**2020 Category A City: RICHFIELD**

Currently a Step Three GreenStep City as of June 2019

joined 1/10/12

***Assessor and date****: Kristin Mroz, 11/17/20*

**25**

***Total BPs done:***

\* required for Step 3 recognition

|  |
| --- |
| Best practices (**required**) BP implemented? Action summary by # and star level achieved Action rules (req. actions in **bold**) Distribution BPs met? |
|  **BUILDINGS: distribution requirement is 2 BPs ; are 2 BPs done?** |
| **1. Public** **1 & 2; & one action from 3-7** | **YES** | 1.1 COMPLETE @ 2 STARS -- 80 months data, current; data input once/yr. and quarterly updates to be recommended for next steps towards Step 41.2 COMPLETE @ 2 STARS -- new PW Facility has motion sensors, automatic bath sink shut-offs; automatic flushing, low-flow toilets in bathrooms, energy use 30-35% better than standard construction, ground source heat pump, daylighting, 65% demolition materials and construction waste recycled, 10% more open space than required, almost 100% of stormwater retained on site via rain gardens, retention ponds, minimized building footprint, and permeable paving; LED outside lights at Wood Lake Nature Center1.5 COMPLETE @ 2 STARS – 2008 new Public Works Facility: LEED attributes; occupancy sensors, low-flow water fixtures, state-of-the art HVAC systems, etc. 1.7 COMPLETE @ 1 STAR -- Public Works facility is heated/cooled by closed-loop/ground source geothermal |
| 2. Private any two actions | **YES** | 2.1 COMPLETE @ 3 STARS – 2013 Home Energy Squad Enhanced Program (cost-share with residents), up to $200 in additional rebates from the City; after 8 community workshops, approved goal: “The housing stock reflects the community’s commitment to sustainability and healthy living.”2.2 COMPLETE @ 3 STARS -- building development review process makes clear proposals evaluated on city’ Comp Plan sustainability goal 2.4 COMPLETE @ 2 STARS -- Best Buy LEED Gold; Honda LEED-certifiable building expansion2.5 COMPLETE @ 1 STAR – comp plan water conservation goal, & info sent in utility bills; 2010 3-tier conservation rate structure2.6 COMPLETE @ 3 STARS -- By July 2013 21 buyers of foreclosed homes received loans; homes rehabbed under MN Housing’s Green Communities standards |
| 3. New 1 or 2; one from 3-5 | **YES** | 3.1 COMPLETE @ 1 STAR -- Parks Master Plan policy states that all new buildings include in the planning or process criterion that improves sustainability of materials, energy use, operating cost and lifecycle replacement and natural environmental impact. 3.4 COMPLETE @ 3 STARS -- Richfield Rediscovered Lot Sale Program offers a $5,000 credit: required – 3+ BR, 2 baths, 2-car garage, complements neighborhood; qualifies for "Green" certification. By July 2013 3 MN Green Path & 1 LEED homes |
| 4. Lighting/Signals 2 actions with one from 5-8 | **YES** | 4.1 COMPLETE @ 3 STARS -- Code requires outdoor Dark-Sky & metal halide public & private lighting 4.2 COMPLETE @ 3 STARS – U of M study recommended LED lights & solar panels on the streetlights: by end of 2018 272 LED street lights have been installed -- almost 11% of total street lighting4.4 COMPLETE @ 3 STARS -- City coordinated with Co. & MNDOT to synchronize all of the city traffic signals4.5 COMPLETE @ 2 STARS -- 12 LED street lights; one solar traffic sign. It reports speeds of vehicles as they proceed past the sign; LEDs in parking lot of the ice arena/pool.4.6 COMPLETE @ 2 STARS -- replaced fixtures on park buildings, well house, Ice Arena with Dark Sky compliant fixtures and LED bulbs4.7 COMPLETE @ 1 STAR -- Ice Arena parking lot LED bulbs in 20144.8 COMPLETE @ 3 STARS |
| 5. Reuse any one action | **YES** | 5.5 COMPLETE @ 3 STARS -- master plans with design standards for all 6 major commercial areas. |
|  **LAND USE: 2 BPs required; are 2 BPs done?** |
| **6. Comp Plan** **Actions 1 & 2** | **YES** | 6.1 COMPLETE @ 2 STARS – parks & water conservation sust. goals6.2 COMPLETE @ 3 STARS -- City's permit application forms and staff reports reference the importance of compliance with the Comp Plan6.3 COMPLETE @ 3 STARS -- coordination via Met Council; Planning Commissions of Edina, Richfield, and Bloomington meet once/yr.; Regional Council of Mayors, 494 Coalition, MAC; city-public & private schools’ Joint Facilities Agreements6.5 UNDERWAY -- future energy reduction goals via RII  |
| 7. Density any one action | **YES** | 7.1 COMPLETE @ 3 STARS -- multi-family districts (by commercial, transit nodes) 23+ DU/A; medium-density residential 7-12 DU/A7.3 COMPLETE @ 2 STARS -- Mixed Use Districts include zero lot lines; mixed use & higher residential densities zoned as the predominant land uses in the City's commercial centers envisioned as walkable urban villages7.4 COMPLETE @ 2 STARS -- TIF, land write downs, city loans & grants |
| 8. Mixed Uses any two actions | **YES** | 8.1 COMPLETE @ 2 STARS -- As matter of policy, the City organizes stakeholder groups for all area plans and master plans8.3 COMPLETE @ 2 STARS -- PUDs allow mixed uses, result in R-C adjacency to be consistent with the Comp Plan8.5 COMPLETE @ 2 STARS – up to 25% mix allowed in R-C DT development8.6 COMPLETE @ 2 STARS -- Mixed Use Districts (located along significant commercial corridors) have hybrid of traditional & form-based zoning but do not rely on illustrative diagrams & streetscape requirements  |
| 9. Highway Development any one action | **YES** | 9.1 COMPLETE @ 2 STARS -- master plans for 2 highway corridors aimed at urban in character, pedestrian-friendly, economically sustainable and ultimately, more livable. City added the Mixed Use Districts in the Zoning Code specifically to implement these policies9.2 COMPLETE @ 1 STAR -- -Planning Commissions of Edina, Richfield, and Bloomington meet once per year to discuss border R-C issues.9.4 COMPLETE @ 1 STAR -- historic development patterns in the vicinity of freeway access ramps has been auto-oriented but comp plan & zoning call for mixed use and medium-to-high-density residential |
| 10. Conservation Development any one action | **YES** | 10.1 COMPLETE @ 1 STAR – 2008 NRI; virtually all of the natural areas and high quality open spaces are already protected in public parks10.3 COMPLETE @ 1 STAR -- extensive requirements for ID / protection during development of existing on-site trees via landscape plans |
|  **TRANSPORTATION: 2 BPs required; are 2 BPs done?**  |
| **11. Complete Green Streets** **1; & two additional actions** | **YES** | 11.1 COMPLETE @ 3 STARS --“Richfield seeks to enhance the safety, … so as to create a connected network of facilities accommodating each mode of travel…” part of City's 'Sweet Streets' program11.3 COMPLETE @ 3 STARS – several projects; one 4-2 lanes added bike lanes, sidewalks, multi-purpose trail, green boulevards and cut 1/3 off the non-complete streets budget11.4 COMPLETE @ 3 STARS -- CIP funds improvements consistent with comp plan, Bicycle Master Plan, SRTS plan; added a pedestrian bridge & underpass, trail N of freeway11.6 COMPLETE @ 3 STARS -- Restripe 12’ to 11,’ 4-to-3 lanes. Guiding Principles used in every transportation project: multi-modal design; connectivity & public realm; local economy; design for people; community character & identity; sustainable solutions; healthy & active lifestyles; unique location.  |
| **12. Mobility Options** **any two actions** | **YES** | 12.1 COMPLETE @ 3 STARS – 2018 Bicycle Friendly Bronze community; 2012 Bike Master Plan 12.4 COMPLETE @ 2 STARS -- bicycles at City Hall and at the Public Works Facility for City employee use12.5 COMPLETE @ 1 STAR --  City Modified Work Schedule policy for certain employees, and a short-term telecommuting policy |
| 13. Fleets any two actions | **YES** | 13.1 COMPLETE @ 2 STARs -- AVL technology on 85% of fleet; also used to track/economize salt application; 2 video conference suites13.2 COMPLETE @ 2 STARS – 2011 UofM study results in 3 hybrid vehicles to be purchased for Police & 2 additional PHEVs to be purchased in 2019; city purchased a dual-fuel mower 13.3 COMPLETE @ 1 STAR -- monthly monitoring/reporting on fuel usage/costs; training for more efficient driving; maintenance schedules; looking into natural gas conversion; EV charger for employees |
| 14. TOD / TDM any two actions | **YES** | 14.1 COMPLETE @ 1 STAR -- parking maximums14.2 COMPLETE @ 1 STAR – comp plan IDs transit routes, calls for mixed use development (incl. denser R) at key commercial/transit nodes.14.4 COMPLETE @ 2 STARS -- City may require a traffic management plan to mitigate traffic impacts shown in a study the city may require a developer to prepare |
|  **ENVIRON MGT: 4 BPs required; are 4 done?** |
| **15. Purchasing** **1; and one additional action** | **YES** | 15.1 COMPLETE @ 2 STARS– CC adopted sustainable purchasing policy in 2018, developed with advice from the Comm. Services Commission, implementation coordinated by staff green team: focus on source reduction, recycled content, energy & water savings, green building, bio-based products 15.5 COMPLETE @ 1 STAR -- 100% recycled asphalt in contractor specs is practice |
| **16. Trees** **any two actions** | **YES** | 16.1 COMPLETE @ 3 STARS -- 27 yrs; annual tree budget of $18/resident16.3 COMPLETE @ 2 STARS – min. annual budget for replacement trees (about 250); overall canopy about 25%; residential canopy about 70%16.4 COMPLETE @ 2 STARS -- trees on both sides of 90% of streets; 700 tree planted during 76th St. reconstruction project.16.6 COMPLETE @ 3 STARS -- City arborists provide inspections for public & private properties; 2009 EAB comprehensive prep/response plan (treating boulevard ash trees, oak trees at Augsburg Park)  |
| **17. Stormwater** **any one action** | **YES** | 17.3 COMPLETE @ 3 STARS -- runoff not to exceed existing conditions for 1/10/100-year storms; if impervious increase over 50% runoff rate must meet pre-development conditions; control facilities must remove 50% of phosphorous 17.4 COMPLETE @ 3 STARS -- variable fees to encourage maximal on-site treatment; case-by-case incentives; city maintains some stormwater BMPs & bills owners |
| 18. Parks & Trails any three actions | **YES** | 18.1 COMPLETE @ 3 STARS -- completed 4 important trail & park links: bike lane link; first regional bike/ped trail link-up; bike lane; vacating a road and creating a greenway space to connect 2 parks18.2 COMPLETE @ 3 STARS -- park system funded via 4 muni liquor stores (net profits about $450,000/yr.); goal that new developments have public/private open space; council may require park space dedication or payment in lieu18.3 COMPLETE @ 3 STARS -- all residents w/in ½ mile of park/protected green space: 14 areas per 1,000 residents18.5 COMPLETE @ 2 STARS -- Parks Plan calls for natural resource preservation & environmental sustainability: turf mgt., fishing, irrigation, WQ improvement project18.7 COMPLETE @ 2 STARS -- ice arena retrofitted with energy-saving equipment; rooftop solar panels with display on its Wood Lake Nature Center; grey water system for City Hall18.8 COMPLETE @ 2 STARS -- Annual Earth Day Celebration: volunteers remove buckthorn, restore native vegetation, plant trees |
| 19. Surface Water if state public water: 4; and one additional actionif no state water: any one action | **NO** | 19.3 COMPLETE @ 1 STAR – City annual report for the Wood Lake Nature Center19.6 COMPLETE @ 2 STARS -- City calibration of salters, salt-temperature calculation, alternative types of salt reduced salt application rates by more than 50% |
| 20. Water / Wastewater 1 & 2; and one additional | **NO** | 20.2 COMPLETE @ 1 STAR -- 2007-2010 7 motors at wells replaced with VFDs for total energy savings of 375,570 kWh; SCADA system; 3 high-efficiency compressors; water plant motion sensors, LEDs20.4 COMPLETE @ 3 STARS -- peak shaving program; recycle all the water used for backwashing and from the filter presses20.7 COMPLETE @ 1 STAR -- 3-tiered water conservation rate |
| 21. Septics any one action | **NO** |  |
| 22. Solid Waste 1 or 2; & one from 4-8 | **YES** | 22.1 COMPLETE @ 1 STAR -- Urban Wildland Half Marathon (Wood Lake Nature Center & Richfield Public Schools)-- 1,550 participants: all materials recyclable, reusable, compostable (cups, napkins), most of the food served at the event is organic22.2 COMPLETE @ 1 STAR -- Target provides in-store plastic bag/film/ wrap & MP3, cellphone, and ink responsible recycling; Wood Lake provides battery recycling, various events which facilitate the collection and re-use or recycling of old shoes and clothes 22.5 COMPLETE @ 1 STAR – hauler offers "blue bag" organics recycling services to their residential and commercial customers; 2 organic drop-sites for residents; licensed haulers are required to offer organics collection to businesses that generate significant quantities of organics22.7 COMPLETE @ 1 STAR --2018 launch of drop-off organics recycling program for residents: 2 sites; 560 households. Also 1 hauler offers "blue bag" organics recycling for residential & commercial customers   |
| 23. Local Air Quality any two actions | **YES** | 23.2 COMPLETE @ 1 STAR 23.3 COMPLETE @ 2 STARS – no tobacco use in City-owned parks |
|  **ECON & COMM DVLP: 3 BPs required; are 3 done?** |
| **24. Benchmarks & Involvement** **Actions 1 & 2** | **YES** | 24.1 COMPLETE @ 3 STARS -- Community Services Commission (inc. 2 youth members) serves as the GreenStep citizen advisory group; receives annual performance management report; also staff green team24.2 COMPLETE @ 2 STARS – CIP includes comp plan goals & later sections describes the consistency with these goals for every project to be funded; per. Mgt. report posted under 24.124.3 COMPLETE @ 3 STARS – report to city council and community annual on climate action plan – reference RII and racial equity. 24.4 COMPLETE @ 1 STAR -- “A Sustainable Home Improvement Guide” (100p) has sections on Energy Efficiency, Sustainable Supplies and Products, Sustainable Landscaping, and Water Conservation |
| **25. Green Businesses** **any two actions** | **YES** | 25.2 COMPLETE @ 1 STAR -- list of business development resources to assist in energy conservation and other green projects25.4 COMPLETE @ 1 STAR -- free City wood chips to residents from City (& some private contractor) trees removed/trimmed; City use of 100% recycled asphalt (contractors use some % also); Organic Lawns sources compost locally; food co-op composts & donates unsold food daily25.7 COMPLETE @ 1 STAR -- Chamber annual "buy local" campaign in December (45 businesses)  |
| 26. Renewable Energy any two actions | **YES** | 26.1 COMPLETE @ 1 STAR – residential solar shading prohibition in code; U of M study of code with recommendations on wind, solar panels, green roofs / roof gardens, and rain gardens26.5 COMPLETE @ 1 STAR -- 2018: 3rd-party installation of 6 solar arrays (3 20 kw & 3 40 kw) on liquor stores, Public Works, pool, ice arena--guaranteed savings or net-0 on energy costs. Wood Lake has 7-panel array (10 yrs in operation, supplies 10% of building's energy usage)26.6 COMPLETE @ 2 STARS -- 10 household PV panels (64 kW total); 119 Xcel customers subscribe to community solar gardens, totaling 688 kW |
| 27. Local Food any one action | **YES** | 27.2 COMPLETE @ 2 STARS -- permitted use in all zoning districts: Horticulture/community gardens as an accessory to an established institutional use (school, church, park)27.3 COMPLETE @ 2 STARS -- City sponsors/uses SHIP $ a community gardens program; 2 farmer’s markets (one in Veterans Memorial Park)-- biweekly Winter Market (over 25 local farmers and vendors)27.4 COMPLETE @ 1 STAR --Farmers Market Certified Minnesota Grown  |
| 28. Business Synergies action 2, 3 or 4 | **NO** |  |
| **29. Climate Adaptation** **action 1** | **YES** | 29.1 COMPLETE @ 3 STARS – annual spring city DPS meeting with Co.; shelters (churches, schools, private businesses) IDed, used in exercises involving Community Emergency Response Team: sustainable for 2 weeks with supplies, availability for additional supplies  |

**Richfield** – notable actions

* 2013 **Home Energy Squad Enhanced Program** (cost-share with residents), up to $200 in additional rebates from the City
* Richfield **Rediscovered Lot Sale Program** offers a $5,000 credit
* 2008 **public works facility** has motion sensors, automatic bath sink shut-offs; automatic flushing, low-flow toilets in bathrooms, energy use 30-35% better than standard construction, ground source heat pump, daylighting, 65% demolition materials and construction waste recycled, 10% more open space than required, almost 100% of stormwater retained on site via rain gardens, retention ponds, minimized building footprint, and permeable paving
* **Mixed Use Districts** include zero lot lines; mixed use & higher residential densities zoned as the predominant land uses in the City's commercial centers envisioned as walkable urban villages
* 2008 NRI; virtually all of the natural areas and **high quality open spaces are already protected** in public parks
* **Sweet Streets** - one 4-2 lanes added bike lanes, sidewalks, multi-purpose trail, green boulevards. **Guiding Principles used in every transportation project**: multi-modal design; connectivity & public realm; local economy; design for people; community character & identity; sustainable solutions; healthy & active lifestyles; unique location.
* **2018 Bicycle Friendly** Bronze community; 2012 **Bike Master Plan**
* 2018 adopted **sustainable purchasing policy** - focus on source reduction, recycled content, energy & water savings, green building, bio-based products
* **Trees** on both sides of 90% of streets; 700 tree planted during 76th St. reconstruction project.
* **Stormwater runoff** not to exceed existing conditions for 1/10/100-year storms; if impervious increase over 50% runoff rate must meet pre-development conditions; control facilities must remove 50% of phosphorous
* All **residents are within ½ mile of park/protected green space**: 14 areas per 1,000 residents
* City **calibration of salters**, salt-temperature calculation, alternative types of salt reduced salt application rates by more than 50%
* **Urban Wildland Half Marathon** (Wood Lake Nature Center & Richfield Public Schools)-- 1,550 participants: all materials recyclable, reusable, compostable (cups, napkins), most of the food served at the event is organic
* 2018 launch of drop-off **organics recycling** program for residents: 2 sites; 560 households. Also 1 hauler offers "blue bag" organics recycling for residential & commercial customers
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