





**ENVIRONMENT AGENCY**

Form WR – 38	Ref: st229839 rhymney valley nursery, st mellons bh2 (difrancesco) log 2151	Agency No.
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**BOREHOLE RECORD****B/Hole 2****A. SITE DETAILS**

<b>Borehole drilled for:</b>	Mr Mario Difrancesco/Mr Richard Lewis		
<b>Location:</b>	Stubbins Marketing, Rhymney Valley Nursery, St Mellons, Cardiff		
<b>N.G.R.:</b>	ST 229 839		
<b>Ground Level (if known):</b>	SURFACE		
<b>Drilling Company:</b>	W.B. & A.D. MORGAN LTD., PRESTEIGNE, POWYS. LD8 2UF		
<b>Date of Drilling:</b>	<b>Commenced:</b>	9/7/07	<b>Completed:</b> 19/7/07

**B. CONSTRUCTION DETAILS**

Borehole datum (if not ground level) GROUNDLEVEL  
(Point from which all measurements of depth are taken e.g. flange, edge of chamber, etc.)

Borehole drilled diameter.....	250	mm from	<u>Surface</u>	to	<u>149</u>	m/depth
		mm from		to		m/depth
		mm from		to		m/depth
Casing material: u.P.V.C diameter	150	mm from	<u>Surface</u>	to	<u>149</u>	m/depth
and type (e.g. plain steel, plastic slotted)						
Plain diameter	<u>150</u>	mm from	<u>Surface</u>	to	<u>4</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>4</u>	to	<u>44</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>44</u>	to	<u>50</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>50</u>	to	<u>56</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>56</u>	to	<u>62</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>62</u>	to	<u>68</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>68</u>	to	<u>74</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>74</u>	to	<u>80</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>80</u>	to	<u>86</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>86</u>	to	<u>92</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>92</u>	to	<u>98</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>98</u>	to	<u>104</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>104</u>	to	<u>110</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>110</u>	to	<u>116</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>116</u>	to	<u>122</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>122</u>	to	<u>128</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>128</u>	to	<u>140</u>	m/depth
Slotted diameter	<u>150</u>	mm from	<u>140</u>	to	<u>146</u>	m/depth
Plain diameter	<u>150</u>	mm from	<u>146</u>	to	<u>149</u>	m/depth

Grouting details: 4m to surface  
 Water struck at: 3m – 45 m (depth below datum – mbd)  
 Rest water level on completion: m (depth below datum – mbd)  
**Estimated blowout yield:** 3,000 – 4,000 Gallons per hour

**DOCUMENT 4****Haygrove Rhymney Valley, Began Rd, St Mellons, Cardiff CF3 6XL (Site acquired by the Applicant in 2013)****Trickle Abstraction Usage Records**

Year	2010	D/M	W/D	Year	2011	D/M	W/D	Year	2012	D/M	W/D	Year	2013	D/M	W/D
01/04/2010	0	30	0	01/04/2011	0	30	0	01/04/2012	0	30	0	01/04/2013	0	30	0
01/05/2010	0	31	0	01/05/2011	0	31	0	01/05/2012	0	31	0	01/05/2013	0	31	0
01/06/2010	0	30	0	01/06/2011	0	30	0	01/06/2012	0	30	0	01/06/2013	0	30	0
01/07/2010	0	31	0	01/07/2011	0	31	0	01/07/2012	0	31	0	01/07/2013	0	31	0
01/08/2010	0	31	0	01/08/2012	0	31	0	01/08/2012	0	31	0	01/08/2013	0	31	0
01/09/2010	0	30	0	01/09/2012	0	30	0	01/09/2012	0	30	0	01/09/2013	0	30	0
01/10/2010	0	31	0	01/10/2012	0	31	0	01/10/2012	0	31	0	01/10/2013	0	31	0
01/11/2010	0	30	0	01/11/2012	0	30	0	01/11/2012	0	30	0	01/11/2013	0	30	0
01/12/2010	0	31	0	01/12/2012	0	31	0	01/12/2012	0	31	0	01/12/2013	0	31	0
01/01/2011	0	31	0	01/01/2013	0	31	0	01/01/2013	0	31	0	01/01/2014	0	31	0
01/02/2011	0	28	0	01/02/2013	0	28	0	01/02/2013	0	28	0	01/02/2014	0	28	0
01/03/2011	0	31	0	01/03/2013	0	31	0	01/03/2013	0	31	0	01/03/2014	0	31	0
	0	365			0	365			0	365			0	365	

Water-saving equipment used

- Rainwater capture from 8ha glasshouse roof
- Water storage in reservoir and tanks
- Field topography mapping, and trickle irrigation anti-drain valves to prevent drain-downs due to topography
- Continuous moisture-monitoring probes
- Daily drainage percentage checks
- Trickle irrigation scheduling, using climate data
- Fertigation using dosatrones
- Covered growing, reducing ground-level absorption of rainwater