TIMBER SALE NOTICE AND PROSPECTUS
City of Coos Bay 2014 Timber Sale

Notice is hereby given that the City of Coos Bay (City) will receive sealed bids at the offices of Stuntzner Engineering & Forestry, 705 South Fourth Street, Coos Bay, Oregon, 97420, until 1:30 p.m., **Friday, March 7th, 2014**, for the sale of approximately 2,711 MBF of designated timber. The City of Coos Bay is the designated agent and will be responsible for administering the timber sale through Stuntzner Engineering & Forestry, LLC.

The City has requested that the bidders explore three options. The Purchaser can bid one, two, or all three of the bid options. The bid option that will be ultimately chosen will be the one that best satisfies the City's needs:

This Sale is to be bid by three options:
Option 1) Buyer to pay $30,000 down payment to be credited to the final stumpage payment, and finish the logging by March 29th, 2015.
Option 2) Buyer to pay $30,000 down payment to be credited to the final stumpage payment, Make an advance payment of $250,000 by July 15th, 2014 to be deducted from subsequent payments, and finish logging by March 29th, 2016.
Option 3) Buyer to pay $30,000 down payment to be credited to the final stumpage payment, and finish the logging by March 29th, 2016.

LOCATION
This is a recovery timber sale located on the Pony Creek Watershed in Coos Bay, Oregon, in portions of Sections 28 and 29, T.25S., R.13W., W.M., Coos County, Oregon. The designated timber for sale includes all the merchantable timber lying within the timber sale boundaries shown on attached Exhibit "A".

PRESALE INSPECTION
The gate to the Pony Creek Watershed is kept locked by the Coos Bay-North Bend Water Board. A key to the gate can be picked up at the Water Board office on Ocean Blvd. in Coos Bay, or by calling Ron Hoffine at 541-267-3128 to make arrangements for a key to access the unit.

TIMBER VOLUMES AND QUALITY
It is estimated that there are approximately 2,711 MBF, net scale, of timber on the sale meeting minimum standards of the General or Special Scale under the Official Log Scaling and Grading Rules authored by the Northwest Log Rules Advisory Group, as amended to the date of this prospectus, and shall also include "tonnage" pulp wood. The following is a cruise summary by Stuntzner Engineering & Forestry, LLC.

Species	**Net Merchantable Volume**	**DBH - Ht. 32' Logs**	
Douglas fir	1,819 MBF	17	2 ½
Port Orford cedar	193 MBF	15	1 ½
Hemlock	454 MBF	14	1 ½
Spruce	245 MBF	22	2
TOTAL	**2,711 MBF**		

The timber and cruise method are described in the attached cruise report along with volume summaries. Additional cruise information can be obtained by contacting Stuntzner Engineering & Forestry, LLC. The City and Stuntzner Engineering & Forestry, LLC expressly disclaim any warranties or representations as to the actual quality, quantity, or type of timber or to any site conditions, including logging costs and

feasibility. The timber volumes and grades are only estimates and are not to be construed as actual. Prospective bidders should inspect the sale area to determine timber quality, quantity and logging conditions. The timber may not be exported or used a substitution for export timber. The required wildlife trees have been left around the edges of the units and in buffers.

CONTRACT

The City has prepared a timber sale contract and in the event any offer to purchase is accepted, the City will require Buyer to enter into said contract within five days of Council award (No later than April 1st 2014). It is the buyer/contractor's responsibility to review contract language. If the buyer/contractor would like the City to consider changes to this document, a request must be made prior to February 28, 2014. **No changes to the contract will occur after February 28, 2014.** The contract contains additional terms of the sale. Copies of the contract can be obtained via Stuntzner Engineering & Forestry's website at www.stuntzner.com (follow the links to timber sales) and City's Website at www.Coosbay.org or by contacting:

City of Coos Bay
Jennifer Wirsing
500 Central Avenue, Coos Bay, OR 97420
Phone: 541-267-8918

Some of the special conditions found in the contract are outlined as follows:

1) **Qualification.** All bidders must complete, sign and return the attached "Qualification Statement" with their bid deposit and bid form. References of the apparent high bidder will be checked and must be approved prior to awarding the sale. The financial stability of the bidder is addressed in the bonding requirements specified in this prospectus and included in the contract. The experience and performance criteria are addressed by requiring: "the bidder to provide references of satisfactory experience and performance on at least three similarly sized timber sales within the previous three year period." For each timber sale, list the name and date of the sale, timber volume removed or otherwise an indication of the scope or magnitude of the project, the name and address of the agency or timberland owner, and the name and phone number of the agency or timberland owner contact.

2) **Payments.** This is a recovery timber sale. Buyer shall make payments during harvesting, stumpage payments will be made semimonthly on the 10th and 25th of each month or at other dates mutually agreeable to both parties. Total purchase price is calculated as bid price per thousand board feet or ton, per attached bid form, times the board feet or weight scaled and removed under the contract. In addition the following payment schedule is to be followed.

   a) A bid deposit of $10,000 shall be submitted with the attached bid form. The City will retain this deposit of the successful bidder until successful contract termination. All other bid deposits will be returned to the unsuccessful bidders.

   b) For bidding options 1 and 3 the Buyer shall make a down payment of $30,000 to the City upon contract signing. This down payment shall apply as credit toward the final stumpage payment.

   c) For bidding option 2 the Buyer shall make a down payment of $30,000 to the City upon contract signing.

d) For option 2, a total of $250,000 in payments will need to be paid by July 15, 2014. If the stumpage payments plus down payment does not equal or exceed $250,000 by June 30, 2014, Buyer shall make an additional advance payment, to total $250,000 in stumpage and down payment. This additional payment will be deducted from the subsequent payments that follow.

e) The city will waive the advance payment if the sale was bid using Option 1 or 3.

2) Contract Time.

Option 1: The contract shall be fully performed by March 29th, 2015. Burning may be extended through December 15, 2015.

Option 2: The contract shall be fully performed by March 29th, 2016. Burning may be extended through December 15, 2016.

Option 3: The contract shall be fully performed by March 29th, 2016. Burning may be extended through December 15, 2016.

4) Taxes. The timber is not subject to the Western Oregon Severance Tax. The Buyer is responsible for paying the Forest Products Harvest Tax levied by ORS 321.005 to 321.185.

5) Bonding. Upon signing the contract, Buyer shall furnish Seller a separate performance bond in the amount of the Buyer's bid minus the down payment, countersigned by a commercial bonding company satisfactory to the Seller and in a form satisfactory to the Seller. Such bond shall cover the performance by Buyer, including payments due for stumpage and other payments.

6) Insurance. Buyer shall carry comprehensive public liability and property damage insurance in the amount of $2,000,000 each. Property damage coverage shall conform to Lloyd's of London Loggers Property Damage Broad Form "B". Buyer shall carry Worker Compensation Insurance in accordance with the State of Oregon. Buyer's insurance shall name the City of Coos Bay, Coos Bay – North Bend Water Board **and** Stuntzner Engineering & Forestry, LLC as additional insured. Additional insurance requirements are included in the Timber Sale Contract. **It is the buyer's responsibility to reference contract for ALL of the insurance requirements.**

7) Reforestation and Site Preparation. The Seller shall be responsible for reforestation. The Buyer will be responsible for site preparation to the Seller's satisfaction. Site preparation will include gross yarding with tops attached or machine piling. Landing piles and in-unit piles will be burned to the Seller's specifications at Buyer's sole expense.

8) Export of Timber Prohibited. The timber in this sale may not be exported. The Forest Resources Conservation and Shortage Relief Act of 1990, ORS 526.806 and Seller's policy prohibit the export of unprocessed timber from public lands in Oregon.

9) Access and Road Maintenance. The Seller guarantees access to the timber from the Coos Bay-North Bend Water Board as shown as "Designated Haul Route" on Exhibits "A" and "B". The Buyer shall be responsible for operator road maintenance for normal wear and tear along the designated haul route during the term of the contract. Road maintenance shall include keeping

culverts free of debris, applying no less than 250 cubic yards of 1 ½-inch crushed rock and grading on completion of logging. Roads damaged by use other than normal wear and tear shall be repaired at Buyer's expense as directed by Seller. Buyer shall also apply 80 cubic yards of 1 1/2 –inch crushed rock on road segment D to E prior to log haul over that section and 20 cubic yards of 1 ½-inch crushed rock over the concrete spillway located at Point I prior to haul over that segment. **NO wet weather haul will be allowed over road segment D to E (October 15th to June 15th).** The Buyer shall have the right to haul around the lake to avoid this segment, but assumes the road maintenance while hauling.

10) Boundaries. The City has marked the sale boundary with pink "Timber Harvest Boundary" flagging and "Timber Sale Boundary" signs. The Buyer shall be responsible for trespass outside the marked boundaries.

11) Logging. All operations shall be done in accordance with the Oregon Forest Practices Act. The Buyer shall furnish a written logging plan and attend a prework meeting prior to cutting. The logging plan shall show proposed road locations, landings and yarding methods. Said plan shall be subject to approval by the City. Operations may be terminated by the Seller upon its determination that Buyer's operations would cause serious environmental damage to water quality, road systems or soils during wet weather. Harvest Unit #4 has several small wetland pockets located inside the unit. The wetland areas are to be avoided with the equipment and the unit is to be harvested in the summer.

12) Road Construction. The Buyer shall construct roads according to the standards of the Southwest Oregon timber industry, the Oregon Forest Practices Act and applicable State and Federal requirements. The Buyer shall construct only those roads approved in the logging plan. There are 22 stations of new road marked with Orange flagging in the unit and 27 stations of road reconstruction.

13) Prevention and Containment of Contaminant Spills. The Buyer will be required to file a written plan and take appropriate prevention measures to insure that any spill of oil, oil products, or other hazardous materials does not enter the waters of the Watershed. Fuel trucks shall enter the watershed only when necessary and shall be parked outside the watershed when not actively fueling or servicing equipment.

14) Sanitation. Unless the City authorizes substitute measures or equipment in writing, Buyer will provide the use of approved chemical toilets by all persons engaged in road construction or in logging or removing timber under the contract while they are within the boundaries of the watershed. Such facilities shall be furnished by the Buyer in quantities and at locations agreed to by City. No habitation or overnight dwelling by employees of Buyer will be permitted on land within the watershed without advance written approval from the City and the CBNBWB.

15) Municipal Watershed. Pony Creek Watershed is the source of domestic water supplied to customers by the CBNBWB and the Buyer will conform to all laws and regulations pertaining to forest operations in the watershed as outlined in the "General Watershed Protection Rules" dated February 3, 2010.

16) Winter Logging. The City may allow winter harvesting as long as the water quality in the watershed and road surfaces are not adversely affected. The City reserves the right to suspend operations during periods of weather where operations may damage roads, soils, structures or

water quality or quantity. Any costs associated with winter logging such as rocking spur roads, applying maintenance rock to the mainline, additional road maintenance, and additional haul costs shall be borne by the Buyer. All road costs for winter logging shall be in addition to normal road maintenance costs outlined in paragraph 9 above.

FIELD REPRESENTATIVE

The City has designated Stuntzner Engineering & Forestry, LLC to be their field representative. They will serve as field sale contract administrator.

MISCELLANEOUS INFORMATION

Attached are a timber cruise report and cruise summaries. Aerial photos, sale location and detailed cruise information can be acquired from:

Stuntzner Engineering & Forestry, LLC
705 South 4th - P.O. Box 118
Coos Bay, OR 97420
Phone: 541-267-2872

Additional contract information can be acquired from Jennifer Wirsing, City of Coos Bay, 500 Central Avenue, Coos Bay, OR 97420 - Phone: 541-269-8918.

BIDS

Bids must be submitted to Jenifer Wirsing per the attached bid form. The words *City of Coos Bay 2014 Timber Sale* should appear on the sealed bid envelope.

All bids shall be accompanied by a certified or cashier's check in the amount of $10,000, payable to the City of Coos Bay, which, in the case of the successful bidder will be held by the Seller until successful contract completion. All checks for no accepted bids will be returned within ten (10) days to the unsuccessful bidders.

Each bid must be accompanied by a signed and notarized "Certification of Eligibility to Bid on Municipal Timber."

All bids not received on or before 1:30 p.m., Friday, **March 7th, 2014** shall be deemed rejected. Acceptance of a bid may be made by personal notification or deposit of notice in the United States mail with postage prepaid addressed to bidder's address as shown on the bid form, such notice shall be effective upon dispatch.

In the event a successful bidder fails to proceed with the purchase after acceptance of the bid by executing the contract and paying the balance of the down payment as set forth above, the rights of such bidder shall be deemed terminated and the deposit of the bidder shall be forfeited. Consistent with ORS 279, the City reserves the right to waive any and all irregularities in any bids submitted and to reject any or all bids.

BID FORM
OPTION 1
City of Coos Bay 2014 Timber Sale

Sealed Bid Due: On or before Friday, **March 7th, 2014** , at 1:30 p.m.

At the Office of: Stuntzner Engineering and Forestry
705 South Fourth Street.
Coos Bay, Oregon 97420
Phone: 541-267-2872

Following is our bid for the timber described in the City of Coos Bay 2012 Timber Sale Notice and Prospectus.

Estimated volume	**Species**	**Bid Price**
1,805 MBF	Douglas fir, No. 4 Sawmill Better, Net Scale	$_____/M
Incidental	Conifer, Special Cull, Adjusted Gross Scale	$_____/M
Incidental	Conifer, Peelable Cull, Adjusted Gross Scale	$_____/M
29 MBF	Conifer, Utility Cull, Adjusted Gross Scale	$_____/M
		And $_____/ton
443 MBF	Hemlock, No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Grand Fir, No. 4 Sawmill & Better, Net Scale	$_____/M
243 MBF	Spruce No. 4 Sawmill & Better, Net Scale	$_____/M
191 MBF	Port Orford cedar No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Red alder, No. 4 Sawmill & Better, Net Scale	$_____/M And $ _____/ton
Incidental	Red cedar, Net Scale	$_____/M

All volumes are Scribner Scale. Average conifer log length to be cut _____feet.

Enclosed herewith is a cashier's check/certified check payable to the CITY OF COOS BAY in the amount of $10,000. It is our understanding that if we are the apparent successful bidder, we will be notified no later than Wednesday, March 19th, 2012, and that upon five days of Council award, the Timber Sale Contract will be executed.

Date: _____

Firm or Name of Bidder: _____

Signature of Bidder: _____

Title: _____

Address: _____

_____

_____

Telephone Number: _____

BID FORM
OPTION 2
City of Coos Bay 2014 Timber Sale

Sealed Bid Due: On or before Friday, **March 7th, 2014** , at 1:30 p.m.

At the Office of: Stuntzner Engineering and Forestry
705 South Fourth Street.
Coos Bay, Oregon 97420
Phone: 541-267-2872

Following is our bid for the timber described in the City of Coos Bay 2012 Timber Sale Notice and Prospectus.

Estimated volume	**Species**	**Bid Price**
1,805 MBF	Douglas fir, No. 4 Sawmill Better, Net Scale	$_____/M
Incidental	Conifer, Special Cull, Adjusted Gross Scale	$_____/M
Incidental	Conifer, Peelable Cull, Adjusted Gross Scale	$_____/M
29 MBF	Conifer, Utility Cull, Adjusted Gross Scale	$_____/M
		And $_____/ton
443 MBF	Hemlock, No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Grand Fir, No. 4 Sawmill & Better, Net Scale	$_____/M
243 MBF	Spruce No. 4 Sawmill & Better, Net Scale	$_____/M
191 MBF	Port Orford cedar No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Red alder, No. 4 Sawmill & Better, Net Scale	$_____/M And $ _____/ton
Incidental	Red cedar, Net Scale	$_____/M

All volumes are Scribner Scale. Average conifer log length to be cut _____feet.

Enclosed herewith is a cashier's check/certified check payable to the CITY OF COOS BAY in the amount of $10,000. It is our understanding that if we are the apparent successful bidder, we will be notified no later than Wednesday, March 19th, 2012, and that upon five days of Council award, the Timber Sale Contract will be executed.

Date: _____

Firm or Name of Bidder: _____

Signature of Bidder: _____

Title: _____

Address: _____

_____

_____

Telephone Number: _____

BID FORM
OPTION 3
City of Coos Bay 2014 Timber Sale

Sealed Bid Due: On or before Friday, **March 7th, 2014** , at 1:30 p.m.

At the Office of: Stuntzner Engineering and Forestry
705 South Fourth Street.
Coos Bay, Oregon 97420
Phone: 541-267-2872

Following is our bid for the timber described in the City of Coos Bay 2012 Timber Sale Notice and Prospectus.

Estimated volume	**Species**	**Bid Price**
1,805 MBF	Douglas fir, No. 4 Sawmill Better, Net Scale	$_____/M
Incidental	Conifer, Special Cull, Adjusted Gross Scale	$_____/M
Incidental	Conifer, Peelable Cull, Adjusted Gross Scale	$_____/M
29 MBF	Conifer, Utility Cull, Adjusted Gross Scale	$_____/M
		And $_____/ton
443 MBF	Hemlock, No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Grand Fir, No. 4 Sawmill & Better, Net Scale	$_____/M
243 MBF	Spruce No. 4 Sawmill & Better, Net Scale	$_____/M
191 MBF	Port Orford cedar No. 4 Sawmill & Better, Net Scale	$_____/M
Incidental	Red alder, No. 4 Sawmill & Better, Net Scale	$_____/M And $ _____/ton
Incidental	Red cedar, Net Scale	$_____/M

All volumes are Scribner Scale. Average conifer log length to be cut _____feet.

Enclosed herewith is a cashier's check/certified check payable to the CITY OF COOS BAY in the amount of $10,000. It is our understanding that if we are the apparent successful bidder, we will be notified no later than Wednesday, March 19th, 2012, and that upon five days of Council award, the Timber Sale Contract will be executed.

Date: _____

Firm or Name of Bidder: _____

Signature of Bidder: _____

Title: _____

Address: _____

_____

_____

Telephone Number: _____

CITY OF COOS BAY
TIMBER SALE – 2014

CERTIFICATION OF ELIGIBILITY TO BID ON MUNICIPAL TIMBER

Under the penalties of perjury, the undersigned on behalf of _____ (company), certifies that the company:

1) Will not directly export the unprocessed Municipal Timber which is the subject of this transaction;

2) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a certification from that person which meets the requirements of the applicable resolutions 170 and 210;

3) Is not prohibited by City Ordinance 170 or Water Board Resolution 210 from bidding on the subject timber;

4) Understands that falsely entering into this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990, the Water Board's resolution and other state and federal provisions, and subjects the undersigned and the company to any and all penalties contained therein.

_____
Signed

_____
Company

_____
Title

_____
Dated

STATE OF OREGON)
)ss.
COUNTY OF COOS)

_____, 2014.

Personally appeared the above named _____ and acknowledged the foregoing instrument to be _____ voluntary act and deed.

Before me: _____
Notary Public for Oregon
My Commission Expires: _____

Coos Bay
QUALIFICATIONS STATEMENT

Reference #1

Sale Name:_____ Volume (MBF):_____

Sale Date:_____

Timber Seller:
Timber Owner/Agency:_____

Contact Person:_____

Contact Phone No.:_____

Reference #2

Sale Name:_____ Volume (MBF):_____

Sale Date:_____

Timber Seller:
Timber Owner/Agency:_____

Contact Person:_____

Contact Phone No.:_____

Reference #3

Sale Name:_____ Volume (MBF):_____

Sale Date:_____

Timber Seller:
Timber Owner/Agency:_____

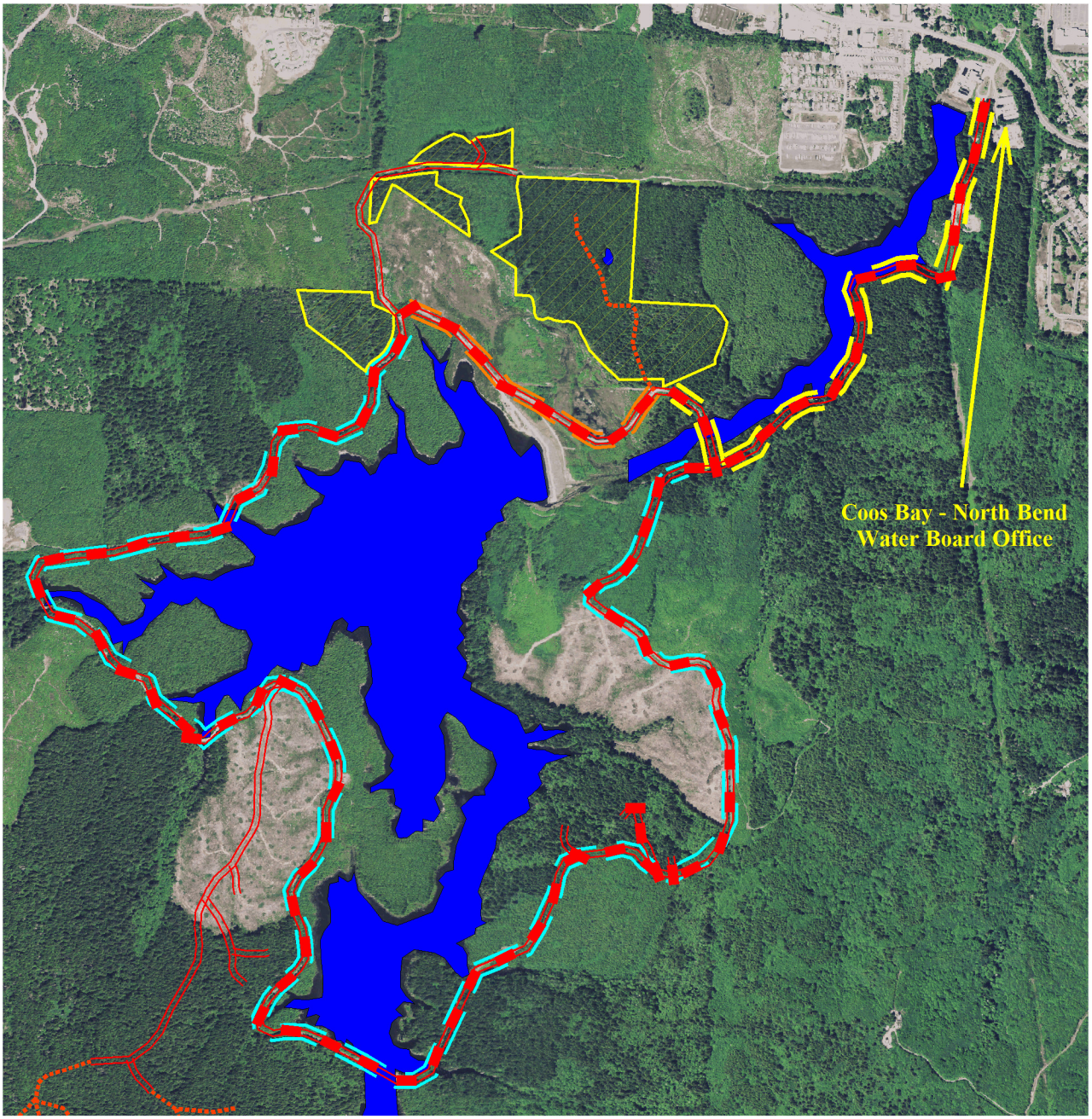
Contact Person:_____

Contact Phone No.:_____

Bidder (Company): _____ By:_____

EXHIBIT "A"
Vicinity Map and Designated Haul Route Map
City of Coos Bay 2014 Timber Sale

Stuntzner Engineering & Forestry, LLC
PO BOX 118 ~ 705 SOUTH 4TH STREET
COOS BAY, OREGON 97420
541-267-2872



Roads(by Type)
- 'Existing Dirt'
- 'New'
- 'Rocked'
- 2014 Timber Sale

Designated Haul Route(by season)
- 'Winter'
- 'Summer Only'
- 'Summer/Winter'
- Water
- 2012 NAIP

N
W E
S

Scale = 1 : 1600.00 (In : Feet)

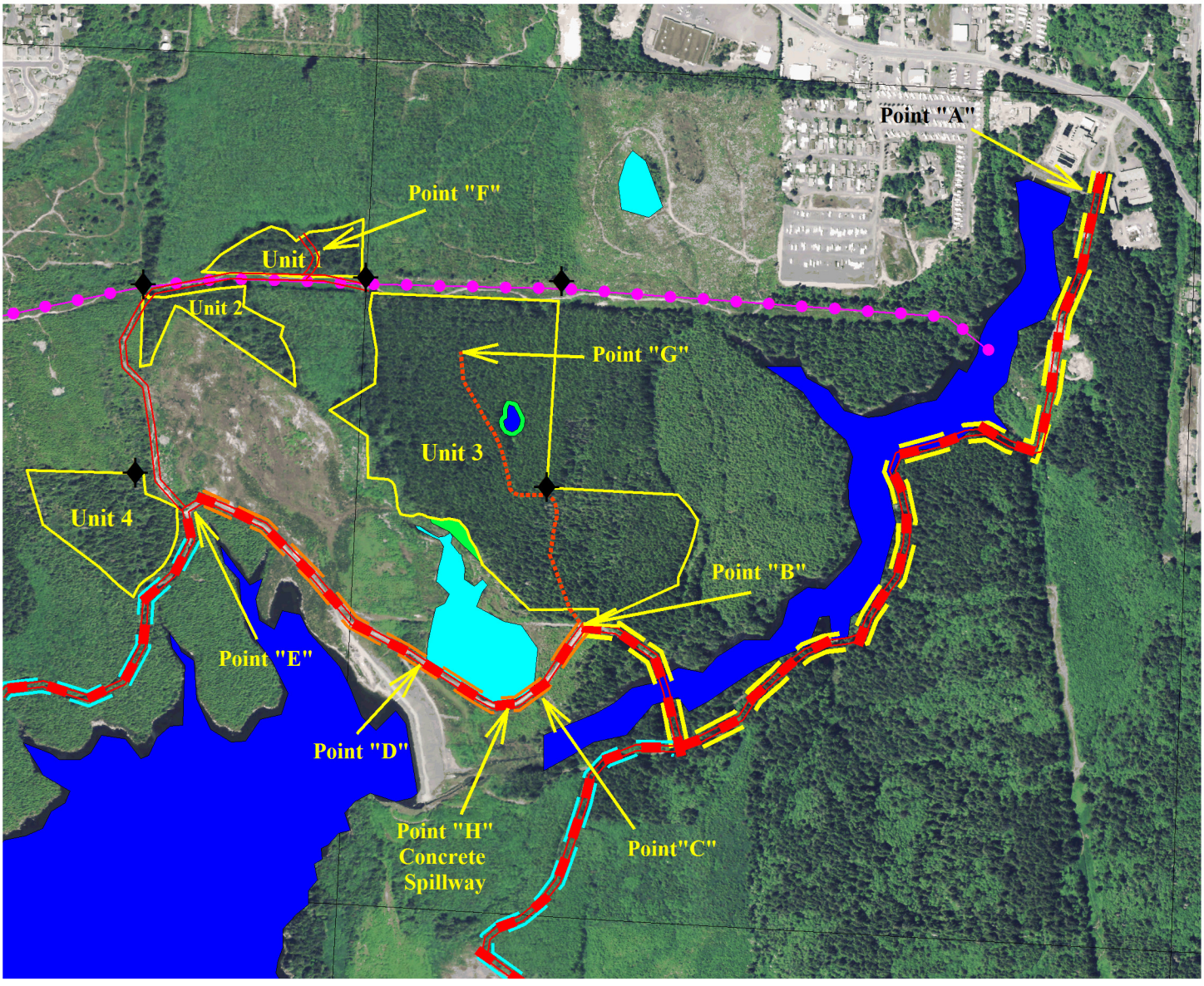
1600 0 1600 3200 Feet

01-22-2014

EXHIBIT "B"
City of Boos Bay 2014 Timber Sale

Portions of Sections 28 and 29,
T.25S., R.13W., W.M.,
Coos County, Oregon

Stuntzner Engineering & Forestry, LLC
PO BOX 118 ~ 705 SOUTH 4TH STREET
COOS BAY, OREGON 97420
541-267-2872



- Survey Corners
- Roads(by Type)
  - 'Existing Dirt'
  - 'New'
  - 'Rocked'
  - Power Lines
  - 2014 Timber Sale
- Designated Haul Route(by season)
  - 'Winter'
  - 'Summer Only'
  - 'Summer/Winter'
- Water
- Wetland Buffer
- plss_no_dlc
- Wetland
- 2012 NAIP

Unit	Acres
1	5.5
2	5.7
3	54.6
4	10.5
Total	76.3

N
W E
S

Scale = 1 : 1000.00 (In : Feet)

1000 0 1000 2000 Feet

01-22-2014

EXHIBIT "C"
Project Work

Project #1 – New road construction

Construct approximately **22** stations of new unsurfaced road as shown on Exhibit "B" and marked on the ground with "Orange" flagging, per road specifications.

Project #2 – Road reconstruction

Reconstruct approximately 27 stations of existing unsurfaced road as shown on Exhibit "B"

Project #3 – Road resurfacing

Spread 250 cubic yards of 0"-1.5" crushed quarry as directed on the designated haul route at the completion of log haul.

Project #4 – Road resurfacing

Spread 80 cubic yards of 0"-1.5" crushed quarry on road segment C to D and 20 cubic yards of 0"-1.5" crushed quarry over the concrete spillway at Point "H" prior to log haul or equipment moving over that segment. The gravel in the spillway needs to be removed prior to October 15th yearly and spread on the road on each end of the spillway.

EXHIBIT "C"
Road Construction Specifications and Project Details

Clearing and Grubbing

1. Debris as used in this section will be defined as that material consisting of brush, limbs, stumps or other loose vegetative material resulting form logging the right-of-way.
2. Clearing shall consist of removing all brush and other debris five feet back from the top of the cut bank to toe of fill slope.
3. Grubbing is the removal of stumps, roots and other woody material embedded within the road prism.
4. No loose debris, stumps and/or roots are to remain under any fill.
5. No clearing or grubbing debris is to be left lodged against merchantable trees or to remain in any streams.
6. Cutting of snags and danger trees outside the right-of-way boundaries shall be as required by the Oregon State Compensation Board, Accident Prevention and Safety Department.
7. Slash, chunks, stumps and other clearing debris shall not be disposed of within any critical slide area (example, headwalls).

Construction

1. The road shall be constructed as detailed below. Deviation from the plan may be made upon approval by SEF, if such a change would improve the road or reduce construction costs.
2. Unless otherwise specified, the roads shall be 14 feet of subgrade width, plus two feet for ditch. All curves shall be constructed with curve widening to an appropriate width to allow for passage by log trucks, chip trucks and lowboys. The minimum radius curve shall be 50 feet, unless otherwise specified. Fill slopes will have a maximum slope of 1 1/2 : 1. Cutbanks will have a maximum slope of 1/2 : 1.
3. Excess excavation shall be side cast except as specified below:
   a. Where material will enter a stream course.
   b. Where material will accumulate in areas with slide potential as determined by SEF or the Oregon Department of Forestry.
4. The road is to be full bench construction on side slopes which exceed 55%. On steep side slopes exceeding 55%, all of the excavated material shall be drifted or end hauled to a stable location along ridge tops or flatter side slopes, unless otherwise specified. All excavation following the pioneer road will be placed in a stable waste area as authorized by SEF.
5. Any sharp vertical curves in the roadbed shall be reduced by excavating necessary material to create a uniform grade profile between major changes in grade.

Drainage

1. All culverts shall be of the types, sizes, gauges and dimensions shown in the project details and installed in accordance with these specifications. The cross drain lengths and locations of culverts mentioned on the road projects are approximate and will be determined by SEF following completion of the subgrade.

2. A minimum cover of one foot, but not less than one-half of the diameter or span of the pipe, shall be placed on top of the pipe unless otherwise specified.

3. Pipes shall be bedded in suitable foundation material of uniform density throughout the length of the culvert. Where ledge rock, boulders, or soft/spongy soils are encountered, they shall be excavated eight inches below the invert grade for a width of at least one pipe diameter, or span, on each side of the pipe and shall be replaced by gravel or other suitable selected bedding material.
4. Backfill shall be uniform, select material placed under the haunches and alongside the pipe in layers not exceeding six inches in depth and compacted thoroughly on each side of the pipe for the full length of the culvert. The pipe shall be completely supported by compacted backfill material on each side at least one external diameter or span on the pipe, except insofar as undisturbed material obtrudes upon this area. This method of backfilling and compaction shall be continued until the material has reached an elevation of one foot above the top of the pipe.
5. Select material shall be readily compatible material free of lumps, clay or organic debris or rock greater than 3 inches in largest dimension. Pipe ruptured, broken or distorted more than five percent of nominal dimensions shall be replaced by the Buyer.
6. The outflow end of pipes shall be located so that water will fall upon solid, stable soil and not upon road embankments. Half-round culverts shall be used to control erosion where it is not feasible to direct the culvert outlet onto stable ground.
7. Rip-rap shall be placed around culvert ends to prevent soil erosion.
8. All culvert installation shall be approved by SEF prior to the completion of installation.
9. During construction, incomplete roads shall be drained by out-sloping, water bars, or dispersion ditches where necessary to minimize stream siltation. Natural stream flows shall be maintained, so as not to be hazardous to any section of the road.

Grading

1. Grading shall consist of blading the subgrade, ditches and turnouts to remove surface irregularities and provide a crowned roadbed with six inches of crown at the centerline.
2. Rocks larger than six inches at the maximum dimension shall be removed from the finished subgrade.
3. Rock protruding above the finished subgrade more than one half the depth of the intended surfacing shall be removed.
4. Any berm left during the construction of the subgrade shall be removed during grading unless authorized by SEF, in order to prevent excessive erosion of the fill slope.

EXHIBIT "D"

GENERAL WATERSHED PROTECTION RULES

February 3, 2010

by: Rob K. Schab, General Manager

The following are general watershed protection rules that apply to loggers, contractors, and others performing work within the Pony Creek/Joe Ney Watershed. These rules are in addition to the Oregon Forest Practices Act and all other state and federal rules governing forestry operations.

1. All necessary precautions shall be taken to prevent damage to the soil, stream banks, stream courses, and reservoirs.

2. The contractor shall protect stream banks and streamside vegetation from damage and shall not fall or yard timber across streams.

3. Fuel and oil trucks shall be used within the watershed only when necessary. Such trucks shall be parked outside the watershed overnight.

4. The contractor shall avoid servicing and repair of equipment with fuel and oil near streams or reservoirs.

5. The contractor shall provide a chemical toilet at the work site to be used by all personnel.

6. The contractor shall construct, periodically inspect, and maintain cross drainage ditches or water bars on all secondary roads and trails.

7. The contractor shall prevent muddy water from any work site or road from draining into a stream or reservoir.

8. The contractor shall temporarily furnish his own lock on the main gate entry. All access shall be only through the main gate.

9. The contractor shall acquaint himself with the limits of the property and not trespass on other property.

10. The contractor shall thoroughly wash all logging equipment prior to entering the watershed, especially the tires, wheels, and undercarriage.

LAND SURVEYING PLANNING ENGINEERING WATER RIGHTS FORESTRY GPS & GIS

Stuntzner Engineering & Forestry, LLC

TELEPHONE (541) 267-2872
FAX (542) 267-0588
EMAIL: stuntzner.com

705 South 4th Street – PO Box 118
Coos Bay, Oregon 97420

COOS BAY • BROOKINGS • FOREST GROVE • DALLAS

January 24, 2014

City of Coos Bay
Attn: Jennifer Wirsing
500 Central Avenue
Coos Bay, Oregon 97420

Re: Timber cruise on City of Coos Bay 2014 Timber Sale, located in Coos County County, Oregon

Dear Ms. Wirsing:

Per your request, we have completed the timber cruise on 76.3 acres in Sections 28 and29, T.25S.,R.13W., W.M., Coos County, Oregon.

CRUISE OBJECTIVE The primary objective of this cruise is for timber volume and value.

CRUISE SUMMARY

Species	Ave. Log Length in feet.	Average DBH (inches)	Average Merch. Ht. (ft)	Gross Volume (mbf)	Net Volume (mbf)	Net Utility Volume (mbf)
Douglas Fir	31	17.1	75	1,885	1,805	14
Spruce	32	21.9	66	258	243	2
Hemlock	31	14.2	53	473	443	11
Port Orford Cedar	29	15.2	46	200	191	2
			Total Volume	2,816	2,682	29

DOUGLAS FIR LOG GRADES PERCENT NET VOLUME

Species	Select Mill	#2 Saw	Oversize #3 Saw 12"+	#3 Saw	#4 Saw	Dom Pulp
Douglas fir	0.5%	51%	2%	34.5%	11%	1%
Spruce		46%	38%	11%	4%	1%
Hemlock		33%	4%	41%	20%	2%
Port Orford Cedar		24%	8%	47%	20%	1%

PERCENT NET VOLUME BY SCALING DIAMETER

Species	5"-7"	8"-11"	12"-15"	16"-23"	24"-99"
Douglas fir	14%	31 %	33%	21%	1%
Spruce	5%	11%	17%	45%	22%
Hemlock	26%	36%	23%	15%	0%
Port Orford Cedar	29%	39%	16%	16%	0%

TIMBER DESCRIPTION

The timber is a mixed stand of conifer of fair quality. Units 1, 2, and 4 are mixed stands of Spruce, hemlock and Douglas fir. Unit 3 is predominately Douglas fir.

CRUISE METHOD

The merchantable timber was cruised using the variable plot method. Cruise lines were established at 3 chain (198 feet) intervals, with cruise plot spacing at 3 chain (198 feet) intervals, for a 3 by 3 grid resulting in a sample of 0.9 acres per plot. White or blue flagging was used to mark the plots. There were 81 plots taken on 76.3 timbered acres. Units 1,2, and 4 all plots were measured and on Unit 4 one third of the plots were basal area only plots.

A 40 basal area factor (BAF) was used to sight trees "in" or "out" at DBH (tree diameter at breast height). The smallest tree considered to be merchantable had to contain one 16-foot log with a scaling diameter of five inches, yielding 20 board feet. All of the merchantable conifer species were cruised to a five inch top diameter, or to a variable top diameter equal to 40 percent of the tree diameter at 16 feet above the stump, whichever was greater. Log lengths were assigned according to current industry standards. The average length for Douglas fir was 31 feet.

All pulpwood is reported as mbf on the cruise summary.

Logs were graded using minimum standards for General or Special Scale under the Official Log Scaling and Grading Rules authored by the Northwest Log Rules Advisory Group, as amended to the date of this cruise, and shall also include "tonnage" pulp wood.

Timber volumes are from the Super A.C.E. cruise program. This is a variable log length cruise program that computes volumes from the cruiser's measurement of tree diameter, form (taper) and merchantable bole height.

ACCESS AND LOGGING

The Timber Sale is accessed from the Pony Creek Watershed main access road at the Coos Bay North Bend Water Board office. Approximately 22 stations of new road construction are within unit 3. Approximately 27 stations of dirt road will be re constructed to access Units 1 and 2. Some additional short spurs may be needed to reduce the skidding distance. The units can be logged with ground based equipment. Unit 4 has poor drainage and is to be logged during the dry season.

ATTACHMENTS Included with this cruise report are the cruise inventory summaries which include volume by timber type number, species, age classes, diameter class and log grades.

Also included is: Detailed volume summaries

DISCLAIMER The accuracy of the volumes, values, species, quality and costs reflected in any report or information provided are neither guaranteed nor warranted. Information provided is based upon limited sampling and estimates which may or may not reflect total volumes, value, species, quality or costs and which may be subject to error by reason of access, title, damage, disease, acts of governmental entities, economic change or other relevant circumstances. The recipient of such information or report assumes the risk of any inaccuracies in any information or report.

Please call if you have any questions.

Sincerely,

Steven Frichtl
STUNTZNER ENGINEERING & FORESTRY, LLC

TC PSTATS

PROJECT STATISTICS

PROJECT CITY2014

DATE 1/23/2014

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
25S	13	28	CITY 2014	0004	THR	76.30	81	514	S	W
25S	13W	28	CITY2014	0003						

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	81	514	6.3		
CRUISE	60	389	6.5	13,138	3.0
DBH COUNT					
REFOREST					
COUNT	20	125	6.3		
BLANKS	1				
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	221	96.1	17.1	75	38	154.1	24,706	23,837	5,769	5,744
WHEMLOCK	82	44.7	14.2	53	10	48.9	6,200	5,951	1,571	1,550
S SPRUCE	35	7.7	21.9	66		20.2	3,375	3,205	794	782
PO CEDAR	51	23.7	15.2	46		29.8	2,627	2,535	793	792
TOTAL	*389*	*172.2*	*16.4*	*65*		*253.0*	*36,907*	*35,527*	*8,926*	*8,868*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	65.0	4.4	370	387	404			
WHEMLOCK	94.1	10.4	210	234	259			
S SPRUCE	79.2	13.4	683	788	894			
PO CEDAR	77.2	11.1	168	189	210			
TOTAL	*90.0*	*4.6*	*349*	*366*	*383*	*323*	*81*	*36*

CL 68.1	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	58.1	4.0	88	92	95			
WHEMLOCK	85.2	9.4	55	60	66			
S SPRUCE	70.1	11.8	162	184	205			
PO CEDAR	71.1	10.3	53	59	65			
TOTAL	*79.3*	*4.1*	*85*	*89*	*93*	*251*	*63*	*28*

CL 68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	90.3	10.0	86	96	106			
WHEMLOCK	124.1	13.8	39	45	51			
S SPRUCE	241.7	26.8	6	8	10			
PO CEDAR	202.5	22.5	18	24	29			
TOTAL	*56.9*	*6.3*	*161*	*172*	*183*	*129*	*32*	*14*

CL 68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	71.4	7.9	142	154	166			
WHEMLOCK	107.5	11.9	43	49	55			
S SPRUCE	261.2	29.0	14	20	26			
PO CEDAR	193.3	21.5	23	30	36			
TOTAL	*37.1*	*4.1*	*243*	*253*	*263*	*55*	*14*	*6*

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	72.5	8.1	21,917	23,837	25,756			
WHEMLOCK	110.5	12.3	5,221	5,951	6,681			
S SPRUCE	281.2	31.2	2,204	3,205	4,206			
PO CEDAR	213.0	23.6	1,936	2,535	3,134			

TC PSTATS

PROJECT STATISTICS

PROJECT CITY2014

DATE 1/23/2014

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
25S	13	28	CITY 2014	0004	THR	76.30	81	514	S	W
25S	13W	28	CITY2014	0003						

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*41.1*	*4.6*	*33,905*	*35,527*	*37,150*	*68*	*17*	*8*

CL 68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	72.1	8.0	5,285	5,744	6,204			
WHEMLOCK	109.2	12.1	1,362	1,550	1,737			
S SPRUCE	274.5	30.5	543	782	1,020			
PO CEDAR	206.7	22.9	610	792	974			
TOTAL	*38.8*	*4.3*	*8,485*	*8,868*	*9,250*	*60*	*15*	*7*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T25S R13W S28 Ty0004
THRU
T25S R13W S28 Ty0003

Project: CITY2014
Acres 76.30

Date 1/24/2014
Time 12:28:22PM

Spp	S So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
WH	CUUT			58	58	4		100			49		51		23	83	1.20	.7
WH	DO2M	34	3.8	2,056	1,978	151			64	36			11	89	38	292	1.80	6.8
WH	DO3M	41	2.0	2,505	2,454	187	17	83				5	24	71	36	102	0.73	24.1
WH	DO4M	20	3.9	1,221	1,173	89	98	2			16	31	28	24	28	30	0.34	39.3
WH	PU PU	1		89	89	7	31	9		60	21	69		10	22	59	0.73	1.5
WH	R 3M	4	6.4	213	200	15			48	52			26	74	36	297	2.10	.7
WH	**Totals**	17	3.1	6,142	5,951	454	27	36	23	15	4	9	20	67	31	81	0.68	73.1
PO	DO2M	24	3.6	637	614	47			52	48	15		8	77	32	241	2.06	2.5
PO	DO3M	47	1.7	1,209	1,188	91	17	83			3	7	5	85	35	95	0.87	12.6
PO	DO4M	19	5.9	531	500	38	100				15	58	22	6	25	27	0.36	18.7
PO	PU PU	2		31	31	2	100					34	66		30	36	0.40	.9
PO	R 3M	8	7.8	218	202	15		2	47	52	7	18		75	32	269	2.67	.7
PO	**Totals**	7	3.5	2,627	2,535	193	29	39	16	16	8	17	9	66	29	72	0.76	35.4
SS	CUUT			6	6	0		100			100				14	30	2.36	.2
SS	DO2M	45	4.7	1,516	1,445	110			28	72			30	70	36	364	2.35	4.0
SS	DO3M	11	6.0	384	361	28	16	84				9	20	70	36	91	0.88	4.0
SS	DO4M	4	2.4	134	131	10	89	11			34	41	7	17	24	30	0.36	4.4
SS	PU PU	1		28	28	2		53	47		42	58			22	107	1.40	.3
SS	R 3M	39	5.1	1,301	1,234	94			10	90	4	5	2	89	36	567	3.45	2.2
SS	**Totals**	9	4.9	3,369	3,205	245	5	11	17	67	4	5	17	75	32	214	1.63	15.0
DF	CUUT			95	95	7			47	53		53		47	32	273	1.67	.3
DF	DOSM			99	99	8				100				100	40	400	2.02	.2
DF	DO2M	52	4.0	12,750	12,237	934			62	38	0	1	14	85	36	271	1.68	45.2
DF	DO3M	34	2.1	8,423	8,249	629	10	90			0	4	8	88	37	107	0.72	76.8
DF	DO4M	11	2.8	2,602	2,530	193	99	1			10	35	26	29	29	31	0.33	82.1
DF	PU PU			93	93	7	6	7	87		13			87	29	121	0.98	.8
DF	R 3M	3	2.5	548	534	41			38	62			38	62	35	328	2.09	1.6
DF	**Totals**	67	3.1	24,610	23,837	1,819	14	31	33	21	1	6	14	80	33	115	0.83	207.1
Totals			3.3	36,748	35,527	2,711	17	31	29	24	2	7	15	76	32	107	0.83	330.5

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: CITY2014

Date 1/23/2014
Time 2:11:50PM

T25S R13W S28 T0001

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
25S	13W	28	CITY2014	0001	5.50	5	28	S	W

T25S R13W S28 T0001

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 6-7	8-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
SS		DO	2M	33	5.4	10,313	9,754	54			30	70			1	99	37	494	2.94	19.7
SS		DO	3M	6	10.0	1,895	1,706	9	5	95				13		87	38	112	1.19	15.2
SS		DO	4M	1	4.7	350	333	2	40	60			60		40		24	38	0.67	8.8
SS		PU	PU	1		393	393	2		53	47		42	58			22	107	1.40	3.7
SS		R	3M	59	5.1	17,768	16,862	93			15	85	4	5		91	36	590	3.56	28.6
SS	**Totals**			75	5.4	30,720	29,048	160	1	7	19	73	4	5	1	91	34	382	2.57	76.1
WH		DO	2M	60	4.9	4,230	4,024	22			24	76				100	36	460	2.80	8.8
WH		DO	3M	13	10.3	966	866	5		100				11		89	35	73	0.75	11.8
WH		DO	4M	3	11.1	169	150	1	63	37			37	63			20	36	0.67	4.2
WH		PU	PU	4		288	288	2	60	40			60	40			19	28	0.45	10.3
WH		R	3M	20	7.5	1,392	1,288	7			46	54				100	36	324	2.19	4.0
WH	**Totals**			17	6.1	7,045	6,615	36	4	16	23	57	3	5		92	29	169	1.43	39.1
DF		DO	2M	82	5.5	2,519	2,380	13			57	43				100	36	460	2.75	5.2
DF		DO	3M	16	8.4	472	432	2		100			17			83	31	109	0.97	4.0
DF		DO	4M	2		55	55	0	100					100			21	20	0.34	2.8
DF	**Totals**			7	5.9	3,046	2,867	16	2	15	47	36	3	2		96	31	241	1.77	11.9
Type Totals					5.6	40,811	38,530	212	1	9	22	68	4	4	1	91	33	303	2.18	127.0

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: CITY2014

Page 1
Date 1/23/2014
Time 2:11:50PM

T25S R13W S28 T0002

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
25S	13W	28	CITY2014	0002	5.70	5	31	S	W

T25S R13W S28 T0002

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 6-7	8-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
WH		DO	2M	48	3.5	5,812	5,608	32			100					100	39	288	1.78	19.5
WH		DO	3M	29	1.2	3,400	3,359	19	23	77						100	39	104	0.82	32.3
WH		DO	4M	15		1,714	1,714	10	100				5	39	30	27	31	34	0.41	50.4
WH		PU	PU	1		202	202	1	100				40			60	26	29	0.52	7.1
WH		R	3M	7	7.7	788	727	4			100					100	36	240	1.85	3.0
WH	**Totals**			39	2.6	11,916	11,610	66	23	22	55		1	6	4	88	34	103	0.86	112.3
DF		DO	2M	64	6.3	7,567	7,093	40			37	63				100	38	445	2.52	15.9
DF		DO	3M	13	1.7	1,433	1,408	8	14	86				14		86	36	119	0.96	11.8
DF		DO	4M	3		350	350	2	100							100	38	40	0.46	8.7
DF		PU	PU	1		89	89	1		100			100				19	70	0.97	1.3
DF		R	3M	19	1.2	2,110	2,085	12			21	79				100	36	558	3.08	3.7
DF	**Totals**			37	4.5	11,549	11,024	63	5	12	28	56	1	2		97	37	266	1.66	41.5
PO		DO	3M	45	2.7	1,661	1,616	9		100					21	79	35	100	0.97	16.2
PO		DO	4M	40	3.9	1,452	1,395	8	100				6	47	47		27	29	0.39	47.7
PO		R	3M	15	10.3	583	523	3			100					100	40	260	2.83	2.0
PO	**Totals**			12	4.4	3,697	3,534	20	39	46	15		3	19	28	51	29	54	0.66	66.0
SS		DO	2M	61	6.0	2,546	2,394	14			59	41				100	37	313	2.04	7.6
SS		DO	3M	29	8.3	1,204	1,103	6		100						100	40	110	0.80	10.0
SS		DO	4M	10		376	376	2	100				20			80	31	37	0.32	10.0
SS	**Totals**			13	6.1	4,126	3,873	22	10	28	36	26	2			98	36	140	1.00	27.7
Type Totals					4.0	31,288	30,041	171	17	22	38	24	1	5	5	89	34	121	0.98	247.5

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: CITY2014

Date 1/23/2014

Time 2:11:50PM

T25S R13W S28 T0003

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
25S	13W	28	CITY2014	0003	54.60	60	277	S	W

T25S R13W S28 T0003

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 6-7	8-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU	UT			62	62	3			100					100	36	180	1.09	.3
DF		DO	SM			138	138	8			100					100	40	400	2.02	.3
DF		DO	2M	50	3.9	16,081	15,459	844			80	20		0	13	86	36	263	1.64	58.7
DF		DO	3M	37	2.0	11,495	11,260	615	10	90				3	8	88	37	108	0.72	104.4
DF		DO	4M	11	2.8	3,541	3,441	188	99	1			10	35	27	28	29	31	0.32	112.2
DF		PU	PU			120	120	7	6		94		6			94	31	128	0.98	.9
DF		R	3M	2	2.5	372	363	20			31	69			31	69	36	385	2.37	.9
DF	**Totals**			80	3.0	31,809	30,843	1,684	15	33	41	11	1	5	13	80	33	111	0.80	277.8
WH		DO	2M	29	3.7	1,551	1,493	82			74	26			6	94	38	291	1.74	5.1
WH		DO	3M	45	1.9	2,377	2,332	127	12	88					17	83	37	113	0.75	20.7
WH		DO	4M	24	4.6	1,285	1,226	67	98	2			17	27	30	26	28	30	0.32	41.5
WH		PU	PU	2		74	74	4			100			100			22	220	2.02	.3
WH	**Totals**			13	3.1	5,287	5,125	280	29	40	23	8	4	8	17	71	31	76	0.61	67.7
PO		DO	2M	18	2.9	429	417	23			76	24				100	37	279	2.15	1.5
PO		DO	3M	55	1.4	1,267	1,248	68	13	87			4	9		87	34	96	0.86	12.9
PO		DO	4M	20	6.2	489	459	25	100				19	54	18	9	25	26	0.33	17.9
PO		PU	PU	2		43	43	2	100					34	66		30	36	0.40	1.2
PO		R	3M	5	2.2	101	99	5				100				100	40	450	2.93	.2
PO	**Totals**			6	2.7	2,330	2,266	124	29	48	14	9	6	17	5	72	29	67	0.69	33.7
SS		DO	2M	50	2.8	201	196	11			26	74				100	36	350	2.25	.6
SS		DO	3M	24		91	91	5		100						100	36	100	0.83	.9
SS		DO	4M	26		99	99	5	100				24	76			23	27	0.30	3.7
SS	**Totals**			1	1.4	391	385	21	26	23	13	38	6	20		74	27	75	0.71	5.2
Type Totals					3.0	39,817	38,619	2,109	18	35	37	11	2	7	13	78	33	100	0.76	384.4

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: CITY2014

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Date 1/23/2014
Time 2:11:50PM

T25S R13W S28 T0004

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
25S	13W	28	CITY 2014	0004	10.50	11	53	S	W

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Spp	St	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 6-7	8-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
WH		CU	UT	6		421	421	4		100			49		51		23	83	1.20	5.1
WH		DO	2M	21	3.5	1,505	1,452	15			100				73	27	36	198	1.43	7.3
WH		DO	3M	50	1.7	3,488	3,429	36	33	67				24	61	14	33	79	0.64	43.5
WH		DO	4M	17	2.5	1,171	1,141	12	100				21	46	16	18	26	28	0.38	40.6
WH		R	3M	6	2.9	394	382	4			100				100		34	330	2.27	1.2
WH	**Totals**			33	2.2	6,978	6,824	72	33	40	27		6	20	58	16	30	70	0.66	97.7
PO		DO	2M	48	4.3	2,395	2,293	24			74	26	28		16	56	28	214	1.98	10.7
PO		DO	3M	27	2.3	1,296	1,266	13	48	52				3	16	80	37	84	0.85	15.1
PO		DO	4M	10	7.0	529	492	5	100				9	91			26	29	0.49	17.2
PO		R	3M	15	10.6	745	666	7		3	60	37	16	40		44	26	208	2.44	3.2
PO	**Totals**			23	5.0	4,966	4,717	50	23	14	45	18	17	16	12	55	30	102	1.07	46.2
DF		CU	UT	6		370	370	4				100		100			24	500	3.77	.7
DF		DO	2M	65	4.6	3,603	3,438	36			71	29	6	11	40	43	34	287	2.00	12.0
DF		DO	3M	7	2.8	408	397	4	88	12				12	11	76	37	60	0.74	6.6
DF		DO	4M	5		278	278	3	89	11			11	32		58	31	39	0.52	7.1
DF		R	3M	17	4.3	902	863	9			100				100		34	176	1.37	4.9
DF	**Totals**			26	3.9	5,561	5,346	56	11	1	62	26	5	16	43	36	34	171	1.33	31.3
SS		CU	UT	1		45	45	0		100			100				14	30	2.36	1.5
SS		DO	2M	77	3.6	3,185	3,072	32			86	14			100		34	268	1.92	11.5
SS		DO	3M	17	1.9	672	659	7	55	45				19	81		33	62	0.69	10.6
SS		DO	4M	1	21.4	71	55	1	100				100				17	20	0.39	2.8
SS		R	3M	4	5.9	145	136	1			100				100		34	160	1.38	.9
SS	**Totals**			19	3.6	4,118	3,968	42	11	9	70	11	3	3	94		31	146	1.31	27.2
Type Totals					3.5	21,622	20,856	219	21	18	48	13	8	15	51	27	30	103	0.96	202.4