

PENNINGTON COUNTY



"PRIDE IN THE PAST; FAITH IN THE FUTURE"

PLANNING DEPARTMENT  
315 ST JOSEPH STREET SUITE 118  
RAPID CITY, SD 57701  
605-394-2186 • FAX 605-394-6016  
www.co.pennington.sd.us

SEPTIC PERMIT # 2010COSD0041

ON-SITE WASTEWATER SYSTEM INSPECTION VERIFICATION FORM

ID # 63567 Legal Description Common Area 1, Blk 1, Canyon Springs <sup>Preserve</sup> Section 23 Twn 2W Range 6E  
Property Owner Ian Vidianka Phone (605) 431-8852  
Address 8885 Nemo Road, Rapid City, SD 57701

PASSED INSPECTION

FAILED INSPECTION  
DO NOT COVER ANY PORTION OF THE WASTEWATER SYSTEM.  
REINSPECTION IS REQUIRED ONCE REPAIRS ARE MADE. CALL  
THE COUNTY INSPECTOR TO SCHEDULE A FINAL INSPECTION.

Comments: Agua safe 500 pre treatment tank, 1000 treatment tank, to a local trench system. 810 sf. of pipe and gravel 12" to 18" gravel used below pipe.

Installer (print name) Coltan Schrad  
Installer (signature) [Signature]  
Installation Date 9-15-10

Inspector (print name) Aaron Olson  
Inspector (signature) [Signature]  
Inspection Date 9-15-10

RECEIVED

JAN 12 2011

Rapid City Growth  
Management Department

Attachment # 1

**1" PVC Service Line**

**Project Description**

Friction Method                      Manning Formula  
 Solve For                                Discharge

**Input Data**

|                       |         |     |
|-----------------------|---------|-----|
| Pressure 1            | 141.00  | psi |
| Pressure 2            | 0.00    | psi |
| Elevation 1           | 3940.00 | ft  |
| Elevation 2           | 3850.00 | ft  |
| Length                | 430.00  | ft  |
| Roughness Coefficient | 0.011   |     |
| Diameter              | 1.00    | in  |

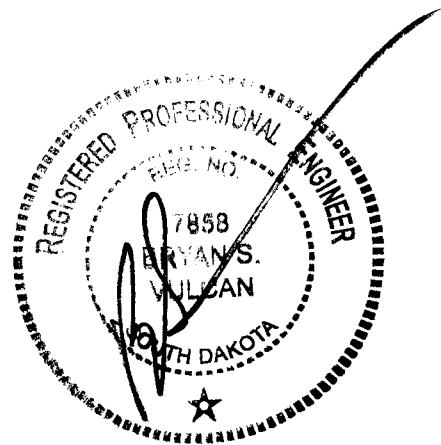
**Results**

|                   |         |                 |
|-------------------|---------|-----------------|
| Discharge         | 24.60   | gpm             |
| Headloss          | 415.23  | ft              |
| Energy Grade 1    | 4266.80 | ft              |
| Energy Grade 2    | 3851.57 | ft              |
| Hydraulic Grade 1 | 4265.23 | ft              |
| Hydraulic Grade 2 | 3850.00 | ft              |
| Flow Area         | 0.01    | ft <sup>2</sup> |
| Wetted Perimeter  | 0.26    | ft              |
| Velocity          | 10.05   | ft/s            |
| Velocity Head     | 1.57    | ft              |
| Friction Slope    | 0.96564 | ft/ft           |

**RECEIVED**

JAN 12 2011

Rapid City Growth  
 Management Department



*Attachment #2*