

Dirt, Gravel, and Low-Volume Road QAB Scoring System

Updated August 5, 2021

The following numerical scoring system was used to rank all projects. 215 Possible Points awarded in nine sections:

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| 1. Environmental Impact - 150 points | 6. Project Phasing – 30 points |
| 2. Watershed Quality - 30 points | 7. Past Project Maintenance – 10 points |
| 3. Trout Streams – 10 points | 8. Matching Funds - 10 points |
| 4. Aquatic Organism Passage – 10 points | 9. History/Cooperation - 10 points |
| 5. Effectiveness of Solution – 30 points | |

1. Environmental Impact (150 points)

Road name	Municipality									
Assessment date	DGR or LVR									
<i>Road Drainage to stream</i>	None	0	Slight	5	Moderate	10	Severe	15		
<i>Wet Site conditions</i>	Dry	0	Saturated Ditches	3	Roadside Springs	5	Flow in ditches	7	Saturated Base	10
<i>Pavement Condition – LVR</i>	Good	0	Fair, some cracking	3	Poor, cracking, unevenness	5	Damaged	7	Severely Damaged	10
<i>OR Road Surface Condition – D&G</i>	Hard Gravel	0	Mixed Stone	3	Soft Stone	5	Mixed Stone/dirt/dust	7	Severe Dust	10
<i>Road Slope</i>	<5%	0	5-10%	5	>10%	10				
<i>Road Shape (cross-slope/crown)</i>	Good	0	Fair	3	Poor	5				
<i>Slope to Stream</i>	<30%	0	30-60%	3	>60%	5				
<i>Distance to Stream</i>	>100'	0	50'-100'	3	<50'/crossing	5				
<i>Outlets to Stream</i>	None	0	Near Stream	3	Directly to Stream	5				
<i>Outlet/Bleeder Stability</i>	Stable	0	Fair	1	Poor	3	Unstable	5		
<i>Road Ditch Stability</i>	Stable	0	Fair	3	Poor	7	Unstable	10		
<i>Road Bank Stability</i>	Stable	0	Fair	3	Poor	7	Unstable	10		
<i>Average Canopy Cover</i>	Moderate	0	Minimal	3	Heavy	5				
<i>Off-ROW Impacts Resolved</i>	None	0	Minimal	1	Some	3	Many	5		
<i>Stream bank erosion (from road impacts)</i>	None	0	Slight	3	Some	5	Severe	7	Bank failure	10
<i>Stream bed erosion (from road impacts)</i>	None	0	Slight	3	Some	5	Severe	7	Complete Instability	10
<i>Stream bed aggradation (from road impacts)</i>	None	0	Slight	3	Some	5	Severe	7	Channel blocked	10
<i>Frequency of flooding (from road impacts)</i>	Never	0	Rarely	5	Sometimes	7	Often	10		

Environmental Impact Score: _____

2. **Watershed Quality** (30 points) – Based on PA Code Water Quality Standards

HQ-CWF/EV/Drinking Water Source = 30 points
CWF = 24 points
TSF = 18 points
WWF = 12 points
Impaired watershed = add 6 points

Watershed Quality Score: _____

3. **Trout Streams** (10 points) – Based on PA Fish and Boat Commission data

Class A Trout Stream = 10 points
Natural Reproduction Trout Stream = 7 points
Trout Stocked Stream = 5 points
Non-trout streams = 0 points

Trout Score: _____

4. **Aquatic Organism Passage (from NAACC)** (10 points) – Ability of fish, aquatic insects, etc. to pass through road-stream crossings using North Atlantic Aquatic Connectivity Collaborative ranking

Severe barrier = 10	Minor barrier = 3 points
Significant barrier = 7	Insignificant barrier/No = 0 points
Moderate barrier = 5	barrier (including no stream crossing)

AOP Score: _____

5. **Effectiveness of Solution** (30 points)

3a. Degree to which project remediates impact to water body:

Slightly = 0 Moderately = 5 Highly = 10 Almost completely = 15

3b. Cost effectiveness: How much “environmental benefit per dollar” (benefit per cost)?

Low ben/\$ = 0 Moderate ben/\$ = 5 High ben/\$ = 10 Very high ben/\$ = 15

Effectiveness of Solution Score: _____

6. **Project Phasing** (30 points) – Is this project a continuation of a project funded in the last 2 years on the same section of road?

Yes = 30 points No = 0 points

Phasing Score: _____

7. **Past Project Maintenance** (10 points) – Are the applicant’s past DGLVR projects maintained?

Yes/no past projects = 10 points Somewhat = 5 points No = 0 points

Maintenance Score: _____

8. **Matching Funds** (10 points) – % of Applicant’s matching funds compared to the requested funds
i.e.: \$10,000 grant requested and in-kind is \$5,000 = 50% matching funds = 10 points

1-10% = 2.5 points

11-25% = 5 points

>25% = 10 points

Matching Funds Score: _____

9. **History/Cooperation Status** (10 points) – Applicant involvement in the process and their willingness to comply with the Program Standards.

First DGLVR Project = 10 points

Applicant has completed DGLVR project(s) with good history = 5 points

Non-cooperation = 0 points

History/Cooperation Score: _____

Bonus Points (7 points maximum) – applicants will receive 1 bonus point for each official/employee involved in the DGLVR Program (includes, but is not limited to: township supervisors, borough council members and managers, secretaries, roadmasters, and road crew members) who:

- are ESM Certified (excludes the first ESM Certified individual who makes the applicant eligible to apply)
- have attended an ESM training more frequently than the requirement of every 5 years.
- attend HCCD DGLVR outreach events within 1 calendar year of the application due date.

Bonus Points: _____

Total Application Score = _____

Dirt, Gravel, and Low-Volume Road QAB Scoring System Scoring Verification Signatures

Date: _____

_____ Russell Kyper (HCCD)

_____ James Steward (NRCS)

_____ Ryan Erdman (PFBC)

_____ Sherri Law (HCCD)