Price here: \$ _____				
Terms of lump sum bid would be 50% due at signing of contract and remaining 50% due prior to initiation of harvesting				

on behalf of _____ (Company Name) _____ (Phone Number)

I realize that should I be the successful bidder, I will have 10 days from notification to execute a timber contract or forfeit the opportunity.

(signature)

(print name)

(contact phone number)

(title)

All bids should be submitted using this Bid Form – Follow Bid Submission instructions on Page 4.

Questions:
Call Mike Wolf
Phone: (814) 659-1280
Email: mike.wolf.afc@gmail.com

CAPITAL REGION WATER

STAND 23

HARVESTING PLAN

TREATMENT GOAL: Treatment in Stand 23 will be an Overstory Removal from a Shelterwood/Salvage conducted over 3 years ago. The focal point of this treatment is to remove the majority of the Seed Trees of residual timber and release the advanced desirable regeneration of Tulip Poplar, Oak species, and Red Maple. Residual basal area will range from 5-10 square feet, consisting of reserved conifers (Hemlock and White Pine), mast producing trees (scattered Oak, Hickory, and Gum), noted den trees with cavities, and bark-free snags for wildlife diversity.

CURRENT CONDITIONS: The harvest area for Stand 23 consists of 74.2 acres (73.5 acres not including buffers) of North Slope Oak Heath and Oak/Hardwood that was previously treated with a Shelterwood Salvage 3+ years ago. Following the original treatment, a few Red Oak and additional Chestnut Oak residual trees have died, likely due to repeated Anthracnose and Gypsy Moth events on the Chestnut Oak, and possible climate related effects on the Red Oak. Most Hemlock and White Pine was reserved in the past timber harvest, and Hemlock (especially midstory sized Hemlock) has improved in health significantly due to increased sunlight and exposure to cold winds, both of which have been shown to reduce impacts from Hemlock Woolly Adelgid. Approximately .75 acres within the timber sale boundary for Stand 23 consists of buffer zones for spring seeps where harvest operations are closed. These buffer zones are identified on the map and field location with Horizontal Red Bands facing out from the buffer zone. Harvesting of trees and equipment use within these zones is prohibited.

Basal area of timber to be harvested is 46.5 square feet/acre, dominated by Yellow Poplar, Red Oak, White Oak, Chestnut Oak, Red Maple, and Scarlet Oak. Another 5-10 square feet of Basal area per acre will be reserved in species noted above.

Regeneration is dominated by advanced Yellow Poplar and Sweet Birch, much of which is three feet tall or greater. Desirable Seedlings observed through a recent Silvah cruise consist of the following per acre: 16,543 (Yellow Poplar), 229 (Black Cherry), 114 (Conifer spp.), 943 (Established Oak), 57 (Competitive Oak), 1,943 (Other Desirable, being Red Maple, Black Gum, Sassafras, Aspen). Oak is scarce on the northern half of the sale, but does increase slightly in abundance on the southern half. Yellow Poplar and Aspen occur most abundant on the northern half, with Sweet Birch present throughout. Fifty Seven percent of plots contained advanced Sweet Birch competition. Another 25% contained Mountain Laurel. Nearly 3% contained Witchhazel. Mountain Laurel present is less than 2 feet tall and not inhibiting desirable regeneration. Much of the Yellow Poplar regeneration is overtopping or staying with the birch. Oak, Red Maple, Gum, and Sassafras, where found, are showing signs of deer browse. Overall, 66% of plots are stocked with desirable established regeneration, and 60% are stocked with competitive regeneration, mostly in Yellow Poplar and Aspen, with lesser amounts of Oak, Red Maple, Gum, and Sassafras. It is likely this stand will revert to a dominance of Yellow Poplar and Birch in the next stand, at least until the birch growth slows relative to other species in/around year 40. Following the planned Overstory Removal, if possible, this stand could be a candidate for a Crop Tree release on desirable competitive Poplar, Oak, and other desirables to increase species diversity and reduce birch

overabundance. Surface rock is present throughout much of the stand in bands or small areas. Slope is gentle to moderate in most areas.

Japanese Stiltgrass and Mile A Minute vine are scattered in small to ¼ acre sized patches throughout the stand. Japanese Stiltgrass was most abundant. Mile A Minute was identified in two distinct patches in the southern third of the stand. The larger patches of these invasives are inhibiting development of regeneration and will be chemically treated prior to harvest. All Conifer species and hickory will be reserved in the harvest, along with reserve painted stems of White Oak, Scarlet Oak, Red Oak, Red Maple, and Black Gum.

HARVESTING: Access to the sale area from the east is 2.2 miles west on Route 325 from the intersection of Route 325 and Gold Mine Road, located just south of Tower City. Coming from Route 322 on the west, access to the sale area is 22.4 miles east on Route 325 from the intersection of Routes 325 and 225, just north of the town of Dauphin. The sale is located on Caretakers Road, a local use, gated stone road owned by the PA Game Commission. Caretakers Road is a shared access road between the Game Commission and Capital Region Water. Proceed through the gate on Caretakers Road ¾ of a mile uphill to the first log landing on the left. This landing will serve as the primary landing for harvesting Stand 23. One established landing will be used, with main skid trails easily identified within. Caretakers Road will be the primary haul road to Route 325. Adding rock for landing stabilization and haul road performance will be on an as needed basis and determined in consultation with the Forester. The sale area in Stand 23 is bounded by a single horizontal band of red paint and stump mark, with double bands indicating locations where the boundary corners to a different direction.

Within Stand 23, all trees 6" and greater are to be felled excepting all Hemlock, Pitch Pine, White Pine, and Hickory and any tree marked with a single spot of red paint on the north and south sides of the tree (and corresponding stump mark). Standing dead snags with 50% or greater bark **remaining** on the bole of the tree are to be felled and may be utilized by the Buyer. Standing dead snags with 50% or greater bark **removed** are to be retained as is, unless they pose a hazard to the harvest operator, in which they can be felled but retained at the felling site. Two buffer zones are located in the central portions of the Stand, bounded by a horizontal red band or spot (on saplings) with corresponding stump mark. These spring seep buffer zones are not to be entered for any reason. Skidding of trees must work around these zones and back to landings. No harvest of any kind or equipment access is allowed inside the buffer zones. All marked trees (red paint spot) as well as reserve conifer and hickory are to remain with skinning damage kept to a minimum.

It is estimated than an average of 5,581 board ft/acre of sawtimber (Scribner, FC 78) is to be removed from Stand 23, consisting of Yellow Poplar, Red Oak, White Oak, Chestnut Oak, Dead Chestnut Oak, Dead Red Oak, Red Maple, and Scarlet Oak. Total estimated volume to be harvested in the stand is estimated at 410,251 bd/feet of sawtimber. Volume estimates tallied used the Scribner Log Rule FC 78, with a variable plot sample taken. Seventeen (17) plots were taken in Stand 23. The data was analyzed using the SILVAH program. This is a SAWLOG ONLY sale, pulpwood/firewood removal will not be allowed – pulpwood size and/or quality trees, along with tops of sawlog trees will be left where felled.

EXPECTED FUTURE CONDITIONS: Stand 23 will result in a young, well stocked stand dominated by saplings of Yellow Poplar, Birch, Oak Species, Red Maple, Black Gum, Sassafras, Hemlock, and White Pine.

HARVEST SEQUENCE: Improvements to existing landing should be completed prior to harvest entry. The winning bidder will be required to make landing improvements, per Forester's recommendations (see below) before harvesting may begin.

HAUL ROAD/LANDINGS CONSTRUCTION: The haul road is currently in good condition and is maintained by the PA Game Commission for public access in hunting seasons to the Game Lands located at the southern terminus of Caretakers Road. No additional stone needs are noted for the harvest of Stand 23 prior to the harvest on the haul road. It is anticipated that as stone is displaced through hauling, additional stone (2RC) will be necessary in small amounts to fill in dips or bare spots on the haul road. One load of #3 rock will be necessary to place in front of the landing at the entrance to the haul road to remove mud from truck tires prior to hauling any loads from Stand 23. Improvements are as follows:

LANDING 1: Add 1 load (approx.. 22 tons) of #3 rock to the front of the landing between the landing and Caretakers Road to clean mud off truck tires prior to entering Caretakers Road. Grade Rock to 6" depth. Bidders should consider the following estimates prior to submission of bids:

a: Time involved: 2 hours

b. Equipment: D6 dozer, Dumptruck

b: Materials: Operator Time in Dozer \$80/hour x 2 hours-\$160.00, 1 truckload of #3 rock @\$750/load =\$750.00.

Total Cost estimate: \$910.

General Location Map:

