



# LEED - NC

Version 2

## How to Interpret this Report

**Purpose** The Leadership in Energy and Environmental Design (LEED) Rating System was designed by the US Green Building Council to encourage and facilitate the development of more sustainable buildings. The Burnside Rocket project was evaluated according to this system and the Final Rating is totaled below.

**Environmental Categories** The report is organized into five environmental categories as defined by LEED including: Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources and Indoor Environmental Quality. The category of Innovation and Design Process is also included.

**LEED Prerequisites** Prerequisites must be achieved. Non-compliant prerequisites must be resolved before a certification can be awarded.

**LEED Credits** The environmental categories are subdivided into the established LEED credits, which are based on desired performance goals within each category. An assessment of whether the credit is earned, pending, or rejected is made and a narrative describes the basis for the assessment.

**Achieved** The applicant has provided the mandatory documentation which supports the achievement of the credit requirements, achieving the associated points. Currently the project has scored the adjacent points in this category.

52

**Denied** The applicant has applied for a point in a particular credit, but has misinterpreted the credit intent or cannot substantiate meeting the requirements. Currently the project has the adjacent points in this category.

1

**Rating Final Rating is Platinum**

Official LEED v2 Scores: Certified: 26-32 Silver Rating: 33-38 Gold Rating: 39-51 Platinum Rating: 52 +

A - Achieved  
D - Denied

A	D		Possible Points 14
11	1	<b>Sustainable Sites</b>	
0		<b>Erosion &amp; Sedimentation Control</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project has followed an erosion and sedimentation control plan that complies with the local erosion and sedimentation control standards. The standards are equal to or more stringent than the referenced EPA standard. Additionally the project team has provided a list of the measures implemented on-site.	Prerequisite 1-Version 2.1
1		<b>Site Selection</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project site does not meet any of the prohibited criteria.	Credit 1-Version 2.1
1		<b>Urban Redevelopment</b> Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Development Density & Community Connectivity.  The LEED NC v2.2 Submittal Template has been provided stating that the project site is located within a minimum of ten (10) community services and a minimum of one (1) residential district, with a minimum density of 10 units per acre. Additionally, a listing of the neighborhood services has been provided on the Template. The required site map showing the ½ mile radius and the locations of all noted services and retail developments has also been provided.	Credit 2-Version 2.1
Not Attempting		<b>Brownfield Redevelopment</b> Preliminary Review: No Comments.	Credit 3-Version 2.1
1		<b>Alternative Transportation, Public Transportation Access</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project is served by 5 bus lines within 0.25 miles of the project site. A scaled drawing showing the location of the bus stops has been provided.	Credit 4.1-Version 2.1
1		<b>Alternative Transportation, Bicycle Storage &amp; Changing Rooms</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project has provided bicycle storage and shower facilities for 5% of the FTE building occupants.	Credit 4.2-Version 2.1
Not Attempting		<b>Alternative Transportation, Alternative Fuel Refueling Stations</b> Preliminary Review: No Comments.	Credit 4.3-Version 2.1
1		<b>Alternative Transportation, Parking Capacity</b> Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Alternative Transportation: Parking Capacity.  The LEED NC v2.2 Submittal Template has been provided verifying that no new parking has been added to the site.	Credit 4.4-Version 2.1

A - Achieved  
D - Denied

A      D

1   **Reduced Site Disturbance, Protect or Restore Open Space** Credit 5.1-Version 2.1

Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Site Development: Protect or Restore Habitat.

The LEED NC v2.2 Submittal Template has been provided verifying that a minimum of 20% of the site area is a vegetated roof as this is considered a urban site. Calculations have been provided claiming that 1,042 s.f. of the site area (approx. 24.4% of the total site area (excluding building footprint) has been planted with native or adaptive species as required by this credit. Required site drawing has been provided showing this restored area. A narrative describing the project's approach to this credit was provided as well.

1   **Reduced Site Disturbance, Development Footprint** Credit 5.2-Version 2.1

Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Site Development: Maximize Open Space.

The LEED NC v2.2 Submittal Template has been provided verifying that the project has been developed in an area with zoning requirements, but with no requirement for open space, and has provided vegetated open space equal to 20% of the project's site area. Site drawings have been provided in support of this credit.

1   **Stormwater Management, Rate and Quantity** Credit 6.1-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that the project has implemented a stormwater management plan that results in a 100% decrease (rate and quantity) in runoff from calculated pre-project conditions for a 10 year rate. A narrative has been provided demonstrating that the pre-project site runoff rates were below the proposed plan. Through development of a drywell, the design case calculations demonstrate that the resulting post-development site imperviousness is 100%.

A narrative describing the project's stormwater management plan and pre/post development stormwater rate and quantity calculations to support this claim.

1   **Stormwater Management, Treatment** Credit 6.2-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that the project has been designed in accordance with local best management practices for removal of TSS and TP. The removal efficiency ranges stated for the project do not meet the required efficiency thresholds to meet the full intent of the credit. Further explanation is required explaining how the project stormwater treatment system is designed to meet the full requirements of this credit.

TECHNICAL ADVICE: Please provide a narrative and any supporting calculations explaining how the stormwater treatment system meets the full requirements of this credit, despite TSS and TP removal efficiencies that are below the threshold requirements for the credit.

**Final Review** The LEED Submittal Template has been provided declaring that the project has been designed in accordance with the referenced EPA Standard's best management practices for removal of TSS and TP. The project is reporting a minimum 80% TSS and 40% TP removal based on estimated loading from a 2-year / 24-hour storm event.

A narrative describing the project's stormwater management plan, as well as pre/post development stormwater rate and quantity calculations, have been provided to support this claim.

A - Achieved  
D - Denied

**A**      **D**  
   **1**      **Landscape & Exterior Design to Reduce Heat Islands, Non-Roof Surfaces**      **Credit 7.1-Version 2.1**

Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Heat Island Effect: Non-Roof.

The LEED NC v2.2 Submittal Template has been provided declaring that a minimum of 30% of the non-roof impervious surfaces on-site have been paved with highly reflective materials. Calculations provided in the submittal claim that of the 633.63 s.f. of total non-roof impervious surfaces, 325 s.f. (51.292%), have been paved with non-colored concrete and are covered with an arcade. A site plan showing the extents of the paved and shaded areas, has been provided.

**1**      **Landscape & Exterior Design to Reduce Heat Islands, Roof Surfaces**      **Credit 7.2-Version 2.1**

Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Heat Island Effect: Roof.

The LEED NC v2.2 Submittal Template has been provided verifying that the weighted SRI average for high albedo and vegetated roofing surfaces meets the requirements defined in the LEED Reference Guide.

The submittal indicates that 1,042 s.f. of the reported 4,263 s.f. total roof area (24%) is covered by a vegetated roof system. Drawings showing the extents of the vegetated roof have also been provided.

The submittal further states that 3,173 s.f. of the reported 4,263 s.f. total roof area (74%) is covered by an Energy Star rated roofing product that has an emissivity of at least 0.9.

**1**      **Light Pollution Reduction**      **Credit 8-Version 2.1**

Preliminary Review: The LEED Submittal Template has been provided declaring that the project's exterior lighting has been designed in accordance with the referenced IESNA guidelines. The required site illumination plan, with summary calculations, has not been provided.

TECHNICAL ADVICE: Please provide a site illumination plan with point-by-point analysis. The plan must clearly show the LEED project boundary and must use a 10'x10' calculation grid and should extend 10' beyond the project boundary. Please include a summary of the calculation results including: average, maximum, minimum, and max:min ratios. Please see pages 73-76 of the LEED NCv2.1 Reference Guide for additional calculation information.

**Requirements** Meet or provide lower light levels and uniformity ratios than those recommended by the Illuminating Engineering Society of North America (IESNA) Recommended Practice Manual: Lighting for Exterior Environments (RP-33-99). Design exterior lighting such that all exterior luminaires with more than 1000 initial lamp lumens are shielded and all luminaires with more than 3500 initial lamp lumens meet the Full Cutoff IESNA Classification. The maximum candela value of all interior lighting shall fall within the building (not out through windows) and the maximum candela value of all exterior lighting shall fall within the property. Any luminaire within a distance of 2.5 times its mounting height from the property boundary shall have shielding such that no light from that luminaire crosses the property boundary.

**Submittals** Provide the LEED Letter Template, signed by an appropriate party, declaring that the credit requirements have been met.

**Final Review** A site illumination plan with point-by-point analysis has not been provided as requested in the preliminary review.

A - Achieved  
D - Denied

A		D			Possible Points
4	<input type="checkbox"/>	<input type="checkbox"/>		<b>Water Efficiency</b>	<b>5</b>
1	<input type="checkbox"/>	<input type="checkbox"/>		<b>Water Efficient Landscaping, Reduce by 50%</b>	Credit 1.1-Version 2.1
Preliminary Review: The LEED Submittal Template has been provided declaring that no permanent irrigation system has been installed. A narrative has also been included describing the native/drought-tolerant planting installed on the site. The narrative states that the planting will only be watered during the initial plant establishment period.					
1	<input type="checkbox"/>	<input type="checkbox"/>		<b>Water Efficient Landscaping, No Potable Use or No Irrigation</b>	Credit 1.2-Version 2.1
Preliminary Review: See comments under WEc1.1					
Not Attempting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Innovative Wastewater Technologies</b>	Credit 2-Version 2.1
Preliminary Review: No Comments.					
1	<input type="checkbox"/>	<input type="checkbox"/>		<b>Water Use Reduction, 20% Reduction</b>	Credit 3.1-Version 2.1
Preliminary Review: The LEED Submittal Template and water use calculations have been provided declaring that the project has reduced potable water use by 32.11% from a calculated baseline design through the installation of ultra low-flow water and dual flush water closets, ultra low-flow faucets, and shower heads.					
1	<input type="checkbox"/>	<input type="checkbox"/>		<b>Water Use Reduction, 30% Reduction</b>	Credit 3.2-Version 2.1
Preliminary Review: See comments under WEc3.1.					

A - Achieved  
D - Denied

A	D		Possible Points
12	<input type="checkbox"/>	<input type="checkbox"/>	17
<b>Energy &amp; Atmosphere</b>			
0	<input type="checkbox"/>	<input type="checkbox"/>	Prerequisite 1-Version 2.1
Fundamental Building Systems Commissioning			
Preliminary Review: The LEED Submittal Template has been provided declaring that the fundamental commissioning requirements have been completed or are under contract.			
0	<input type="checkbox"/>	<input type="checkbox"/>	Prerequisite 2-Version 2.1
Minimum Energy Performance			
Preliminary Review: The LEED Submittal Template has been provided declaring that the project complies with the minimum energy performance requirements of ASHRAE 90.1-1999.			
0	<input type="checkbox"/>	<input type="checkbox"/>	Prerequisite 3-Version 2.1
CFC Reduction in HVAC&R Equipment			
Preliminary Review: The LEED Submittal Template has been provided declaring that base building HVAC&R systems use no CFC-based refrigerants.			
2	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.1-Version 2.1
Optimize Energy Performance, 20% New /10% Existing			
Preliminary Review: The LEED submittal template and supporting documentation have been provided claiming that the project performs 48.5% better than ASHRAE 90.1-1999 using the LEED Energy Cost Budget Method. Supporting documentation substantiates the majority of the predicted savings. However, one additional clarification is required to verify the full level of savings:			
TECHNICAL ADVICE:			
Pumping energy savings are shown as more than 70%. However, it is unclear how these savings are achieved. Please verify that all requirements in Section 6.3.2.2.3 have been modeled for the budget case pumps. Please also provide a further description of the differences between the budget case and proposed case hydronic loop inputs that lead to the large pumping energy savings. Also, verify that the pump system power (expressed in W/gpm or hp/gpm) is the same as the proposed design (except that the budget case pump hp may be adjusted to reflect the minimum motor efficiency prescribed by 10.2 for the appropriate motor size).			
Final Review The LEED Submittal template and supporting documentation have been provided with clarification verifying that the project performs 48.5% better than ASHRAE 90.1-1999, achieving 8 LEED points for energy efficiency. Supporting documentation substantiates the predicted level of savings. Energy efficiency measures incorporated into the building design include improved wall and roof insulation, high performance fenestration, overhangs and window setbacks, highly efficient lighting design, efficient ground water heat pumps, and domestic water heat recovery using desuperheaters.			
2	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.2-Version 2.1
Optimize Energy Performance, 30% New /20% Existing			
Preliminary Review: See comments under EAc1.1.			
2	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.3-Version 2.1
Optimize Energy Performance, 40% New /30% Existing			
Preliminary Review: See comments under EAc1.1.			
2	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.4-Version 2.1
Optimize Energy Performance, 50% New /40% Existing			
Preliminary Review: See comments under EAc1.1.			
Not Attempting	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.5-Version 2.1
Optimize Energy Performance, 60% New /50% Existing			
Preliminary Review: No Comments.			

A - Achieved  
D - Denied

A	D		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Not Attempting	<b>Renewable Energy, 5% Contribution</b> <span style="float: right;">Credit 2.1-Version 2.1</span>
			Preliminary Review: No Comments.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Not Attempting	<b>Renewable Energy, 10% Contribution</b> <span style="float: right;">Credit 2.2-Version 2.1</span>
			Preliminary Review: No Comments.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Not Attempting	<b>Renewable Energy, 20% Contribution</b> <span style="float: right;">Credit 2.3-Version 2.1</span>
			Preliminary Review: No Comments.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Additional Commissioning</b> <span style="float: right;">Credit 3-Version 2.1</span>
			Preliminary Review: The LEED Submittal Template has been provided declaring that the required additional commissioning elements have been completed or are under contract to be completed.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Ozone Protection</b> <span style="float: right;">Credit 4-Version 2.1</span>
			Preliminary Review: The LEED Submittal Template has been provided declaring that base building HVAC&R systems use no HCFC-based refrigerants or Halons.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Measurement &amp; Verification</b> <span style="float: right;">Credit 5-Version 2.1</span>
			Preliminary Review: The LEED Submittal Template has been submitted declaring that the project has developed and implemented a measurement and verification plan consistent with Option (D) of the IPMVP.
			A copy of the project's M&V plan has been provided to support achievement of this credit.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Green Power</b> <span style="float: right;">Credit 6-Version 2.1</span>
			Preliminary Review: The LEED Submittal Template has been provided declaring that the project has a 2-year purchase agreement for Tradable Renewable Certificates (TRCs) equal to 50% of the project's annual electric energy consumption that meets the Green-E definition for renewable power. The submitted documentation includes a copy of the two-year contract with Bonneville Environmental Foundation to provide RECs equal to 50% of the building's annual electric energy usage.

A - Achieved  
D - Denied

A	D		Possible Points 13
7		<b>Materials &amp; Resources</b>	
0		<b>Storage &amp; Collection of Recyclables</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project has provided appropriately sized dedicated areas for the collection and storage of recycling materials, including cardboard, paper, plastic, glass, and metals. However, plans highlighting the location of recycling collection areas within the project have not been provided.  TECHNICAL ADVICE: Please provide plans that highlight the location of recycling collection areas within the project.  <b>Final Review</b> The LEED Submittal Template has been provided declaring that the project has provided appropriately sized dedicated areas for the collection and storage of recycling materials, including cardboard, paper, plastic, glass, and metals. Plans have been provided highlighting the location of recycling collection areas within the project.	Prerequisite 1-Version 2.1
Not Attempting		<b>Building Reuse, Maintain 75% of Existing Shell</b> Preliminary Review: No Comments.	Credit 1.1-Version 2.1
Not Attempting		<b>Building Reuse, Maintain 100% of Shell</b> Preliminary Review: No Comments.	Credit 1.2-Version 2.1
Not Attempting		<b>Building Reuse, Maintain 100% Shell and 50% Non-Shell</b> Preliminary Review: No Comments.	Credit 1.3-Version 2.1
1		<b>Construction Waste Management, Divert 50%</b> Preliminary Review: The LEED Submittal Template has been provided declaring that the project has diverted 61.99 tons (99.97%) of on-site generated construction waste from landfill. Calculations have been provided to document the waste types and receiving agencies for recycled materials.	Credit 2.1-Version 2.1
1		<b>Construction Waste Management, Divert 75%</b> Preliminary Review: See comments under MRc2.1.	Credit 2.2-Version 2.1
Not Attempting		<b>Resource Reuse, Specify 5%</b> Preliminary Review: No Comments.	Credit 3.1-Version 2.1
Not Attempting		<b>Resource Reuse, Specify 10%</b> Preliminary Review: No Comments.	Credit 3.2-Version 2.1
1		<b>Recycled Content, Specify 5%</b> Preliminary Review: The LEED Submittal Template and calculations have been provided declaring that 20.75% of the total building materials content, by value, have been manufactured using recycled materials.	Credit 4.1-Version 2.1
1		<b>Recycled Content, Specify 10%</b> Preliminary Review: See comments under MRc4.1.	Credit 4.2-Version 2.1

A - Achieved  
D - Denied

A	D				
1	<input type="checkbox"/>	<input type="checkbox"/>	Local/Regional Materials, 20% Manufactured Regionally	Credit 5.1-Version 2.1	Preliminary Review: The LEED Submittal Template and calculation have been provided declaring that 90.28% of the total building materials by value have been manufactured within 500 miles of the project site.
1	<input type="checkbox"/>	<input type="checkbox"/>	Local/Regional Materials, 50% Extracted Regionally	Credit 5.2-Version 2.1	Preliminary Review: The LEED Submittal Template and calculation have been provided declaring that 72.75% of the total building materials value (81.00% of the locally manufactured materials) have been manufactured using raw materials that were harvested, extracted, or recovered within 500 miles of the project site.
Not Attempting	<input type="checkbox"/>	<input type="checkbox"/>	Rapidly Renewable Materials	Credit 6-Version 2.1	Preliminary Review: No Comments.
1	<input type="checkbox"/>	<input type="checkbox"/>	Certified Wood	Credit 7-Version 2.1	Preliminary Review: The LEED Submittal Template has been provided declaring that 100% of the total wood based building materials are harvested from FSC certified forests. The supplemental calculation spreadsheet has been provided listing the certified wood products and chain of custody numbers.

A - Achieved  
D - Denied

A	D		Indoor Environmental Quality	Possible Points 15
13	<input type="checkbox"/>	<input type="checkbox"/>	<b>Minimum IAQ Performance</b>	Prerequisite 1-Version 2.1
<p>Preliminary Review: The LEED Submittal Template has been provided declaring that the project complies with the minimum IAQ performance requirements of ASHRAE 62-2004. Per a posted CIR Ruling, dated 6/8/2005, ASHRAE 62-2004 is acceptable in lieu of the referenced ASHRAE 62-2001 Standard for prerequisite compliance.</p> <p>A supplemental narrative, documenting the project's compliance with the Ventilation Rate Procedure methods, has not been provided.</p> <p>TECHNICAL ADVICE: Please provide a detailed narrative describing the procedure employed by the project in the IAQ analysis (Ventilation Rate Procedure) as required by Submittal Template.</p> <p><b>Final Review</b> The LEED Submittal Template has been provided declaring that the project complies with the minimum IAQ performance requirements of ASHRAE 62-1999 and all approved Addenda. A supplemental narrative has been provided to document the project's compliance with the Ventilation Rate Procedure methods.</p>				
0	<input type="checkbox"/>	<input type="checkbox"/>	<b>Environmental Tobacco Smoke (ETS) Control</b>	Prerequisite 2-Version 2.1
<p>Preliminary Review: The LEED Submittal Template has been provided declaring that smoking is prohibited inside buildings within the project and that designated smoking areas have been located away from building openings and air intakes.</p>				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Carbon Dioxide (CO2) Monitoring</b>	Credit 1-Version 2.1
<p>Preliminary Review: The LEED Submittal Template has been provided declaring that the project has installed a CO2 monitoring system in accordance with the requirements of the credit. Additionally, a design narrative has been provided that describes the installed sensors, operational parameters, and design conditions.</p>				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Increase Ventilation Effectiveness</b>	Credit 2-Version 2.1
<p>Preliminary Review: The LEED Submittal Template has been provided declaring that the design provides effective natural ventilation in at least 90% of each room or zone in the direction of airflow for at least 95% of the occupied hours. A table summarizing the airflow simulation results for each zone and sketches indicating the airflow patterns for each zone have also been provided.</p>				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Construction IAQ Management Plan, During Construction</b>	Credit 3.1-Version 2.1
<p>Preliminary Review: The LEED Submittal Template has been submitted declaring that the project developed and implemented a construction IAQ management plan that followed the referenced SMACNA Guidelines. The plan indicates that the air handling equipment was used during construction and that MERV 8 filters were installed in the air handling unit and at all return air grilles. Filtration media was replaced with new MERV 13 filters (in the air handling units) prior to occupancy.</p> <p>Photographs, taken on a minimum of 3 different occasions, and a narrative describing the implemented IAQ measures have also been provided. Additionally, a narrative describing the implemented IAQ measures has been provided.</p>				
Not Attempting	<input type="checkbox"/>	<input type="checkbox"/>	<b>Construction IAQ Management Plan, Before Occupancy</b>	Credit 3.2-Version 2.1
<p>Preliminary Review: No Comments.</p>				

A - Achieved  
D - Denied

A      D

1    **Low-Emitting Materials, Adhesives & Sealants** Credit 4.1-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that all adhesive and sealant products comply with the VOC limits of the referenced standards for this credit. The required summary of all interior adhesive and sealant products has not been provided.

TECHNICAL ADVICE: Please provide a summary of all interior adhesive and sealant products along with VOC data for each product confirming that they comply with the referenced VOC limits.

**Final Review** The LEED Submittal Template has been provided declaring that all adhesive and sealant products comply with the VOC limits of the referenced standards for this credit. A summary of all interior adhesive and sealant products has been provided along with VOC data for each product confirming that they comply with the referenced VOC limits.

1    **Low-Emitting Materials, Paints** Credit 4.2-Version 2.1

Preliminary Review: The project team has indicated that the project has elected to pursue this credit using the NC v2.2 compliance path for Low-Emitting Materials, Paints.

The LEED NC v2.2 Submittal Template has provided verifying that all interior paints comply with the VOC limits of the referenced standards for this credit. The required summary of all interior paints has not been provided.

TECHNICAL ADVICE: Please provide a summary of all interior paint and coating products along with VOC data for each product confirming that they comply with the referenced VOC limits.

**Final Review** The LEED Submittal Template has been provided declaring that all indoor paints comply with the VOC limits of Green Seal GS-11. A summary of all interior paints has been provided along with VOC data for each product confirming that they comply with the referenced VOC limits.

1    **Low-Emitting Materials, Carpet** Credit 4.3-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that all installed carpet systems comply with the VOC limits of the CRI Green Label Testing Program. The required summary of all installed carpet systems has not been provided.

TECHNICAL ADVICE: Please provide a summary of all installed carpet systems along with manufacturer's information confirming that they comply with the referenced standard.

**Final Review** The LEED Submittal Template has been provided declaring that installed carpet systems comply with the requirements of the CRI Green Label Testing Program. The submittal lists Shaw Contract Group as the installed product.

1    **Low-Emitting Materials, Composite Wood** Credit 4.4-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that all indoor composite wood materials used on the project contain no urea-formaldehyde. The required summary of all interior composite wood products has not been provided.

TECHNICAL ADVICE: Please provide a summary of all installed composite wood and agrifiber products. Include confirmation that the composite products contain no added urea-formaldehyde.

**Final Review** A summary list of all installed composite wood and agrifiber products has been provided as requested. The list indicates that all composite wood and agrifiber materials installed on the project contain no added urea-formaldehyde.

1    **Indoor Chemical and Pollutant Source Control** Credit 5-Version 2.1

Preliminary Review: The LEED Submittal Template has been provided declaring that the project has installed the required indoor chemical and pollutant source control measures required by this credit.

A - Achieved  
D - Denied

A	D				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Controllability of Systems, Perimeter</b>	Credit 6.1-Version 2.1	
Preliminary Review: The LEED Submittal Template has been provided declaring that, for perimeter spaces, a minimum of one operable window and one lighting control zone has been provided for all regularly occupied areas within 15 feet of the perimeter wall. Calculations, a narrative, and highlighted floor plans have been provided to support this declaration.					
	<input type="checkbox"/>	<input type="checkbox"/>	<b>Controllability of Systems, Non-perimeter</b>	Credit 6.2-Version 2.1	
Preliminary Review: No Comments.					
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Thermal Comfort, Compliance with ASHRAE 55-1992</b>	Credit 7.1-Version 2.1	
Preliminary Review: The LEED Submittal Template has been provided declaring that the project is naturally ventilated. The Template indicates that the project complies with the 90% acceptability limits of the adaptive comfort temperature boundaries in the Collaborative for High Performance Schools (CHPS) Best Practices Manual Appendix C, Figure 2.					
The project narrative and submitted EAc1 documentation indicates that the building is mechanically ventilated. As such, it is unclear why the project has selected the natural ventilation compliance path for this credit.					
TECHNICAL ADVICE: Please provide a detailed narrative confirming if the building is naturally or mechanically ventilated. The narrative should also provide specific information regarding how the project complies with selected credit path. Please provide a revised, signed, LEED Submittal Template that appropriately lists the applicable compliance path for this credit.					
			<b>Final Review</b>		
The LEED Submittal Template has been provided declaring that the project has been designed to maintain indoor comfort within the ranges established by ASHRAE Standard 55-1992, Addenda 1995. A table listing the control ranges and installed control methods has also been provided for the mechanically ventilated areas.					
The LEED Submittal Template has been provided declaring that the project complies with the 90% acceptability limits of the adaptive comfort temperature boundaries in the Collaborative for High Performance Schools (CHPS) Best Practices Manual Appendix C, Figure 2 for the naturally ventilated areas.					
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Thermal Comfort, Permanent Monitoring System</b>	Credit 7.2-Version 2.1	
Preliminary Review: The LEED Submittal Template has been provided declaring that the project has installed a permanent temperature and humidity monitoring system that will provide control of the building zones within the thermal comfort ranges defined in ASHRAE 55-1992, Addenda 1995. These controls have been commissioned under the scope for EAp1, Fundamental Systems Commissioning.					
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Daylight and Views, Daylight 75% of Spaces</b>	Credit 8.1-Version 2.1	
Preliminary Review: The LEED Submittal Template has been provided declaring that the project has achieved a minimum 2% daylight factor in 75% of all space occupied for critical visual tasks. Calculations and highlighted drawings to support this claim have also been provided.					
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Daylight and Views, Views for 90% of Spaces</b>	Credit 8.2-Version 2.1	
Preliminary Review: The LEED Submittal Template has been provided declaring that the project has provided direct line of sight views from a minimum of 90% of all space occupied for critical visual tasks. Floor plans highlighting the direct line of sight and supporting calculations have also been provided.					

A - Achieved  
D - Denied

A	D		Innovation & Design Process	Possible Points 5
5	<input type="checkbox"/>	<input type="checkbox"/>	<b>Exemplary Performance MRc2</b>	Credit 1.1-Version 2.1
Preliminary Review: The LEED Submittal Template has been provided declaring that the project has diverted 61.99 tons (99.97%) of on-site generated construction waste from landfill. Calculations have been provided to document the waste types and receiving agencies for recycled materials.				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Exemplary Performance MRc5.1</b>	Credit 1.2-Version 2.1
Preliminary Review: The LEED Submittal Template and calculation have been provided declaring that 90.28% of the total building materials by value have been manufactured within 500 miles of the project site.				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Exemplary Performance MRc5.2</b>	Credit 1.3-Version 2.1
Preliminary Review: The LEED Submittal Template and calculation have been provided declaring that 72.75% of the total building materials value (81.00% of the locally manufactured materials) have been manufactured using raw materials that were harvested, extracted, or recovered within 500 miles of the project site.				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>Exemplary Performance MRc7</b>	Credit 1.4-Version 2.1
Preliminary Review: The LEED Submittal Template has been provided declaring that 100% of the total wood based building materials are harvested from FSC certified forests. The supplemental calculation spreadsheet has been provided listing the certified wood products and chain of custody numbers.				
1	<input type="checkbox"/>	<input type="checkbox"/>	<b>LEED™ Accredited Professional</b>	Credit 2-Version 2.1
Preliminary Review: The LEED Submittal Template has been provided declaring that a LEED AP has been a participant on the project development team. A copy of the LEED AP award certification for Ralph Dinola has been included as required.				