

# Supply Base Report for Enviva Pellets Cottondale, LLC

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## Completed in accordance with the Supply Base Report Template Version 1.3

*For further information on the SBP Framework and to view the full set of documentation see [www.sbp-cert.org](http://www.sbp-cert.org)*

### *Document history*

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# 1 Overview

On the first page include the following information:

**Producer name:** Enviva Partners, LP  
**Producer location:** 7200 Wisconsin Ave. Suite 1000 Bethesda, MD 20814  
**Geographic position:** Enviva Pellets Cottondale, Florida  
 N 30.739187, W-85.391074  
**Primary contact:** Don Grant  
 4242 Six Forks Road  
 Suite 1050  
 Raleigh, NC 27609  
 don.grant@envivabiomass.com  
 Office: 984-789-3642 ext. 1069  
**Company website:** [www.envivabiomass.com](http://www.envivabiomass.com)  
**Date report finalised:** 30-APR-2019  
**Close of last CB audit:** 01-MAY-2019 Cottondale, FL  
**Name of CB:** SCS Global  
**Translations from English:** NA  
**SBP Standard(s) used:** Standard 1v1.0, Standard 2v1.0, Standard 4v1.0 and Standard 5v1.0  
**Weblink to Standard(s) used:** <https://sbp-cert.org/documents/standards-documents/standards>  
**SBP Endorsed Regional Risk Assessment:** NA  
**Weblink to SBE on Company website:** <http://envivabiomass.com/sustainability/responsible-sourcing/third-party-certifications/>

Indicate how the current evaluation fits within the cycle of Supply Base Evaluations				
Main (Initial) Evaluation	First Surveillance	Second Surveillance	Third Surveillance	Fourth Surveillance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>X</b>	<input type="checkbox"/>

## 2 Description of the Supply Base

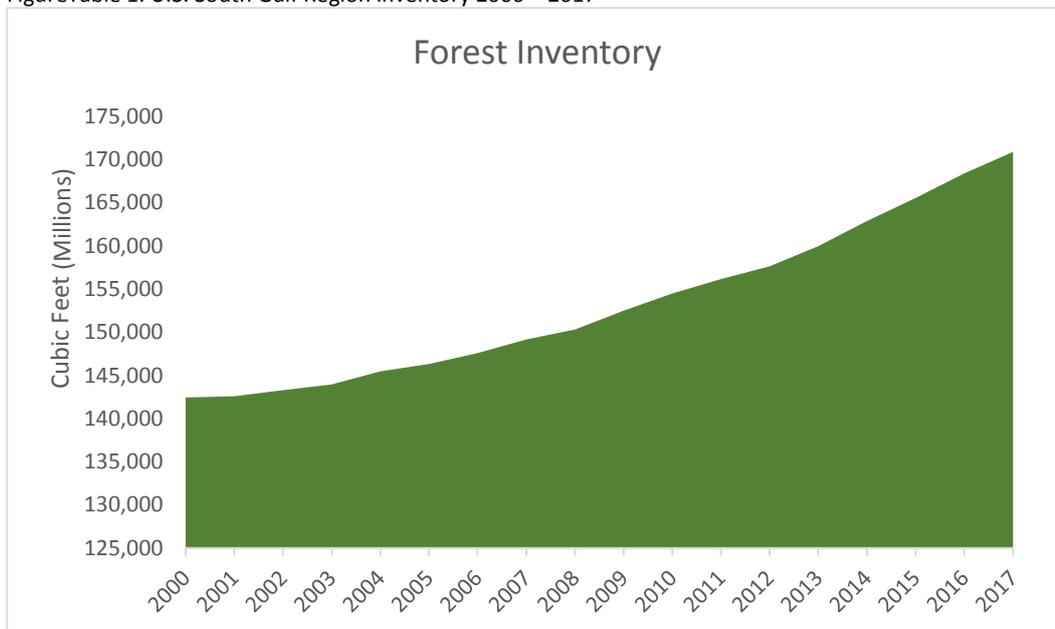
### 2.1 General description

Enviva Holdings LP (“Enviva”) operates the Enviva Pellets Cottondale mill located in northwest Florida, USA. The supply base area for this facility includes counties from all or part of Alabama, Florida, Georgia, Mississippi, South Carolina, and Tennessee in the southeast United States of America. Forest is the predominate land use in the supply area (67%) and include the following World Wildlife Fund (WWF) ecoregions; Appalachian Mixed Mesophytic Forests, Appalachian-Blue Ridge Forests, Central U.S. Hardwood Forests, Florida Sand Pine Scrub, Middle Atlantic Coastal Forest, Southeastern Conifer Forests, Southeastern Mixed Forests (World Wildlife Fund, 2018).

#### Forest cover-types and growth/drain ratios

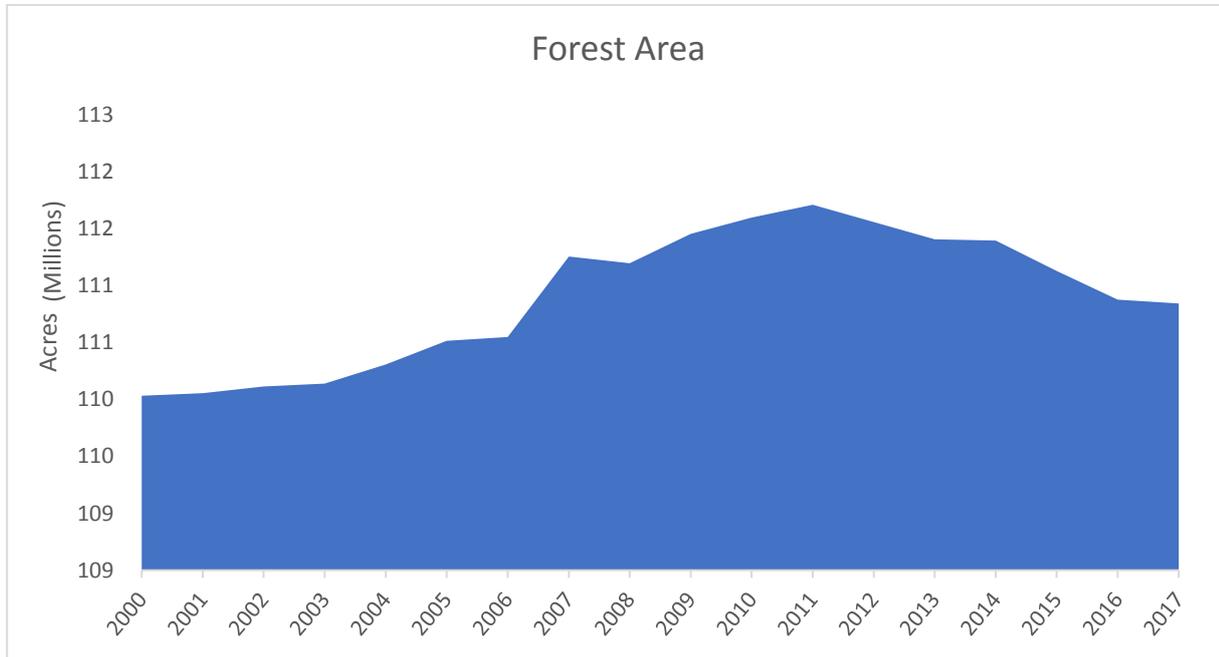
The catchment area for Cottondale contains 33.8 million hectares of forested land. The annual growth to drain ratio of the supply base is 1.61:1 for all species, 1.83:1 for hardwood, and 1.55:1 for pine (USDA Forest Service, 2018). A positive growth to drain ratio indicates that forest growth exceeds harvest removals. In the Gulf region of the U.S. South, total inventory has increased by an average of 1.2% annually between 2000 and 2017<sup>1</sup> (Figure 1). Since 2000, US Forest Service Forest Inventory Analysis (FIA) data indicates an increase in forest area in the states covered included in the Cottondale supply base area (USDA Forest Service, 2018) (Figure 2).

FigureTable 1. U.S. South Gulf Region inventory 2000 – 2017



<sup>1</sup> The most recently available (as of 2/25/2019) FIA data for 6 states: AL, FL, GA, MS, SC, TN was used in this analysis. For a detailed explanation of our methods, please visit our Forest Trend Map Data Sources & Methods page on our website: <http://www.envivabiomass.com/sustainability/track-and-trace/data-methods/>

Figure 2. US Forest Service Timberland area in AL, FL, GA, TN, and SC 2000 – 2017 (State-wide Basis)



The forest in the supply base consists primarily of southern yellow pine and mixed oak cover types. Forest species composition for each state within the supply base is described in Table 1 (USDA Forest Service, 2018).

Table 1. Forested hectares, Forest type by State in Supply Base Area

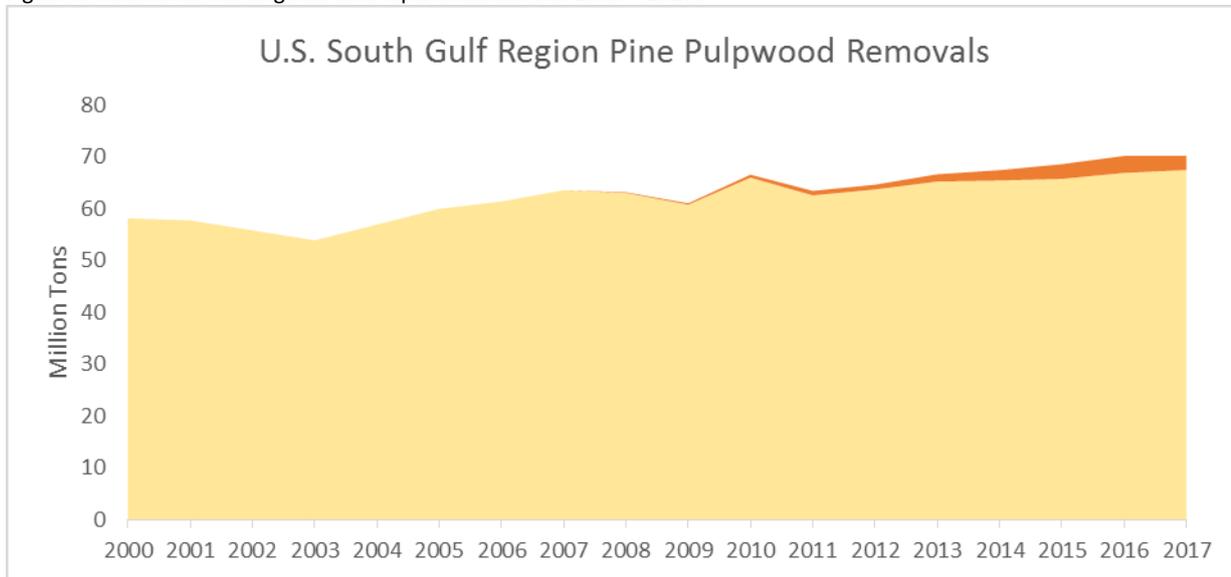
Forest Cover Types	AL	FL	GA	MS	SC	TN	Total
White/red/jack pine group	6,740	0	25,853	0	7,508	3,654	43,754
Spruce/fir group	0	0	0	2	0	0	2
Longleaf/slash pine group	449,982	2,035,858	1,428,508	317,118	124,945	0	4,356,411
Loblolly/shortleaf pine group	3,741,805	731,727	3,007,095	1,982,893	1,228,290	136,635	10,828,445
Other eastern softwoods group	27,911	8,311	6,274	15,478	3,558	47,462	108,995
Oak/pine group	1,127,521	579,572	1,124,098	520,089	315,296	121,772	3,788,349
Oak/hickory group	2,776,133	956,956	2,604,065	854,778	626,631	1,024,176	8,842,739
Oak/gum/cypress group	887,456	1,196,383	1,360,301	494,661	395,543	27,182	4,361,526
Elm/ash/cottonwood group	247,830	52,464	190,785	97,494	73,751	69,016	731,339
Maple/beech/birch group	0	0	0	0	0	19,288	19,288
Other hardwoods group	2,638	8,965	12,044	3,185	1,336	3,664	31,832
Tropical hardwoods group	0	95,978	1,964	0	0	0	97,942
Exotic hardwoods group	22,209	4,433	29,862	13,421	7,297	6,018	83,240
Nonstocked	56,183	200,800	150,195	38,062	23,726	0	468,966
<b>Total</b>	<b>9,346,408</b>	<b>5,871,449</b>	<b>9,941,044</b>	<b>4,337,180</b>	<b>2,807,881</b>	<b>1,458,867</b>	<b>33,762,829</b>

**Operating Scale**

Enviva is just one of several industries and entities sourcing wood in its supply base area. Removals of both pine and hardwood for pellet production in the Southern region comprised only 2.7% of total harvest volume in 2017. Primary harvesting activity and wood consumption in the South is driven by saw-timber markets, with total removals for the pellet industry comprising only 0.1% of the total pine inventory and

0.08% of the total hardwood inventory. In 2017, pine pulpwood removals for the entire pellet industry accounted for 3.8% of total pine pulpwood removals for all wood product classifications (Figure 3).<sup>2</sup>

Figure 3. U.S. South Gulf Region Pine Pulpwood Removals 2000 – 2017.



**CITES, IUCN Species**

Enviva maintains a third party certified Forest Stewardship Council® (FSC) Controlled Wood Risk Assessment and Programme for the Endorsement of Forest Certifications™ (PEFC) Due Diligence System. These certifications provide a mechanism to evaluate the potential for use of CITES and/ or IUCN species concerns. The International Union for the Conservation of Nature (IUCN) Red List of Threatened Species includes *Pinus palustris* (Longleaf pine) that does grow within the supply base region (International Union for the Conservation of Nature, 2018). Longleaf pine is included in the IUCN list because its current extent is much reduced from its historical dominance in the southeast US. However, conservation groups, such as the Longleaf Alliance, agree that creating commercial viability of longleaf pine is crucial to its restoration (Longleaf Alliance, 2016). Enviva’s use of material from longleaf stand thinning’s or other harvest residuals supports the commercial viability of the species and encourages landowners to restore and continue to manage longleaf stands. Enviva does not source from natural longleaf stands that are being converted to another forest type.

**General Forest Management Techniques**

General forest management practices vary by landowner and location within the supply base and are conducted on both pine and hardwood sites. Most hardwood stands are naturally regenerated after harvest with little additional management taking place until the next harvest. Florida forest landowners can apply for many forms of federal, state and private assistance to replant trees, protect wildlife and sustainably manage their forest resources (USDA, 2019)

<sup>2</sup> Derived from 2016-2017 Forest2Market Inc. data, which is not publically available at this time.

Typically, hardwood management relies on natural regeneration of stands where forest tracts are harvested and the natural processes of seedling establishment and sprout growth from the remaining stumps (called “coppice”) produce the next forest.

Pine stands are both naturally regenerated and planted after harvest. Planted pine management includes various regimes designed to produce a variety of forest products. Typical management scenarios include a thinning between age 9 and 14, and a final harvest occurring between age 25 and 35. Pine management intensity depends on landowner objectives and resources, and could include additional treatments, and/or additional thinning. Many pine stands are established by planting then are not intensively managed. Once established they are left to grow and routinely have a hardwood dominated understory. This non-merchantable hardwood understory is used by Enviva Cottontale, if there is no other outlet for the wood.

**Ownership, Land Use and Certification**

Forest ownership patterns within the supply base are typical for the southern US, with the highest percentage of the forest owned by private landowners. Forest land ownership categories for each state in the supply base are presented in Table 2 (USDA Forest Service, 2018). The majority land use in the supply base area is generally agriculture or forestry. Land use data for the supply is presented in Table 3 (USDA Economic Research Service, 2017). Major forest certification schemes such as the American Tree Farm System® (ATFS), Sustainable Forestry Initiative® (SFI®) and Forest Stewardship Council™ (FSC) have program participants within the supply base. From the states within the supply base 4.4 million hectares are SFI® certified, 3.8 million hectares are ATFS certified, and .6 million hectares are FSC certified.

Table 2. Forested Hectares, Ownership by State in Supply Base Area

	Federal	State & Local	Private	Total
Alabama	379,434	257,878	8,709,096	9,346,407
Florida	756,860	1,097,169	4,017,424	5,871,453
Georgia	740,203	340,685	8,860,158	9,941,047
Mississippi	397,420	115,214	3,824,543	4,337,177
South Carolina	332,911	104,962	2,370,009	2,807,882
Tennessee	34,596	59,995	1,364,278	1,458,869
<b>Total</b>	<b>2,641,425</b>	<b>1,975,903</b>	<b>29,145,508</b>	<b>33,762,835</b>

Table 3. Land Use by State (State-wide Basis)

State	Cropland	Pasture	Forest	Urban	Other
Alabama	10%	8%	69%	4%	9%
Florida	8%	16%	45%	12%	19%
Georgia	12%	3%	66%	7%	12%
Mississippi	19%	7%	65%	2%	7%
South Carolina	10%	4%	66%	6%	14%
Tennessee	23%	8%	53%	6%	10%

**Regional Socio-economic Conditions**

Annually the forest products industry in Florida generates over \$25 billion in revenue impacts and provides over 124,000 jobs (Florida Forestry Association, 2018). The mean hourly wage for the farming, fishing and forestry occupational group in Florida in 2017 was \$14.72, compared to the United States average of \$16.57 for this same group (US Bureau of Labor Statistics, 2019). Forestry related industries are a leading

economic driver in many rural counties in northern Florida, providing employment opportunities for loggers, foresters, consultants, truck drivers and mill workers. Enviva Cottondale provides opportunities for local residents to gain employment and currently employs approximately 90 people. As part of the wood procurement process, Enviva Cottondale accepts raw material deliveries from over 90 independent loggers and contract haulers, and purchases secondary feedstock in the form of sawdust and shavings from 26 mills within the region, which according to a recent study, creates almost 250 indirect jobs in the region. Further, employees at the Enviva Cottondale plant, on average, earn wages that are almost 35% higher than other comparable jobs in the area. The same study found that Enviva Cottondale's total direct and indirect economic contribution to the region is over \$240 million dollars (Chmura Economics & Analytics, 2016).

### **Pellet Feedstock Profile**

Primary feedstock is sourced direct from the forest in the form of roundwood or wood chips from suppliers, all of whom are vetted and qualified prior to delivering. All suppliers must sign a contract with Enviva before wood can be delivered to an Enviva mill. The contract requires suppliers to use trained loggers during harvest, to follow best management practices for water quality, and to avoid controversial sources of wood supply, such as illegal logging. Enviva foresters confirm trained logger status and ensure that loggers delivering wood maintain their continuing education as required. All suppliers and loggers must also adhere to posted safety requirements while on Enviva property.

Primary feedstock from forest residues, such as tree tops, limbs, deformed and low grade trees, and any other wood produced during harvest that is otherwise unacceptable to other wood users in the area is delivered to an Enviva mill as woodchips. A single load of roundwood from the same harvest can contain tops, limbs, and/or small diameter or malformed understory trees that cannot be distinguished from one another through visual inspection. Enviva does not use sawlogs in the production of pellets, nor do we use any construction debris, treated wood, or post-consumer material.

Enviva also sources secondary feedstock from a variety of sawmill and wood industry suppliers. Sawmills source high-quality logs from the forest and mill them into products like two-by-fours. Wood industry suppliers use the products created by sawmills to produce products such as furniture or other assembled wood products. These feedstocks are most commonly in the form of sawdust or shavings and may be green or kiln-dried.

At the Cottondale plant, the pellet feedstocks have the following characteristics:

- 36% was made up of residues supplied by sawmills and wood industries.
- 17% was made up of hardwood and pine chips and roundwood from mixed oak-pine forests. These forests are managed for the production of pine sawtimber at low-intensities and contain a mixture of hardwood and pine trees. These forests are either planted in pine or naturally seeded from adjacent stands or seed trees, and little to no fertilizers or herbicides are applied to them throughout their life cycle. This establishes an overstory of straight, large-diameter pine trees with an understory of crooked, small-diameter hardwood trees that cannot be made into solid wood products.

- 43% was made up of hardwood and pine chips and roundwood from southern yellow pine forests. These are forests that were planted in pine and either managed moderately with minimal effort to prevent hardwood trees from growing in the understory, or more intensively to suppress significant understory growth, thereby increasing the forest's growth rate and yield. These forests are generally thinned 1-2 times throughout their growth cycle, meaning that certain trees are removed to reduce density in the forest and create additional room for the remaining trees to grow to sawtimber size and quality. These thinned trees are sold to low-grade consumers like Enviva.
- 3% was made up of hardwood and pine chips and roundwood from upland hardwood forests. These are low-intensity managed hardwood forests that are naturally seeded with an overstory of large-diameter oak, poplar, and hickory hardwood trees and a significant understory of small-diameter maple, oak, and sweetgum hardwood trees.
- 1% was made up of hardwood and pine roundwood from bottomland hardwood forests. These are hardwood forests in lowland areas and floodplains containing mostly large-diameter oak, gum, and cypress sawtimber trees with smaller, crooked hardwood trees growing underneath. When the forest is harvested, the stems of sawtimber trees are sold to sawmills that make higher-grade solid wood products like furniture. The tops and branches of sawtimber trees and the crooked hardwood trees from below cannot be made into solid wood products, but need to be removed from the site so the next generation of the forest can begin growing. These harvest byproducts are sold to consumer of lower-grade wood like Enviva.

### **Enviva's Commitment to Responsible Fiber Sourcing**

#### *Track & Trace®*

Enviva has implemented management systems to ensure that the wood used to make wood pellets meets our strict sustainability requirements. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. First, Enviva uses our SFI® Fiber Sourcing verifiable monitoring program as a basis for monitoring tract harvests. Enviva implemented a third-party audited Track & Trace® database which includes information at the tract level, including data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Wood Procurement foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the Cottdale mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill.

The Track & Trace® data collection is supported by tract audits performed by Enviva foresters. During tract audits, Enviva foresters validate data on the tract characteristics in addition to ensuring that best management practices (BMPs) for water quality are properly implemented, special sites are properly protected, and loggers are trained, along with other metrics for responsible harvesting. At the Cottdale mill, Enviva only accepts wood from tracts in which the logger has completed and maintains training through a SFI®-approved trained logger program. If any of these monitoring programs uncover issues with incoming raw material, Enviva will contact suppliers to notify them of the issue. If needed, Enviva will cease accepting deliveries from a supplier who does not perform to our sustainability standards. Enviva will not accept further deliveries from a poorly performing supplier until the supplier demonstrates the ability to adhere to Enviva's sustainability requirements.

### *Secondary Feedstock*

Enviva purchases sawmill and wood industry residues in the form of sawdust, shavings, or other waste products from the milling process (Figure 1). Secondary feedstock suppliers receive an initial visit prior to beginning deliveries, to verify their operations and products. All sawmill and wood industry suppliers are required to complete a Residual Supplier Reporting Form, providing Enviva with information on the source of their wood supply as well as any certifications and species used. Enviva includes their supply areas in our supply base evaluation and provides each supplier with feedback on their supply area, noting any areas of risk that may be present. Enviva may choose to cease deliveries from a supplier which refuses to provide the necessary data for us to properly include their supply area in our risk assessment. Enviva contacts each sawmill and wood industry supplier annually to ensure their data is accurate.

With this information, in addition to our internal expertise and knowledge of the location of the mill and the products it produces, Enviva can evaluate each supplier's ability to provide feedstock that meets the SBP Feedstock Standard. Enviva works with its residual suppliers to ensure the data they have provided is complete and accurate, and will regularly check to ensure they are providing the material they have reported. In addition to an initial visit before signing a contract with a residual supplier to verify their operations and products are as-stated, Enviva can monitor the incoming products to ensure they are consistent with the data submitted annually in the Residual Supplier Data Sheet. Further, this data collection and monitoring process is now a part of Enviva's SBP implementation program, and thus is checked annually during certification audits.

## 2.2 Actions taken to promote certification amongst feedstock supplier

Enviva is third party certified in two of the major chain of custody systems (PEFC™ & SFI®). Enviva also maintains certification under the SFI® Fiber Sourcing Program. SFI® Fiber Sourcing requires Enviva to promote sustainable forestry activities and forest certification to our suppliers and landowners. Our staff are actively involved in the Florida SFI® Implementation Committee, which is a group of SFI® certified companies that work together to enhance on-the-ground forestry operations in Florida.

Enviva actively pursues feedstock from certified sources to encourage those landowners to maintain and expand their certified holdings. Enviva foresters are active in the Alabama and Florida Forestry Associations and the Florida committee of the American Tree Farm System, both of which promote forest sustainability and certification.

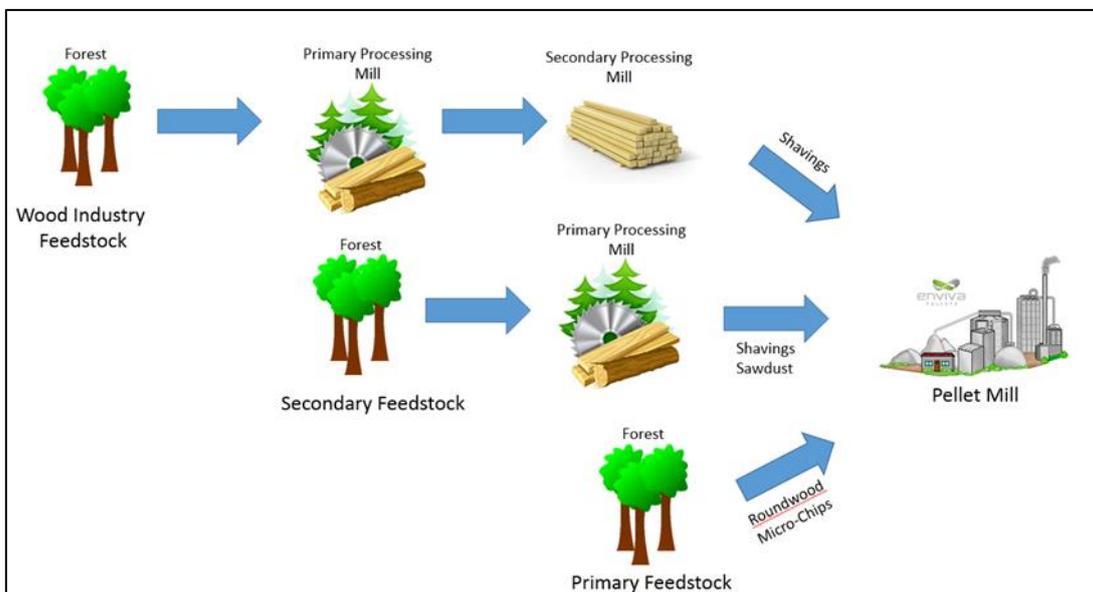
Enviva has partnered with the American Forest Foundation on a multi-year certification and Longleaf restoration project for private landowners in the Florida panhandle. This project will also involve The Nature Conservancy and will focus on restoring Longleaf pine ecosystems, improving wildlife habitat, and increasing certified forest around the Cottondale facility.

## 2.3 Final harvest sampling programme

Feedstock for Enviva Cottondale comes mainly from commercial pine operations, there isn't any significant volume of wood from forests typically managed in 40-year or longer rotations.

## 2.4 Flow diagram of feedstock inputs showing feedstock type [optional]

Figure 5. Typical Process Flow Chart



## 2.5 Quantification of the Supply Base

Provide metrics for the Supply Base including the following. Where estimates are provided these shall be justified.

### Supply Base

- Total Supply Base area (ha): 33,762,835 ha
- Tenure by type (ha):

	Federal	State & Local	Private	Total
<b>Alabama</b>	379,434	257,878	8,709,096	9,346,407
<b>Florida</b>	756,860	1,097,169	4,017,424	5,871,453
<b>Georgia</b>	740,203	340,685	8,860,158	9,941,047
<b>Mississippi</b>	397,420	115,214	3,824,543	4,337,177
<b>South Carolina</b>	332,911	104,962	2,370,009	2,807,882
<b>Tennessee</b>	34,596	59,995	1,364,278	1,458,869
<b>Total</b>	2,641,425	1,975,903	29,145,508	33,762,835

- Forest by type (ha): All of the supply base area is temperate forest
- Forest by management type (ha): Overall, although many pine stands are "planted" they are not intensively managed plantations with little or no understory; instead, once established they are left to

## Focusing on sustainable sourcing solutions

grow and routinely have a hardwood dominated understory. Therefore, it is difficult to determine the exact percentage of true plantations in the region.

- e. Certified forest by scheme (ha):

State	FSC	SFI®	ATFS
Alabama	271,511	1,191,750	1,117,865
Florida	51,154	760,642	438,014
Georgia	33,023	978,992	778,695
Mississippi	101,523	851,852	534,447
South Carolina	132,453	455,989	450,079
Tennessee	40,645	192,313	137,949

## Feedstock

- f. Total volume of Feedstock: 1,210,030 metric tons
- g. Volume of primary feedstock: 779,325 metric tons
- h. List percentage of primary feedstock (g), Subdivide by SBP-approved Forest Management Schemes:
- Certified to an SBP-approved Forest Management Scheme: 22.3%
  - Not certified to an SBP-approved Forest Management Scheme: 77.7%
- i. List all species in primary feedstock, including scientific name

Species of Origin	
Common and Scientific Names	
<b><u>Softwood</u></b>	
Loblolly pine ( <i>Pinus taeda</i> )	
Longleaf pine ( <i>Pinus palustris</i> )	
Pond Pine ( <i>Pinus serotina</i> )	
Slash Pine ( <i>Pinus elliottii</i> )	
Sand Pine ( <i>Pinus clausa</i> )	
<b><u>Hardwood</u></b>	
Black Cherry ( <i>Prunus serotina</i> )	Red Bay ( <i>Persea borbonia</i> )
Black Gum ( <i>Nyssa sylvatica</i> )	Red Maple ( <i>Acer rubrum</i> )
Blackjack Oak ( <i>Quercus marilandica</i> )	River Birch ( <i>Betula nigra</i> )
Black Oak ( <i>Quercus velutina</i> )	River Oak ( <i>Casuarina cunninghamiana</i> )
Black Walnut ( <i>Juglans nigra</i> )	Shumard Oak ( <i>Quercus shumardii</i> )
Cherry Bark Oak ( <i>Quercus pagoda</i> )	Southern Magnolia ( <i>Magnolia grandiflora</i> )
Chinkapin Oak ( <i>Quercus muehlenbergii</i> )	Southern Red Oak ( <i>Quercus flacata</i> )
Hackberry ( <i>Celtis occidentalis</i> )	Sugar Maple ( <i>Acer saccharum</i> )
Hickory ( <i>Carya</i> spp.)	Swamp Bay ( <i>Persea palustris</i> )
Holly ( <i>Ilex opaca</i> )	Swamp Chestnut Oal ( <i>Quercus michauxii</i> )
Laurel Oak ( <i>Quercus laurifolia</i> )	Sweet Bay ( <i>Magnolia virginia</i> )
Live Oak ( <i>Quercus virginiana</i> )	Sweet Gum ( <i>Liquidambar styraciflua</i> )
Northern Red Oak ( <i>Quercus rubra</i> )	Sycamore ( <i>Plantanus occidentalis</i> )
Overcup Oak ( <i>Quercus lyrata</i> )	Water Oak ( <i>Quercus nigra</i> )
Pecan ( <i>Carya illinoensis</i> )	Water Tupelo ( <i>Nyssa aquatic</i> )
Persimmon ( <i>Diospyros virginiana</i> )	White Oak ( <i>Quercus alba</i> )
Pond Cypress ( <i>Taxodium ascendens</i> )	Willow Oak ( <i>Quercus phellos</i> )
Post Oak ( <i>Quercus stellata</i> )	Yellow Poplar ( <i>Liridendron tulipifera</i> )

- j. Volume of primary feedstock from primary forest: 0.0 metric tons
- k. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes:
  - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
  - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
- l. Volume of secondary feedstock: 36% of the total feedstock sourced is delivered as sawdust or shavings, with 99.9% being pine. The feedstock is delivered from within the defined supply base as described in section 2.1.
- m. Volume of tertiary feedstock: 0.0%

### 3 Requirement for a Supply Base Evaluation

SBE completed	SBE not completed
X	<input type="checkbox"/>

Enviva completed a SBE because there currently is no SBP-endorsed Regional Risk Assessment (RRA) in the United States. Annual reviews of the supply base evaluation have been conducted by Enviva and reviewed each year by its certifying body during annual audits.

## 4 Supply Base Evaluation

### 4.1 Scope

Enviva has implemented policies and procedures appropriate to the size and scale of its operations and no indicators were excluded. The definitions of legal and sustainable as used in Standard 1 have been reviewed and met as substantiated in the supply base evaluations. Evidence to support is offered at the supply base level. The supply base evaluation includes all primary and secondary feedstocks that are sourced from counties in all or part of Alabama, Florida, Georgia, Mississippi, South Carolina, and Tennessee.

Enviva conducted a supply base evaluation because there is no SBP approved risk assessment in the US. Enviva developed a set of locally applicable verifiers (LAVs), which include a number of publicly available sources, in addition to the internal monitoring already described. Details on LAVs are in the sections below.

### 4.2 Justification

Only a small proportion of feedstocks is sourced from SBP-approved certification programs, therefore Enviva completed a SBE to justify its rationale for SBP-compliant feedstock. Enviva did not modify any indicators. For the indicators which are not already covered by our existing certifications, Enviva used a number of LAVs to support its risk determinations including:

- FSC US Controlled Wood National Risk Assessment V1-0 D3-0 (FSC US CWNRA)
- All applicable Federal & state laws, including environmental laws, and occupational health and safety laws
- BMP implementation reports
- Stakeholder engagement
- State Natural Heritage programs
- Maps and data regarding high conservation values
- Supplier contracts
- Residual Supplier Reporting Form

### 4.3 Results of Risk Assessment

Each criterion was evaluated and measured against Enviva's existing forest certification and chain of custody programs and the listed LAV's. Information from the FSC US CWNRA was used as a baseline to determine if areas of high conservation value, biodiversity and conversion exist in Enviva's supply base area. Additionally, Enviva asked the US Endowment for Forestry and Communities to assess the supply base area for at risk forest types. Based on this work and local knowledge Enviva determined a rating of "low risk" for each indicator with the exception of 2.1.1, 2.1.2, 2.2.3, 2.2.4 and 2.4.1.

Table 4. Indicators with Specified Risk Ratings

Indicator	Risk Assessment	Management system
<p>2.1.1 The BP has implemented appropriate control systems and procedures for verifying that forests and other areas with high conservation value in the Supply Base are identified and mapped.</p>	<p>The US does not have an SBP approved regional risk assessment that fully considers all of the indicators.</p>	<p>Enviva is using the FSC US CWNRA as the baseline for determining potential areas of high conservation value. Additional work with interested and engaged stakeholders (see Section 6) has been incorporated into the supply base evaluation to supplement Enviva’s ability to accurately map areas of high conservation value</p>
<p>2.1.2 The BP has implemented appropriate control systems and procedures to identify and address potential threats to forests and other areas with high conservation values from forest management activities.</p>	<p>Related to 2.1.1 If areas of high conservation value cannot be adequately identified the management systems or mitigation measures cannot be implemented to reduce risk.</p>	<p>Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of high conservation value. Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk</p>
<p>2.2.3 The BP has implemented appropriate control systems and procedures to ensure that key ecosystems and habitats are conserved or set aside in their natural state (CPET S8b).</p>	<p>Related to 2.1.1 Identification of key ecosystems and habitats is necessary to begin the process of identifying if they are properly conserved or set aside</p>	<p>Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of key ecosystems and habitats. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our reach into additional areas of conservation (See section 6). Enviva has robust management systems that can address these</p>

		areas of specified risk and manage the outcome to low risk.
2.2.4 The BP has implemented appropriate control systems and procedures to ensure that biodiversity is protected (CPET S5b).	Related to 2.1.1 Identification of areas with biodiversity concerns is necessary to begin the process of identifying if they are properly protected	Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of key ecosystems and habitats. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our reach into additional areas of conservation (See section 6). Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk.
2.4.1 The BP has implemented appropriate control systems and procedures for verifying that the health, vitality and other services provided by forest ecosystems are maintained or improved (CPET S7a).	Related to 2.1.1 Identification of forest ecosystems that provide key services is necessary to ensure proper control systems are employed to ensure forest health, vitality and other services are maintained	Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified key forest ecosystems. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our reach into additional areas of conservation (See section 6) Enviva has robust management systems that can address these

		areas of specified risk and manage the outcome to low risk.
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## 4.4 Results of Supplier Verification Programme

No indicators were defined as unspecified risk so therefore a Supplier Verification Program is not required.

## 4.5 Conclusion

Enviva has completed a robust supply base evaluation that fully meets the SBP requirements. All criterion have been fully evaluated and appropriate procedures and controls are in place to ensure successful management of the indicators with specified risk to low risk. As described above, Enviva has an extremely sophisticated data collection and monitoring program which supports the conclusions and actions in the risk assessment. Enviva’s has well established and industry recognized best practices which are described in our commitment to responsible wood sourcing.

### Enviva’s Commitment to Responsible Wood Sourcing

#### *Track & Trace®*

Enviva has implemented management systems to ensure that the wood used to make wood pellets meets our strict sustainability requirements. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. First, Enviva uses our SFI Fiber Sourcing verifiable monitoring program as a basis for monitoring tract harvests. In addition, we maintain a third-party audited Track & Trace® database which includes information at the tract level, including data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the Cottondale mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill.

The Track & Trace® data collection is supported by tract audits performed by Enviva foresters. During tract audits, Enviva foresters validate data on the tract characteristics in addition to ensuring that best management practices (BMPs) for water quality are properly implemented, special sites are properly protected, and loggers are trained, along with other metrics for responsible harvesting. Enviva only accepts wood from tracts in which the logger has completed and maintains training through a SFI-approved trained logger program. Enviva’s Track & Trace® data collection process indicates that Enviva receives 37% of its incoming primary material from final fellings that are typically managed in rotations =/>40 years old. If any of these monitoring programs uncover issues with incoming raw material, Enviva will contact suppliers to notify them of the issue. If needed, Enviva will cease accepting deliveries from a supplier who does not perform to our sustainability standards. Enviva will not accept further deliveries from a poorly performing supplier until the supplier demonstrates the ability to adhere to Enviva’s sustainability requirements.

*Identifying and protecting High Conservation Value (HCV) Areas: Partnership with the US Endowment, Enviva's tract approval process, and the Enviva Forest Conservation Fund*

As part of its stakeholder engagement, Enviva worked with The US Endowment for Forestry and Communities to determine other areas of high conservation value found in the southeast US. The Endowment consulted with leading independent academics and environmental organizations and identified four specific bottomland priority forest types; cypress-tupelo swamps, Atlantic white cedar stands, Pocosins and Carolina bays.

While gathering Track & Trace® data on specific tracts prior to purchase, Enviva's foresters must evaluate whether there is a risk that the tract might be considered HCV. This assessment is conducted on a site-by-site basis in order to evaluate the condition of the stand and to maximize the likelihood of regeneration of desirable species post-harvest. Approximately 83% of the forests in Enviva's Cottondale wood supply base are privately owned, meaning that their owners have considerable freedom in choosing how to manage these lands. Markets for timber from working bottomland hardwoods provide an important incentive for landowners to maintain their forests as forests.

There is no general consensus, at a site by site level, of what makes a bottomland hardwood stand also a HCV. For example, the Draft US FSC National Risk Assessment defines HCV bottomland hardwood stands as those that are 80 years or older and have the structure and composition of old-growth stands. However, FSC does not physically designate where those forests are found. Other groups may have their own descriptions of precisely what constitutes a HCV bottomland forest, based on their own organizational goals. Some are long-term focused and are interested in ensuring that bottomland hardwood forests are connected on the landscape and are still thriving in light of climate change. Others feel that all bottomland hardwood forests are inherently HCV and should be protected. Because a general consensus does not exist and we do know that most of these forests are appropriately categorized as working forests, Enviva developed its own set of site specific characteristics that can help us to determine in a granular fashion, at the site by site level, whether certain stand is actually a HCV tract.

Overall, when deciding whether to purchase primary feedstock from a given tract, Enviva's goal is to determine whether that tract will, if harvested, produce a new tract with the same desirable species content that was present before harvest. Indicators that should be considered in this decision include forest type (i.e. whether it is likely one of the four priority forest types), location, species composition, hydrology and water flow, stand age and soil saturation. When assessing a tract for HCVs, Enviva evaluates all of these important characteristics. If there is evidence based on this first level of evaluation that the site may be an HCV bottomland, then the forester must perform a second level review which includes an on-site assessment, data collection and documentation prior to purchase. At the landscape scale, we endeavour to contribute to a working forest landscape with a diversity of age classes representing bottomland hardwood assemblages which can, over the long and short term, provide wildlife habitat, recreation, buffers for climate change, and other ecosystem services, while still playing a pivotal role in conservation and working forests in the Cottondale supply base area.

### *Minimizing risk from Secondary Feedstock*

Enviva purchases sawmill and wood industry residues in the form of sawdust, shavings, or other waste products from the milling process (Figure 4). Secondary feedstock suppliers receive an initial visit prior to beginning deliveries, to verify their operations and products. All sawmill and wood industry suppliers are required to complete a Residual Supplier Reporting Form, providing Enviva with information on the source of their wood as well as any certifications and species used. Enviva includes their supply areas in our supply base evaluation and provides each supplier with feedback on their supply area, noting any areas of risk that may be present. Enviva may choose to cease deliveries from a supplier which refuses to provide the necessary data for us to properly include their supply area in our risk assessment. Enviva contacts each sawmill and wood industry supplier annually to ensure their data are accurate.

### *Senior Management Involvement*

Senior management is fully engaged and involved in the success of SBP Standard conformance. Enviva has a well-qualified and knowledgeable staff whom are capable of maintaining process control to achieve conformance to the SBP Standards. Each criterion has specific controls (e.g. contractual, field verification, supplier data requests) to provide Enviva with the best level of confidence to ensure conformance to the criteria included in the SBP Standard.

## 5 Supply Base Evaluation Process

Enviva has a well-rounded competent staff of professionals with many years of experience in forest certification programs, policy and procedure development and natural resource management. These collective experiences and talents provided Enviva the ability to conduct its own supply base evaluation and risk assessment.

The Enviva Cottdale supply base area includes counties in all or part of Alabama, Florida, Georgia, Mississippi, South Carolina, and Tennessee. Data from Enviva's internal Track & Trace® and other monitoring programs are reviewed annually to ensure the appropriate area is included in the risk assessment. When needed, Enviva will scope in additional counties based on information from its suppliers following the process outlined in the SBP Standards. Using all these data sources, Enviva has mapped its supply base for primary and secondary feedstock inputs for all facilities. According to the USFS FIA database the total forested Enviva supply area is 33,585,789 ha and all are considered temperate forest.

Enviva used the FSC US Controlled Wood National Risk Assessment V1-0 D3-0, stakeholder engagement, its third party certified PEFC/SFI Due Diligence System and FSC Controlled Wood Risk Assessment to continually improve the SBE. Various third party data sources were also used for research in the region such as; Forest Stewardship Council, The Nature Conservancy, United States Forest Service, United States Department of Labor, United States Department of Environmental Protection, State Forest Service Divisions, National Council for Air and Stream Improvement, World Wildlife Fund, World Bank Governance Index, Illegal Logging Portal, Transparency International Conservation International, World Resources Institute, Convention on International Trade in Endangered Species, International Union for Conservation of Nature and the Databasin web mapping tool.

Continued stakeholder engagement has helped Enviva identify forest types and habitats that can benefit from forest management. Section 6 contains additional information.

## 6 Stakeholder Consultation

### 2018 Update

In early 2018, Enviva reached out to the Florida chapter of The Nature Conservancy (TNC) to get their technical advice on the appropriateness of our sourcing of microchips from scrubby upland hardwood stands, particularly when landowners or land managers intended to replace the offsite HW stands and restore pine stands. TNC concurred that microchipping is an appropriate restoration tool and even took us to a stand at one of their preserves near Cottondale where they wanted microchipping conducted to remove scrubby HW as part of their longleaf restoration. TNC's feedback was consistent with the prior use of microchipping as part of longleaf restoration at Falling Waters and Torreya State Parks. To get a wider range of stakeholders aware of the pine savanna restoration potential of microchipping, we held a workshop on June 22<sup>nd</sup>, 2018, and had 33 attendees from including suppliers, conservation organizations, landowner representatives, state and federal agencies, and others

In 2018 Enviva partnered with a supplier and the Geneva State Forest Wildlife Management Area located in Covington County, Alabama to use forestry management techniques to improve 880 acres of densely planted pines to improve Gopher Tortoise habitat..

The same supplier also used forest management techniques to convert 370 acres of off-site pine and low value hardwood on Eglin Air Force Base in Okaloosa County, Florida as part of a Longleaf Pine restoration project. We described our collaboration on longleaf around Cottondale in the following blog <http://www.envivabiomass.com/voices-of-enviva/collaboration-key-to-expanding-longleaf-restoration-in-the-florida-panhandle/>

Organizations attending our June 22<sup>nd</sup>, 2018 workshop on microchipping and restoration in the FL panhandle.

### 2017 Update

Because the supply base area for Cottondale changed slightly in 2016, Enviva performed a second stakeholder consultation from December 16, 2016 through February 3, 2017 to ensure all available data were considered in the SBE process. Enviva gathered contact information for 130 of local, potentially interested stakeholders and conducted the consultation via email. Each individual received a copy of the current SBE and a comment form, with instructions on how to comment. Enviva also set up a separate webpage on its website for each consultation as well that contained all the same information as the email and had a downloadable SBE and comment form.

Table 5. Stakeholder Consultation Contact List

1000 Friends of Florida	Mississippi SAF
25 X 25	Mississippi TNC
AF&PA	Mississippi Wildlife Federation
Alabama ATFS	MS State Univ.
Alabama Forestry Association	MSU Extension Service
Alabama Forestry Commission	NAFO
Alabama SAF	NASF
Alabama TNC	National Wildlife Federation
Alabama Wildlife Federation	NCASI
American Forest Foundation	USDA Natural Resource Conservation Service
American Forest Management	Natural Resource Defense Council
Applichicola River Keepers	NW Florida Water Mgt District
Auburn University	Panhandle Forestry Services
Audubon	Pinchot Institute
Audubon Florida	Rex Lumber
Bay County Conservancy	RSB National Wildlife Federation
Clemson University	Sapp's Land Clearing & Excavation
Conservation Advisors LLC	Seaboard Timber
Conservation Fund	SELC
Dogwood	South Carolina ATFS
Ducks Unlimited	South Carolina Forestry Commission
E.O. Wilson Biophilia Center	South Carolina Landowners Association
Florida ATFS	South Carolina SAF
Florida DEP Northwest District	South Carolina TNC
Florida Fish & Wildlife Commission	South Carolina Wildlife Federation
Florida Forest Service	Southeast Woodland Owners Assoc
Florida Forestry Association	Southeastern Wood Producers Association
Florida Native Plant Society	Southern Forestry Consultants
Florida SAF	Spanish Trail Lumber Co.
Florida TNC	St. Joe Timberland
Florida Wildlife Federation	St. Johns River WMD
Forest Investment Associates	Sustainable Florida
Forest Landowners Association	Suwannee River WMD
Forest Stewards Guild	Tall Timbers Research Station
Forestry Association of South Carolina	Tennessee Forestry Association
Gelbert, Fullbright & Randolph Forestry	Tennessee ATFS
Georgia ATFS	Tennessee Department of Ag - Forestry
Georgia Forestry Association	Tennessee SAF
Georgia Forestry Commission	Tennessee TNC
Georgia Master Timber Harvester Program	Tennessee Wildlife Federation
Georgia Society of American Foresters	The Conservation Fund
Georgia TNC	Timber Investment Resources
Georgia Wildlife Federation	TNC
Inter Tribal Timber Council	Trust for Public Land
Interfor	UF School of Forest Resources and Conservation
Jackson County Commissioners	United South and Eastern Tribes Inc.
Lake Powell Community Alliance	University of Georgia
Longleaf Alliance	University of Tennessee
Mississippi ATFS	US Endowment for Forestry and Communities
Mississippi Forestry Association	West Fraser
Mississippi Forestry Commission	Whitfield Timber Company
Mississippi Loggers Association	WMI
Mississippi Native Plant Society	World Wildlife Fund

## 6.1 Response to stakeholder comments

Enviva received 2 comments during this consultation, both from the Florida Fish and Wildlife Conservation Commission (FFWCC).

### Comment #1

Indicator Number (i.e. 1.1.1)	Indicator Description (i.e. The BP Supply Base is defined and mapped)
2.1.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that forests and other areas with high conservation value in the Supply Base are identified and mapped.
Relevant SBE Area(s) (list Mill Location(s))	All Florida counties (Cottondale)
Comment(s) on LAV(s)	<p>Enviva's Cottondale Supply Base Evaluation (Document # ENV-SBP-03, p 11) mentions Florida's Forestry Wildlife Best Management Practices (FWBMPs) for State Imperiled Species and states that they "...offer additional protection for the Gopher Tortoise during silvicultural operations in the state of Florida." It should be noted that these practices are voluntary and are therefore only effective where they have been implemented by Enviva's suppliers. These practical guidelines were designed to protect the 16 state-listed species that are expected to be impacted by silvicultural activities in Florida (FDACS 2014). The Florida Fish and Wildlife Conservation Commission (FWC) is the state agency responsible for state-listed fish and wildlife resources pursuant to its authorities under Chapter 379 Florida Statutes and Chapter 68A-27 of the Florida Administrative Code.</p> <p>FWC staff appreciates that purchased stumpage tracts are assessed for the presence of the Natural Heritage Program's Globally Ranked G-1 or G-2 species or communities (Document # ENV-SBP-03, p 11). This assessment has the potential to protect several state-listed species, such as the Florida bog frog (<i>Lithobates okaloosae</i>, State Species of Special Concern, G-2). However, many state-listed species do not fall into either of these rankings. For example, the Southeastern American kestrel (<i>Falco sparverius paulus</i>, State Threatened) is ranked G-5 by the Natural Heritage Program. However, Southeastern American kestrels have gone through large population declines over the last several decades that are continuing today (Hoffman and Collopy 1988, Sauer et al. 2007, Smallwood and Collopy 2009, Smallwood et al. 2009). Partly due to their small geographic range and declining population, this species has been classified as State-designated Threatened in Florida (FFWCC 2011). Florida's FWBMPs specifically address this species and others that may not be ranked as G-1 or G-2, but still are considered imperiled in the state of Florida.</p> <p>The FWBMPs are intended to be a practical approach to balancing natural resource conservation and forest resource utilization (FDACS 2014). FWC staff and the Florida Forest Service are responsible for monitoring the operations of landowners who have submitted Notices of Intent for the FWBMP program. FWC staff recognize and appreciate</p>

	Enviva's previous efforts to promote FWBMPs in Florida. Should Enviva wish to have further conversation about FWBMPs for this effort, please contact FWC staff at 850-617-9380 or FFS staff at 850-681-5820.
Supporting Evidence	<p>Florida Department of Agriculture and Consumer Services. (2014). Florida Forestry Wildlife Best Management Practices for State Imperiled Species (FDACS-01869). <a href="http://www.flrules.org/Gateway/reference.asp?No=Ref-04603">http://www.flrules.org/Gateway/reference.asp?No=Ref-04603</a></p> <p>Florida Fish and Wildlife Conservation Commission. (2011). Biological Status Review for the Southeastern American Kestrel (<i>Falco sparverius paulus</i>).</p> <p>Hoffman, M.L., and M.W. Collopy. 1988. Historical status of the American kestrel (<i>Falco sparverius paulus</i>) in Florida. <i>Wilson Bulletin</i> 100: 91 – 107.</p> <p>Sauer, J. R., J. E. Hines, and J. Fallon. 2007. The North American Breeding Bird Survey, Results and Analysis 1966-2006. Version 10.13.2007, USGS Patuxent Wildlife Research Center, Laurel, Maryland. <a href="http://www.mbr-pwrc.usgs.gov/bbs/bbs.html">http://www.mbr-pwrc.usgs.gov/bbs/bbs.html</a></p> <p>Smallwood, J.A., M.F. Causey, D.H. Mossop, J.R. Klucsarits, B. Robertson, S. Robertson, J. Mason, M.J. Maurer, R.J. Melvin, R.D. Dawson, G.R. Bortolotti, J.W. Parrish, Jr., T.F. Breen, and K. Boyd. 2009. Why are American kestrel (<i>Falco sparverius</i>) populations declining in North America? Evidence from nest-box programs. <i>Journal of Raptor Research</i> 43: 274 – 282.</p> <p>Smallwood, J.A., and M.W. Collopy. 2009. Southeastern American kestrels respond to an increase in the availability of nest cavities in north-central Florida. <i>Journal of Raptor Research</i> 43: 291 – 300.</p>

## Focusing on sustainable sourcing solutions

### Enviva Response:

Enviva appreciated the time the FFWCC took to reply to our consultation. We agree with the comment and changed the wording in the SBE to include that FWBMP's are voluntary and only effective when implemented. Enviva foresters are trained in FWBMP's and can and will assist landowners in identifying and protecting the 16 species listed in the guidelines. Stumpage landowners will now receive information on the Notice of Intent process and how to implement FWBMP's.

### Comment #2

<b>Indicator Number (i.e. 1.1.1)</b>	<b>Indicator Description (i.e. The BP Supply Base is defined and mapped)</b>
2.2.1	The BP has implemented appropriate control systems and procedures to verify that feedstock is sourced from forests where there is appropriate assessment of impacts, and planning, implementation, and monitoring to minimize them.
<b>Relevant SBE Area(s) (list Mill Location(s))</b>	All Florida counties (Cottondale)
<b>Comment(s) on LAV(s)</b>	Enviva's Cottondale Supply Base Evaluation (Document # ENV-SBP-03, p 21) states that Enviva requires, through its contracts, that raw material suppliers employ silviculture Best Management Practices (referred to as "forestry Best Management Practices" in the document) during harvest. These practices were primarily designed to protect water quality, but can help protect certain wildlife habitats, particularly aquatic habitats (FDACS

	<p>2008). Florida Fish and Wildlife Conservation Commission (FWC) staff encourage Enviva to also continue promoting the adoption of Florida's Forestry Wildlife Best Management Practices (FWBMPs) for State Imperiled Species among their direct and indirect suppliers. The FWC is the state agency responsible for state-listed fish and wildlife resources pursuant to its authorities under Chapter 379 Florida Statutes and Chapter 68A-27 of the Florida Administrative Code.</p> <p>The FWBMPs were developed to enhance the contribution of silviculture to the conservation and management of wildlife in the state (FDACS 2014). The FWBMPs were designed to protect 16 of Florida's state-listed (protected) species expected to occur in areas where silviculture may cause impacts. For example, burrowing owls (<i>Athene cunicularia</i>, State Species of Special Concern), gopher tortoises (<i>Gopherus polyphemus</i>, State Threatened), and Florida sandhill cranes (<i>Grus canadensis pratensis</i>, State Threatened) are all state-listed species that may be protected by FWBMPs where they have been adopted and implemented (FDACS 2014).</p> <p>The FWBMPs are intended to be a practical approach to balancing natural resource conservation and forest resource utilization (FDACS 2014). FWC staff and the Florida Forest Service are responsible for monitoring the operations of landowners who have submitted Notices of Intent for the FWBMP program. FWC staff recognize and appreciate Enviva's previous efforts to promote FWBMPs in Florida. Should Enviva wish to have further conversation about FWBMPs for this effort, please contact FWC staff at 850-617-9380 or FFS staff at 850-681-5820.</p>
<b>Supporting Evidence</b>	<p>Florida Department of Agriculture and Consumer Services. (2014). Florida Forestry Wildlife Best Management Practices for State Imperiled Species (FDACS-01869). <a href="http://www.flrules.org/Gateway/reference.asp?No=Ref-04603">http://www.flrules.org/Gateway/reference.asp?No=Ref-04603</a></p> <p>Florida Department of Agriculture and Consumer Services. (Revised 2008). Silviculture Best Management Practices. <a href="http://www.freshfromflorida.com/Divisions-Offices/Florida-Forest-Service/For-Landowners/Best-Management-Practices-BMP">http://www.freshfromflorida.com/Divisions-Offices/Florida-Forest-Service/For-Landowners/Best-Management-Practices-BMP</a></p>

### Enviva Response:

Enviva agrees that we can assist the FFWCC in expanding the use of wildlife BMPs and will do so. We now state in our SBE that Enviva promotes wildlife BMP's to our primary suppliers, secondary suppliers, and stumpage landowners via the FWBMP fact sheet.

## 7 Overview of Initial Assessment of Risk

Section 4 Supply Base Evaluation and Section 4.3 Results of Risk Assessment contain information regarding the findings described in Table 10.

Table 6. Overview of results from the risk assessment of all Indicators (prior to SVP)

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		X	
1.1.2		X	
1.1.3		X	
1.2.1		X	
1.3.1		X	
1.4.1		X	
1.5.1		X	
1.6.1		X	
2.1.1	X		
2.1.2	X		
2.1.3		X	
2.2.1		X	
2.2.2		X	
2.2.3	X		
2.2.4	X		
2.2.5		X	
2.2.6		X	
2.2.7		X	
2.2.8		X	
2.2.9		X	
2.3.1		X	
2.3.2		X	
2.3.3		X	
2.4.1	X		
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

## 8 Supplier Verification Programme

### 8.1 Description of the Supplier Verification Programme

No SVP is required.

### 8.2 Site visits

NA

### 8.3 Conclusions from the Supplier Verification Programme

NA

## 9 Mitigation Measures

### 9.1 Mitigation measures

To read full details for each indicator please see Annex 1.

Table 7. 2019 Report Findings

Indicator	Management System	Means of Verification
<p>2.1.1 2.1.2</p>	<p>Use of FSC US CWNRA and stakeholder engagement to develop appropriate maps of high conservation value areas</p> <p>Control system/Procedures Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>• Illegally harvest wood;</li> <li>• Wood harvested in violation of traditional and civil rights;</li> <li>• Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>• Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>• Wood from forests were genetically modified trees are planted;</li> <li>• Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. The</p>	<ul style="list-style-type: none"> <li>• ENV-SFIS-01 SFI Certified Sourcing Implementation Manual</li> <li>• ENV-COC-01 Enviva Chain of Custody Procedures &amp; Implementation</li> <li>• ENV-COC-03 Controlled Sources Risk Assessment</li> <li>• FSC US Controlled Wood National Risk Assessment</li> <li>• Stakeholder engagement</li> <li>• Master Wood Purchase Agreement</li> <li>• State BMP Manuals</li> <li>• Track &amp; Trace®</li> <li>• HCV Tract Approval Process</li> <li>• District of Origin Process</li> </ul>

	<p>Agreement requires suppliers to abide by forest management activities regulations.</p> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. The Agreement requires suppliers to avoid feedstock sources from land use change.</p> <p>Enviva uses its Tract Approval process and District of Origin process to assess feedstock purchases conformance to these indicators</p>	
<p>2.2.3 2.2.4 2.4.1</p>	<p>Control system/Procedures Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood: (items related to this indicator are underlined)</p> <ul style="list-style-type: none"> <li>• Illegally harvest wood;</li> <li>• Wood harvested in violation of traditional and civil rights;</li> <li>• Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>• Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>• Wood from forests were genetically modified trees are planted;</li> <li>• Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. ENV-SFIS-01 Certified Sourcing Implementation Manual</li> <li>c. Track &amp; Trace® Program</li> <li>d. ENV-COC-01 Implementation Manual</li> <li>e. ENV-COC-02 CS Procedure</li> <li>f. ENV-COC-03 CS Risk Assessment</li> <li>g. Master Wood Purchase Agreement</li> <li>h. Track &amp; Trace®</li> <li>i. District of Origin Process</li> <li>j. HCV Tract Approval Process</li> <li>k. State BMP Manuals and BMP monitoring data</li> </ol>

	<p>The Master Wood Purchase Agreement requires suppliers to avoid key ecosystems and habitats such as old growth forests and forest that could be threatened by forest management activities.</p> <p>The Enviva Forest Conservation Fund, a \$5 million, 10-year program sponsored by Enviva and administered by the U.S. Endowment for Forestry and Communities, is designed to protect tens of thousands of acres of sensitive bottomland forests in the Virginia-North Carolina coastal plain. The Enviva Forest Conservation Fund will award matching-fund grants to non-profit organizations to permanently protect ecologically sensitive areas and preserve working forests. (<a href="http://envivaforestfund.org/">http://envivaforestfund.org/</a>)</p> <p>Enviva uses its Tract Approval process and District of Origin process to assess feedstock purchases conformance to these indicators</p>	
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## 9.2 Monitoring and outcomes

In 2018 Enviva conducted 43 field site inspections in Enviva’s Cottondale supply base area. Field inspection to monitor program implementation such as forestry BMP implementation adherence and adherence to Enviva HCV Tract Approval process. No instances of program violations related to high conservation values, biodiversity or negative impact to health or vitality of key ecosystems were recorded. One tract was found to be out of compliance for state water quality according to Enviva’s guidelines but not according state BMP guidelines.

Enviva’s District of Origin process requires secondary feedstock suppliers to annually complete a Data Request Form. These forms are used to assess changes in a secondary feedstock suppliers sourcing

practices and to determine if the feedstock provided by the supplier is SBP-compliant or SBP-controlled. In 2018 Cottondale received secondary feedstock from 48 suppliers, all are SBP-compliant based on their responses to Enviva Data Request Form and known high conservation value areas.

## 10 Detailed Findings for Indicators

Detailed findings for each Indicator are given in Annex 1.

## 11 Review of Report

### 11.1 Peer review

The supply base evaluation is reviewed annually and revised to include credible third-party information and internally generated information developed through Enviva's robust suite of programs and processes.

### 11.2 Public or additional reviews

The supply base evaluation was reviewed by the certifying body during audit.

## 12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:	<i>Don Grant</i>	<i>Manager, Sustainability Standards</i>	<i>4/2/2019</i>
	Name	Title	Date
The undersigned persons confirm that I/we are members of the organisation’s senior management and do hereby affirm that the contents of this evaluation report were duly acknowledged by senior management as being accurate prior to approval and finalisation of the report.			
Report approved by:	<i>Jennifer Jenkins, PhD</i>	<i>Vice President and Chief Sustainability Officer</i>	<i>4/23/2019</i>
	Name	Title	Date
Report approved by:	<i>Thomas Meth</i>	<i>Executive Vice President Sales &amp; Marketing</i>	<i>4/30/2019</i>
	Name	Title	Date

## 13 Updates

### 13.1 Significant changes in the Supply Base

There were no changes to the supply base area in 2018.

### 13.2 Effectiveness of previous mitigation measures

#### 2019 report findings

In 2018 Enviva conducted 43 field site inspections in Enviva's Cottondale supply base area. Field inspection to monitor program implementation such as forestry BMP implementation adherence and adherence to Enviva HCV Tract Approval process. No instances of program violations related to high conservation values, biodiversity or negative impact to health or vitality of key ecosystems were recorded. One tract was found to be out of compliance for state water quality according to Enviva's guidelines but not according state BMP guidelines.

Enviva's District of Origin process requires secondary feedstock suppliers to annually complete a Data Request Form. These forms are used to assess changes in a secondary feedstock suppliers sourcing practices and to determine if the feedstock provided by the supplier is SBP-compliant or SBP-controlled. In 2018 Cottondale received secondary feedstock from 48 suppliers, all are SBP-compliant based on their responses to Enviva Data Request Form and known high conservation value areas

#### 2018 report findings

One of the foremost mitigation measures for high conservation value areas within the Enviva Cottondale supply base is compliance with Best Management practices. State wide BMP compliance rates are a strong indicator of how forest harvesting activities are conducted within the supply bases of our residual suppliers. In 2017 Florida reported a 99.6% BMP compliance rate, representing a 0.3% increase from 2015. 96% of sites evaluated in Florida scored 100% for BMP implementation, which is an increase of 6% since 2015 (Florida Forest Service, 2018). Georgia's 2017 BMP compliance rate was 93.2%, a 2% increase from 2015 (Georgia Forestry Commission, 2018). Alabama has a current BMP compliance rate of 98.2%, 0.4% greater than the previous survey (Alabama Forestry Commission, 2018). The other states within the supply base have not released survey updates at this time. BMP implementation and effectiveness are both linked to logger training and In 2017 SFI® reported that over 10,800 harvesting and resource professionals participated training courses (SFI® Inc, 2018). The Longleaf Partnership Council in conjunction with the Longleaf Alliance conducts regular monitoring of longleaf restoration efforts within the natural range of longleaf pine. In the 2015 Range-Wide Accomplishment Report published in 2016, the council reported longleaf restoration efforts on 520,217 acres, which was an increase in over 200,000 acres from 2014 (Longleaf Partnership Council, 2016).

### 13.3 New risk ratings and mitigation measures

2019 report findings

Risk designations are as described in Sections 4 and 9.

Indicator	Risk Assessment	Management system
<p>2.1.1 The BP has implemented appropriate control systems and procedures for verifying that forests and other areas with high conservation value in the Supply Base are identified and mapped.</p>	<p>The US does not have an SBP approved regional risk assessment that fully considers all of the indicators.</p>	<p>Enviva is using the FSC US CWNRA as the baseline for determining potential areas of high conservation value. Additional work with interested and engaged stakeholders (see Section 6) has been incorporated into the supply base evaluation to supplement Enviva’s ability to accurately map areas of high conservation value</p>
<p>2.1.2 The BP has implemented appropriate control systems and procedures to identify and address potential threats to forests and other areas with high conservation values from forest management activities.</p>	<p>Related to 2.1.1 If areas of high conservation value cannot be adequately identified the management systems or mitigation measures cannot be implemented to reduce risk.</p>	<p>Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of high conservation value. Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk</p>
<p>2.2.3 The BP has implemented appropriate control systems and procedures to ensure that key ecosystems and habitats are conserved or set aside in their natural state (CPET S8b).</p>	<p>Related to 2.1.1 Identification of key ecosystems and habitats is necessary to begin the process of identifying if they are properly conserved or set aside</p>	<p>Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of key ecosystems and habitats. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our</p>

		reach into additional areas of conservation (See section 6). Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk.
2.2.4 The BP has implemented appropriate control systems and procedures to ensure that biodiversity is protected (CPET S5b).	Related to 2.1.1 Identification of areas with biodiversity concerns is necessary to begin the process of identifying if they are properly protected	Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified areas of key ecosystems and habitats. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our reach into additional areas of conservation (See section 6). Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk.
2.4.1 The BP has implemented appropriate control systems and procedures for verifying that the health, vitality and other services provided by forest ecosystems are maintained or improved (CPET S7a).	Related to 2.1.1 Identification of forest ecosystems that provide key services is necessary to ensure proper control systems are employed to ensure forest health, vitality and other services are maintained	Related to 2.1.1 Enviva’s use of the FSC US CWNRA and stakeholder engagement has adequately identified key forest ecosystems. Additionally, Enviva’s Forest Conservation Fund provides grant monies to successful applicant to help them set aside or conserve forests containing high conservation values, key ecosystems and habitats. Further, Enviva’s ongoing engagement with interested stakeholders has extended our reach into

		additional areas of conservation (See section 6) Enviva has robust management systems that can address these areas of specified risk and manage the outcome to low risk.
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2018 report findings

Because of the proven effectiveness of Enviva's Track & Trace Program, Secondary Supplier District of Origin Process and the strength of existing laws and regulation that exists in the United States offered in this reports Annex 1 Supply Base Evaluation, Enviva has moved Indicator 2.2.4 to low risk.

## 13.4 Actual figures for feedstock over the previous 12 months

2019 update

### Feedstock

- n. Total volume of Feedstock: 1,210,030 metric tons
- o. Volume of primary feedstock: 779,325 metric tons
- p. List percentage of primary feedstock (g), Subdivide by SBP-approved Forest Management Schemes:
  - Certified to an SBP-approved Forest Management Scheme: 22.3%
  - Not certified to an SBP-approved Forest Management Scheme: 77.7%
- q. List all species in primary feedstock, including scientific name

Species of Origin	
Common and Scientific Names	
<b><u>Softwood</u></b>	
Loblolly pine ( <i>Pinus taeda</i> )	
Longleaf pine ( <i>Pinus palustris</i> )	
Pond Pine ( <i>Pinus serotina</i> )	
Slash Pine ( <i>Pinus elliottii</i> )	
Sand Pine ( <i>Pinus clausa</i> )	
<b><u>Hardwood</u></b>	
Black Cherry ( <i>Prunus serotina</i> )	Red Bay ( <i>Persea borbonia</i> )
Black Gum ( <i>Nyssa sylvatica</i> )	Red Maple ( <i>Acer rubrum</i> )
Blackjack Oak ( <i>Quercus marilandica</i> )	River Birch ( <i>Betula nigra</i> )
Black Oak ( <i>Quercus velutina</i> )	River Oak ( <i>Casuarina cunninghamiana</i> )
Black Walnut ( <i>Juglans nigra</i> )	Shumard Oak ( <i>Quercus shumardii</i> )
Cherry Bark Oak ( <i>Quercus pagoda</i> )	Southern Magnolia ( <i>Magnolia grandiflora</i> )
Chinkapin Oak ( <i>Quercus muehlenbergii</i> )	Southern Red Oak ( <i>Quercus flacata</i> )
Hackberry ( <i>Celtis occidentalis</i> )	Sugar Maple ( <i>Acer saccharum</i> )
Hickory ( <i>Carya</i> spp.)	Swamp Bay ( <i>Persea palustris</i> )
Holly ( <i>Ilex opaca</i> )	Swamp Chestnut Oal ( <i>Quercus michauxii</i> )
Laurel Oak ( <i>Quercus laurifolia</i> )	Sweet Bay ( <i>Magnolia virginia</i> )
Live Oak ( <i>Quercus virginiana</i> )	Sweet Gum ( <i>Liquidambar styraciflua</i> )
Northern Red Oak ( <i>Quercus rubra</i> )	Sycamore ( <i>Plantanus occidentalis</i> )
Overcup Oak ( <i>Quercus lyrata</i> )	Water Oak ( <i>Quercus nigra</i> )
Pecan ( <i>Carya illinoensis</i> )	Water Tupelo ( <i>Nyssa aquatic</i> )
Persimmon ( <i>Diospyros virginiana</i> )	White Oak ( <i>Quercus alba</i> )
Pond Cypress ( <i>Taxodium ascendens</i> )	Willow Oak ( <i>Quercus phellos</i> )
Post Oak ( <i>Quercus stellata</i> )	Yellow Poplar ( <i>Liridendron tulipifera</i> )

- r. Volume of primary feedstock from primary forest: 0.0 metric tons
- s. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes:
  - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
  - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
- t. Volume of secondary feedstock: 36% of the total feedstock sourced is delivered as sawdust or shavings, with 99.9% being pine. The feedstock is delivered from within the defined supply base as described in section 2.1.
- u. Volume of tertiary feedstock: 0.0%

2018 update

### Feedstock

- f. Total volume of Feedstock: 1,210,782 metric tonnes
- g. Volume of primary feedstock: 774,547 metric tonnes
- h. List percentage of primary feedstock (g), by the following categories. Subdivide by SBP-approved Forest Management Schemes:
  - a. Forest Stewardship Council: 0.0%
  - b. American Tree Farm System (Program for the Endorsement of Forest Certification): 4.0%
  - c. Sustainable Forestry Initiative®: 16.9%
  - d. Not certified to an SBP-approved Forest Management Scheme: 79.1%
- i. List all species in primary feedstock, including scientific name

Species of Origin			
Common and Scientific Names			
<b><u>Softwood</u></b>			
Loblolly pine	( <i>Pinus taeda</i> )		
Longleaf pine	( <i>Pinus palustris</i> )		
Pond Pine	( <i>Pinus serotina</i> )		
Slash Pine	( <i>Pinus elliottii</i> )		
Sand Pine	( <i>Pinus clausa</i> )		
<b><u>Hardwood</u></b>			
Black Cherry	( <i>Prunus serotina</i> )	Red Bay	( <i>Persea borbonia</i> )
Black Gum	( <i>Nyssa sylvatica</i> )	Red Maple	( <i>Acer rubrum</i> )
Blackjack Oak	( <i>Quercus marilandica</i> )	River Birch	( <i>Betula nigra</i> )
Black Oak	( <i>Quercus velutina</i> )	River Oak	( <i>Casuarina cunninghamiana</i> )
Black Walnut	( <i>Juglans nigra</i> )	Shumard Oak	( <i>Quercus shumardii</i> )
Cherry Bark Oak	( <i>Quercus pagoda</i> )	Southern Magnolia	( <i>Magnolia grandiflora</i> )
Chinkapin Oak	( <i>Quercus muehlenbergii</i> )	Southern Red Oak	( <i>Quercus flacata</i> )
Hackberry	( <i>Celtis occidentalis</i> )	Sugar Maple	( <i>Acer saccharum</i> )
Hickory	( <i>Carya spp.</i> )	Swamp Bay	( <i>Persea palustris</i> )
Holly	( <i>Ilex opaca</i> )	Swamp Chestnut Oal	( <i>Quercus michauxii</i> )
Laurel Oak	( <i>Quercus laurifolia</i> )	Sweet Bay	( <i>Magnolia virginia</i> )
Live Oak	( <i>Quercus virginiana</i> )	Sweet Gum	( <i>Liquidambar styraciflua</i> )
Northern Red Oak	( <i>Quercus rubra</i> )	Sycamore	( <i>Plantanus occidentalis</i> )
Overcup Oak	( <i>Quercus lyrata</i> )	Water Oak	( <i>Quercus nigra</i> )
Pecan	( <i>Carya illinoensis</i> )	Water Tupelo	( <i>Nyssa aquatic</i> )
Persimmon	( <i>Diospyros virginiana</i> )	White Oak	( <i>Quercus alba</i> )
Pond Cypress	( <i>Taxodium ascendens</i> )	Willow Oak	( <i>Quercus phellos</i> )
Post Oak	( <i>Quercus stellata</i> )	Yellow Poplar	( <i>Liridendron tulipifera</i> )

- j. Volume of primary feedstock from primary forest: 0.0 metric tonnes
- k. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes:

- a. Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme: 0.0
- b. Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme: 0.0
  
- l. Volume of secondary feedstock: 36% of the total feedstock sourced is delivered as sawdust or shavings, with 99.9% being pine. The feedstock is delivered from within the defined supply base as described in section 2.1.
  
- m. Volume of tertiary feedstock: 0%.

## 13.5 Projected figures for feedstock over the next 12 months

### Feedstock

- v. Total volume of Feedstock: 1,210,030 metric tons
- w. Volume of primary feedstock: 779,325 metric tons
- x. List percentage of primary feedstock (g), Subdivide by SBP-approved Forest Management Schemes:
  - Certified to an SBP-approved Forest Management Scheme: 22.3%
  - Not certified to an SBP-approved Forest Management Scheme: 77.7%
- y. List all species in primary feedstock, including scientific name

Species of Origin	
Common and Scientific Names	
<b><u>Softwood</u></b>	
Loblolly pine ( <i>Pinus taeda</i> )	
Longleaf pine ( <i>Pinus palustris</i> )	
Pond Pine ( <i>Pinus serotina</i> )	
Slash Pine ( <i>Pinus elliottii</i> )	
Sand Pine ( <i>Pinus clausa</i> )	
<b><u>Hardwood</u></b>	
Black Cherry ( <i>Prunus serotina</i> )	Red Bay ( <i>Persea borbonia</i> )
Black Gum ( <i>Nyssa sylvatica</i> )	Red Maple ( <i>Acer rubrum</i> )
Blackjack Oak ( <i>Quercus marilandica</i> )	River Birch ( <i>Betula nigra</i> )
Black Oak ( <i>Quercus velutina</i> )	River Oak ( <i>Casuarina cunninghamiana</i> )
Black Walnut ( <i>Juglans nigra</i> )	Shumard Oak ( <i>Quercus shumardii</i> )
Cherry Bark Oak ( <i>Quercus pagoda</i> )	Southern Magnolia ( <i>Magnolia grandiflora</i> )
Chinkapin Oak ( <i>Quercus muehlenbergii</i> )	Southern Red Oak ( <i>Quercus flacata</i> )
Hackberry ( <i>Celtis occidentalis</i> )	Sugar Maple ( <i>Acer saccharum</i> )
Hickory ( <i>Carya</i> spp.)	Swamp Bay ( <i>Persea palustris</i> )
Holly ( <i>Ilex opaca</i> )	Swamp Chestnut Oal ( <i>Quercus michauxii</i> )
Laurel Oak ( <i>Quercus laurifolia</i> )	Sweet Bay ( <i>Magnolia virginia</i> )
Live Oak ( <i>Quercus virginiana</i> )	Sweet Gum ( <i>Liquidambar styraciflua</i> )
Northern Red Oak ( <i>Quercus rubra</i> )	Sycamore ( <i>Plantanus occidentalis</i> )
Overcup Oak ( <i>Quercus lyrata</i> )	Water Oak ( <i>Quercus nigra</i> )
Pecan ( <i>Carya illinoensis</i> )	Water Tupelo ( <i>Nyssa aquatic</i> )
Persimmon ( <i>Diospyros virginiana</i> )	White Oak ( <i>Quercus alba</i> )
Pond Cypress ( <i>Taxodium ascendens</i> )	Willow Oak ( <i>Quercus phellos</i> )
Post Oak ( <i>Quercus stellata</i> )	Yellow Poplar ( <i>Liridendron tulipifera</i> )

- z. Volume of primary feedstock from primary forest: 0.0 metric tons
- aa. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes:
  - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
  - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme: 0.0 metric tons
- bb. Volume of secondary feedstock: 36% of the total feedstock sourced is delivered as sawdust or shavings, with 99.9% being pine. The feedstock is delivered from within the defined supply base as described in section 2.1.
- cc. Volume of tertiary feedstock: 0.0%

## **Appendix Listing of US Ratified ILO Conventions and Multi-lateral Environmental Instruments**

### US ratified ILO Conventions

- C053 Officers Competency Certificates Convention, 1936
- C055 Shipowners' Liability (Sick and Injured Seamen) Convention, 1936
- C058 Minimum Age (Sea) Convention (Revised), 1936
- C074 Certification of Able Seamen Convention, 1946
- C080 Final Articles Revision Convention, 1946
- C105 Abolition of Forced Labor Convention, 1957
- C147 Merchant Shipping (Minimum Standards) Convention, 1976
- C150 Labor Administration Convention, 1978
- C160 Labor Statistics Convention, 1985
- C176 Safety and Health in Mines Convention, 1995
- C182 Worst Forms of Child Labor Convention, 1999

### US ratified multi-lateral Environmental instruments include:

- Convention for the Long-range Transboundary Air Pollution
- Vienna Convention for the Protection of the Ozone Layer
- United Nations Framework Convention on Climate Change
- Convention for the Protection and Development of Marine Environment of the Wider Caribbean Region
- London Convention
- International Convention for the Prevention of Pollution from Ships, 1973 and subsequent six Protocols
- Protocol on Environmental Protection to the Antarctic Treaty
- The North American Agreement on Environmental Cooperation

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# Annex 1: Detailed Findings for Supply Base Evaluation Indicators

## Preamble

Enviva's Cottondale Pellet mill is located in the United States. The country has a robust legal system developed using democratic processes. The "rule of law" social system is acknowledged by the World Bank as ranking in the top 90th percentile in *Government Effectiveness* and *Rule of Law and Regulatory Quality*, indicating that the United States has proven that it possesses effective means to ensure all laws and regulatory requirements are met or addressed if lacking through legal recourse. All verifiers were reviewed by third party auditors. **Internal verifiers** (identified in bold text) may contain sensitive information that cannot be made publicly available. External verifiers are publicly available.

Enviva used the FSC US Controlled Wood Risk Assessment V1.0 D3.0 (FSC US CWNRA) as the basis for its risk assessment and supply base evaluation. SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all the currently available assessment resources in and of themselves to be only partially adequate in assessing high conservation value and conversion indicators.

If a BP is referencing a publicly available third-party multi-stakeholder risk assessment such as the FSC US CWNRA, and where the nature and location of the specified risk are located within the BP's Supply Base, and the assessment of risk has been completed, the risk rating assigned by the authors should be used unless the BP can provide additional new verification data to prove low risk. For indicators not addressed by the FSC US CWNRA Enviva developed additional Locally Applicable Verifiers that followed the SBP stakeholder consultation approval process.

## Enviva's forestry certifications

Enviva maintains third party certifications including:

- ©Sustainable Biomass Program
- American Tree Farm System™ Independently Managed Group
- Forest Stewardship Council® (FSC) Chain of Custody and Controlled Wood Standard
- Program for the Endorsement of Forest Certifications™ (PEFC) Chain of Custody
- Sustainable Forestry Initiative® (SFI) Fiber Sourcing
- Sustainable Forestry Initiative® (SFI) Chain of Custody

## Tools used to develop the Supply Base Evaluation

Enviva developed this supply base evaluation using the FSC US CWNRA its PEFC Chain of Custody as a basis. Enviva also used a report prepared for the American Hardwood Export Council (AHEC) entitled, *Assessment of Lawful Harvesting & Sustainability of US Hardwood Exports*. Other sources of information include but are not limited too; Enviva PEFC Due Diligence System, FSC High Conservation Area Mapping tool, The Nature Conservancy website and various shapefiles, World Wildlife Fund, World Bank Governance Index, Illegal Logging Portal, Transparency International, Conservation International, World Resources Institute, Convention on International Trade in Endangered Species, International Union for Conservation of Nature and the Databasin web mapping tool.

## Supplier level assessment

### *Primary feedstock*

### *Track & Trace®*

Enviva has implemented management systems to ensure that the wood used to make wood pellets meets our strict sustainability requirements. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. First, Enviva uses our SFI Fiber Sourcing verifiable monitoring program as a basis for monitoring tract harvests. In addition, we

maintain a third-party audited Track & Trace database which includes information at the tract level, including data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to an Enviva mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill.

The Track & Trace data collection is supported by tract audits performed by Enviva foresters. During tract audits, Enviva foresters validate data on the tract characteristics in addition to ensuring that best management practices (BMPs) for water quality are properly implemented, special sites are properly protected, and loggers are trained, along with other metrics for responsible harvesting. Enviva only accepts wood from tracts in which the logger has completed and maintains training through an SFI-approved trained logger program. If any of these monitoring programs uncover issues with incoming raw material, Enviva will contact suppliers to notify them of the issue. If needed, Enviva will cease accepting deliveries from a supplier who does not perform to our sustainability standards. Enviva will not accept further deliveries from a poorly performing supplier until the supplier demonstrates the ability to adhere to Enviva's sustainability requirements.

#### *Identifying and protecting High Conservation Value (HCV) Areas*

While gathering Track & Trace data on specific tracts prior to purchase, Enviva's Foresters must evaluate whether there is a risk that the tract might be considered HCV. This assessment is conducted on a site-by-site basis to evaluate the condition of the stand and to maximize the likelihood of regeneration of desirable species post-harvest.

Overall, when deciding whether to purchase primary feedstock from a given tract, Enviva's goal is to determine whether that tract will, if harvested, produce a new tract with the same desirable species content that was present before harvest. Indicators that should be considered in this decision include forest type (i.e. whether it is a priority forest types), location, species composition, hydrology and water flow, stand age and soil saturation. When assessing a tract for HCVs, Enviva evaluates all of these important characteristics. If there is evidence based on this first level of evaluation that the site may contain an HCV, then the Forester must perform a second level review which includes an on-site assessment, data collection and documentation and management approval prior to purchase.

#### *Secondary feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track & Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.

Enviva's District of Origin approach is also in alignment with SBP Guidance Document: Meeting SBP Criteria in relation to protecting exceptional conservation values in the southern US. The process Enviva employs

through its District of Origin Process and annual Supplier Data Request process ensures Enviva can meet and exceed the guidance provided in the document therefore providing conformance to indicators 2.1.1 and 2.1.2.

The system has been verified effective by an independent third-party Certifying Body (CB), who reviewed both internal and external sources of information. The CB conducted the required secondary supplier site visits, interviews and analysis and confirmed that the information supplied by the secondary suppliers was accurate, and that Enviva's DOO process is sound and is operating consistently with SBP Guidance.

**Forestry best management practices**

Many of the indicators contain references to forestry BMP's (BMP). BMP guidelines were developed at the state level in response to the federal Clean Water Act requirement pertaining to non-point source water quality. Most states have monitoring programs to evaluate BP effectiveness and compliance rates, and some states require their use. Enviva and many other wood industry companies, however, require the use of forestry BMP's regardless of the state's stance. Table 1 below\* shows the high rate of BMP compliance across Enviva's supply base area. Though forestry BMP's are not a complete solution to many of the criteria they do serve as a measure of sound forestry practices.

Table 1. Selected Percent Forestry Best Management Compliance Rates by State<sup>1</sup>

	AL	FL	GA	MS	SC	TN
Timber Harvest	98	99	98		94	
Forest Road	93	99	94	84	98	88
Skid Trail		100	95	84		85
Log Landing		100	99	94		92
Stream Crossing	96	98	93	92	81	82
SMZ <sup>2</sup>	97	98	95	94	92	88
Wetlands		99	97	95		70
Reforestation		99	100		100	
State Average	97	99	97	91	91	84

- 1. Not all categories are ranked in every state
- 2. Streamside Management Zone

**Means of Verification**

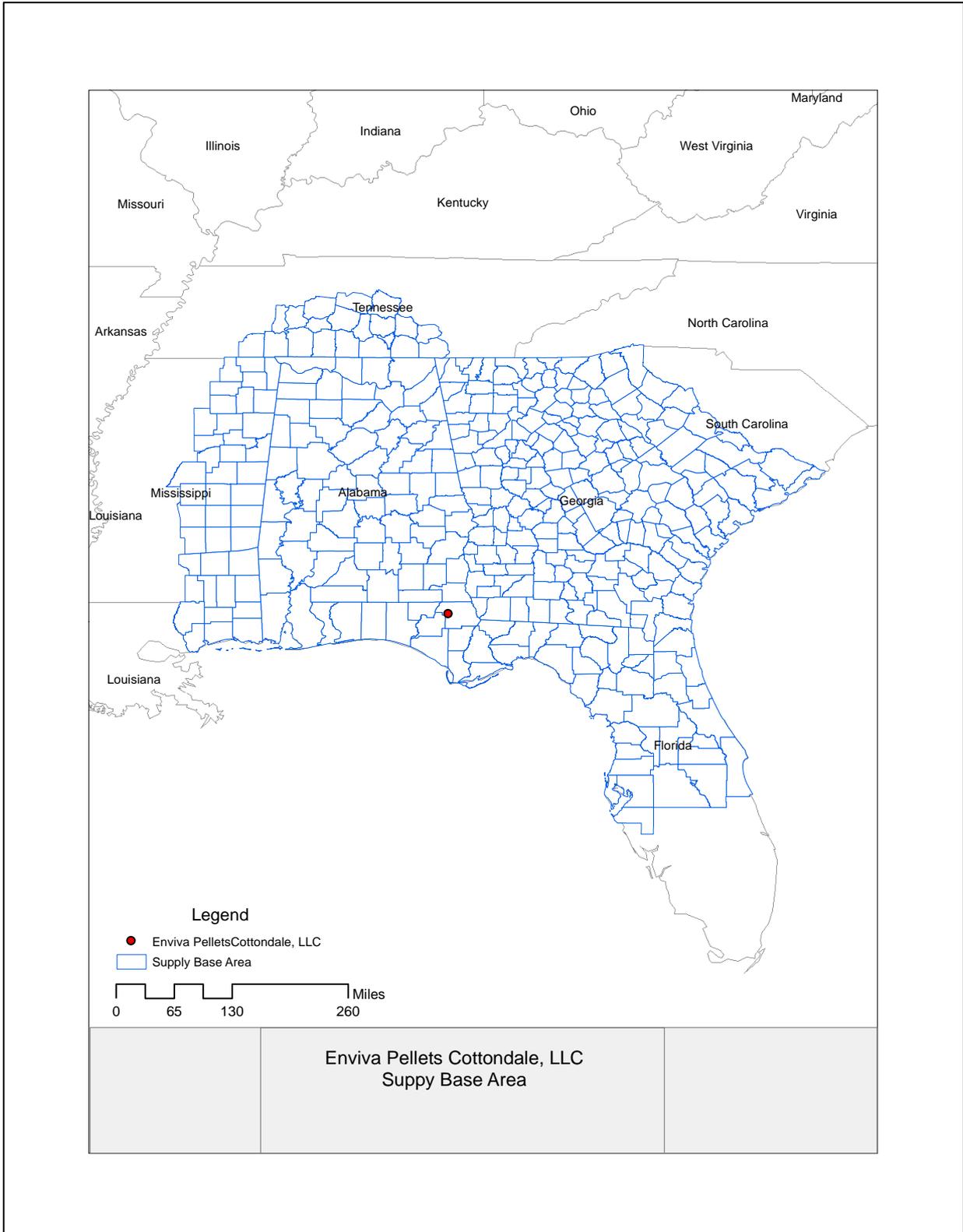
SBP's definition of means of verification: A systematic collection and review of objective evidence to verify compliance with a specified criterion. Evidence may include records, statements of fact or other information which are verifiable.

In some indicators this can be achieved with accessible third-party information. For instance, indicator 2.1.1 the identification of areas with high conservation values can be accomplished using publicly available third-party sources of information though Enviva goes farther by continually engaging with willing stakeholders like The Nature Conservancy, Earthworm, NatureServe and other's listed in Section 6 of the SBR. We do this to ensure we have the most up to date information and some of that work is proprietary.

\*Source National Association of State Foresters publication, *Protecting Water Quality through State Forestry BMP's* ([https://stateforesters.org/sites/default/files/issues-and-policies-document-attachments/Protecting\\_Water\\_Quality\\_through\\_State\\_Forestry\\_BMPs\\_FINAL.pdf](https://stateforesters.org/sites/default/files/issues-and-policies-document-attachments/Protecting_Water_Quality_through_State_Forestry_BMPs_FINAL.pdf))

Proof of implementation of appropriate controls and procedures to identify and address potential threats (2.1.2) requires signed contract, internal audit forms, assessment processes. Many if these documents

contain sensitive information about our suppliers, where and how they purchase wood and performance information necessary to conform to the SBP Standards. Some of the documents are internal working and procedures documents Enviva staff use to ensure we consistently perform our tasks in a manner that can be verified through third-party audits. The approach aligns with SBP Guidance Document: Assessment of risk, means of verification and mitigation measures in the southeast US.



	Indicator
1.1.1	The Biomass Producer's Supply Base is defined and mapped.
Finding	<p>Supplier sourcing areas are tracked through Enviva's proprietary Track &amp; Trace Program and a robust District of Origin and Supplier Data Request process. Enviva's supply base area includes counties in Alabama, Florida, Georgia, Mississippi, South Carolina and Tennessee. Data is entered into computer programs and reviewed annually to ensure appropriateness. This information is used to define the supply area and create maps</p> <p>ENV-COC-02 Controlled Wood/Controlled Sources Procedure is an internal document describing the process Enviva follows to ensure it knows where feedstocks originate.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is Enviva's FSC Controlled Wood Risk Assessment/PEFC Due Diligence System document that defines how the supply area is assessed for risk to satisfy FSC and PEFC requirements, the basis of an SBP system</p> <p><u>Conclusion</u> Enviva's Chain of Custody certifications require the company to develop and maintain a Controlled Wood Risk Assessment/Due Diligence System that ensure Enviva annually reviews its supply base area for accuracy. The risk of wood from un-known regions entering Enviva supply is low</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>Track &amp; Trace</b></li> <li>c. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>d. <b>District of Origin Process</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.1.2	Feedstock can be traced back to the defined Supply Base.
Finding	<p>Supplier sourcing areas are tracked through Enviva's proprietary Track &amp; Trace Program and a robust District of Origin and Supplier Data Request process. Enviva's supply base area includes counties in Alabama, Florida, Georgia, Mississippi, South Carolina and Tennessee. Data is entered into computer programs and reviewed annually to ensure appropriateness. Enviva maintains a PEFC CoC certification for all Enviva pellet mills. The certification track wood through the supply chain, while also ensuring unwanted sources of wood do not enter the supply chain.</p> <p>Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance.</p> <p>ENV-SFIS-01 Certified Sourcing Implementation Manual is Enviva's SFI feedstock sourcing manual. Indicator 2.1.2 requires the use of written agreements (Master Wood Purchase Agreement) for all feedstocks sourced from the forest. This means Enviva will</p>

	<p>only purchase feedstocks from companies where we have an existing business relationship.</p> <p>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure and ENV-COC-02 Controlled Wood/Controlled Sources Procedure describe the work flow for ensuring Enviva satisfies the chain of custody requirements. Enviva maintains three chain of custody systems; FSC, PEFC and SFI. These systems are designed to follow both certified feedstocks and Controlled Wood/Controlled Source feedstocks to their county of origin, at a minimum.</p> <p><u>Conclusion</u> Enviva's Chain of Custody certifications require the company to develop and maintain a Controlled Wood Risk Assessment/ Due Diligence System that ensures that the origin of all feedstocks is known.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>c. <b>Track &amp; Trace</b></li> <li>d. <b>ENV-COC-01 PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>Master Wood Purchase Agreement</b></li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>1.1.3</b>	The feedstock input profile is described and categorised by the mix of inputs.
Finding	<p>Enviva tracks purchased and consumed material by product type (roundwood, wood chips, residuals, etc.) and general species groupings of softwood or hardwood. Wood is stored at the mill site by product/species and input verified by monthly inventory processes. Certified wood inputs coming into the mill site are mingled with other wood and all non-certified inputs are considered “controlled”.</p> <p>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure requires a PEFC certificate holder to develop a process to describe feedstock profiles for the purpose of tracking through processing. ENV-COC-02 Controlled Wood/Controlled Sources Procedure describes how feedstock purchases are categorized before purchase.</p> <p>The Monthly Wood Excel is a mill site-specific workbook used to track tons of each feedstock type into and through the process from raw material to final product.</p> <p><u>Conclusion</u> These certifications track feedstock through the supply chain, while also ensuring unwanted sources of wood do not enter the supply chain.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>c. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>d. <b>Monthly Wood Excel</b></li> </ul>

Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.2.1	The Biomass Producer has implemented appropriate control systems and procedures to ensure that legality of ownership and land use can be demonstrated for the Supply Base.
Finding	<p>Some relevant findings from the FSC US CWNRA:</p> <p>1.1 Land tenure and management rights finds the US legality of ownership to be a low risk citing landownership records in the US are highly reliable and frequently used by banking institutions to issue mortgages generally requiring title clearances. The FSC US CWNRA cited the Seneca Creek Associates, LLC report entitled, <i>Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Exports</i>, "The vast majority of private landowners own small family forests that average less than 10 hectares in size. Numerous legal processes are available to landowners to resolve disputes involving proper title and/or the unauthorized taking or sale of timber property." Seneca Creek Report 2008, p ii.</p> <p>Further, "Comparisons of international governance indicators, such as those compiled by the World Bank, strongly indicate that the US is perceived as a country with a high regard for the rule of law, an effective environmental, labor and public welfare regulatory environment, and a low level of corruption." Seneca Creek Report 2008, p iii.</p> <p><u>Additional evidence:</u>            Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood including illegally harvested wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign a Master Wood Supply Agreement annually. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase Agreement has among its many recitals requirements for feedstock supplier to ensure legality of ownership.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if illegal logging and timber theft are a risk in the supply area. This document uses many of the same sources as the FSC US CWNRA. Both conclude illegal logging is a low risk in the Enviva supply area. Further evidence indicates that the rule of</p>

	<p>law and public agency governance are upheld so illegality is considered low risk. Enviva has implemented procedures to conform to EUTR.</p> <p>Enviva also uses sources such as the Illegal Logging Portal to assess the likelihood of illegal logging activity in the supply area. In addition, each state in the supply base area has laws protecting landownership rights and governing land use.</p> <p>Enviva’s Sustainability Policy, Responsible Wood Supply Program publicly describes Enviva’s commitment to avoid illegal sources of wood.</p> <p>SFI Fiber Sourcing Standard Objective 4 requires a certificate holder to comply with all applicable federal, provincial and local laws and regulations. ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the Objective. Specifically, indicators 4.1.4 and 4.1.5 requires the Program Participant to demonstrate it assessed if wood is legally sourced and put in programs to address risks of illegal sourcing if any exist. The 4.1.4 assessment found no significant risk of buying wood from illegal sources.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and ensure wood is legally sourced. ENV-PEFCCOC-01 PEFC Chain of Custody Procedure and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are legally and sustainably sourced.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity in the Enviva supply base area.</p> <p><u>Conclusion</u> The risk of illegally harvested wood or wood from land use change entering Enviva's supply chain is low</p>
<p>Means of Verification</p>	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-SFI-01 SFI Certified Sourcing Implementation Manual</b></li> <li>d. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>f. <b>ENV-COC-03 Controlled Wood/Controlled Sources Risk Assessment</b></li> <li>g. <b>Master Wood Purchase Agreement</b></li> <li>h. Enviva Sustainability Policy</li> <li>i. World Bank Governance Index</li> <li>j. Illegal Logging Portal</li> <li>k. State laws</li> </ul>
<p>Evidence Reviewed</p>	<p>All means of verification reviewed</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
1.3.1	The BP has implemented appropriate control systems and procedures to ensure that feedstock is legally harvested and supplied and is in compliance with EUTR legality requirements.
Finding	<p>Some relevant FSC US CWNRA indicators:</p> <p>1.2 Concessions on licenses determined a low risk rating in the US for legality of harvest in determining, “On the whole, the risk of illegality in entering into contracts, public or private, is real, but is considered low.”</p> <p>1.4 Harvesting permits – “Corruption associated with timber sales and harvesting permits in the US is generally not an issue.”</p> <p>Some additional sources of evidence include:</p> <ul style="list-style-type: none"> <li>• www.illegal-logging.info - indicates Enviva's sourcing area is not at risk for illegal logging</li> <li>• www.eia-international.org - indicates a low risk for trade in illegally logged wood</li> <li>• www.eldis.org - Enviva's supply base area is not included in regions with illegal logging issues</li> <li>• www.transparency.org - identified no issues with corruption bribery or other illegal activities in the Enviva supply base area.</li> </ul> <p><u>Additional evidence:</u>  Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase Agreement requirements for feedstock suppliers requires legality of ownership and ensures conformance with EUTR.</p> <p>In the United States regulation of forestry practices has its roots in Federal law and in Acts designed to provide guidance to states for developing state specific laws and regulations. The US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and this reporting reveals no widespread or systematic criminal activity in the Enviva supply base area.</p> <p>SFI Fiber Sourcing Standard Objective 4 requires a certificate holder to comply with all applicable federal, provincial and local laws and regulations. ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the Objective. Specifically, indicators 4.1.4 and 4.1.5 requires the Program</p>

	<p>Participant to demonstrate it assessed if wood is legally sourced and put in programs to address risks of illegal sourcing if any exist. The 4.1.4 assessment found no significant risk of buying wood from illegal sources.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and ensure wood is legally sourced. ENV-PEFCCOC-01 PEFC Chain of Custody Procedure and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are legally and sustainably sourced.</p> <p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes. The analysis includes a review of the existence of appropriate laws regarding legality of harvest and compliance with EUTR requirements. ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if illegal logging and timber theft are a risk in the supply area. This document uses many if the same sources as the FSC US CWNRA. Both conclude illegal logging is a low risk in the Enviva supply area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>Enviva's Sustainability Policy, Responsible Wood Supply Program publicly describes Enviva's commitment to avoid illegal sources of wood. Enviva EUTR Compliance Document is the report Enviva provides to its customers upon request describing how it meets EUTR requirements.</p> <p><u>Conclusion</u> Enviva is in compliance with EUTR legality requirements.</p>
<p>Means of Verification</p>	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>d. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>f. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>g. Enviva Sustainability Policy</li> <li>h. <b>Master Wood Purchase Agreement</b></li> <li>i. <b>Enviva EUTR Compliance Document</b></li> <li>j. Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Export Council</li> <li>k. World Bank Governance Index</li> </ul>
<p>Evidence Reviewed</p>	<p>All means of verification reviewed</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
1.4.1	The Biomass Producer has implemented appropriate control systems and procedures to verify that payments for harvest rights and timber, including duties, relevant royalties and taxes related to timber harvesting, are complete and up to date.
Finding	<p>Some relevant FSC US CWNRA indicators:</p> <p>1.5 Payment of royalties and harvesting fees there is no evidence of efforts to avoid payment and determined a low risk rating</p> <p>1.6 Value added taxes and other sales taxes finds a low risk of tax avoidance.</p> <p>1.7 Income and profit taxes concluded there is a low risk these taxes are not paid citing income and profit taxes are levied and managed at the federal and state level.</p> <p><u>Additional evidence:</u>                      Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations including payment of royalties and taxes. The contract also includes the requirement to avoid the following unacceptable sources wood and includes a requirement to ensure all appropriate taxes, royalties, etc. are paid:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase.</p> <p>The states in Enviva's Enviva supply all have laws governing taxation. The United States legal system is robust and capable of enforcing these Federal and state laws.</p> <ul style="list-style-type: none"> <li>• Transparency International identified no issues with corruption bribery or other illegal activities in the Enviva supply base area.</li> <li>• AHEC Legality Study determined the region Enviva supply base area is located is a low risk for illegal activity</li> <li>• The World Bank ranked the US in the top 90th percentile in the Rule of Law category</li> </ul> <p>Enviva’s Sustainability Policy, Responsible Wood Supply Program publicly describes Enviva’s commitment to require suppliers ensure all appropriate payments, fees and taxes are paid.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and ensure wood is legally sourced. ENV-PEFCCOC-01 PEFC Chain of Custody Procedure and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are legally and sustainably sourced.</p> <p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes. The analysis includes a review of the</p>

	<p>existence of appropriate laws to ensure the payment of relevant fees and taxes. ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if illegal logging and timber theft are a risk in the supply area. This document uses many if the same sources as the FSC US CWNRA. Both conclude illegal logging is a low risk in the Enviva supply area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>SFI Fiber Sourcing Standard Objective 4 requires a certificate holder to comply with all applicable federal, provincial and local laws and regulations. ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the Objective. Specifically, indicators 4.1.4 and 4.1.5 requires the Program Participant to demonstrate it assessed if wood is legally sourced and put in programs to address risks of illegal sourcing if any exist. The 4.1.4 assessment found no significant risk of buying wood from illegal sources.</p> <p>In certain state wood consuming mills are required to pay severance taxes on the wood used for manufacturing. These internal records are used to show Enviva's compliance with state requirements.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic avoidance of fee payments in the Enviva supply base area.</p> <p><u>Conclusion</u> There is a low risk of non-payment of taxes, fees, royalties, etc.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Enviva Sustainability Policy</li> <li>d. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>f. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>g. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>h. <b>Master Wood Purchase Agreements</b></li> <li>i. <b>Severance Tax Reports</b></li> <li>j. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.5.1	The Biomass Producer has implemented appropriate control systems and procedures to verify that feedstock is supplied in compliance with the requirements of CITES.
Finding	Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment determined the supply base area as a low risk for the potential to source CITES species. This document uses many if the same sources as the FSC US CWNRA. Both conclude sourcing CITES listed species is a low risk in the Enviva supply area. CITES enforcement is controlled at the federal level involving US Customs and Border Protection, Animal and Plant Health Inspection Services and the US Fish and Wildlife Service. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

	<p>Some FSC US CWNRA finding related to this indicator include:</p> <p>1.19 Customs regulations – The Lacey Act and other US code and enforcement find there is a low risk of a US company purchasing species listed by CITES.</p> <p>1.20 CITES finds no tree species with commercial timber value is listed on the CITES Appendices determining the there is a low risk of sourcing CITES species in North America.</p> <p>1.21 Legislation requiring due diligence/due care procedures cites the Lacey Act as the legislation that prohibits the importation of illegally sourced wood into the US.</p> <p>Additional findings:          Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. None of the tree species Enviva uses at its Enviva Pellet Mill are on the CITES list. None of the feedstock used at the Enviva Pellet Mill comes from outside of the US.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows feedstocks meet CITES requirements. ENV-PEFCCOC-01 PEFC Chain of Custody and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are in conformance.          Enviva’s District of Origin Data Request Form asks the supplier to list the species used at its mill. These species lists are checked against the CITES requirements and are checked during periodic supplier audits.</p> <p><u>Conclusion</u>          There is a low risk of CITES species being used as feedstock at Enviva.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>d. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>Master Wood Purchase Agreement</b></li> <li>h. Enforcement of the Convention on International Trade in Endangered Species</li> <li>i. Lacey Act and enforcement data</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.6.1	The Biomass Producer has implemented appropriate control systems and procedures to ensure that feedstock is not sourced from areas where there are violations of traditional or civil rights.

Finding	<p>Some of the FSC US CWNRA findings applicable to this indicator:</p> <p>1.13 Customary rights – “The risk of violating a right held through adverse possession is low. If the right is being held openly and exclusively, the potential violator should be able to discover it through inspection of the land. Overall, customary rights being are not important in forest management, with the possible exception of Native American treaty rights. On balance the risk for this category is assessed as low.”</p> <p>1.15 Indigenous people’s rights – Violations of Indigenous people’s rights are considered a low risk because of the legal relationship between the federal government and Native American tribes. The two treat each other as sovereigns with treaties that outline tribal rights.</p> <p>2.1 The forest sector is not associated with violent armed conflict, including that which threatens national or regional security and/or linked to military control to be low risk in the US</p> <p>2.2 Labor rights are respected including rights as specified in ILO Fundamental Principle and Rights at Work as low risk in the US</p> <p>2.3 The rights of Indigenous and Traditional Peoples are upheld In the United States, land use and tenure questions have long been decided and in the southeast, there are no indigenous people groups with controversial traditional or civil rights to forestlands.</p> <p>The FSC US CWNRA concluded, “Within the U.S. there is no UN Security Council ban on timber exports, the areas are not designated as a source of conflict timber, child labor does not occur systematically, and ILO Fundamental Principles and rights at work are generally respected. In addition, the U.S. has recognized and equitable processes in place to resolve conflicts of substantial magnitude pertaining to traditional rights including use rights, cultural interests or traditional cultural identity. In the U.S., Native Americans with a land base are recognized as Sovereign Nations and accorded rights to manage their land and affairs. In addition, Native Americans have an equitable process to resolve conflicts over land management. Through the U.S. court system, many Native American tribes have challenged, won decisions, and resolved issues concerning land management and use rights. There are many examples within the U.S. where tribes have successfully been able to exercise treaty rights through formal and informal conflict resolutions systems.”</p> <p>The Seneca Creek, LLC report entitled, <i>Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Exports</i> found the same to be true.</p> <p><u>Additional evidence:</u> Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by</p>
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	<p>Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if there is a risk of violating traditional and civil rights in the supply area. This document uses many if the same sources as the FSC US CWNRA. Both conclude a low risk of violating traditional and civil rights in the Enviva supply area. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes. The analysis includes a review of laws governing traditional and civil rights. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>SFI Fiber Sourcing Standard Objective 4 indicator 4.2.1 requires a Program Participant to have written policies to “comply with social laws, such as those covering civil rights, equal employment opportunities, anti-discrimination and anti-harassment measures, worker’s compensation, indigenous peoples’ rights, workers’ and communities’ right to know, prevailing wages, workers right to organize, and occupational health and safety.” ENV-SFI-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the requirements.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to demonstrate it avoids sources that violate traditional and human rights. ENV-PEFCCOC-01 PEFC Chain of Custody Procedure and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstocks meet these requirements.</p> <p>Enviva’s Sustainability Policy, Responsible Wood Supply Program publicly describes Enviva’s commitment to avoid sources of wool that violate traditional and civil rights.</p> <p><u>Conclusion</u> There is a low risk Enviva's sourcing practices are a threat to traditional or civil rights.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Exports</li> <li>d. <b>ENV-PEFCCOC-01PEFC Chain of Custody Procedure</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>f. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>g. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>h. <b>Master Wood Purchase Agreement</b></li> <li>i. Enviva Sustainability Policy</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.1.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that forests and other areas with high conservation values are identified and mapped.
Finding	Enviva used the FSC US CWNRA as a basis to identify and map forested areas of high conservation value, areas of high biodiversity and species or concern. The SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the

	<p>Southeast US provides the platform for using the FSC US CWNRA as a basis for the BP’s risk assessment.</p> <p>Enviva only uses woody biomass as a feedstock. Non-forested areas of high conservation value are excluded from the supply base evaluation. Enviva’s sourcing policies and suppliers do not impact these non-forested areas. The definition of forest land is defined according to the USFS as, “Land that has at least 10 percent crown cover by live tally trees of any size or has had at least 10 percent canopy cover of live tally species in the past, based on the presence of stumps, snags, or other evidence. To qualify, the area must be at least 1.0 acre in size and 120.0 feet wide. Forest land includes transition zones, such as areas between forest and non-forest lands that meet the minimal tree stocking/cover and forest areas adjacent to urban and built—up lands. Roadside, streamside, and shelterbelt strips of trees must have a width of at least 120 feet and continuous length of at least 363 feet to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if they are less than 120 feet wide or less than an acre in size. Tree-covered areas in agricultural production settings, such as fruit orchards, or tree—covered areas in urban settings, such as city parks, are not considered forest land.”</p> <p>The areas of high conservation value described and mapped in the FSC US CWNRA Indicator 3 were compared to the defined supply area. The FSC US CWNRA identified many areas of high conservation value, biodiversity and species that could be affected by harvesting activities. This supply base evaluation only includes those the authors determined to be specified risk. The supply area overlaps the following areas of high conservation value.</p> <p>Using the FSC US CWNRA Enviva identified the following Critical Biodiversity Areas (CBA) within the Enviva supply base area:</p> <p>Florida Panhandle Critical Biodiversity Area – located in all or parts of 14 counties of Enviva’s supply base are the Florida Panhandle CBA is reported to be one of the 5 richest biodiversity hotspots in North America. Of particular importance is the richness of frogs (27 species), snakes (42 species) and turtles (18 species) [Source: 49]. This concentration of biodiversity is driven by the river systems (particularly the Apalachicola River), longleaf pine savanna habitat and unique steephead ravines. Species of particular interest include the Okaloosa darter (<i>Etheostoma okaloosae</i>) which is endemic to the Florida Panhandle, and the Red-cockaded Woodpecker (<i>Picoides borealis</i>) which is associated with the longleaf pine.</p> <p>Central Florida Critical Biodiversity Area – located in the southern most reach of Enviva’s supply base area in parts of 2 counties in Enviva’s this CBA contains native pine ecosystems are an important driver for biodiversity. Pine flatwoods in Central Florida are associated with xeric uplands/sandhills that provide a range of biodiversity values. Longleaf pine is the dominant tree species in pine flatwoods, however as with other longleaf pine systems, the native plant diversity is one of the most significant components of the overall biodiversity. Rare wildlife supported by this habitat include Florida black bear (<i>Ursus americanus floridanus</i>), Florida panther (<i>Felis concolor coryi</i>), Southeastern kestrel (<i>Falco sparverius paulus</i>), Red-cockaded Woodpecker (<i>Picoides borealis</i>), Florida sandhill crane (<i>Grus canadensis pratensis</i>), Bald eagle (<i>Haliaeetus leucocephalus</i>), eastern indigo snake (<i>Drymarshon corais couperi</i>), and Chapman’s rododendron (<i>Rhododendron chapmanii</i>).</p> <p>Central Appalachian Critical Biodiversity Area – found in the northern portion of the supply area in all or part of 21 counties. This biodiversity area and mostly related to hardwood species management in mesic forests. Forest management threats are related to poor or improper forestry BMP implementation that could lead to stream degradation and soil erosion. According to the USGS Protected Area Database there are areas within the</p>
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	<p>supply area that are effectively protected from timber harvesting ensuring examples of these hardwood forests will be preserved.</p> <p>Southern Appalachian Critical Biodiversity Area – found in all or part of 35 counties in the north-western portion of the Enviva supply area. The biodiversity area has great aquatic diversity, glades and montane longleaf pine habitats. Forest management activities such as improper or poorly implemented forest best management practices, herbicide use and conversion of longleaf to other pine types can negatively impact the area.</p> <p>Mesophytic Cove Sites – associated with the Central Appalachian Critical Biodiversity Area these sites are high elevation (300-1,100m) mesic coves and concave slopes with high biodiversity and structural complexity. Poorly planned forest management practices can create opportunities for invasive species to enter these forest sites and conversion to other forest types such as white pine. All or portions of 17 counties in the northern portion of Enviva’s supply area could contain mesophytic cove sites</p> <p>Native Longleaf Pine Systems – found throughout much of the Enviva supply area. Native longleaf systems threats vary across its natural range with suppression of fire being the greatest concern. Other concerns include conversion to other pine types and incompatible forest management practices.</p> <p>Late Successional Bottomland Hardwoods – found throughout the south in the floodplains of rivers and streams the forests are periodically flooded or saturated. Variations in structure are determined by the location of the late successional bottomland forest. Generally, 80 years or older the forest is better defined by structure; closed canopy, large wood debris, standing hollow trees and little ground vegetation. Bottomland forests in Mississippi are reduced in size and area from historic clearing to create agricultural fields. Changes in hydrology, improper forest management techniques and invasive species. Forest management in and of itself may not be a threat but how the management is applied can be counterproductive.</p> <p><u>Additional information:</u>  ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine the existence and location of potential areas of high conservation values in the supply area. This document uses many of the same sources as the FSC US CWNRA. Both conclude certain areas of specified risk in the Enviva supply area. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes. The analysis includes a review of credible information sources to establish if there is new information regarding additional potential high conservation areas. Some sources include; Forest Stewardship Council, The Nature Conservancy, United States Forest Service, United States Department of Environmental Protection, State Forest Service Divisions, National Council for Air and Stream Improvement, World Wildlife Fund, World Bank Governance Index, Illegal Logging Portal, Transparency International, Conservation International, World Resources Institute, Convention on International Trade in Endangered Species, International Union for Conservation of Nature and the Databasin web mapping tool. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>The SFI Fiber Sourcing Standard Objective 1 Biodiversity in Fiber Sourcing requires Program Participants “to address the practice of sustainable forestry by conserving biological diversity”. Enviva’s ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet Objective 1.</p> <p>As part of our Responsible Sourcing Policy, Enviva engages with stakeholders to receive feedback on its current wood sourcing policies and suggestions for how to improve it from the following non-profit and agencies:</p>
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	<ul style="list-style-type: none"> <li>• The Association of Fish and Wildlife Agencies and The National Wildlife Federation</li> <li>• The Nature Conservancy</li> <li>• Audubon</li> <li>• World Wildlife Fund</li> <li>• National Council for Air and Stream Improvement</li> <li>• The Conservation Fund</li> <li>• The Forest Trust</li> </ul> <p>The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and evaluate its supply area to determine if there are areas of high conservation value as part of its Due Diligence System (ENV-PEFCCOC-01 PEFC Chain of Custody Procedure). ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is Enviva’s PEFC Due Diligence System and it contains the work done to determine where areas of high conservation are located within the supply area. This document uses many if the same sources as the FSC US CWNRA.</p> <p><u>Conclusion</u></p> <p>According to SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the Southeast US, “SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all of the currently available assessment resources in and of themselves to be only partially adequate in assessing high conservation value and conversion indicators.” Use of the FSC CWNRA is suggested but is considered incomplete.</p> <p>Enviva engages with willing stakeholders to continually assess for potential areas of high conservation value (<a href="https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration">https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration</a>). We find these engagements and subsequent collaborations to be both enlightening and beneficial in the promotion of sustainable forest management</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Enviva Sustainability Policy</li> <li>d. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>e. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>f. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>g. <b>Stakeholder engagement information</b></li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input type="checkbox"/> Low Risk <input checked="" type="checkbox"/> Specified Risk <input type="checkbox"/> Unspecified Risk at RA
Comment or Mitigation Measure	<p><u>Management System</u></p> <p>Enviva will annually review it’s Means of Verification and engage with Stakeholders to ensure it can accurately identify and map forests and other areas of high conservation values in its supply base area. As new information is found it will be incorporated into the supply base evaluation.</p>
Risk Rating After Mitigation	<input checked="" type="checkbox"/> Low Risk <input type="checkbox"/> Specified Risk <input type="checkbox"/> Unspecified Risk at RA

<b>Indicator</b>
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<p><b>2.1.2</b></p>	<p>The Biomass Producer has implemented appropriate control systems and procedures to identify and address potential threats to forests and other areas with high conservation values from forest management activities.</p>
<p>Finding</p>	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if forest management activities pose a threat to areas of high conservation value in the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review includes ongoing stakeholder engagement to identify potential new high conservation value areas and evaluation to determine if forest management activities could have a negative impact on these areas. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva conducts random field audits to verify stated forest management objectives are employed. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p>Most of the high conservation value areas identified in Enviva’s supply base area are associated with streams or water features. Forestry BMP’s are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value such as those identified. And even in areas not associated with</p>

streams or water features forestry BMP's specify how roads, trails and other forest management activities are performed to minimize their impact on the forest. Enviva contractually requires the use of BMP's. Enviva's Track & Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation. Additionally, State Forestry Commission's in Enviva's supply area have forestry and wildlife management plans with action item the state is undertaking to improve forest health and wildlife protection on both state and private ownerships.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track & Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.

Enviva's Sustainability Policy, Responsible Wood Supply Program publicly describes Enviva's commitment to avoid wood harvested from forests where high conservation values are threatened by management activities.

The SFI Fiber Sourcing Standard Objective 1 Biodiversity in Fiber Sourcing requires Program Participants "to address the practice of sustainable forestry by conserving biological diversity". Enviva's ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet Objective 1.

As part of our Responsible Sourcing Policy, Enviva engages with stakeholders to receive feedback on its current wood sourcing policies and suggestions for how to improve it from the following non-profit and agencies:

- The Association of Fish and Wildlife Agencies and The National Wildlife Federation
- The Nature Conservancy
- Audubon
- World Wildlife Fund
- National Council for Air and Stream Improvement
- The Conservation Fund
- Earthworm

The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and ensure sourcing practices avoid areas of high conservation value. ENV-PEFCCOC-01 PEFC Chain of Custody and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are legally and sustainably sourced.

Conclusion

According to SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the Southeast US, "SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all of the currently available assessment resources in and of themselves to be only partially adequate in

	<p>assessing high conservation value and conversion indicators.” Use of the FSC CWNRA is suggested but is considered incomplete.</p> <p>2.1.2 is closely related to 2.1.1 and the Biomass Producers ability to identify and map areas of forest and other high conservation values. And to develop methods to assess the potential impact of forest management activities. This indicator has a presumed specified risk.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>d. <b>ENV-PEFCOC-01 PEFC Chain of Custody Procedure</b></li> <li>e. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedures</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>h. <b>Master Wood Purchase Agreement</b></li> <li>i. <b>Track &amp; Trace</b></li> <li>j. <b>HCV Tract Approval Process</b></li> <li>k. State BMP Manuals</li> <li>l. Enviva Sustainability Policy</li> <li>m. NASF Water Quality Report</li> <li>n. NASF State Forest Management Plans</li> <li>o. NASF State Wildlife Management Plans</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating Before Mitigation	<input type="checkbox"/> <b>Low Risk</b> <input checked="" type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>
Comment or Mitigation Measure	<p><u>Management System</u>  Enviva engages with willing stakeholders to continually assess for potential areas of high conservation value (<a href="https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration">https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration</a>). We find these engagements and subsequent collaborations to be both enlightening and beneficial in the promotion of sustainable forest management. Enviva will annually review it’s Means of Verification and include relevant information from its stakeholders to ensure it can accurately identify and map forests and other areas of high conservation values in its supply base area.</p> <p>Enviva’s supplier audit processes provide the assessment tools necessary to collect and evaluate a supplier’s conformance to Enviva’s contractual requirements to determine if the supplier is providing SBP-complaint or SBP-controlled feedstocks. If new high conservation value areas are identified Enviva will work with its stakeholders to determine the best course of action and how to best maintain SBP-compliant sourcing practices.</p>
Risk Rating After Mitigation	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.1.3</b>	The Biomass Producer has implemented appropriate control systems and procedures for verifying that feedstock is not sourced from forests converted to production plantation forest or non-forest lands after January 2008.
Finding	The FSC US CWNRA has identified 25 counties with the supply base area as being at risk for conversion. The FSC US CWNRA only assessed conversion risk based on urbanization and does not include a risk assessment to production plantation or other non-forest uses. Related to forest conversion FSC US CWNRA finds, “Evidence indicates that forestland is growing in the North Central, Northeastern, and Rocky Mountain portions of

the United States, while the Southeast and Pacific Coast regions are experiencing forest loss and concurrent rapid population growth. Within the Southeastern United States, the highest rates of urbanization are occurring in the Piedmont region from northern Georgia through North Carolina into Virginia. Forest loss is also occurring along the Atlantic Coast and in eastern Texas. Despite the high rates of urban growth and development across the Southeast, this growth is not consistent across the region.”

In summary the authors found, “Rates of urban development vary throughout the United States with higher rates in the Pacific Coast Region and portions of the Southeast Region. These two regions are also the regions identified as experiencing more recent forestland loss. Therefore, the greatest risk of materials entering the supply chain from conversions will most likely be in these two regions; however, the risk is not consistent across the regions.

Additional evidence:

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. Enviva’s Master Wood Purchase Agreement specifies suppliers are to avoid all types of land use change or conversion sources of wood when providing feedstocks to Enviva.

The PEFC Chain of Custody Standard requires the certificate holder to ensure it knows where feedstocks originate and ensure wood does not originate from controversial sources. The definition of conversion sources is not as stringent as SBP’s relying only on legality compliance. ENV-PEFCCOC-01 PEFC Chain of Custody and ENV-COC-02 Controlled Wood/Controlled Sources Procedure are Enviva documents describing the work flow to ensure feedstock are legally and sustainably sourced.

ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if forest management activities pose a threat to areas of high conservation value in the supply area. This document uses many of the same sources as the FSC US CWNRA. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review includes ongoing stakeholder engagement to identify trends in land use change and conversion within the supply base area. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

The 2015 Forest2Market Report, *Historic Perspectives on the Relationship between Demand and Forest Productivity in the US South* concluded annual timberland acres have “remained stable, increasing about 3% from 1953 and 2015”. The report findings are based on information from the USDA Forest Service Forest Inventory Analysis, a long running US inventory including many attributes such as changes in timberland acres. The

	<p>report also found a correlation between growth in the forest product industry and increases in timberland acres over the same time period.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not from land use change or conversion sources. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i></p> <p>Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p>Enviva does not source from production plantations as defined in the SBP Glossary as "forests of exotic species that have been planted or seeded by human intervention and that are under intensive stand management, are fast growing and subject to short rotations (e.g. Poplar, Acacia or Eucalyptus plantations)."</p> <p><u>Conclusion</u></p> <p>There is a low risk associated with forest conversion in the supply area.</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Historic Perspective on the Relationship between Demand and Forest Productivity in the US South (Forest2Market)</li> <li>d. <b>ENV-COC-02 Controlled Wood/Controlled Sources Procedure</b></li> <li>e. <b>ENV-PEFCOC-01 PEFC Chain of Custody Procedure</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>h. <b>Track &amp; Trace</b></li> <li>i. <b>HCV Tract Approval Process</b></li> </ol>

	j. <b>District of Origin Process</b>
Evidence Reviewed	All means of verification reviewed
Risk Rating Before Mitigation	<b>X Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.1</b>	The Biomass Producer has implemented appropriate control systems and procedures to verify that feedstock is sourced from forests where there is appropriate assessment of impacts, and planning, implementation and monitoring to minimise them.
Finding	<p>The FSC US CWNRA evaluated and determined there are appropriate assessments, planning, implementation and monitoring to determine a low risk rating for this indicator</p> <p>1.1 Land tenure and management rights – “In its report to the Montreal Process Working Group on the Conservation and Management of Temperate and Boreal Forests, in scoring an indicator relating to land tenure, the US government concluded that, “All forest land owners, public and private, exercise their forest tenure rights to achieve their forest land management goals .... [A]lthough complex, clear title is usually sufficient [to allow forest management] in the United States.”</p> <p>1.3 Management and harvesting planning – Planning requirements for private lands are limited. The author has not been able to find indications of regular violations of these requirements.</p> <p>1.8 Timber harvesting and regulations – The US has ample regulation of the timber industry that varies by state but finds there is a low risk these rules and laws are not followed</p> <p>The FSC US CWNRA cited the Seneca Creek Associates, LLC report entitled, <i>Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Exports</i>, "States in the hardwood-producing region have very complex and diverse legal authorities over various aspects of forests and each state has crafted its own approach to fostering sustainable forest management."</p> <p>Further it finds, "Many states have implemented voluntary or incentive-based programs to achieve sustainable forestry objectives. Only sporadic information can be found in the formal literature or in media reporting about violations or potential violations of state regulations in the hardwood-producing states. Information that is readily available suggests that state regulatory agencies are not timid about issuing citations or pursuing violators."</p> <p>Additionally, "While states in the hardwood-producing region take different approaches to regulating harvesting and forest practices, the data suggest that all states direct significant resources to forest sustainability issues. The extent of regulation in a given state is not necessarily an indication of how well forests are managed, but it does relate to legal compliance with state laws and thus the legality of hardwood production. The available data suggest that states in the hardwood region are diligent about enforcing regulations that affect forest practices."</p> <p>The Endangered Species Act was enacted in 1973 as a means to ensure threatened and endangered plant and animal species and their habitats could receive the necessary</p>

support for conservation. The Act is primarily managed and enforced by the US Fish & Wildlife Service (<https://www.fws.gov/endangered/laws-policies/>). The US Fish & Wildlife Service states, "Under the ESA, species may be listed as either endangered or threatened. "Endangered" means a species is in danger of extinction throughout all or a significant portion of its range. "Threatened" means a species is likely to become endangered within the foreseeable future. All species of plants and animals, except pest insects, are eligible for listing as endangered or threatened. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments."

In a peer reviewed publication entitled, "The Effectiveness of the Endangered Species Act: A Quantitative Analysis" (BioScience (2005), Vol. 55 Is. 4(1): 360-367.) authors Martin et al. found the Act to be vigorously enforced.

Additional information:

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.
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Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.

Most of the high conservation value areas identified in Enviva's supply base area are associated with streams or water features. Forestry BMP's are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value such as those identified. And even in areas not associated with streams or water features forestry BMP's specify how roads, trails and other forest management activities are performed to minimize their impact on the forest. Enviva contractually requires the use of BMP's. Enviva's Track & Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation.

ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of forest impact assessments, planning implementation and monitoring efforts in all of Enviva's supply areas. Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. Many of these are the same sources of information used by FSC in its FSC US CWNRA. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Sources Risk Assessment and revisions to the Master Wood Purchase Agreement

	<p>SFI Fiber Sourcing Standard Objective 7 requires a certificate holder to be “knowledgeable about credible regional conservation planning and priority-setting efforts that include a broad range of stakeholders and have a program to take into account the results of these efforts in planning.” Enviva does this through engaging state forestry associations.</p> <p><i>Primary Feedstock</i>          Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies forest sites are properly managed. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i>          Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p>State Forestry Commission’s in Enviva’s supply area have forestry and wildlife management plans with action items the state is undertaking to improve forest health and wildlife protection on both state and private ownerships.</p> <p><u>Conclusion</u>          Enviva’s feedstock is sourced from areas with forest impact assessments, planning implementation and monitoring. Based on the available information, the risk for this category has been assessed as low.</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>d. <b>Master Wood Purchase Agreement</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>f. <b>Track &amp; Trace</b></li> <li>g. <b>HCV Tract Approval Process</b></li> <li>h. <b>District of Origin Process</b></li> </ol>

	<ul style="list-style-type: none"> <li>i. State BMP Manuals</li> <li>j. Assessment of Lawful Harvesting &amp; Sustainability of US Hardwood Exports</li> <li>k. US Fish &amp; Wildlife Service</li> <li>l. NASF State Forest Fact Sheets</li> <li>m. NASF Water Quality Report</li> <li>n. BioScience website.</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.2.2	The Biomass Producer has implemented appropriate control systems and procedures for verifying that feedstock is sourced from forests where management maintains or improves soil quality (CPET S5b).
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>Most of the high conservation value areas identified in Enviva’s supply base area are associated with streams or water features. Forestry BMP’s are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value such as those identified. And even in areas not associated with streams or water features forestry BMP’s specify how roads, trails and other forest management activities are performed to minimize their impact on the forest. Enviva contractually requires the use of BMP’s. Enviva’s Track &amp; Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation.</p> <p><i>Primary Feedstock</i>            Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS</p>

coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies forestry BMP's are used and the removal of forest residues do not have a negative impact on soil quality. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track & Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.

Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area.

Each State Forestry Agency/Commission are also responsible for implementing forestry BMP's as directed by the Clean Water Act and conducting periodic BMP implementation monitoring. State-wide BMP compliance reports are readily available. The NASF website contains many useful reports including, *Effectiveness of forestry BMP's in the United States: Literature Review*, which was published in *Forest Ecology and Management* (2016: 133 - 151). The review determined forestry BMP's are effective when implemented as recommended by state forestry agencies. Proper implementation of forestry BMP's protect soil quality.

There are few studies looking at the effect of timber harvesting on forest soils in the United States. The United States Department of Agriculture Forest Service General Technical Report INT-69 titled, *Forest Soil Biology - Timber Harvesting Relationships: A Perspective*, concluded generally timber harvesting does not have a long-term impact on forest soil productivity and if changes do exist these are generally small and only last a few years.

	<p>SFI Fiber Sourcing Standard Objective 2 requires a certificate holder, “To broaden the practice of sustainable forestry through the use of best management practices to protect water quality”. Enviva’s ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the Objective. Enviva requires the use of forestry best management practices of its suppliers and further requires them to require forestry best management practices be employed by their suppliers.</p> <p><u>Conclusion</u> There is a low risk the Enviva sourcing practices will degrade forest soils.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>c. <b>Track &amp; Trace</b></li> <li>d. <b>HCV Tract Approval Process</b></li> <li>e. <b>District of Origin Process</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. State BMP Manuals</li> <li>h. NASF Water Quality Report</li> <li>i. BMP implementation rate information for states in supply base area</li> <li>j. Effectiveness of forestry BMP’s in the United States: Literature Review.</li> <li>k. Forest Soil Biology - Timber Harvesting Relationships: A Perspective</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.3</b>	The Biomass Producer has implemented appropriate control systems and procedures to ensure that key ecosystems and habitats are conserved or set aside in their natural state (CPET S8b).
Finding	<p>The FSC US CWNRA finding related to this indicator</p> <p>1.9 Protected sites and species – “The US has a broad and comprehensive legal structure surrounding species protection and the protection of socially and ecologically important sites, administered at both the federal and state level.”</p> <p>Using the FSC US CWNRA Enviva has identified the following key ecosystems and habitats that are at risk. Those CBA’s are listed in indicator 2.1.1 and examples of most at risk key ecosystems and habitats are protected by federal and state agencies.</p> <p><u>Additional evidence:</u> Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> </ul>

	<p>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</p> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts including an analysis of ecosystem and habitats in all of Enviva’s supply areas. The program requires an assessment of each risk area to determine if forest management activities are impacting eco-regions of significant high conservation values. Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis also finds the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area. These same sources were used by the authors of the FSC US CWNRA.</p> <p>Many areas of high conservation value are found in conjunction with rivers, streams, etc. SFI Fiber Sourcing Standard Objective 2 indicator 2.1 requires Program Participants to develop a verifiable monitoring system to ensure BMP’s are evaluated across its wood supply area, ensure implementation rates are maintained and identify areas for improvement. Enviva’s ENV-SFIS-01 Certified Sourcing Implementation Manual and its Track &amp; Trace Fields Audits to meet the requirements. Forestry BMP’s are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value. Enviva contractually requires the use of BMP’s. Enviva’s Track &amp; Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement.</p> <p>ENV-SFIS-01 Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the SFI requirements related to Objective 1 “Biodiversity in Fiber Sourcing. To address the practice of sustainable forestry by conserving biological diversity”.</p> <p>As part of our Responsible Sourcing Policy, Enviva engages with stakeholders to receive feedback on its current wood sourcing policies and suggestions for how to improve it from the following non-profit and agencies:</p> <ul style="list-style-type: none"> <li>• The Association of Fish and Wildlife Agencies and The National Wildlife Federation</li> <li>• The Nature Conservancy</li> <li>• Audubon</li> <li>• World Wildlife Fund</li> <li>• National Council for Air and Stream Improvement</li> <li>• The Conservation Fund</li> <li>• Earthworm</li> </ul> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva.</p>
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	<p>Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Enviva randomly conducts field audits and verifies feedstocks are not sourced from areas of high conservation value. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i>          Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Outreach:</u>          In 2018, Enviva worked with supplier and the staff at Falling Water and Torreya State Parks to restore longleaf pine habitat. The project generated interest among other stakeholders in the region so Enviva held workshop for 33 attendees that included suppliers, conservation organizations, landowner representatives, state and federal agencies, and others. We described our collaboration on longleaf around Cottondale in the following blog <a href="http://www.envivabiomass.com/voices-of-enviva/collaboration-key-to-expanding-longleaf-restoration-in-the-florida-panhandle/">http://www.envivabiomass.com/voices-of-enviva/collaboration-key-to-expanding-longleaf-restoration-in-the-florida-panhandle/</a></p> <p><u>Conclusion</u>          According to SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the Southeast US, “SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all of the currently available assessment resources in and of themselves to be only partially adequate in assessing high conservation value and conversion indicators.” Use of the FSC CWNRA is suggested but is considered incomplete.</p> <p>Enviva engages with willing stakeholders to continually assess for potential areas of high conservation value (<a href="https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration">https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration</a>). We find these engagements and subsequent collaborations to be both enlightening and beneficial in the promotion of sustainable forest management</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Enviva Sourcing Policy</li> <li>d. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> </ol>

	e. <b>ENV-COC-03 Controlled Source Risk Assessment</b> f. <b>Track &amp; Trace</b> g. <b>HCV Tract Approval Process</b> h. <b>District of Origin Process</b> i. <b>Stakeholder engagement</b> j. <b>Master Wood Purchase Agreement</b>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input type="checkbox"/> <b>Low Risk</b> <input checked="" type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>
Comments and Mitigation Measures	<u>Management System</u> Enviva will annually review it's Means of Verification, engage with Stakeholders, use its proprietary Track & Trace Program, HCV Tract Approval Process and District of Origin Process to ensure key ecosystems and habitats are or conserved or set aside.
Risk Rating After Mitigation	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.4</b>	The Biomass Producer has implemented appropriate control systems and procedures to ensure that biodiversity is protected (CPET S5b).
Finding	<p>The FSC US CWNRA only identified two specified risk species that have habitat located in the Enviva supply base area:</p> <p>Dusky Gopher Frog – found in specific location in southeastern Mississippi in the western edge of Enviva’s supply area. The dusky gopher frog is considered to be a specified risk only in the Mississippi counties not having been sighted in Louisiana since 1967. Longleaf pine habitat and wet areas for breeding necessary for the frog’s longevity. Conversion of longleaf to other pine types and harvesting practices that alter temporary wetlands can impact its survival. Of the known locations in Mississippi and comparing those with protected areas using by USGS Protected Area Database information, all are within protected forests.</p> <p>Patchnose Salamander – thought to be located in a 3-county area located in the northern portion of Enviva’s supply base area the Patch-nosed Salamander range is limited to a small first order stream located at the foot of the Blue Ridge Mountains in Stephens County GA.</p> <p><u>Additional evidence:</u>          Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> </ul>

	<p>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</p> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>Most of areas of high biodiversity identified in Enviva’s supply base area are associated with streams or water features. Forestry BMP’s are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value such as those identified. And even in areas not associated with streams or water features forestry BMP’s specify how roads, trails and other forest management activities are performed to minimize their impact on the forest. Enviva contractually requires the use of BMP’s. Enviva’s Track &amp; Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of forest impact assessments, planning implementation and monitoring efforts including an analysis of ecosystem and habitats in all of Enviva’s supply areas. The program requires an assessment of each risk area to determine if forest management activities are impacting biodiversity. Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis also finds the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area. These same sources were used by the authors of the FSC US CWNRA.</p> <p>ENV-SFI-01 SFI Certified Sourcing Implementation Manual describes processes and internal documents Enviva uses to meet the SFI requirements related to Objective 1 “Biodiversity in Fiber Sourcing. To address the practice of sustainable forestry by conserving biological diversity”.</p> <p>As part of our Responsible Sourcing Policy, Enviva engages with stakeholders to receive feedback on its current wood sourcing policies and suggestions for how to improve it from the following non-profit and agencies:</p> <ul style="list-style-type: none"> <li>• The Association of Fish and Wildlife Agencies and The National Wildlife Federation</li> <li>• The Nature Conservancy</li> <li>• Audubon</li> <li>• World Wildlife Fund</li> <li>• National Council for Air and Stream Improvement</li> <li>• The Conservation Fund</li> <li>• Earthworm</li> </ul> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva.</p>
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Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not sourced in a manner that threatens biodiversity. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.

*Secondary Feedstock*

Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track & Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.

Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area. Logger training in each state contains endangered species components.

Outreach:

Enviva partnered with a supplier and the Geneva State Forest Wildlife Management Area located in Covington County, Alabama to use forest management techniques to thin 880 acres of densely planted pines improving Gopher Tortoise habitat. Enviva received 21,800 tons of pine and hardwood micro-chips from this pre-merchantable thinning operation that was designed to decrease stand density and restore the pine savanna ecosystem to the area.

The same supplier also harvested 370 acres of off-site pine and low value hardwood on Eglin Air Force Base in Okaloosa County, Florida as part of a Longleaf Pine restoration project. We described our collaborations on longleaf pine restoration in the following blog, <http://www.envivabiomass.com/voices-of-enviva/collaboration-key-to-expanding-longleaf-restoration-in-the-florida-panhandle/>

Conclusion

The two species are very localized and specific in their habitat and those habitats are 0.84% of the total hectares in Enviva’s supply base. There is a low risk Enviva’s sourcing

	<p>policies would affect either of them. Regardless, according to SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the Southeast US, “SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all of the currently available assessment resources in and of themselves to be only partially adequate in assessing high conservation value and conversion indicators.” Use of the FSC CWNRA is suggested but is considered incomplete.</p> <p>Enviva engages with willing stakeholders to continually assess for potential areas of high conservation value (<a href="https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration">https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration</a>). We find these engagements and subsequent collaborations to be both enlightening and beneficial in the promotion of sustainable forest management</p>
Means of Verification	<ul style="list-style-type: none"> <li>l. Preamble citations</li> <li>m. FSC CWNRA</li> <li>n. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>o. <b>Track &amp; Trace</b></li> <li>p. <b>HCV Tract Approval Process</b></li> <li>q. <b>District of Origin Process</b></li> <li>r. <b>ENV-COC-03 Controlled Wood/Controlled Sources Risk Assessment</b></li> <li>s. <b>Master Wood Purchase Agreement</b></li> <li>t. National Association of State Foresters</li> <li>u. Enviva Sustainability Policy</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input type="checkbox"/> <b>Low Risk</b> <input checked="" type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>
Comments and Mitigation Measures	<p><u>Management System</u></p> <p>Enviva will annually review it’s Means of Verification, engage with Stakeholders, use its proprietary Track &amp; Trace Program, HCV Tract Approval Process and District of Origin Process to ensure key ecosystems and habitats are or conserved or set aside.</p>
Risk Rating After Mitigation	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.2.5	The Biomass Producer has implemented appropriate control systems and procedures for verifying that the process of residue removal minimises harm to ecosystems.
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood.</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul>

	<p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. The Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>There are few studies looking at the effect of timber harvesting on forest soils in the United States. The United States Department of Agriculture Forest Service General Technical Report INT-69 titled, <i>Forest Soil Biology - Timber Harvesting Relationships: A Perspective</i>, concluded generally timber harvesting does not have a long-term impact on forest soil productivity and if changes do exist these are generally small and only last a few years.</p> <p>Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a business as usual practice in the supply base area. Forestry BMP’s are the best tool available to ensure forest management activities do not adversely impact forests. Enviva contractually requires the use of BMP’s. Enviva’s Track &amp; Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation. The NASF website contains many useful reports including, <i>Effectiveness of forestry BMP’s in the United States: Literature Review</i>. Published in <i>Forest Ecology and Management</i> (2016, pgs 133 - 151). The review determined forestry BMP’s are effective when implemented as recommended by state forestry agencies. Proper implementation of forestry BMP’s protect soil quality.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if removals of forest residues have a negative influence on forests in the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review includes ongoing stakeholder engagement to identify potential new high conservation value areas and evaluation to determine if forest management activities could have a negative impact on these areas. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not sourced in a manner that could harm ecosystems. Enviva randomly conducts field audits and verifies feedstock forcing practices do not harm forest soils. During annual certification audits an</p>
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	<p>independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i>                  Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u>                  There is a low risk the Enviva sourcing practices will affect residue removal from forests.</p>
<p>Means of Verification</p>	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>c. <b>Master Wood Purchase Agreement</b></li> <li>d. <b>Track &amp; Trace</b></li> <li>e. <b>District of Origin Process</b></li> <li>f. <b>HCV Tract Approval Process</b></li> <li>g. State BMP Manuals and BMP monitoring data</li> <li>l. BMP implementation rate information for states in supply base area</li> <li>m. Effectiveness of forestry BMP’s in the United States: Literature Review.</li> <li>h. Forest Soil Biology - Timber Harvesting Relationships: A Perspective</li> </ul>
<p>Evidence Reviewed</p>	<p>All means of verification reviewed</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<p>2.2.6</p>	<p>The Biomass Producer has implemented appropriate control systems and procedures to verify that negative impacts on ground water, surface water and water downstream from forest management are minimised (CPET S5b).</p>
<p>Finding</p>	<p>The FSC US CWNRA indicator 3.4 HCV 4 determined there is a low risk of forest management activities affecting water quality. Further the author states, “Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV 4 are being effectively protected throughout the assessment area through the implementation of forestry BMPs associated with State nonpoint source pollution programs.” The effectiveness of forestry best management practices is well documented in the FSC US CWNRA.</p>

The US Clean Water Act requires each state to develop non-point source BMP's to address run off. This includes forestry activities. Enviva's contracts require suppliers to ensure their supply chain follows all applicable laws including those that protect special habitats by following BMP's and other laws.

Additional evidence:

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.

ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if forest management activities pose a threat to water quality in the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review includes annual reviews of state forestry BMP studies to incorporate state findings into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area.

Enviva is a member of state forestry associations within its supply base area and these organizations are responsible for reviewing and developing logger training in conjunction with state forestry commissions related to forestry best management practices. Enviva interacts with these groups to improve forestry best management practices guidelines and monitor enforcement. Forestry BMP's are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value such as those identified. And even in areas not associated with streams or water features forestry BMP's specify how roads, trails and other forest management activities are performed to minimize their impact on the forest. Enviva contractually requires the use of BMP's. Enviva's Track & Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation.

	<p>Enviva is an SFI Program Participant certified to SFI's Fiber Sourcing Standard. Objective 2 requires Program Participants to mandate the use and monitor the implementation of forestry BMP's to protect water quality. Enviva's ENV-SFIS-01 Certified Sourcing Implementation Manual describes how Track &amp; Trace and its harvest site inspection process fulfils the Objective as well as SFI Fiber Sourcing Standard Objective 3 requiring Program Participants to promote the use of trained logger.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks harvesting does not impact ground water quality. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i></p> <p>Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u></p> <p>There is a low risk the Enviva's sourcing practices will have a negative impact on water quality.</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>d. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>e. State BMP Manuals and BMP monitoring data</li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. <b>Track &amp; Trace</b></li> <li>h. <b>District of Origin Process</b></li> <li>i. <b>HCV Tract Approval Process</b></li> <li>j. NASF Water Quality Report</li> </ol>

	k. US Clean Water Act
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.7</b>	The Biomass Producer has implemented appropriate control systems and procedures for verifying that air quality is not adversely affected by forest management activities.
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts of forestry best management practices including regulations related to forest management activities effect on air quality in all of Enviva's supply areas.</p> <p>Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. All states in the supply area have forestry regulations pertaining to the use of fire as a silvicultural tool. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area.</p> <p>Enviva is a member of regional state forestry associations responsible for reviewing and developing logger training in conjunction with state forestry commissions related to forestry best manage practices. Enviva interacts with these groups to improve forestry</p>

best management practices guidelines and monitor enforcement including air quality from forest management.

In the United States regulation of forestry practices has its roots in federal law and acts designed to provide minimum guidance to states in developing state specific laws and regulations and ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Chemical use in forest management activities also follow EPA guidance under FIFRA and include in-woods practices. A review of the EPA Civil Cases and Settlements by Statute resulted in no findings related to forest management activities. The United States has a robust legal system that deters the abuse of state and federal regulation.

The US Clean Air Act requires each state to implement air quality controls to ensure the public's safety. The USDA Forest Service website, *Forest Service Air Management Responsibilities* describes how the Clean Air Act affects forestry operations in general. States in the Enviva supply base area have haze/smoke laws that are enforced at the local level.

Examples of enforcement of forestry fire laws can be found on the United States Fire Administration website ([https://www.usfa.fema.gov/prevention/outreach/wildfire\\_arson/court\\_cases.html](https://www.usfa.fema.gov/prevention/outreach/wildfire_arson/court_cases.html)).

And the US Environmental Protection Agency website ([https://cfpub.epa.gov/compliance/criminal\\_prosecution/](https://cfpub.epa.gov/compliance/criminal_prosecution/)).

*Primary Feedstock*

Enviva uses its proprietary Track & Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not sourced from areas without forestry regulations governing air quality. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from

	<p>many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u> There is a low risk the Enviva sourcing practices will have a negative impact on air quality.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>Master Wood Purchase Agreement</b></li> <li>c. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>d. <b>Track &amp; Trace</b></li> <li>e. <b>District of Origin Process</b></li> <li>f. <b>HCV Tract Approval Process</b></li> <li>g. Clean Air Act</li> <li>h. State Forestry Regulations</li> <li>i. USDA Forest Service</li> <li>j. US EPA</li> <li>k. US Fire Administration</li> <li>l. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.8</b>	The Biomass Producer has implemented appropriate control systems and procedures for verifying that there is controlled and appropriate use of chemicals, and that Integrated Pest Management (IPM) is implemented wherever possible in forest management activities (CPET S5c).
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts, forestry best management practices in all of Enviva's supply areas.</p>

Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Sources Risk Assessment and revisions to the Master Wood Purchase Agreement.

In the United States regulation of forestry practices has its roots in federal law and acts designed to provide minimum guidance to states in developing state specific laws and regulations and ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Chemical use in forest management activities also follow EPA guidance under FIFRA and include in-woods practices. A review of the EPA Civil Cases and Settlements by Statute has no findings related to forest management activities in 2017. The United States has a robust legal system that deters the abuse of state and Federal regulation.

Examples of enforcement of Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) can be found on the United States Environmental Protection Agency website ([https://cfpub.epa.gov/compliance/criminal\\_prosecution/](https://cfpub.epa.gov/compliance/criminal_prosecution/)).

Information about Integrated Pest Management can be found on the USDA Forest Service website (<https://www.fs.fed.us/foresthealth/protecting-forest/integrated-pest-management/>).

*Primary Feedstock*

Enviva uses its proprietary Track & Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not from land where forest chemicals are used in excess. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessments. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately

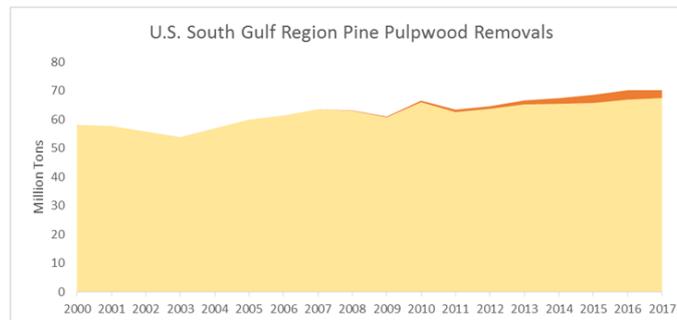
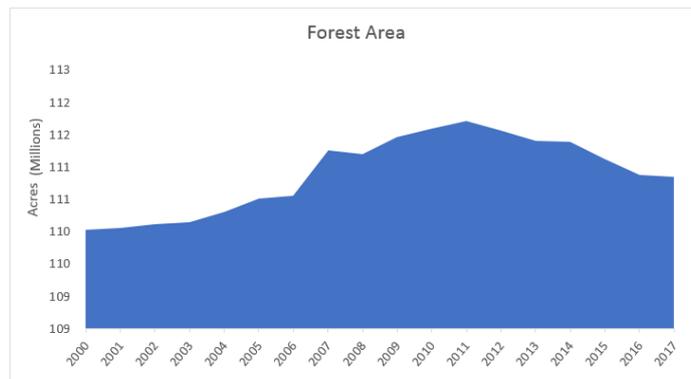
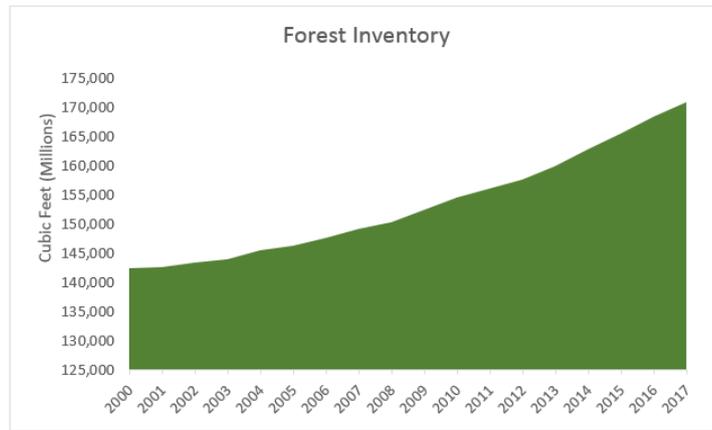
	<p>included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u> There is a low risk the Enviva sourcing practices will cause an increase in the use of pesticides or herbicides.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>Master Wood Purchase Agreement</b></li> <li>c. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>d. <b>Track &amp; Trace</b></li> <li>e. <b>District of Origin Process</b></li> <li>f. <b>HCV Tract Approval Process</b></li> <li>g. USDA Forest Service</li> <li>h. Federal Insecticide, Fungicide and Rodenticide Act</li> <li>i. US EPA</li> <li>j. World Bank Governance Indicators</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.9</b>	The Biomass Producer has implemented appropriate control systems and procedures for verifying that methods of waste disposal minimise negative impacts on forest ecosystems (CPET S5d).
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there</p>

	<p>are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>Enviva is a member of state forestry associations within its supply base area and these organizations are responsible for reviewing and developing logger training in conjunction with state forestry commissions related to forestry best management practices. Enviva interacts with these groups to improve forestry best management practices guidelines and monitor enforcement.</p> <p>Forestry BMP's are the best tool available to ensure forest management activities do not adversely impact forests and other areas of high conservation value. Enviva contractually requires the use of BMP's. Enviva's Track &amp; Trace Program includes a harvest site auditing component to ensure suppliers conform to the requirement. The Forestry Commissions for each state in the supply area monitor and enforce BMP implementation. Forestry BMP's for each state have a waste removal component.</p> <p>Enviva is an SFI Program Participant certified to SFI's Fiber Sourcing Standard. Objective 2 requires Program Participants to mandate the use and monitor the implementation of forestry BMP's that include proper waste disposal. Enviva's ENV-SFIS-01 Certified Sourcing Implementation Manual describes how Enviva's Track &amp; Trace and its harvest site inspection process fulfills the Objective.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not sourced from tracts without proper waste disposal. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i></p> <p>Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing</p>
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	<p>practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u> There is a low risk the Enviva sourcing practices will harm forest due to waste disposal.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>c. <b>Master Wood Purchase Agreement</b></li> <li>d. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>e. <b>Track &amp; Trace</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>HCV Tract Approval Process</b></li> <li>h. State BMP Manuals and monitoring data</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.3.1	<p>Analysis shows that feedstock harvesting does not exceed the long-term production capacity of the forest, avoids significant negative impacts on forest productivity and ensures long-term economic viability. Harvest levels are justified by inventory and growth data.</p>
Finding	<p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts, forestry best management practices in all of Enviva's supply areas. The annual review requires an analysis of growth to drain in the supply area.</p> <p>A 2015 Forest2Market report titled <i>Wood Supply Market Trends in the US South</i> concluded that in 2014, the total wood consumption for all markets in the south was only 3.3% of total forest inventory. Removals for pellet production represents 0.3% of all the US South standing inventory.</p> <p>The annual growth to drain ratio of the supply base is 1.61:1 for all species, 1.83:1 for hardwood, and 1.55:1 for pine. A positive growth to drain ratio indicates that forest growth exceeds harvest removals. In the Gulf region of the U.S. South, total inventory has increased by an average of 1.2% annually between 2000 and 2017. Since 2000, US Forest Service Forest Inventory Analysis (FIA) data indicates an increase in forest area in the states covered included in the Enviva supply base area.</p> <p>Enviva is just one of several industries and entities sourcing wood in its supply base area. Removals of both pine and hardwood for pellet production in the Southern region comprised only 2.7% of total harvest volume in 2017. Primary harvesting activity and wood consumption in the South is driven by saw-timber markets, with total removals for the pellet industry comprising only 0.1% of the total pine inventory and 0.08% of the total hardwood inventory. In 2017, pine pulpwood removals for the entire pellet industry accounted for 3.8% of total pine pulpwood removals for all wood product classifications</p>



The procurement of wood material contributes to reducing environmental impacts and enhancing the productivity of forests. A 2017 Forest2Market report, *Historic Perspectives on the Relationship between Demand and Forest Productivity in the US South*, concluded further that a positive relationship exists between forest harvest and forest growth, proving that forest landowners respond to robust forest products markets by planting more trees. Markets for low valued wood products allow for more efficient site preparation and reforestation. 36% of Enviva’s feedstock is sourced as processing residues from secondary sources which harvested wood is intended for saw timber-derived products.

**Conclusion**

There is a low risk the Enviva sourcing practices will harm growth to drain levels in the supply area.

Means of Verification

- a. Preamble citations
- b. **ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment**
- c. USFS FIA web site
- d. Growth Drain study
- e. Forest2Market Reports

	<ul style="list-style-type: none"> <li>• <a href="https://www.forest2market.com/hubfs/2016_Website/Documents/20151119_Forest2Market_USSouthWoodSupplyTrends.pdf">https://www.forest2market.com/hubfs/2016_Website/Documents/20151119_Forest2Market_USSouthWoodSupplyTrends.pdf</a></li> <li>• <a href="https://www.forest2market.com/hubfs/2016_Website/Documents/20170726_Forest2Market_Historical_Perspective_US_South.pdf?t=1516993507491">https://www.forest2market.com/hubfs/2016_Website/Documents/20170726_Forest2Market_Historical_Perspective_US_South.pdf?t=1516993507491</a></li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.3.2</b>	Adequate training is provided for all personnel, including employees and contractors (CPET S6d).
Finding	<p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Agreement require suppliers to ensure their supply chain follows all applicable laws including and ensure each crew is led by a properly trained foreman. Logger training can be verified via each state’s logger training program website General information about logger training programs can be found, <a href="https://www.sfiopa.org/_download_link.php?did=32">https://www.sfiopa.org/_download_link.php?did=32</a>. Enviva annually reviews supplier training to ensure it is current.</p> <p>The SFI Fiber Sourcing Standard Objective 6 requires Program Participants to contractors, and personnel and appropriately trained to do their tasks and requires the use of qualified logging professionals. Enviva’s ENV-SFIS-01 Certified Sourcing Implementation Manual describes the internal processes Enviva uses to ensure these requirements are met.</p> <p>SFI Logger Training Programs provide training in 13 management principles. Each state develops its own training modules to fulfil the training needs of the states logging force.</p> <ol style="list-style-type: none"> <li>1. Sustainable Forestry</li> <li>2. Forest Productivity and Health</li> <li>3. Protection of Water Resources</li> <li>4. Protection of Biological Diversity</li> <li>5. Aesthetics and Recreation</li> <li>6. Protection of Special Sites</li> </ol>

	<p>7. Responsible Fiber Sourcing in North America              8. Legal Compliance              9. Research              10. Training and Education              11. Community Involvement and Social Responsibility              12. Transparency              13. Continual Improvement</p> <p>Specifics for each state program can be found</p> <p>Alabama – <a href="https://www.alaforestry.org/page/PLMGeneral">https://www.alaforestry.org/page/PLMGeneral</a>              Florida – <a href="http://floridaforest.org/programs/master-logger/">http://floridaforest.org/programs/master-logger/</a>              Georgia – <a href="http://gamth.org/">http://gamth.org/</a>              Mississippi – <a href="https://logged.msstate.edu/">https://logged.msstate.edu/</a>              South Carolina – <a href="https://www.scforestry.org/top">https://www.scforestry.org/top</a>              Tennessee – <a href="http://www.tnforestry.com/Loggers/Master_Logger_Program/">http://www.tnforestry.com/Loggers/Master_Logger_Program/</a></p> <p>Enviva's internal Human Resources practices, Operational Excellence Management System and Safety Program ensure employees receive the proper training to perform their tasks safely. Enviva conducts in-depth internal training for all employees and those records are checked during third party audits</p> <p>Enviva's staff with Sustainable Biomass Program responsibility all have college/university degrees in Forestry or a related field. Additional staff training may include:</p> <ul style="list-style-type: none"> <li>• State level logger training to enhance understanding of state harvesting regulations and forestry BMP's</li> <li>• Training in the structure and requirements of Enviva's SFI Wood Sourcing, and FSC/PEFC/SFI Chain of Custody systems</li> <li>• Internal high conservation value area identification</li> <li>• Track &amp; Trace</li> <li>• Climate change</li> <li>• Community relations</li> <li>• Safety</li> </ul> <p>All on site contractors are vetted prior to signing work contracts including a review of their training and safety policies, OSHA 300 log, and other relevant records.</p> <p><u>Conclusion</u>              Enviva sourcing practices ensures adequate training is provided by Enviva, its contractors and suppliers.</p>
Means of Verification	<p>a. Preamble citations              b. <b>ENV-SFIS-Certified Sourcing Implementation Manual</b>              c. <b>Master Wood Purchase Agreement</b>              d. <b>Staff training documentation</b>              e. State logger training websites</p>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.3.3	Analysis shows that feedstock harvesting and biomass production positively contribute to the local economy, including employment.
Finding	<p>The National Association of State Foresters website contains State-wide Assessments describing the contributions the timber industry has in each state contained in the Enviva supply base area. The forests of the Southeast provide a number of economic and societal benefits such as manufacturing, employment, recreation, aesthetics, and environmental protection. To ensure that the forests can meet the current and future economic, ecological, cultural, and recreational demands placed on them, State Foresters, Forest Managers and others must focus their efforts to address changing landowner objectives, parcelization and fragmentation, current and emerging markets, forest regulation, critical habitats, and cultural/recreational concerns.</p> <p>Enviva employs 83 people at its mill located in Jackson County Florida with a direct economic impact of \$119 million According to a report created for Enviva by Chmura Economics &amp; Analytics, the total annual economic impact (direct, indirect, and induced impacts) of the ongoing operation of the Enviva wood pellet manufacturing plant in Jackson County Florida is estimated to be \$147.8 million (measured in 2013 dollars) which supports 172 county jobs. An additional indirect impact of \$26.2 million and 64 jobs will benefit other Jackson County businesses that support the plant's operation, including local logging and trucking companies.</p> <p><u>Conclusion</u> Evidence demonstrates the economic benefits of Enviva's presence in the supply area.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. National State Forester web site</li> <li>c. <b>Internal Economic Impact Study</b></li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.4.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that the health, vitality and other services provided by forest ecosystems are maintained or improved (CPET S7a).
Finding	<p>Enviva is also a member of the National Council on Air and Stream Improvement (NCASI). NCASI Technical Bulletin No. 982 and the 2014 update No. 1022 <i>Summary of Conservation Planning Efforts in Forested Regions of the United States: 2014 Update</i> describes conservation plans and initiatives states are undertaking to ensure forest health. The membership allows Enviva to stay informed of trends in forest health and interact with other in the wood products industry to develop useful research for the forest products sector.</p> <p>The SFI Fiber Sourcing Program Objective 5 requires Program Participants to individually or with others participate in research related to forest health issues. Enviva's ENV-SFIS-01 Certified Sourcing Implementation Manual describes the internal processes Enviva uses to meet the requirement. Markets for residual by-products benefit sawmills which in turn benefits forest landowners and helps support reforestation.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of state forest impact assessments, planning implementation</p>

and monitoring efforts, forestry best management practices in all of Enviva's supply areas. The annual review requires a review of evidence to ensure harvesting practices do not harm forest health or vitality. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Agreement requires the use of forestry BMP's that are the best tool available to ensure forest management activities do not adversely impact forest health and vitality. Even in areas not associated with streams or water features, forestry BMP's specify how roads, trails and other forest management activities are performed to minimize their impact on the forest.

*Primary Feedstock*

Enviva uses its proprietary Track & Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits that reviews the reforestation success and health of forest tracts. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment. And Enviva's HCV Tract Approval Process ensures forest management activities do not harm sensitive ecosystems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section

	<p>8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u> According to SBP Guidance Document: Assessment of Risk, Means of Verification and Mitigation Measures in the Southeast US, “SBP has yet to receive a Regional Risk Assessment (RRA) for the US to evaluate for approval and considers all of the currently available assessment resources in and of themselves to be only partially adequate in assessing high whether forest health and vitality and other forest services are conserved.” Use of the FSC CWNRA is suggested but is considered incomplete.</p> <p>Enviva engages with willing stakeholders to continually assess for improvements in health, vitality and other forest services (<a href="https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration">https://www.greenbiz.com/article/stakeholder-engagement-how-enviva-moved-crisis-collaboration</a>). We find these engagements and subsequent collaborations to be both enlightening and beneficial in the promotion of sustainable forest management</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. <b>ENV-COC-03 Controlled Sources Risk Assessment</b></li> <li>c. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>d. <b>Master Wood Purchase Agreement</b></li> <li>e. <b>Track &amp; Trace</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>HCV Tract Approval Process</b></li> <li>h. NCASI Technical Bulletin No 982 &amp; No. 1022 Summary of Conservation Planning Efforts in Forested Regions of the United States: 2014 Update</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input type="checkbox"/> <b>Low Risk</b> <input checked="" type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>
Comments and Mitigation Measures	<p><u>Management System</u> Enviva will annually review it’s Means of Verification, engage with Stakeholders, use its proprietary Track &amp; Trace Program, HCV Tract Approval Process and District of Origin Process to develop meaningful way to assess forest health, vitality and ecosystem services are maintained or improved.</p>
Risk Rating after Mitigation	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.4.2	The Biomass Producer has implemented appropriate control systems and procedures for verifying that natural processes, such as fires, pests and diseases are managed appropriately (CPET S7b).
Finding	Each state within the Enviva supply base has a state forest action plan in place that is designed to guide the work of forestry professionals to help manage, protect, enhance, and conserve forest resources within the state. These plans address forest pest, disease, and wildfire to insure healthy forest and are available on the National State Forester Website.

	<p>Examples of enforcement of forestry fire laws can be found on the United States Fire Administration website (<a href="https://www.usfa.fema.gov/prevention/outreach/wildfire_arson/court_cases.html">https://www.usfa.fema.gov/prevention/outreach/wildfire_arson/court_cases.html</a>).</p> <p>Forest pest management information and controls can be found on the USDA Forest Service website (<a href="https://www.fs.fed.us/foresthealth/protecting-forest/">https://www.fs.fed.us/foresthealth/protecting-forest/</a>) and includes information on plants, pathogens and insects.</p> <p>These sites permit verification of program successes.</p> <p>In some cases, Enviva can help landowners control infestations by providing a market for diseased, damaged or infested wood which allow landowners to replant healthy forests. In 2018 the Florida Forest Service determined Hurricane Michael damaged over 2.8 million acres of forestland (<a href="http://floridaforest.org/wp-content/uploads/Hurricane-Michael-Initial-Timber-Damage-Estimate.pdf">http://floridaforest.org/wp-content/uploads/Hurricane-Michael-Initial-Timber-Damage-Estimate.pdf</a>). Enviva joined with other sponsors to hold a landowner workshop to help affected landowners get sound advice to plan their reforestation recovery efforts (<a href="http://sfrc.ufl.edu/extension/florida_forestry_information/events_calendar/files/Hurricane_Recovery_Blountstown19_Booklet.pdf">http://sfrc.ufl.edu/extension/florida_forestry_information/events_calendar/files/Hurricane_Recovery_Blountstown19_Booklet.pdf</a>).</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of state forest impact assessments, planning implementation and monitoring efforts, forestry best management practices in all of Enviva's supply areas. The annual review requires a review of evidence to ensure harvesting practices do not harm forest health or vitality. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Agreement requires the use of forestry BMP's that are the best tool available to ensure forest management activities do not adversely impact forest health and vitality.</p> <p><i>Primary Feedstock</i></p> <p>Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon</p>
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	<p>delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits to ensure suppliers manage the health of forest tracts. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment. And Enviva’s HCV Tract Approval Process ensures forest management activities do not harm sensitive eco-systems, habitats or threaten biodiversity in its sourcing practices. Each tract is assessed using a set of criteria that include the tract location within known bottomland forest settings. Every tract is evaluated for forest health concerns, wildlife considerations, location within the landscape, conservation value and other criteria. Enviva will only purchase wood from a tract if the assessment determines harvesting is the best outcome for the forest.</p> <p><i>Secondary Feedstock</i>                  Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p>Enviva reviews sources such as the National Association of State Foresters, USFS Forest Inventory Analysis, World Wildlife Fund, Conservation International and World Resources Institute to conduct a state by state study of its supply area. The analysis indicates there are ample state and regional forest assessment tools that help determine forestry regulations within the supply base area. The analysis determined the wood products industry is well established, logger training is an industry norm and the use of forestry best management practices are a long-standing business practice in the supply base area.</p> <p><u>Conclusion</u>                  Enviva sourcing practices verify natural processes are appropriately managed.</p>
<p>Means of Verification</p>	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. USDA Forest Service web site</li> <li>c. National State Foresters web site State Forest Action Plans</li> <li>d. Florida Forest Service</li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. <b>Track &amp; Trace</b></li> <li>h. <b>District of Origin Process</b></li> <li>i. <b>HCV Tract Approval Process</b></li> </ul>
<p>Evidence Reviewed</p>	<p>All means of verification reviewed</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	<p><b>Indicator</b></p>
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<p><b>2.4.3</b></p>	<p>The Biomass Producer has implemented appropriate control systems and procedures for verifying that there is adequate protection of the forest from unauthorised activities, such as illegal logging, mining and encroachment (CPETS7c).</p>
<p>Finding</p>	<p>FSC US CWNRA Controlled Wood Category 1 Illegally Harvested Wood is well documented and provides clear evidence that illegal logging in the US is a low risk. SBP Principle 1 Biomass feedstock is legally sourced covers this indicator as well.</p> <p>In the United States regulation of forestry practices has its roots in Federal law and in Acts designed to provide guidance to states for developing state specific laws and regulations. The US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and this reporting reveals no widespread or systematic criminal activity in the Enviva supply base area.</p> <p><u>Additional evidence:</u>  Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase</p> <p><i>Primary Feedstock</i>  Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and verifies feedstocks are not from illegal mining or encroachment activities. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment.</p> <p><i>Secondary Feedstock</i>  Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that</p>

	<p>any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if illegal mining or encroachment are prevalent in the supply base area. This document uses many if the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review concluded the same as the FSC US CWNRA that there is a low risk of illegal logging activity in the US. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><b>Conclusion</b> Laws and regulations are enforced in the United States and Enviva's supply area to ensure the potential for illegal logging, mining or other encroachment is a low risk.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>d. <b>Master Wood Purchase Agreement</b></li> <li>e. <b>Track &amp; Trace</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.5.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that legal, customary and traditional tenure and use rights of indigenous people and local communities related to the forest are identified, documented and respected (CPET S9).
Finding	<p>FSC US CWNRA findings relevant to this indicator:</p> <p>2.1. The forest sector is not associated with violent armed conflict, including that which threatens national or regional security and/or linked to military control. – The forest sector is not associated with violent armed conflict, including that which threatens national or regional security and/or linked to military control.</p> <p>2.3. The rights of Indigenous and Traditional Peoples are upheld. – The rights of indigenous and traditional peoples are upheld, particularly in the forest sector.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity related to the violation of customary or traditional tenure and use rights of indigenous people groups in the Enviva supply base area.</p>

The US is an industrial nation that does not have people groups dependent on a particular site or resource for basic human need. Further, federal and State legislation governs Native Americans and their rights are strictly enforced. Because Enviva and its supplier's source from primarily private forestlands where there are no issues related to traditional use or tenure rights. When Enviva does source from public lands, those forest managers are required to follow state or federal requirements to ensure harvests maintain the forest to the good of the public, including working with Native Americans. Native American reservations do exist within the Enviva supply base, but all are either under tribal or federal ownership. Enviva also has a formal process for receiving and responding to public inquiries, particularly those that potentially relate to practices that appear to be inconsistent with existing certification requirements.

Additional evidence:

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.

ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if its sourcing activities would pose a threat to legal, customary or traditional land use rights in the supply area. This document uses many of the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. The review came to the same determination as the FSC US CWNRA meaning there is a low risk Enviva's sourcing practices would threaten these people groups or their rights. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

*Primary Feedstock*

Enviva uses its proprietary Track & Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and can assess whether sourcing activities threaten indigenous peoples or local communities forest access rights. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment.

	<p><i>Secondary Feedstock</i>  Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u>  There are adequate law and regulation in the United States and Enviva's supply area to ensure there are no threats to traditional or customary land use rights.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. Federal and State laws and statutes</li> <li>d. <b>Track &amp; Trace</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>f. <b>District of Origin Process</b></li> <li>g. <b>Master Wood Purchase Agreement</b></li> <li>h. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.5.2	The Biomass Producer has implemented appropriate control systems and procedures for verifying that production of feedstock does not endanger food, water supply or subsistence means of communities, where the use of this specific feedstock or water is essential for the fulfilment of basic needs.
Finding	<p>Excerpt from the FSC US CWNRA  "The United States is an industrialized nation that likely does not contain non-tribal communities within the conterminous states that directly rely on sites or resources fundamental to satisfying basic needs.</p> <p>No evidence of HCV 5 related to non-tribal communities in the conterminous United States was found through a literature search on this topic. There is some evidence that they may occur in Alaska and Hawaii [160, 161], but these states are not included in the assessment area for the NRA. FSC US also surveyed US certification bodies with forest management clients to inquire if they have received any comments from communities or stakeholders that depend on forests for their livelihood during forest management public consultations – the response was negative from all surveyed certification bodies [159]. There is no reason to believe that HCV 5 would be more or less likely to occur on certified vs noncertified lands (the focus of the NRA), therefore, our survey of certification bodies provides a sampling of lands</p>

	<p>throughout the assessment area. FSC US staff consulted with two FSC-certified tribes, two forest managers with extensive experience working with Tribes, and a representative of an affiliation of tribes.” There are no subsistence communities sourcing basic needs from the forest in the Enviva supply area.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity to suggest forest activities are threatening water supplies or subsistence means of communities in the Enviva supply base area.</p> <p>Additional evidence:  Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if there are subsistence communities in the supply base area. This document uses many of the same sources as the FSC US CWNRA. As did the FSC US CWNRA, the review determined there are no subsistence communities in the supply base area. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><i>Primary Feedstock</i>  Enviva uses its proprietary Track &amp; Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva’s Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract’s ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and can assess whether sourcing activities threaten subsistence communities. During annual certification audits an independent certifying body confirms Enviva’s internal findings as part of its third-party audit assessment.</p> <p><i>Secondary Feedstock</i>  Enviva’s annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP’s Normative Interpretations Document. The process collects information about the suppliers sourcing</p>
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	<p>area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva’s supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers’ sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track &amp; Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.</p> <p><u>Conclusion</u> There is a low risk Enviva's sourcing practices will impact a community relying on the forest for its subsistence.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>d. <b>Track &amp; Trace</b></li> <li>e. <b>District of Origin Process</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.6.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that appropriate mechanisms are in place for resolving grievances and disputes, including those relating to tenure and use rights, to forest management practices and to work conditions.
Finding	<p>Some FSC US CWNRA findings related to this indicator</p> <p>1.1 Land tenure and management rights finds the US legality of ownership to be a low risk citing landownership records in the US are highly reliable and frequently used by banking institutions to issue mortgages generally requiring title clearances.</p> <p>“In its report to the Montreal Process Working Group on the Conservation and Management of Temperate and Boreal Forests, in scoring an indicator relating to land tenure, the US government concluded that, “All forest land owners, public and private, exercise their forest tenure rights to achieve their forest land management goals” ....</p> <p>2.2. Labour rights are respected including rights as specified in ILO Fundamental Principles and Rights at work. - Labor rights are upheld including rights as specified in ILO Fundamental Principles and Rights at Work, particularly in the forest sector.</p> <p><u>Additional evidence:</u> In the United States has a robust legal system and well-established laws and regulations protecting land use, tenure rights and forestry practices. The country ranks in the top 88th</p>

	<p>percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law.</p> <p>Federal Law regarding forestry dictate that: Forest fire fighting and forest fire prevention occupations, timber tract occupations, forestry service occupations, logging occupations, and occupations in the operation of any sawmill, lathe mill, shingle mill, or cooperage stock mill abide by (Order 4). [75 FR 28453, May 20, 2010]</p> <p>OSHA work rules ensure workers have a right to a safe workplace. The law requires employers to provide their employees with working conditions that are free of known dangers. The OSHA law also prohibits employers from retaliating against employees for exercising their rights under the law (including the right to raise a health and safety concern or report an injury). For more information see <a href="http://www.whistleblowers.gov">www.whistleblowers.gov</a> or worker rights.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity related to the suppression of lawsuits in the grievance process of forest related activities in the Enviva supply base area.</p> <p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement. The Master Wood Purchase</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if there are adequate laws and enforcement to permit resolution to valid complaints. This document uses many of the same sources as the FSC US CWNRA. The FSC US CWNRA and Enviva’s analysis both arrived at the same conclusion, there are appropriate mechanisms and a low risk of violations. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>The PEFC Chain of Custody Standard requires the certificate holder to have and maintain a complaints process. ENV-PEFCCOC-01 PEFC Chain of Custody is the Enviva document describing the internal process for handling complaints.</p> <p><u>Conclusion</u>  Enviva's sourcing practices confirms the existence and enforcement of appropriate laws and regulations governing grievances, disputes, tenure and use rights.</p>
Means of Verification	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. State and federal laws</li> </ol>

	<ul style="list-style-type: none"> <li>c. Occupational Health and Safety Administration</li> <li>d. FSC US CWNRA</li> <li>e. <b>ENV-PEFCCOC-01 PEFC Chain of Custody</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>h. <b>ENV-PEFCCOC-01 PEFC Chain of Custody Procedure</b></li> <li>i. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.7.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that Freedom of Association and the effective recognition of the right to collective bargaining are respected.
Finding	<p>The FSC US CWNRA determined: 2.2. Labour rights are respected including rights as specified in ILO Fundamental Principles and Rights at work.</p> <p><i>“Freedom of Association &amp; Collective Bargaining</i> Even though the US has not ratified either of the associated Core Conventions, it has been a member of the ILO since 1980 (and previous to that was a member from 1934 to 1977). As a member, the US has obligations under the ILO Constitution, including a commitment under the Declaration on Fundamental Principles and Rights at Work. Additionally, the US is subject to annual ILO review and reporting processes and also complaint processes (through the Committee on Freedom of Association, CFA). A report by the International Organisation of Employers (IOE) notes that “Most CFA case examinations of U.S. law have resulted in conclusions and recommendations that the law or practice subject of the complaint is consistent with the principles of freedom of association” and that “there has never been a wholesale criticism of the NLRA or NLRB by the CFA or the ILO”. There are 42 closed complaints cases listed in the US member profile. All of this provides strong evidence that the United States respects, promotes and realizes, in good faith, workers’ rights to “freedom of association and the effective recognition of the right to collective bargaining.”</p> <p>Additionally, FSC determined, “It is possible to conclude from the information presented that while the US has not ratified and may not conform with all specifics in the associated Core Conventions, it respects the fundamental rights of freedom of association and the effective recognition of the right to collective bargaining.”</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity violating the freedom of association or collective bargaining in the Enviva supply base area.</p> <p>U.S. law clearly specifies rights to collective bargaining and freedom of association. Enviva’s HR practices ensure worker rights are protected. All contracts contain verbiage requiring suppliers to conform to all applicable laws and annually Enviva sends supplier correspondence requiring its suppliers to comply with all labor laws. The United States ratified ILO C150 – Labor Administration Convention securing the rights of worker</p>

	<p>organization and collective bargaining. Verification of this and other ILO US Ratified Conventions can be found on the ILO NORMLEX website</p> <p>Enviva posts all of the US required employee information posters in key locations for all employees to see and read. Enviva's employee handbook describes the rights each worker enjoys including the right of free association and collective bargaining.</p> <p>The United States Department of Labor provides verification of enforcement. (<a href="https://www.dol.gov/general/aboutdol/majorlaws">https://www.dol.gov/general/aboutdol/majorlaws</a>)</p> <p><u>Additional evidence:</u>                  Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if collective bargaining rights exist and are enforced in the supply area. This document uses many of the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determine laws and enforcement does exist in the supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><u>Conclusion</u>                  Analysis of Enviva's sourcing practices confirms the existence of appropriate laws and regulations governing workers right to associate.</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>Enviva HR policies and procedures</b></li> <li>d. <b>ENV-COC-03 Controlled Wood Risk Assessment</b></li> <li>e. <b>Enviva Employee Handbook</b></li> <li>f. <b>Mill site employee postings</b></li> <li>g. <b>Master Wood Purchase Agreement</b></li> <li>h. ILO US Ratified Conventions</li> <li>i. ILO NORMLEX Information System</li> <li>j. United States Department of Labor</li> <li>k. World Bank Governance Index</li> </ol>
<p>Evidence Reviewed</p>	<p>All means of verification reviewed</p>

Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>
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	Indicator
2.7.2	The Biomass Producer has implemented appropriate control systems and procedures for verifying that feedstock is not supplied using any form of compulsory labour.
Finding	<p>The FSC US CWNRA finds:</p> <p>2.2. Labour rights are respected including rights as specified in ILO Fundamental Principles and Rights at work.</p> <p><i>“Compulsory or Forced Labor</i>            The US ratified Core Convention 105 (Abolition of Forced Labour Convention) in 1991 and the ILO web site indicates the status as ‘In Force’. The US has not yet ratified Convention 29 (Forced Labour Convention), but as noted above has legislation that addresses fundamental rights associated with compulsory or forced labor. There are also numerous additional policies, reports, action plans and executive orders that provide evidence of the country’s efforts to ensure these rights, particularly as they relate to human trafficking [28].</p> <p>The United States is consistently categorized as Tier 1 (the highest tier reflecting a country’s efforts to address human trafficking problems) in the U.S. Department of State’s Trafficking in Persons annual report. The Global Slavery Index’s 2016 assessment identifies the United States as a country with one of the lowest estimated prevalence of modern slavery and as a country with one of the strongest responses to modern slavery.”</p> <p><u>Additionally, evidence:</u>            “While the US has not ratified both relevant Core Conventions, it is still possible to conclude that the US respects the fundamental right to the elimination of all forms of forced or compulsory labor, and in particular that there are no concerns identified in the forest sector.”</p> <p>The U.S. supply areas where Enviva procures wood material have comprehensive laws prohibiting the use of compulsory labor or violating citizen’s rights. Enviva’s HR practices ensure worker rights are protected and employment is “at will”.</p> <p>The United States Department of Labor provides verification of enforcement. (<a href="https://www.dol.gov/general/aboutdol/majorlaws">https://www.dol.gov/general/aboutdol/majorlaws</a>)</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity related to the use of compulsory labor in the wood products industry in the Enviva supply base area.</p> <p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> </ul>

	<ul style="list-style-type: none"> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if compulsory labor exists in the supply area. This document uses many of the same sources as the FSC US CWNRA. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determines laws and enforcement that exist to prevent compulsory labor in the supply base area. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><u>Conclusion</u> Analysis of Enviva’s sourcing practices confirms the existence of appropriate laws and regulations prohibiting compulsory labor.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. Federal and State web sites</li> <li>c. FSC US CWNRA</li> <li>d. <b>Enviva HR policies and procedures</b></li> <li>e. <b>ENV-COC-03 Controlled Wood Risk Assessment</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. ILO US Ratified Conventions</li> <li>h. United States Code</li> <li>i. United States Department of Labor</li> <li>j. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.7.3	The Biomass Producer has implemented appropriate control systems and procedures to verify that feedstock is not supplied using child labour.
Finding	<p>The FSC CWNRA finds</p> <p>The United States ratified Core Convention 182 (Worst Forms of Child Labor Convention) in 1999 and the ILO web site indicates the status as ‘In Force’. The US has not yet ratified Convention 138 (Minimum Age Convention), but as noted above has legislation that addresses fundamental rights associated with child labor. Additionally, every state has legislation that further limits the hours and days per week that minors may work in non-farm employment and 34 states have similar limits for farm work. And all states have compulsory education until at least 16 years of age [28]. The US Annual Reports to the ILO also detail statistics on the effective enforcement of the federal legislation, including hundreds of cases, thousands of children affected and millions of</p>

dollars paid in fines each year. The United States does not feature in the ILO Child Labour Country Dashboard, which indicates a low risk for child labour in the United States. The 2016 List of Goods Produced by Child Labor or Forced Labor [46] does not associate any goods produced in the US with child labor.”

Further it finds:

“While the US has not ratified both relevant Core Conventions, it is still possible to conclude that the US respects the fundamental right to the effective abolition of child labor, particularly in the forest sector.”

The United States Department of Labor provides verification of enforcement. (<https://www.dol.gov/general/topic/youthlabor/enforcement>)

The U.S. supply areas where Enviva procures wood material have comprehensive laws prohibiting the use of child labor or violating citizen’s rights. Enviva’s HR practices ensure the company complies with minimum worker age requirements and all supplier contracts contain verbiage requiring suppliers to conform to all applicable laws.

From the AHEC Legality Study:

“We come to the conclusion that wood procured in the study area can be considered Low Risk of violating traditional and civil rights. This conclusion is based on the determination that there is no UN Security Council ban, there is no evidence of prolific child labor, there is no evidence that ILO Fundamental Principles are not respected, and there are recognized and equitable processes in place to resolve conflicts of substantial magnitude.”

“Forest employment in the US is regulated under federal and state laws and codes, which prohibit child labor and are consistent with the ILO Fundamental Principles and Rights at work.”

US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity in the use of child labor in the Enviva supply base area.

Additional evidence:

Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:

- Illegally harvest wood;
- Wood harvested in violation of traditional and civil rights;
- Wood harvested from forests where high conservation values are threatened by management activities;
- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;
- Wood from forests where genetically modified trees are planted;
- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.

	<p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if child labor exists the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determine laws and enforcement does exist to prevent child labor in the supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p>Enviva does not employ anyone under the age or 18 years.</p> <p><u>Conclusion</u> Analysis of Enviva's sourcing practices confirms the existence of appropriate laws and regulations prohibiting child labor.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. Federal and State web sites</li> <li>c. FSC US CWNRA</li> <li>d. <b>Enviva HR policies and procedures</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. ILO US Ratified Conventions</li> <li>h. United States Department of Labor</li> <li>i. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.7.4	The Biomass Producer has implemented appropriate control systems and procedures for verifying that feedstock is not supplied using labour which is discriminated against in respect of employment and occupation.
Finding	<p>The FSC US CWNRA finds:</p> <p>1.12 Legal employment – Most employment in the US is considered "at will," and can be terminated by either party or changed without prior notice. A written contract is not necessary; all employers are still subject to labor laws.</p> <p>2.2 Labour rights are respected including rights as specified in ILO Fundamental Principles and Rights at work.</p> <p>“Discrimination with respect to employment is prohibited in the United States by Section VII of the Civil Rights Act of 1964 (Public Law 88-352), and is overseen by the U.S. Equal Employment Opportunity Commission. There are several additional and complementary pieces of legislation, such as: the Equal Pay Act of 1963 (EPA), which protects men and women who perform substantially equal work in the same establishment from sex-based wage discrimination; the Age Discrimination in Employment Act of 1967 (ADEA), which protects individuals who are 40 years of age or older; Title I and Title V of the Americans with Disabilities Act of 1990, as amended (ADA), which prohibit employment discrimination against qualified individuals with disabilities in the private sector, and in state and local governments; Sections 501 and 505 of the Rehabilitation Act of 1973, which prohibit discrimination against qualified individuals with disabilities who work in the</p>

	<p>federal government;”</p> <p>“All indicators In the Category 1 (legality) assessment were designated as ‘low risk’ at a national scale, indicating that the relevant legislation is enforced.”</p> <p>In the United States regulation of forestry practices has its roots in federal law and acts designed to provide minimum guidance to states in developing state specific laws and regulations and ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law.</p> <p>The U.S. supply areas where Enviva procures wood material have comprehensive laws prohibiting the violation of citizen’s rights. Enviva’s HR practices ensure the company is an equal opportunity employer and prohibit discrimination in all of the federal and state laws in our areas of operation. Enviva’s PEFC Due Diligence Risk Assessment was verified to show “There is no evidence of child labor or violation of ILO Fundamental Principles and Rights at work taking place in forest areas in the district concerned.”</p> <p>The United States Department of Labor provides verification of enforcement. (<a href="https://www.dol.gov/general/aboutdol/majorlaws">https://www.dol.gov/general/aboutdol/majorlaws</a>)</p> <p><u>Additional evidence:</u>  Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if labor discrimination exists the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determine laws and enforcement does exist to prevent labor discrimination in the supply base area. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><u>Conclusion</u>  Analysis of Enviva's sourcing practices confirms the existence of appropriate laws and regulations prohibiting discrimination in the workplace.</p>
<p>Means of Verification</p>	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. Federal and State web sites</li> <li>c. FSC US CWNRA</li> <li>d. <b>Enviva HR policies and procedures</b></li> <li>e. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> </ol>

	<p>f. <b>Master Wood Purchase Agreement</b></p> <p>g. ILO US Ratified Conventions</p> <p>h. United States Department of Labor</p>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.7.5	<p>The Biomass Producer has implemented appropriate control systems and procedures for verifying that feedstock is supplied using labour where the pay and employment conditions are fair and meet, or exceed, minimum requirements.</p>
Finding	<p>The FSC US CWNRA finds:</p> <p>1.12 Legal employment – There is a large body of laws governing fair labor, worker safety and health. These laws protect forest workers by prescribing specific safety measures to employ and safety equipment to use while working. There is a low risk forest worker are not adequately protected.</p> <p><u>Additional evidence:</u></p> <p>In the United States federal law and acts designed to provide minimum guidance to states in developing state specific laws and regulations. The nation ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law.</p> <p>The U.S. supply areas where Enviva procures wood material have comprehensive laws prohibiting the violation of worker’s rights and establishing minimum wage requirements. Enviva’s HR practices ensure worker wages are comparable to other similar employment opportunities in the regions we operate</p> <p>OSHA work rules ensure workers have a right to a safe workplace. The law requires employers to provide their employees with working conditions that are free of known dangers. The OSHA law also prohibits employers from retaliating against employees for exercising their rights under the law (including the right to raise a health and safety concern or report an injury). For more information see <a href="http://www.whistleblowers.gov">www.whistleblowers.gov</a> or worker rights.</p> <p>The United States Department of Labor provides verification of enforcement. (<a href="https://www.dol.gov/general/aboutdol/majorlaws">https://www.dol.gov/general/aboutdol/majorlaws</a>)</p> <p>The United State Department of Labor Occupational Safety and Health Administration provides verification of enforcement. (<a href="https://www.osha.gov/dep/index.html">https://www.osha.gov/dep/index.html</a>)</p> <p>Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance.</p> <p>Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> </ul>

	<ul style="list-style-type: none"> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if poor working conditions exist in the supply area. A review of federal and state laws and guidelines addressing worker safety and pay found no instances of violations. Findings are incorporated into Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><u>Conclusion</u> Analysis of Enviva’s sourcing practices confirms the existence of appropriate laws and regulations ensuring fair pay for workers.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. Federal and State web sites</li> <li>c. <b>Enviva HR policies and procedures</b></li> <li>d. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>e. <b>Master Wood Purchase Agreement</b></li> <li>f. ILO US Ratified Conventions</li> <li>g. Occupational Safety and Health Administration</li> <li>h. United States Department of Labor</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.8.1	The Biomass Producer has implemented appropriate control systems and procedures for verifying that appropriate safeguards are put in place to protect the health and safety of forest workers (CPET S12).
Finding	<p>The FSC US CWNRA finds: 1.12 Legal employment – There is a large body of laws governing fair labor, worker safety and health. These laws protect forest workers by prescribing specific safety measures to employ and safety equipment to use while working. There is a low risk forest worker are not adequately protected.</p> <p>US ranks in the top 88th percentile in Regulatory Quality in the World Bank, Worldwide Governance Indicators and in the top 90th percentile in Rule of Law. Evidence of the effectiveness of law enforcement is evident in news reporting and reveals no widespread or systematic criminal activity related to the violation of forest worker health and safety laws in the Enviva supply base area.</p> <p>The US Occupational Health and Safety Administration is responsible for implementing, monitoring and enforcing worker health and safety laws and regulations. Enviva complies</p>

	<p>with all applicable laws and regulation and contractually requires its suppliers to do the same. The SFI Wood Sourcing Standard requires Program Participants to adhere to health and safety laws. Enviva and its third-party suppliers will not contract with companies exhibiting poor performance. Enviva has safety manuals in place for mill workers. Enviva also has an in-depth safety program in place at each mill to prevent accidents and share best practices amongst sites. OSHA records of reportable injuries and rates are publicly available.</p> <p>Federal Law regarding forestry dictate that: Forest fire fighting and forest fire prevention occupations, timber tract occupations, forestry service occupations, logging occupations, and occupations in the operation of any sawmill, lathe mill, shingle mill, or cooperage stock mill abide by (Order 4). [75 FR 28453, May 20, 2010]</p> <p>OSHA work rules ensure workers have a right to a safe workplace. The law requires employers to provide their employees with working conditions that are free of known dangers. The OSHA law also prohibits employers from retaliating against employees for exercising their rights under the law (including the right to raise a health and safety concern or report an injury). For more information see <a href="http://www.whistleblowers.gov">www.whistleblowers.gov</a> or worker rights.</p> <p>The SFI Fiber Sourcing Standard Objective 4 requires Program Participants to adhere to health and safety laws. Enviva’s ENV-SFIS-01 Certified Sourcing Implementation Manual outlines the processes Enviva uses to meet the requirement.</p> <p>The United State Department of Labor Occupational Safety and Health Administration provides verification of enforcement. (<a href="https://www.osha.gov/dep/index.html">https://www.osha.gov/dep/index.html</a>)</p> <p><u>Additional evidence:</u> Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests where genetically modified trees are planted;</li> <li>- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.</li> </ul> <p>Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.</p> <p>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if poor work conditions exist the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva’s ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determine laws and enforcement does exist to prevent occurrences of poor work conditions in the</p>
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	<p>supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.</p> <p><u>Conclusion</u> Analysis of Enviva's sourcing practices confirms the existence of appropriate laws and regulations ensuring worker health and safety.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. FSC US CWNRA</li> <li>c. <b>ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment</b></li> <li>d. <b>ENV-SFIS-01 Certified Sourcing Implementation Manual</b></li> <li>e. <b>Enviva Employee Handbook</b></li> <li>f. <b>Master Wood Purchase Agreement</b></li> <li>g. United State Department of Labor Occupational Safety and Health</li> <li>h. World Bank Governance Index</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.9.1	Biomass is not sourced from areas that had high carbon stocks in January 2008 and no longer have those high carbon stocks.
Finding	<p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts, forestry best management practices in all of Enviva's supply areas. The analysis includes a study of carbon stocks in the supply area.</p> <p>Wetlands and peatlands are recognized as areas of high carbon stocks as well as areas of important ecological function. Where there are wetlands in the sourcing area, these are strongly protected by legislation to remain as wetlands through the Clean Water Act. No change can be made to the hydrology of wetlands without the permission of the Army Corps of Engineers, who oversee and implement CWA legislation.</p> <p>The annual growth to drain ratio of the supply base is 1.61:1 for all species, 1.83:1 for hardwood, and 1.55:1 for pine. A positive growth to drain ratio indicates that forest growth exceeds harvest removals. In the Gulf region of the U.S. South, total inventory has increased by an average of 1.2% annually between 2000 and 2017. Since 2000, US Forest Service Forest Inventory Analysis (FIA) data indicates an increase in forest area in the states covered included in the Enviva supply base area.</p> <p>Wetlands and peatlands are recognized as areas of high carbon stocks as well as areas of important ecological function. Wetlands such as swamps, ponds and bottoms are common within the supply base, but peatlands such as bogs and fens are usually associated with the Northeast United States and well outside of the supply base. The exception to this is Pocosin, which is the only Southeastern bog and is only found along the Atlantic coast from Virginia to Florida and not likely to occur within the supply base.</p> <p><a href="http://water.epa.gov/type/wetlands/types_index.cfm">http://water.epa.gov/type/wetlands/types_index.cfm</a></p>

	<p>While current BMP's are structured to allow selective harvesting within a wetland, guidelines are in place to protect wetland function and minimize site impacts during harvest. BMP's specifically do not allow forestry activities to alter the hydrologic conditions or drainage patterns of wetlands. By limiting harvest size and requiring leave trees and Streamside Management Zones within the wetland, BMP's work to maintain the carbon sink values associated with wetlands. The use of innovative harvesting techniques such as mat or shovel logging utilize concentrated skid trails and "mats" of felled wood to minimize ground disturbance during wetland harvest. It is common practice for logging slash to be left on site during wetland harvest and natural regeneration of the wetland takes place fairly quickly after harvest.</p> <p><u>Conclusion</u> Analysis of Enviva's supply area confirms carbon stocks are maintained.</p>
Means of Verification	<ul style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. BMP manuals and Compliance reports</li> <li>c. Clean Water Act</li> <li>d. USDA Forest Service Forest Inventory Analysis data</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.9.2</b>	Analysis demonstrates that feedstock harvesting does not diminish the capability of the forest to act as an effective sink or store of carbon over the long term.
Finding	<p>Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure it Enviva is aware of forest impact assessments, planning implementation and monitoring efforts, forestry best management practices in all of Enviva's supply areas. The analysis includes a study of carbon stocks in the supply area.</p> <p>The annual growth to drain ratio of the supply base is 1.61:1 for all species, 1.83:1 for hardwood, and 1.55:1 for pine. A positive growth to drain ratio indicates that forest growth exceeds harvest removals. In the Gulf region of the U.S. South, total inventory has increased by an average of 1.2% annually between 2000 and 2017. Since 2000, US Forest Service Forest Inventory Analysis (FIA) data indicates an increase in forest area in the states covered included in the Enviva supply base area.</p> <p>Understanding the role of managed forests in forest-carbon relationships is an essential component of global carbon dynamics and greenhouse gas (GHG) reductions. The ability of forests to act as carbon storage pools (sinks) and prevent additional carbon from entering the atmosphere is a key factor in this relationship. Recent studies have shown that a "hands off" strategy of forest preservation may not always produce the desired climatic results, but sustainably managed forests can provide carbon sequestration and storage benefits as well as a range of environmental and social benefits such as timber and biomass production, clean water, wildlife habitat, and recreational opportunities. The UN Intergovernmental Panel on Climate Change (IPCC) acknowledged this in their Fourth Assessment Report: "In the long term, a sustainable forest management strategy aimed at maintaining or increasing forest carbon stocks, while producing an annual sustained yield of timber, fiber or energy from the forest, will generate the largest sustained mitigation benefit."</p>

	<p>Healthy and vigorously growing forests are efficient at capturing and storing atmospheric carbon, but older mature forests, while maintaining large carbon stores, have very low rates of additional carbon sequestration. If natural mortality is allowed to occur in these mature forests, they can actually become carbon emitters and lose the benefit of stored carbon. The harvest of forest resources from such stands provides a mechanism for capturing and utilizing stored carbon. Sustainable forest management practiced at the landscape level provides a mosaic of forest stands from young to old and maintains carbon sequestration potential of the forests. Mature stands are harvested and reforested while younger stands are managed to maintain vigor and held for future harvest. Forest management practices such as thinning and prescribed burning reduce the potential for stand mortality from natural disturbances and the carbon emissions associated with such disturbances. The decay of trees destroyed by wildfires, storms, insects and diseases emits stored carbon back into the atmosphere without any realized benefit. As long as harvests and mortality do not exceed net growth across the forest, carbon stocks will remain stable or increase through time. In the U.S. we have experienced over 70 continuous years of net forest growth exceeding removals and mortality, thus indicating forest management practices are having a positive impact on the long-term storage of carbon. Forest Inventory Analysis (FIA) data shows that all states within the Enviva supply base follow the U.S. trend of steady to increasing forested acres.</p> <p>Harvest and utilization of forest products have additional GHG reduction and carbon flow benefits beyond the forest that are often not realized in society. The premise of Enviva's operations is to utilize forest materials and residuals from wood processing facilities in order to produce renewable energy and lower GHG emissions. By accepting lower quality wood produced from forest thinnings, Enviva is promoting the sustainable forest management practices that are essential to forest-climate interactions. Energy obtained from forest biomass uses far less of the Earth's stored carbon; therefore, the use of our wood pellets reduces the flow of fossil fuel-based carbon emissions into the atmosphere. Solid wood products and wood-based products used in construction, furniture, and other industries maintain their stored carbon for the life of the product. The reuse or recycling of these wood products only compounds their impact on carbon flow. It takes less energy (embodied energy) and thus less fossil fuel to process raw forest materials into useful products than it does for other materials such as steel, aluminum, concrete, or plastic. When wood products are used in place of these other materials, there exist a real substitution effect that serves to reduce overall societal carbon emissions.</p> <p>Sustainable forest management along with the additive effect of various wood use strategies, insure that forest operations have substantial carbon sequestration, storage, and substitution benefits that reduce global GHG emissions. Society of American Foresters, 2011, Managing forests because carbon matters: integrating energy, products, and land management policy, Supplement to Journal of Forestry, October/November 2011, Volume 109, Number 7S</p> <p><a href="http://www.fs.fed.us/pnw/pubs/journals/pnw_2011_malmsheimer001.pdf">http://www.fs.fed.us/pnw/pubs/journals/pnw_2011_malmsheimer001.pdf</a></p> <p><a href="http://www.woodforgood.com/assets/Downloads/AHEC%20Carbon%20Storage%20through%20Forest%20Management.pdf">http://www.woodforgood.com/assets/Downloads/AHEC%20Carbon%20Storage%20through%20Forest%20Management.pdf</a></p> <p>Forest Inventory Analysis Data: <a href="http://www.fia.fs.fed.us/">http://www.fia.fs.fed.us/</a></p> <p><u>Conclusion</u> Analysis of Enviva's supply area confirms carbon stocks are maintained.</p>
Means of Verification	<ol style="list-style-type: none"> <li>a. Preamble citations</li> <li>b. SAF Journal of Forestry</li> </ol>

	<ul style="list-style-type: none"> <li>c. Ecological objectives can be achieved with wood derived bioenergy (peer reviewed letter)</li> <li>d. AHEC article (peer reviewed)</li> <li>e. Forest Inventory Analysis Data</li> </ul>
Evidence Reviewed	All means of verification reviewed
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.10.1</b>	Genetically modified trees are not used.
Finding	<p>The FSC US CWNRA findings conclude:            “Currently there is no use of GMO trees for commercial use, but the US might be close to approving the use of such. If this happens it will not be possible to identify the use of that GMO to a certain MU, which is why there might be specified risk in the future. But as the situation is now in the US there are no commercial GMO timber trees.</p> <p>There are no commercial uses of Genetically Modified Organisms (GMO’s) inside the Enviva LP supply area. Enviva communicates its desire to avoid these source annually to its suppliers. Excerpt from Enviva’s PEFC Chain of Custody Due Diligence System:</p> <p>International groups have general consistency regarding the term GMO to ensure that it is not confused with hybrids, cultivars, and breeds, which are derived from traditional breeding programs. A GMO is an organism that has been transformed by the insertion of one or more genes (called transgenes). Often the inserted genes are from a different species than the recipient organism. Genetic modification does not include traditional breeding or natural hybridization, i.e. GM trees cannot be obtained through conventional tree breeding methods.</p> <p>There is a single synthesis document that provides an up to date (as of 2004) evaluation of forest GMO (Genetically Modified Organisms). Currently, the only commercial user of GMO trees is China and only a single species, Populus nigra (Black Poplar, Lombardy Poplar).</p> <p>The majority of GMO tree research takes place in the U.S. As of 2004, there were field trials of multiple genera, but no commercial plantings.</p> <p><u>Additional evidence:</u>            Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva’s legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance.            Enviva uses contractual language in its Master Wood Purchase Agreement requiring supplier to abide by all relevant laws and regulations. The contract includes the requirement to avoid the following unacceptable sources wood:</p> <ul style="list-style-type: none"> <li>- Illegally harvest wood;</li> <li>- Wood harvested in violation of traditional and civil rights;</li> <li>- Wood harvested from forests where high conservation values are threatened by management activities;</li> <li>- Wood harvested from old growth or semi-natural forests being converted to plantations or non-forest use;</li> <li>- Wood from forests were genetically modified trees are planted;</li> </ul>

- Wood in which there was a violation of the ILO Declarations on fundamental principle and rights at work.

Enviva requires all suppliers to sign an annual Master Wood Supply Agreement. Master Wood Purchase Agreements contain recital requiring the supplier to agree to abide by Enviva's legal and sustainability commitments including a provision to allow Enviva to periodically audit suppliers to ensure conformance. Enviva will only purchase feedstocks from suppliers who it has an established business relationship and a signed agreement.

*Primary Feedstock*

Enviva uses its proprietary Track & Trace for all primary wood purchases. Specifically, Enviva maintains a robust tracking and monitoring program to ensure that all our suppliers deliver wood that is sourced according to our expectations. The information Enviva collects for every tract its suppliers harvest includes; data on the forest type, age, GPS coordinates, acreage, and the percent of volume from that tract being sold to Enviva. Before agreeing to accept material from a certain tract, Enviva's Procurement Foresters must obtain this tract-level data and enter it into our database, which generates a unique tract ID. Then, upon delivery to the mill, each load is linked to that tract's ID number. As a result, Enviva knows the tract-level attributes for all the primary wood entering the mill. Enviva randomly conducts field audits and can assure timber GMO species are not in the supply area or feedstock. During annual certification audits an independent certifying body confirms Enviva's internal findings as part of its third-party audit assessment.

*Secondary Feedstock*

Enviva's annual District of Origin and Supplier Data Request Form process allows secondary feedstock suppliers to meet the requirements described in SBP's Normative Interpretations Document. The process collects information about the suppliers sourcing area, species processed at the mill, the types of information collected about the landowner and other pertinent information as described in the guidance found in Standard 2 Section 8.4 of the Interpretations. This information is mapped and compared to Enviva's supply base area and against known areas with potential high conservation value to ensure that any risk to HCV values associated with suppliers of secondary feedstocks is appropriately included in the SBP supply base evaluation process to ensure the suppliers' sourcing practices do not pose a threat to these areas. Enviva purchases primary feedstock from many of the same timber harvesting crews as its secondary feedstock suppliers. Since Enviva uses its proprietary Track & Trace program to purchase primary feedstock it, by extension, has quite a bit of information about the source tracts of its secondary feedstock suppliers.

ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment contains the work done to determine if commercial timber GMO species the supply area. This document uses many if the same sources as the FSC US CWNRA. Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment is reviewed annually to ensure Enviva is aware of changes in the supply base area. As with the FSC US CWNRA the review determine laws and enforcement does exist to prevent the establishment of commercial timber GMO species in the supply base area. Findings are incorporated into Enviva's ENV-COC-03 Controlled Wood/Controlled Source Risk Assessment and revisions to the Master Wood Purchase Agreement.

Enviva did not find its wood supply areas on any lists contained in the FAO preliminary review of biotechnology in forestry (<http://www.fao.org/docrep/008/ae574e/ae574e00.htm>).

There are no commercial uses of genetically modified trees taking place across the wood supply area. Enviva is therefore confident that its wood supply does not source wood from forests in which genetically modified trees are planted.

	<p><u>Conclusion</u> Enviva does not use genetically modified trees at any facility including Enviva.</p>
<p>Means of Verification</p>	<p>a. FSC US CWNRA b. <b>ENV-COC-03 Controlled Wood Risk Assessment</b> c. <b>Track &amp; Trace</b> d. <b>District of Origin Process</b> e. <b>Master Wood Purchase Agreement</b></p>
<p>Evidence Reviewed</p>	<p>All means of Verification reviewed</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>