

## ANNEXURE-5

## CORE LOG SAMPLE CHEMICAL ANALYSIS AND SPECIFIC GRAVITY RESULTS, LODHVA BLOCK

| BH ID | FROM  | TO    | THICKNESS | LITHOLOGY                                                    | SAMPLE CODE | LAB REF. NO.   | SiO2(%) | Al2O3(%) | Fe2O3(%) | TiO2(%) | CaO(%) | MgO(%) | Na2O(%) | K2O(%) | P2O5 (%) | MnO(%) | SO3(%) | LOI   | TOTAL  | SP. GR. |
|-------|-------|-------|-----------|--------------------------------------------------------------|-------------|----------------|---------|----------|----------|---------|--------|--------|---------|--------|----------|--------|--------|-------|--------|---------|
| LBH-1 | 0.00  | 0.35  | 0.35      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-1 | 0.35  | 1.00  | 0.65      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/01    | C/D/25-26/1281 | 12.02   | 4.67     | 2.22     | 0.35    | 43.61  | 1.84   | 0.05    | 0.14   | 0.11     | 0.00   | 0.03   | 34.41 | 99.45  |         |
| LBH-1 | 1.00  | 1.70  | 0.70      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/02    | C/D/25-26/1282 | 12.14   | 3.53     | 2.22     | 0.31    | 43.81  | 1.40   | 0.94    | 0.11   | 0.10     | 0.00   | 0.02   | 34.50 | 99.08  |         |
| LBH-1 | 1.70  | 3.00  | 1.30      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/03    | C/D/25-26/1283 | 11.77   | 3.66     | 2.20     | 0.29    | 44.77  | 1.29   | 0.05    | 0.06   | 0.35     | 0.00   | 0.02   | 34.71 | 99.17  | 2.71    |
| LBH-1 | 3.00  | 4.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/04    | C/D/25-26/1284 | 13.96   | 3.40     | 2.21     | 0.22    | 45.48  | 1.19   | 0.05    | 0.06   | 0.19     | 0.00   | 0.02   | 32.69 | 99.47  |         |
| LBH-1 | 4.00  | 5.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/05    | C/D/25-26/1285 | 24.46   | 3.96     | 1.92     | 0.28    | 39.28  | 0.47   | 0.76    | 0.17   | 0.21     | 0.01   | 0.06   | 28.09 | 99.67  |         |
| LBH-1 | 5.00  | 6.40  | 1.40      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-1/06    | C/D/25-26/1286 | 20.45   | 4.40     | 2.26     | 0.65    | 40.34  | 1.40   | 0.04    | 0.09   | 0.22     | 0.00   | 0.02   | 29.26 | 99.13  |         |
| LBH-1 | 6.40  | 8.10  | 1.70      | Clay                                                         | LBH-1/07    | C/D/25-26/1287 | 36.78   | 13.33    | 6.09     | 0.83    | 18.22  | 5.12   | 0.51    | 2.12   | 0.12     | 0.03   | 0.00   | 16.74 | 99.89  |         |
| LBH-1 | 8.10  | 9.20  | 1.10      | Clay                                                         | LBH-1/08    | C/D/25-26/1288 | 46.28   | 13.82    | 3.41     | 1.14    | 14.35  | 4.47   | 0.45    | 0.51   | 0.09     | 0.00   | 0.02   | 14.60 | 99.14  |         |
| LBH-1 | 9.20  | 10.20 | 1.00      | Clay                                                         | LBH-1/09    | C/D/25-26/1289 | 52.57   | 17.11    | 5.21     | 0.62    | 8.34   | 3.82   | 0.05    | 0.39   | 0.04     | 0.00   | 0.01   | 11.43 | 99.59  |         |
| LBH-1 | 10.20 | 11.50 | 1.30      | Clay                                                         | LBH-1/10    | C/D/25-26/1290 | 50.87   | 15.55    | 4.46     | 0.45    | 12.37  | 3.31   | 0.06    | 0.31   | 0.04     | 0.00   | 0.01   | 11.85 | 99.28  |         |
| LBH-1 | 11.50 | 13.00 | 1.50      | Clay                                                         | LBH-1/11    | C/D/25-26/1291 | 52.92   | 15.64    | 4.83     | 0.63    | 10.04  | 3.42   | 0.07    | 0.32   | 0.07     | 0.00   | 0.01   | 11.77 | 99.72  |         |
| LBH-1 | 13.00 | 14.00 | 1.00      | Clay                                                         | LBH-1/12    | C/D/25-26/1292 | 51.81   | 14.65    | 3.66     | 0.54    | 13.58  | 3.22   | 0.08    | 0.29   | 0.10     | 0.00   | 0.01   | 11.12 | 99.06  |         |
| LBH-1 | 14.00 | 15.00 | 1.00      | Clay                                                         | LBH-1/13    | C/D/25-26/1293 | 50.83   | 13.38    | 4.25     | 0.62    | 13.57  | 3.56   | 0.00    | 1.94   | 0.22     | 0.05   | 0.00   | 10.78 | 99.20  |         |
| LBH-1 | 15.00 | 16.35 | 1.35      | Clay                                                         | LBH-1/14    | C/D/25-26/1294 | 52.78   | 13.95    | 4.33     | 0.63    | 12.80  | 3.16   | 1.48    | 2.01   | 0.23     | 0.05   | 0.00   | 7.94  | 99.36  |         |
| LBH-1 | 16.35 | 17.35 | 1.00      | Clay                                                         | LBH-1/15    | C/D/25-26/1295 | 50.39   | 12.98    | 3.36     | 0.46    | 14.81  | 3.12   | 0.06    | 0.28   | 0.07     | 0.00   | 0.01   | 13.83 | 99.37  |         |
| LBH-1 | 17.35 | 18.60 | 1.25      | Clay                                                         | LBH-1/16    | C/D/25-26/1296 | 50.70   | 9.55     | 4.04     | 0.61    | 15.41  | 3.67   | 1.26    | 1.93   | 0.19     | 0.05   | 0.00   | 12.16 | 99.57  |         |
| LBH-1 | 18.60 | 20.00 | 1.40      | Clay                                                         | LBH-1/17    | C/D/25-26/1297 | 47.99   | 12.37    | 3.35     | 0.44    | 16.59  | 2.93   | 0.65    | 0.29   | 0.12     | 0.00   | 0.02   | 14.65 | 99.40  |         |
| LBH-2 | 0.00  | 0.13  | 0.13      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-2 | 0.13  | 1.00  | 0.87      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-2/01    | C/D/25-26/1298 | 7.92    | 2.66     | 2.18     | 0.09    | 48.21  | 1.05   | 0.06    | 0.08   | 0.07     | 0.00   | 0.02   | 37.80 | 100.14 |         |
| LBH-2 | 1.00  | 2.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-2/02    | C/D/25-26/1299 | 8.01    | 2.80     | 2.18     | 0.11    | 47.65  | 1.02   | 0.06    | 0.08   | 0.06     | 0.00   | 0.02   | 37.63 | 99.62  |         |
| LBH-2 | 2.00  | 3.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-2/03    | C/D/25-26/1300 | 11.03   | 4.48     | 2.22     | 0.17    | 45.01  | 0.95   | 0.05    | 0.04   | 0.19     | 0.00   | 0.01   | 36.10 | 100.25 |         |
| LBH-2 | 3.00  | 3.80  | 0.80      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-2/04    | C/D/25-26/1301 | 11.68   | 3.19     | 2.21     | 0.14    | 45.38  | 0.86   | 0.05    | 0.05   | 0.12     | 0.00   | 0.02   | 35.94 | 99.64  |         |
| LBH-2 | 3.80  | 4.68  | 0.88      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-2/05    | C/D/25-26/1302 | 12.24   | 4.19     | 2.22     | 0.15    | 44.69  | 0.92   | 0.05    | 0.05   | 0.13     | 0.00   | 0.02   | 35.33 | 99.99  |         |
| LBH-2 | 4.68  | 5.52  | 0.84      | Marl                                                         | LBH-2/06    | C/D/25-26/1303 | 35.03   | 11.73    | 3.12     | 0.45    | 25.06  | 2.46   | 0.05    | 0.26   | 0.01     | 0.00   | 0.02   | 21.55 | 99.74  |         |
| LBH-2 | 5.52  | 7.22  | 1.70      | Clay                                                         | LBH-2/07    | C/D/25-26/1304 | 48.59   | 12.00    | 5.78     | 0.56    | 14.44  | 2.35   | 0.50    | 1.09   | 0.09     | 0.02   | 0.06   | 13.93 | 99.41  |         |
| LBH-2 | 7.22  | 8.00  | 0.78      | Clay                                                         | LBH-2/08    | C/D/25-26/1305 | 45.50   | 13.15    | 3.30     | 0.43    | 18.12  | 2.81   | 0.05    | 0.29   | 0.02     | 0.00   | 0.01   | 15.96 | 99.64  |         |
| LBH-2 | 8.00  | 9.00  | 1.00      | Clay                                                         | LBH-2/09    | C/D/25-26/1306 | 49.80   | 10.98    | 4.46     | 0.62    | 16.38  | 4.64   | 0.84    | 1.24   | 0.09     | 0.03   | 0.02   | 10.79 | 99.89  |         |
| LBH-2 | 9.00  | 10.50 | 1.50      | Clay                                                         | LBH-2/10    | C/D/25-26/1307 | 42.05   | 13.27    | 4.49     | 0.56    | 18.71  | 5.36   | 0.65    | 2.09   | 0.10     | 0.04   | 0.00   | 12.58 | 99.90  |         |
| LBH-2 | 10.50 | 12.00 | 1.50      | Clay                                                         | LBH-2/11    | C/D/25-26/1308 | 49.62   | 14.79    | 5.14     | 0.76    | 13.28  | 3.71   | 0.81    | 1.21   | 0.11     | 0.00   | 0.00   | 10.01 | 99.44  |         |
| LBH-2 | 12.00 | 13.00 | 1.00      | Clay                                                         | LBH-2/12    | C/D/25-26/1309 | 53.00   | 10.70    | 4.28     | 0.65    | 13.54  | 4.15   | 1.36    | 1.96   | 0.11     | 0.04   | 0.00   | 9.37  | 99.16  |         |
| LBH-2 | 13.00 | 14.50 | 1.50      | Clay                                                         | LBH-2/13    | C/D/25-26/1310 | 51.45   | 11.50    | 4.20     | 0.65    | 13.65  | 4.31   | 1.17    | 2.01   | 0.11     | 0.05   | 0.00   | 10.21 | 99.31  | 2.66    |
| LBH-2 | 14.50 | 15.40 | 0.90      | Marl                                                         | LBH-2/14    | C/D/25-26/1311 | 46.39   | 9.01     | 4.06     | 0.61    | 20.03  | 4.87   | 1.39    | 1.96   | 0.13     | 0.07   | 0.00   | 11.36 | 99.88  |         |
| LBH-2 | 15.40 | 16.64 | 1.24      | Marl                                                         | LBH-2/15    | C/D/25-26/1312 | 31.76   | 6.49     | 2.68     | 0.26    | 31.25  | 1.81   | 0.05    | 0.21   | 0.08     | 0.00   | 0.01   | 24.76 | 99.36  |         |
| LBH-2 | 16.64 | 17.72 | 1.08      | Clay                                                         | LBH-2/16    | C/D/25-26/1313 | 51.20   | 9.70     | 4.53     | 0.63    | 13.71  | 4.32   | 1.16    | 2.08   | 0.20     | 0.04   | 0.00   | 11.76 | 99.33  |         |
| LBH-2 | 17.72 | 19.15 | 1.43      | Marl                                                         | LBH-2/17    | C/D/25-26/1314 | 43.34   | 9.18     | 3.60     | 0.32    | 21.76  | 1.17   | 0.70    | 0.92   | 0.21     | 0.02   | 0.05   | 17.78 | 99.05  |         |
| LBH-2 | 19.15 | 20.00 | 0.85      | Clay                                                         | LBH-2/18    | C/D/25-26/1315 | 53.61   | 16.74    | 6.59     | 0.69    | 7.66   | 3.93   | 0.05    | 0.43   | 0.08     | 0.00   | 0.01   | 9.37  | 99.16  |         |
| LBH-3 | 0.00  | 0.30  | 0.30      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-3 | 0.30  | 1.50  | 1.20      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-3/01    | C/D/25-26/1316 | 17.70   | 4.28     | 2.35     | 0.16    | 40.92  | 1.40   | 0.05    | 0.11   | 0.05     | 0.00   | 0.02   | 32.43 | 99.47  |         |
| LBH-3 | 1.50  | 3.00  | 1.50      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-3/02    | C/D/25-26/1317 | 11.88   | 3.31     | 2.22     | 0.12    | 45.75  | 1.23   | 0.05    | 0.09   | 0.04     | 0.00   | 0.02   | 35.57 | 100.28 |         |
| LBH-3 | 3.00  | 4.50  | 1.50      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-3/03    | C/D/25-26/1318 | 16.24   | 4.71     | 2.29     | 0.15    | 41.14  | 1.64   | 0.05    | 0.12   | 0.01     | 0.00   | 0.01   | 33.26 | 99.62  |         |
| LBH-3 | 4.50  | 6.00  | 1.50      | Clay                                                         | LBH-3/04    | C/D/25-26/1319 | 39.49   | 12.33    | 5.45     | 0.64    | 18.84  | 3.54   | 0.75    | 2.14   | 0.09     | 0.03   | 0.00   | 16.22 | 99.52  |         |
| LBH-3 | 6.00  | 7.50  | 1.50      | Clay                                                         | LBH-3/05    | C/D/25-26/1320 | 48.88   | 12.87    | 7.46     | 0.66    | 12.32  | 2.73   | 0.62    | 1.35   | 0.11     | 0.01   | 0.06   | 12.90 | 99.97  |         |

| BH ID | FROM  | TO    | THICKNESS | LITHOLOGY                                                    | SAMPLE CODE | LAB REF. NO.   | SiO2(%) | Al2O3(%) | Fe2O3(%) | TiO2(%) | CaO(%) | MgO(%) | Na2O(%) | K2O(%) | P2O5 (%) | MnO(%) | SO3(%) | LOI   | TOTAL  | SP. GR. |
|-------|-------|-------|-----------|--------------------------------------------------------------|-------------|----------------|---------|----------|----------|---------|--------|--------|---------|--------|----------|--------|--------|-------|--------|---------|
| LBH-3 | 7.50  | 8.15  | 0.65      | Clay                                                         | LBH-3/06    | C/D/25-26/1321 | 42.76   | 9.80     | 5.86     | 0.51    | 17.96  | 1.42   | 0.64    | 1.15   | 0.11     | 0.01   | 0.05   | 18.93 | 99.20  |         |
| LBH-3 | 8.15  | 10.00 | 1.85      | Clay                                                         | LBH-3/07    | C/D/25-26/1322 | 53.44   | 17.65    | 5.68     | 0.75    | 6.95   | 4.27   | 0.07    | 0.41   | 0.06     | 0.00   | 0.01   | 10.05 | 99.34  |         |
| LBH-3 | 10.00 | 11.50 | 1.50      | Clay                                                         | LBH-3/08    | C/D/25-26/1323 | 50.94   | 12.11    | 4.85     | 0.81    | 13.34  | 3.73   | 0.77    | 1.19   | 0.12     | 0.02   | 0.05   | 11.27 | 99.20  |         |
| LBH-3 | 11.50 | 13.00 | 1.50      | Clay                                                         | LBH-3/09    | C/D/25-26/1324 | 50.28   | 14.05    | 4.70     | 0.49    | 12.84  | 4.62   | 0.09    | 0.35   | 0.06     | 0.00   | 0.01   | 12.02 | 99.51  |         |
| LBH-3 | 13.00 | 14.00 | 1.00      | Clay                                                         | LBH-3/10    | C/D/25-26/1325 | 53.22   | 16.75    | 4.23     | 0.69    | 8.37   | 5.26   | 0.07    | 0.43   | 0.06     | 0.00   | 0.01   | 10.45 | 99.54  |         |
| LBH-3 | 14.00 | 15.00 | 1.00      | Clay                                                         | LBH-3/11    | C/D/25-26/1326 | 48.27   | 11.35    | 4.47     | 0.66    | 14.55  | 4.01   | 2.12    | 1.93   | 0.19     | 0.05   | 0.00   | 11.60 | 99.20  |         |
| LBH-4 | 0.00  | 0.50  | 0.50      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-4 | 0.50  | 1.82  | 1.32      | Marl                                                         | LBH-4/01    | C/D/25-26/1327 | 33.24   | 6.08     | 2.87     | 0.33    | 29.20  | 1.16   | 0.79    | 0.57   | 0.10     | 0.01   | 0.06   | 24.95 | 99.36  |         |
| LBH-4 | 1.82  | 2.33  | 0.51      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/02    | C/D/25-26/1328 | 12.51   | 3.50     | 2.24     | 0.14    | 45.51  | 1.40   | 0.06    | 0.07   | 0.31     | 0.00   | 0.02   | 33.66 | 99.42  |         |
| LBH-4 | 2.33  | 2.64  | 0.31      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/03    | C/D/25-26/1329 | 19.38   | 3.01     | 2.16     | 0.21    | 41.55  | 0.66   | 0.85    | 0.31   | 0.28     | 0.03   | 0.06   | 30.64 | 99.14  |         |
| LBH-4 | 2.64  | 3.30  | 0.66      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/04    | C/D/25-26/1330 | 20.11   | 3.58     | 2.19     | 0.23    | 40.65  | 0.64   | 0.88    | 0.30   | 0.30     | 0.02   | 0.06   | 30.57 | 99.53  |         |
| LBH-4 | 3.30  | 3.70  | 0.40      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/05    | C/D/25-26/1331 | 13.98   | 4.27     | 2.28     | 0.17    | 43.60  | 1.39   | 0.05    | 0.08   | 0.18     | 0.00   | 0.02   | 34.16 | 100.18 |         |
| LBH-4 | 3.70  | 4.60  | 0.90      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/06    | C/D/25-26/1332 | 13.26   | 4.53     | 2.28     | 0.18    | 43.52  | 1.37   | 0.06    | 0.07   | 0.12     | 0.00   | 0.01   | 34.73 | 100.13 |         |
| LBH-4 | 4.60  | 5.24  | 0.64      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/07    | C/D/25-26/1333 | 19.56   | 5.85     | 2.39     | 0.25    | 39.60  | 1.69   | 0.05    | 0.09   | 0.16     | 0.00   | 0.01   | 30.54 | 100.19 |         |
| LBH-4 | 5.24  | 6.70  | 1.46      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/08    | C/D/25-26/1334 | 15.73   | 3.36     | 2.27     | 0.14    | 43.86  | 1.17   | 0.05    | 0.07   | 0.10     | 0.00   | 0.01   | 32.32 | 99.08  |         |
| LBH-4 | 6.70  | 8.00  | 1.30      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/09    | C/D/25-26/1335 | 27.70   | 6.58     | 2.47     | 0.29    | 34.61  | 1.83   | 0.05    | 0.09   | 0.05     | 0.00   | 0.01   | 25.59 | 99.27  |         |
| LBH-4 | 8.00  | 8.56  | 0.56      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/10    | C/D/25-26/1336 | 26.63   | 5.71     | 2.44     | 0.28    | 36.18  | 1.72   | 0.05    | 0.08   | 0.17     | 0.00   | 0.01   | 25.91 | 99.18  |         |
| LBH-4 | 8.56  | 9.82  | 1.26      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-4/11    | C/D/25-26/1337 | 21.61   | 3.71     | 2.62     | 0.23    | 39.32  | 0.53   | 0.89    | 0.25   | 0.31     | 0.01   | 0.05   | 29.56 | 99.09  |         |
| LBH-4 | 9.82  | 11.00 | 1.18      | Marl                                                         | LBH-4/12    | C/D/25-26/1338 | 36.01   | 6.69     | 3.18     | 0.37    | 27.86  | 0.99   | 0.73    | 0.61   | 0.14     | 0.02   | 0.05   | 22.62 | 99.27  |         |
| LBH-4 | 11.00 | 11.50 | 0.50      | Marl                                                         | LBH-4/13    | C/D/25-26/1339 | 33.44   | 7.03     | 3.44     | 0.53    | 28.86  | 3.05   | 0.48    | 1.16   | 0.14     | 0.03   | 0.00   | 20.93 | 99.09  |         |
| LBH-4 | 11.50 | 13.00 | 1.50      | Clay                                                         | LBH-4/14    | C/D/25-26/1340 | 46.72   | 9.69     | 3.97     | 0.46    | 19.17  | 1.47   | 0.66    | 0.92   | 0.10     | 0.02   | 0.05   | 15.83 | 99.06  |         |
| LBH-5 | 0.00  | 0.26  | 0.26      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-5 | 0.26  | 1.28  | 1.02      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/01    | C/D/25-26/1341 | 14.91   | 5.17     | 2.29     | 0.43    | 40.63  | 2.32   | 0.05    | 0.17   | 0.04     | 0.00   | 0.02   | 33.42 | 99.45  |         |
| LBH-5 | 1.28  | 1.70  | 0.42      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/02    | C/D/25-26/1342 | 11.83   | 3.78     | 2.23     | 0.28    | 44.73  | 1.31   | 0.05    | 0.06   | 0.24     | 0.00   | 0.02   | 34.97 | 99.50  |         |
| LBH-5 | 1.70  | 2.58  | 0.88      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/03    | C/D/25-26/1343 | 13.85   | 3.70     | 1.65     | 0.62    | 43.84  | 1.39   | 0.12    | 0.23   | 0.16     | 0.05   | 0.04   | 33.43 | 99.08  |         |
| LBH-5 | 2.58  | 3.00  | 0.42      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/04    | C/D/25-26/1344 | 11.89   | 2.69     | 2.21     | 0.92    | 44.83  | 1.12   | 0.05    | 0.06   | 0.08     | 0.00   | 0.02   | 35.24 | 99.11  |         |
| LBH-5 | 3.00  | 4.44  | 1.44      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/05    | C/D/25-26/1345 | 14.18   | 4.35     | 2.27     | 0.34    | 42.65  | 1.34   | 0.05    | 0.06   | 0.12     | 0.00   | 0.02   | 34.22 | 99.60  | 2.69    |
| LBH-5 | 4.44  | 5.58  | 1.14      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-5/06    | C/D/25-26/1346 | 12.12   | 2.21     | 2.18     | 0.20    | 47.08  | 0.93   | 0.05    | 0.06   | 0.20     | 0.00   | 0.02   | 34.66 | 99.71  |         |
| LBH-5 | 5.58  | 7.00  | 1.42      | Marl                                                         | LBH-5/07    | C/D/25-26/1347 | 36.51   | 10.13    | 2.86     | 0.88    | 25.38  | 3.03   | 0.04    | 0.31   | 0.09     | 0.00   | 0.02   | 20.05 | 99.30  |         |
| LBH-5 | 7.00  | 8.00  | 1.00      | Clay                                                         | LBH-5/08    | C/D/25-26/1348 | 44.03   | 12.30    | 3.12     | 1.05    | 16.85  | 4.06   | 0.05    | 0.43   | 0.05     | 0.00   | 0.02   | 18.14 | 100.10 |         |
| LBH-5 | 8.00  | 9.70  | 1.70      | Clay                                                         | LBH-5/09    | C/D/25-26/1349 | 49.76   | 11.27    | 5.77     | 0.80    | 11.26  | 4.04   | 0.99    | 1.49   | 0.13     | 0.04   | 0.00   | 13.83 | 99.38  |         |
| LBH-5 | 9.70  | 11.40 | 1.70      | Clay                                                         | LBH-5/10    | C/D/25-26/1350 | 48.16   | 16.02    | 7.83     | 0.85    | 8.98   | 3.96   | 0.54    | 1.57   | 0.14     | 0.02   | 0.05   | 11.50 | 99.62  |         |
| LBH-5 | 11.40 | 12.00 | 0.60      | Marl                                                         | LBH-5/11    | C/D/25-26/1351 | 28.23   | 8.56     | 4.25     | 0.58    | 27.93  | 4.61   | 0.00    | 1.93   | 0.12     | 0.04   | 0.00   | 23.24 | 99.49  |         |
| LBH-5 | 12.00 | 13.35 | 1.35      | Marl                                                         | LBH-5/12    | C/D/25-26/1352 | 21.72   | 8.20     | 3.70     | 0.51    | 33.39  | 4.61   | 0.65    | 1.94   | 0.10     | 0.04   | 0.04   | 25.02 | 99.92  |         |
| LBH-5 | 13.35 | 15.00 | 1.65      | Clay                                                         | LBH-5/13    | C/D/25-26/1353 | 40.97   | 12.73    | 3.37     | 0.48    | 17.90  | 5.89   | 0.09    | 0.37   | 0.03     | 0.00   | 0.08   | 17.40 | 99.31  |         |
| LBH-6 | 0.00  | 0.26  | 0.26      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-6 | 0.26  | 1.00  | 0.74      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-6/01    | C/D/25-26/1354 | 8.07    | 2.81     | 2.20     | 0.12    | 46.86  | 2.28   | 0.07    | 0.08   | 0.04     | 0.00   | 0.05   | 37.62 | 100.20 |         |
| LBH-6 | 1.00  | 2.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-6/02    | C/D/25-26/1355 | 12.01   | 3.03     | 2.21     | 0.14    | 46.21  | 1.70   | 0.06    | 0.09   | 0.03     | 0.00   | 0.02   | 33.88 | 99.38  |         |
| LBH-6 | 2.00  | 3.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-6/03    | C/D/25-26/1356 | 18.71   | 2.08     | 1.58     | 0.19    | 42.40  | 1.79   | 0.95    | 0.55   | 0.09     | 0.01   | 0.06   | 30.63 | 99.04  |         |
| LBH-6 | 3.00  | 4.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-6/04    | C/D/25-26/1357 | 27.82   | 3.76     | 2.05     | 0.26    | 36.05  | 1.02   | 0.86    | 0.73   | 0.08     | 0.01   | 0.06   | 26.38 | 99.08  |         |

| BH ID | FROM | TO    | THICKNESS | LITHOLOGY                                                    | SAMPLE CODE | LAB REF. NO.   | SiO2(%) | Al2O3(%) | Fe2O3(%) | TiO2(%) | CaO(%) | MgO(%) | Na2O(%) | K2O(%) | P2O5 (%) | MnO(%) | SO3(%) | LOI   | TOTAL  | SP. GR. |
|-------|------|-------|-----------|--------------------------------------------------------------|-------------|----------------|---------|----------|----------|---------|--------|--------|---------|--------|----------|--------|--------|-------|--------|---------|
| LBH-6 | 4.00 | 5.50  | 1.50      | Marl                                                         | LBH-6/05    | C/D/25-26/1358 | 34.26   | 8.15     | 2.71     | 0.32    | 28.06  | 3.26   | 0.06    | 0.20   | 0.02     | 0.00   | 0.02   | 22.20 | 99.26  | 2.72    |
| LBH-6 | 5.50 | 7.00  | 1.50      | Marl                                                         | LBH-6/06    | C/D/25-26/1359 | 36.06   | 10.02    | 2.85     | 0.36    | 24.96  | 3.79   | 0.07    | 0.24   | 0.02     | 0.00   | 0.02   | 22.07 | 100.46 |         |
| LBH-6 | 7.00 | 8.50  | 1.50      | Clay                                                         | LBH-6/07    | C/D/25-26/1360 | 47.91   | 16.36    | 4.04     | 0.64    | 11.04  | 5.32   | 0.10    | 0.39   | 0.03     | 0.00   | 0.02   | 13.33 | 99.18  |         |
| LBH-6 | 8.50 | 9.50  | 1.00      | Clay                                                         | LBH-6/08    | C/D/25-26/1361 | 51.84   | 15.91    | 4.59     | 0.69    | 8.24   | 5.45   | 0.09    | 0.44   | 0.05     | 0.00   | 0.02   | 12.48 | 99.80  |         |
| LBH-6 | 9.50 | 10.00 | 0.50      | Clay                                                         | LBH-6/09    | C/D/25-26/1362 | 49.73   | 16.30    | 4.16     | 0.60    | 11.43  | 5.05   | 0.09    | 0.43   | 0.03     | 0.00   | 0.02   | 11.28 | 99.12  |         |
| LBH-7 | 0.00 | 0.15  | 0.15      | topsoil                                                      |             |                |         |          |          |         |        |        |         |        |          |        |        |       |        |         |
| LBH-7 | 0.15 | 0.72  | 0.57      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-7/01    | C/D/25-26/1363 | 7.27    | 3.56     | 2.18     | 0.13    | 48.32  | 1.44   | 0.06    | 0.09   | 0.02     | 0.00   | 0.02   | 36.93 | 100.02 |         |
| LBH-7 | 0.72 | 2.60  | 1.88      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-7/02    | C/D/25-26/1364 | 13.47   | 3.90     | 2.21     | 0.15    | 43.58  | 1.58   | 0.06    | 0.09   | 0.07     | 0.00   | 0.02   | 35.20 | 100.33 |         |
| LBH-7 | 2.60 | 4.00  | 1.40      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-7/03    | C/D/25-26/1365 | 17.52   | 4.56     | 2.27     | 0.15    | 41.56  | 1.74   | 0.06    | 0.11   | 0.05     | 0.00   | 0.02   | 31.10 | 99.14  |         |
| LBH-7 | 4.00 | 5.00  | 1.00      | Limestone [Cement Grade<br>(blendable/beneficial, portland)] | LBH-7/04    | C/D/25-26/1366 | 25.02   | 6.92     | 2.37     | 0.22    | 34.05  | 2.36   | 0.05    | 0.15   | 0.00     | 0.00   | 0.01   | 27.95 | 99.10  |         |
| LBH-7 | 5.00 | 6.00  | 1.00      | Marl                                                         | LBH-7/05    | C/D/25-26/1367 | 26.72   | 8.98     | 2.57     | 0.31    | 31.68  | 3.00   | 0.05    | 0.17   | 0.00     | 0.00   | 0.02   | 25.81 | 99.31  |         |
| LBH-7 | 6.00 | 7.40  | 1.40      | Marl                                                         | LBH-7/06    | C/D/25-26/1368 | 33.31   | 6.18     | 2.66     | 0.30    | 29.31  | 3.28   | 0.07    | 0.22   | 0.01     | 0.00   | 0.01   | 24.30 | 99.65  |         |
| LBH-7 | 7.40 | 8.50  | 1.10      | Clay                                                         | LBH-7/07    | C/D/25-26/1369 | 50.17   | 13.84    | 3.59     | 0.54    | 15.69  | 4.59   | 0.09    | 0.36   | 0.03     | 0.00   | 0.01   | 10.18 | 99.09  |         |
| LBH-7 | 8.50 | 9.70  | 1.20      | Marl                                                         | LBH-7/08    | C/D/25-26/1370 | 38.36   | 11.50    | 3.17     | 0.43    | 21.79  | 3.81   | 0.08    | 0.34   | 0.02     | 0.00   | 0.01   | 19.76 | 99.27  |         |
| LBH-7 | 9.70 | 10.00 | 0.30      | Clay                                                         | LBH-7/09    | C/D/25-26/1371 | 45.94   | 17.71    | 4.26     | 0.65    | 11.29  | 4.49   | 0.81    | 0.46   | 0.04     | 0.00   | 0.02   | 13.96 | 99.63  |         |