# LP PPBPS SYSTEM
# FOR WASTEWATER TREATMENT

| | |
|---|---|
| **Owner/Applicant:** | Courtland Homes |
| **Address:** | PO Box 3190<br>Mooresville, NC 28117 |
| **Phone:** | 704-201-6465 |
| **County:** | Iredell |
| **Location:** | The Point Lot 1366 |
| **Source of Wastewater Flow:** | 4 Bedroom Single Family Residence |
| **Estimated Gallons Per Day Flow:** | 480 |
| **System Flow:** | 31.57 |

## Design Specifications

| | |
|---|---|
| **Drainfield Size:** | 335 |
| **Loading Rate (gpd/ft.$^2$):** | 0.25 |
| **Depth of Gravel in Trench:** | NA (PPBPS ) |
| **Gravel Size:** | NA (PPBPS ) |
| **Trench Depth:** | 36 in. |
| **Trench Width:** | 36 in. |
| **Septic Tank Size:** | 1000 |
| **Pump Tank Size:** | 1000 |
| **Estimated Supply Line Length:** | 0 |
| **Supply Line Diameter:** | 2 in. SCH 40 PVC |
| **Supply Line Volume:** | 0.00 |
| **Dosing Volume:** | 185.72 |
| **Supply Manifold:** | N/A |
| **Supply Manifold Length:** | N/A |
| **Supply Manifold Volume:** | N/A |
| **Recommended Float Controls:** | SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents |
| **Recommended Control Panel:** | SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel. |
| **Pressure Head:** | 2 ft. |
| **Friction Head:** | 0.00 |
| **Elevation Head:** | 15.90 |
| **Total Dynamic Head:** | 20.59 |
| **Threaded Union:** | In Tank |
| **Gate Valves:** | 1 in Tank<br>1 per lateral |
| **Check Valves:** | In Tank |
| **Anti-Siphon Hole:** | NA |
| **Additional Comments:** | Soil suitability was performed by Rollans Soil & Environmental Services |

## The Point Lot 1366
## LP PPBPS

| | |
|---|---|
| **DESIGN FLOW (gpd):** | 480 |
| **SOIL APPLICATION RATE (gpd/ft.$^2$):** | 0.25 |
| **TOTAL AREA TRENCH BOTTOM:** | 1005 |
| **TOTAL LATERAL LENGTH:** | 335 |
| **NUMBER OF FIELDS:** | 1 |
| **LATERAL LENGTH REQUIRED PER FIELD:** | 320 |
| **SUPPLY LINE LENGTH:** | 0 |
| **TOTAL DYNAMIC HEAD:** | 20.59 |
| **MANIFOLD SIZE:** | N/A |
| **DOSING VOLUME:** | 185.72 |
| **PUMP TANK DRAW DOWN*:** | 8.8 |
| **SEPTIC TANK SIZE:** | 1000 |
| **PUMP TANK SIZE:** | 1000 |

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

# THE POINT LOT 1366

Project #: 01-1618

LAYOUT FOR 4 BEDROOM HOME

May 12, 2010

| LINE # | FLAG COLOR | BS | HI | FS | ELEVATION | FLAGGED LINE LENGTH | DESIGN LINE LENGTH |
|---|---|---|---|---|---|---|---|
| TBM | | 3.9 | | | 100.00 | | |
| INSTR. 1 | | | 103.90 | | | | |
| HOUSE CNR | | | | 7.30 | 96.60 | | |
| P. TANK | | | | 10.90 | 93.00 | | |
| 1 | PINK | | | 3.50 | 100.40 | 53 | 53 |
| 2 | BLUE | | | 3.80 | 100.10 | 75 | 75 |
| 3 | ORANGE | | | 4.30 | 99.60 | 113 | 113 |
| ***4*** | ***RED*** | | | ***4.90*** | ***99.00*** | ***60*** | ***60*** |
| ***5*** | ***RED*** | | | ***4.90*** | ***99.00*** | ***60*** | ***60*** |
| ***6*** | ***PINK*** | | | ***5.20*** | ***98.70*** | ***70*** | ***70*** |
| ***7*** | ***PINK*** | | | ***5.20*** | ***98.70*** | ***70*** | ***70*** |
| ***8*** | ***BLUE*** | | | ***5.70*** | ***98.20*** | ***75*** | ***75*** |
| 9 | ORANGE | | | 11.80 | 92.10 | 45 | 45 |
| 10 | PINK | | | 12.30 | 91.60 | 73 | 73 |
| | | | | | **Total** | **694** | **694** |

| | LINE LENGTH | LTAR GPD/FT2 | SYSTEM TYPE | SOIL LTAR GPD/FT2 | TRENCH SYSTEM | DISTRIBUTION |
|---|---|---|---|---|---|---|
| ****System*** | ***335*** | ***0.250*** | ***MOD.*** | ***0.250*** | ***PPBPS*** | ***LOW PRESSURE*** |
| Repair | 359 | 0.250 | MOD. | 0.250 | PPBPS | LOW PRESSURE |

Notes:
** TBM located top of ground at EIP at corner of lot (see site plan)
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

# LP PPBPS TAPSHEET -THE POINT LOT# 1366

## SYSTEM

| Line # | Color | Elevation | Length | Hole Size | Flow/hole | Trench Area | Number of Panels |
|---|---|---|---|---|---|---|---|
| *4* | *RED* | 99 | *60* | 0.156 | **0.41** | 180 | 14 |
| *5* | *RED* | 99 | *60* | 0.156 | **0.41** | 180 | 14 |
| *6* | *PINK* | 98.7 | *70* | 0.156 | **0.41** | 210 | 16 |
| *7* | *PINK* | 98.7 | *70* | 0.156 | **0.41** | 210 | 16 |
| *8* | *BLUE* | 98.2 | *75* | 0.156 | **0.41** | 225 | 17 |
| | | | | | | | 77 |
| | **total** | **feet =** | **335** | **gal/min =** | **31.57** | | |

| | |
|---|---|
| **Des. Flow** | **480** |
| **Pump Run=** | **5.88** |
| **soil LTAR** | **0.25** |
| **LTAR +5%** | **0.2625** |
| **LTAR with mod.** | **0.5** |
| **LTAR with mod.. + 5%** | **0.525** |

**.156 equals 5/32 inch hole**