

**MUNICIPAL TESTING LABORATORY, INC.**

102 NEW SOUTH ROAD, HICKSVILLE NEW YORK, 11801 (516) 938-7120;FAX (516) 938-5107

www.municipaltestinglab.com

email: municipal@municipaltestinglab.com

A FULL SERVICE LABORATORY AND ENGINEERING CONSULTANT; STEEL, CONCRETE, SOILS, ASPHALT &amp; ALL BUILDING MATERIALS

**LABORATORY REPORT**CLIENT: LIRODATE-PLACED: 05/30/02PROJECT : W.T.C. PavingDATE-CORED: 06/04/02CALCULATIONS BY: M.MathewTESTED: 06/06/02REPORT No. 9366SPEC: NYCDDC

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**BULK SPECIFIC GRAVITY OF COMPACTED MIXTURE****MAT CORES ASTM D-2726**

| Thick-<br>ness (in) | CORE<br>NO. | WEIGHT - GRAMS |             |                 | VOLUME<br>CU.CM.<br>(E1-E)=F | SPECIFIC<br>GRAVITY Gmb<br>D/F=G |
|---------------------|-------------|----------------|-------------|-----------------|------------------------------|----------------------------------|
|                     |             | IN<br>AIR      | IN<br>WATER | SAT-SUR.<br>DRY |                              |                                  |
|                     |             | D              | E           | E1              |                              |                                  |
| 2.60                | GR1         | 1095.5         | 625.9       | 1103.5          | 477.6                        | 2.294                            |
| 2.40                | GR2         | 1002.3         | 591.0       | 1004.7          | 413.7                        | 2.423                            |
| 2.40                | GR3         | 1084.8         | 651.2       | 1085.9          | 434.7                        | 2.496                            |
| 2.40                | GR4         | 962.4          | 572.3       | 963.7           | 391.4                        | 2.459                            |
| 2.10                | GR5         | 895.1          | 531.5       | 896.5           | 365                          | 2.452                            |
| 3.14                | GR6         | 1316.5         | 782.4       | 1318            | 535.6                        | 2.458                            |
|                     |             |                |             |                 | 0                            | NA                               |
|                     |             |                |             |                 | 0                            | NA                               |

**PAVEMENT DENSITY CALCULATIONS**

| CORE<br>NO. | CORE BULK SPEC.<br>GRAVITY<br>ASTM D-2726<br>Gmb | SPECIFIC GRAVITY<br>DESIGN MIX VALUE<br>(PLANT SUPPLIED)<br>Gmm | PERCENT<br>COMPACTION<br>(Gmb/Gmm)<br>x100 |
|-------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
|             |                                                  |                                                                 |                                            |
| GR1         | 2.294                                            | 2.582                                                           | 88.8                                       |
| GR2         | 2.423                                            | 2.582                                                           | 93.8                                       |
| GR3         | 2.496                                            | 2.582                                                           | 96.7                                       |
| GR4         | 2.459                                            | 2.582                                                           | 95.2                                       |
| GR5         | 2.452                                            | 2.582                                                           | 95.0                                       |
| GR6         | 2.458                                            | 2.582                                                           | 95.2                                       |
| 0           | NA                                               | 2.582                                                           | NA                                         |
| 0           | NA                                               | 2.582                                                           | NA                                         |

ASPHALT CONTENT 5.30% GR5

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**LABORATORY REPORT**

CLIENT: LIRO DATE-PLACED: 05/31/02  
 PROJECT: W.T.C. Paving DATE-CORED: 06/04/02  
 CALCULATIONS BY: M.Mathew TESTED: 06/06/02  
 REPORT No. 9366 SPEC: NYCDDC

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**BULK SPECIFIC GRAVITY OF COMPACTED MIXTURE****MAT CORES ASTM D-2726**

| Thick-<br>ness(in.) | CORE<br>NO. | WEIGHT - GRAMS |             |                 | VOLUME<br>CU.CM.<br>(E1-E)=F | SPECIFIC<br>GRAVITY Gmb<br>D/F=G |
|---------------------|-------------|----------------|-------------|-----------------|------------------------------|----------------------------------|
|                     |             | IN<br>AIR      | IN<br>WATER | SAT-SUR.<br>DRY |                              |                                  |
|                     |             | D              | E           | E1              |                              |                                  |
| 1.22                | B1          | 548.1          | 311.2       | 551.7           | 240.5                        | 2.279                            |
| 1.57                | B2          | 726.5          | 421.3       | 729.1           | 307.8                        | 2.360                            |
| 2.00                | B3          | 952.2          | 569.8       | 955.0           | 385.2                        | 2.472                            |
| 1.20                | B4          | 598.4          | 357.4       | 599.7           | 242.3                        | 2.470                            |
| 2.00                | B5          | 820.7          | 489.8       | 824.2           | 334.4                        | 2.454                            |
| 2.00                | B6          | 851.8          | 498.5       | 856.9           | 358.4                        | 2.377                            |
|                     |             |                |             |                 | 0                            | NA                               |
|                     |             |                |             |                 | 0                            | NA                               |

**PAVEMENT DENSITY CALCULATIONS**

| CORE<br>NO. | CORE BULK SPEC.<br>GRAVITY<br>ASTM D-2726<br>Gmb | SPECIFIC GRAVITY<br>DESIGN MIX VALUE<br>(PLANT SUPPLIED)<br>Gmm | PERCENT<br>COMPACTION<br>(Gmb/Gmm)<br>x100 |
|-------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
|             |                                                  |                                                                 |                                            |
| B1          | 2.279                                            | 2.583                                                           | 88.2                                       |
| B2          | 2.360                                            | 2.583                                                           | 91.4                                       |
| B3          | 2.472                                            | 2.583                                                           | 95.7                                       |
| B4          | 2.470                                            | 2.583                                                           | 95.6                                       |
| B5          | 2.454                                            | 2.583                                                           | 95.0                                       |
| B6          | 2.377                                            | 2.583                                                           | 92.0                                       |
| 0           | NA                                               | 2.583                                                           | NA                                         |
| 0           | NA                                               | 2.583                                                           | NA                                         |

ASPHALT CONTENT =5.35 % CORE # B4

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**LABORATORY REPORT**

CLIENT: LIRO

DATE-PLACED: 05/06/02

PROJECT: W.T.C. Paving

DATE-CORED: 06/05/02

CALCULATIONS BY: M.Mathew

TESTED: 06/07/02

REPORT No. 9366

SPEC: NYCDDC

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**BULK SPECIFIC GRAVITY OF COMPACTED MIXTURE**

| Thick-<br>ness(in.) | CORE<br>NO. | WEIGHT - GRAMS |             |                 | VOLUME<br>CU.CM.<br>(E1-E)=F | SPECIFIC<br>GRAVITY Gmb<br>D/F=G |
|---------------------|-------------|----------------|-------------|-----------------|------------------------------|----------------------------------|
|                     |             | IN<br>AIR      | IN<br>WATER | SAT-SUR.<br>DRY |                              |                                  |
|                     |             | D              | E           | E1              |                              |                                  |
| 1.14                | H1R         | 451.3          | 266.4       | 455.3           | 188.9                        | 2.389                            |
| 1.65                | H2R         | 782.9          | 465.7       | 784.6           | 318.9                        | 2.455                            |
| 1.30                | H3R         | 535.1          | 313.1       | 539.1           | 226.0                        | 2.368                            |
| 2.72                | H4R         | 1327.4         | 803.4       | 1329.1          | 525.7                        | 2.525                            |
| 1.65                | H5R         | 765.5          | 464         | 768             | 304                          | 2.518                            |
| 1.50                | H6R         | 629.9          | 370.6       | 633.8           | 263.2                        | 2.393                            |
|                     |             |                |             |                 | 0                            | NA                               |
|                     |             |                |             |                 | 0                            | NA                               |

**PAVEMENT DENSITY CALCULATIONS**

| CORE<br>NO. | CORE BULK SPEC.<br>GRAVITY<br>ASTM D-2726 | SPECIFIC GRAVITY<br>DESIGN MIX VALUE<br>(PLANT SUPPLIED) | PERCENT<br>COMPACTION<br>(Gmb/Gmm) |
|-------------|-------------------------------------------|----------------------------------------------------------|------------------------------------|
|             | Gmb                                       | Gmm                                                      | x100                               |
| H1R         | 2.389                                     | 2.583                                                    | 92.5                               |
| H2R         | 2.455                                     | 2.583                                                    | 95.0                               |
| H3R         | 2.368                                     | 2.583                                                    | 91.7                               |
| H4R         | 2.525                                     | 2.583                                                    | 97.8                               |
| H5R         | 2.518                                     | 2.583                                                    | 97.5                               |
| H6R         | 2.393                                     | 2.583                                                    | 92.6                               |
| 0           | NA                                        | 2.583                                                    | NA                                 |
| 0           | NA                                        | 2.583                                                    | NA                                 |