

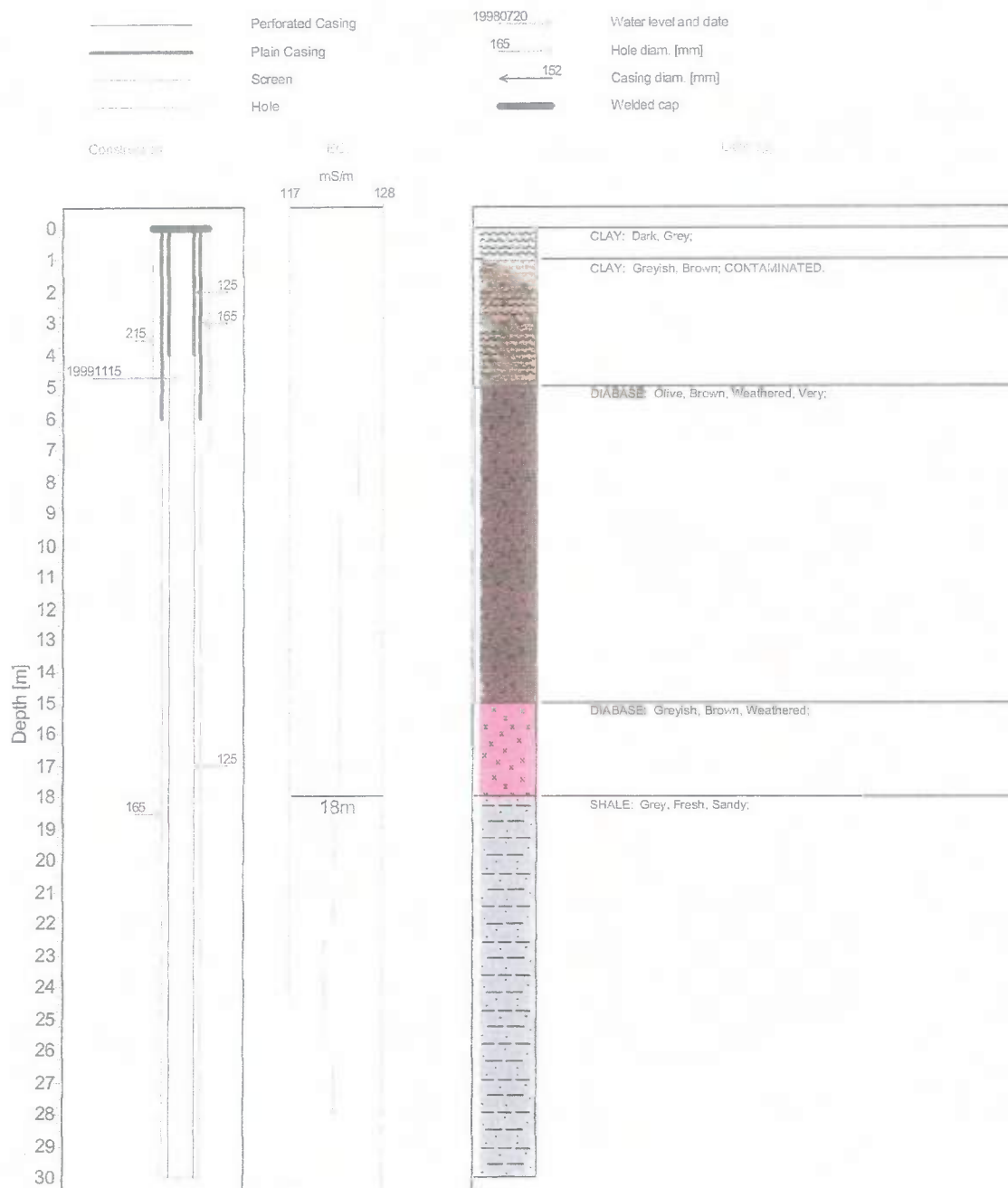
# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01047 Number: IVB-D47 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D47

|                                        |                  |                                      |                     |
|----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80738.290               | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 30.00    |
| X Coord. [m]: 2949374.71               | Alt. No. 2: DR 4 | Site status: In use                  | Collar h. [m]: 0.20 |
| Altitude [m]: 1492.52                  |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                  | Use applic.: Industrial - industrial | Diam. [mm]: 110     |
| Coord. meth.: Levelled or surveyed     |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Log



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01048 Number: IVB-D48 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D48

Region Type:

Region Desc.: DIRECT REDUCTION PLANT AREA & OHP

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80483.86                 | Reg./BB.: SM05 | Topo-set.: Flat surface, plain       | Depth [m]:    | 42.00 |
| X Coord. [m]: | 2949388.82999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.15  |
| Altitude [m]: | 1491.58                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 110   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 4.00                | 215           | 19990422    |         |
| JMA            | 4.00             | 42.00               | 165           | 19990422    |         |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
|                 | 19990422   | 0.00            | 4.00     | 165        | Steel    | 3            |                       |        |       |             |             |
|                 | 19990422   | 0.00            | 42.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER: | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type    | Info source    | Comment |
|----------|------------------|----------|-------------|--------------|-----------------|----------------|---------|
| JMA      | 3.00             | 6.00     | 0.55        | Estimated    |                 | Report or file |         |
| JMA      | 6.00             | 12.00    | 0.08        | Estimated    | Weathered basin | Report or file |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 3.00     | CLAY           | Grey           | Dark      |         |                 |           |
|          | 3.00         | 6.00     | CLAY           | Brown          | Greyish   |         |                 |           |
|          | 6.00         | 12.00    | DIABASE        | Brown          | Yellowish |         | Weathered       |           |
|          | 12.00        | 22.00    | DIABASE        | Grey           | Brownish  |         | Weathered       |           |
|          | 22.00        | 26.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
|          | 26.00        | 42.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment  |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|----------|
|              | Electrical contact | Static       | 0     |               | 19991115   | 1624       | 0.00 | 1.63           |          |
|              | Electrical contact | Static       | 0     |               | 20000210   | 1306       | 0.00 | 1.22           |          |
|              | Electrical contact | Static       | 0     |               | 20000727   | 1216       | 0.00 | 1.10           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20000905   | 1519       | 0.00 | 0.95           |          |
|              | Electrical contact | Static       | 0     | Geologist,    | 20001114   | 1206       | 0.00 | 0.94           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010116   | 1213       |      | 0.88           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010514   | 1445       | 0.00 | 0.82           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010827   | 0845       | 0.00 | 0.77           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20011008   | 1440       | 0.00 | 0.81           | SLUGTEST |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20011008     | 300        | 0                  |                   |            |                 |                            | 0.613       |         |         |

# Borehole Construction and Geological Log

Date compiled: 11/23/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01048 Number: IVB-D48

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D48

Y Coord. [m]: -80483.860

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 42.00

X Coord. [m]: 2949388.83

Alt. No. 2: DR 3

Site status: In use

Collar h. [m]: 0.15

Altitude [m]: 1491.58

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 110

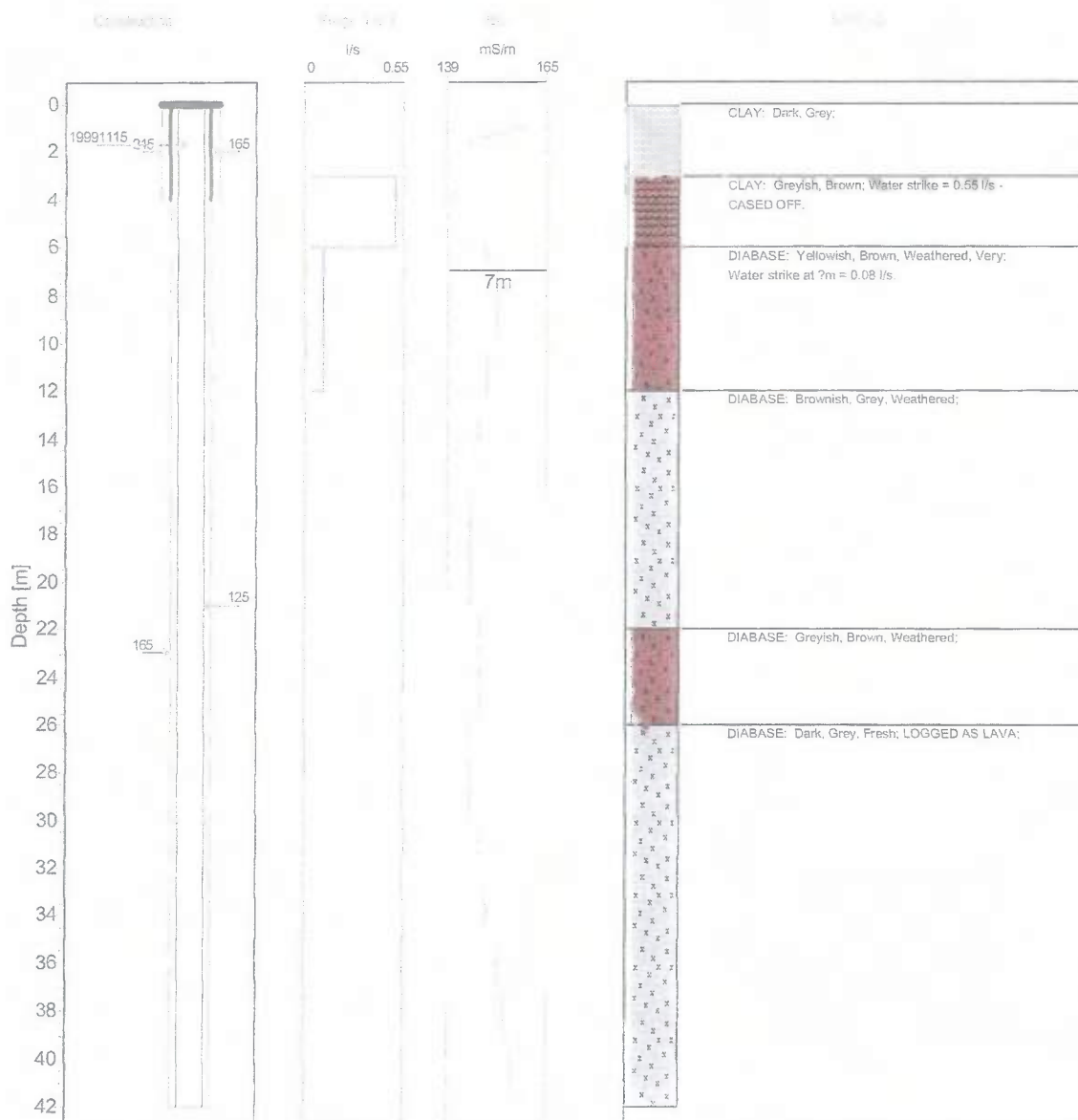
Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19980720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01049 Number: IVB-D49 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D49

Region Type:

Region Desc.: TETP PLANT AREA

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79699.441               | Reg./BB.: CS05 | Topo-set.: Hillside (slope)          | Depth [m]: 31.00   |
| X Coord. [m]: 2950269.646              | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.57 |
| Altitude [m]: 1483.54                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 7.00                | 215           | 19980507    |         |
| JMA        | 7.00             | 31.00               | 165           | 19980507    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19980507   | 0.00            | 1.50     | 125        | Steel    | 3            |                       | 0      | 0     | 0           | 0           |
| 19980507   | 1.50            | 31.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 23.00            | 24.00    | 0.42        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | CLAY           | Brown          | Greyish   |         |                 |           |
| 1.00         | 8.00     | DIABASE        | Brown          | Olive     |         | Weathered       |           |
| 8.00         | 9.00     | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
| 9.00         | 23.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |
| 23.00        | 24.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |
| 24.00        | 31.00    | SANDSTONE      | Grey           | Dark      | Fine    | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1545       | 0.00 | 1.80           |         |
| Electrical contact | Static       | 0     |               | 20000301   | 1417       | 0.00 | 1.98           |         |
| Electrical contact | Static       | 0     |               | 20000728   | 1327       | 0.00 | 2.08           |         |
| Electrical contact | Static       | 0     |               | 20000814   | 0810       | 0.00 | 1.43           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001113   | 0906       | 0.00 | 1.96           |         |
| Electrical contact | Static       | 0     | Field checked | 20010301   | 1215       | 0.00 | 1.95           |         |
| Electrical contact | Static       | 0     | Field checked | 20010830   | 0950       | 0.00 | 2.09           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010308     | 1800       | 0                  | 0                 | 0          | 0 0             | 0                          | 0.028       | 0       |         |

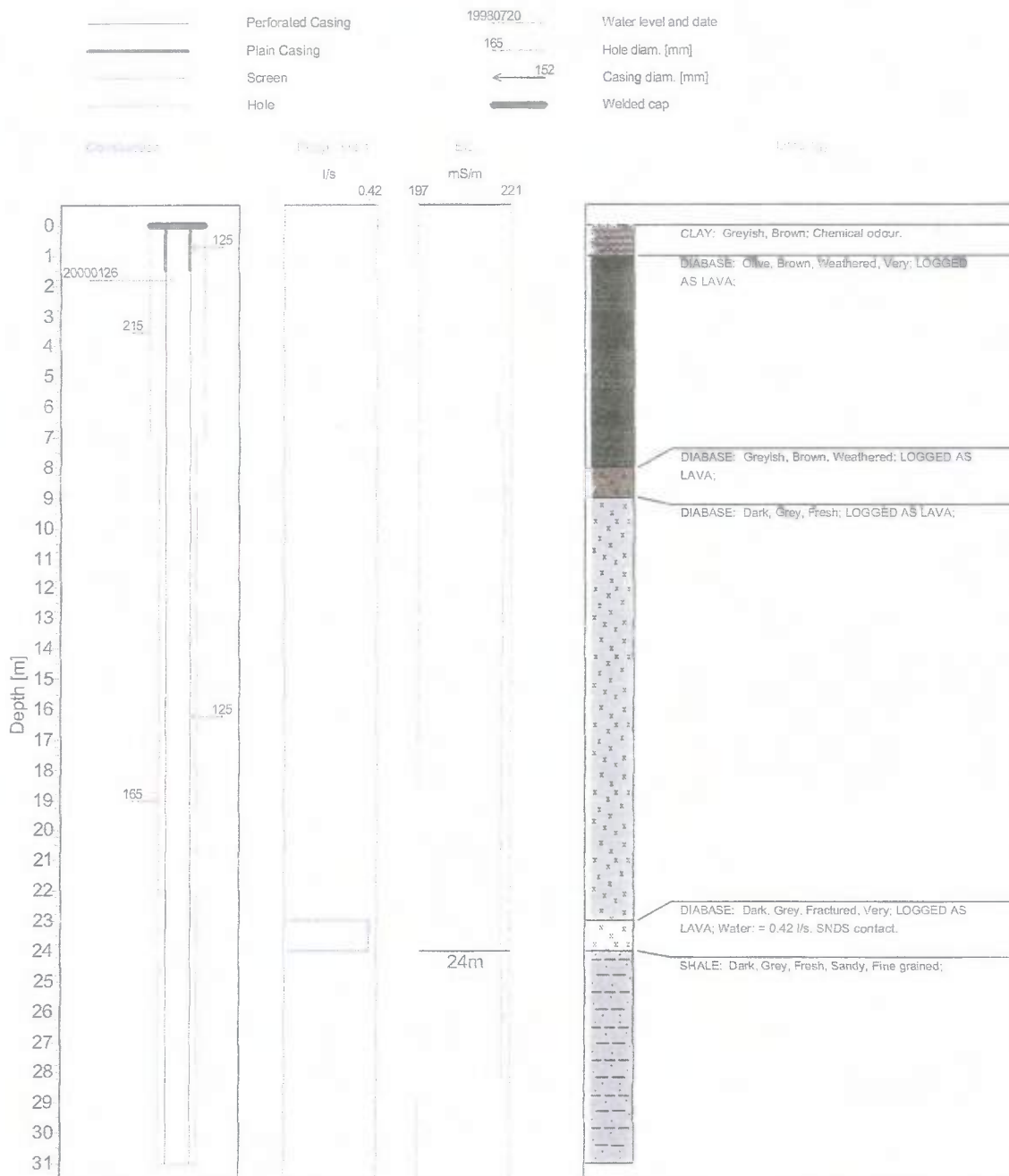
# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01049 Number: IVB-D49 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D49

|                                        |                    |                                      |                     |
|----------------------------------------|--------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -79699.441               | Alt. No. 1:        | Topo-set.: Hillside (slope)          | Depth [m]: 31.00    |
| X Coord. [m]: 2950269.65               | Alt. No. 2: TETP 1 | Site status: In use                  | Collar h. [m]: 0.57 |
| Altitude [m]: 1483.54                  |                    | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                    | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                    | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geology Log



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01050 Number: IVB-D50 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D50

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79904.686               | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 34.00   |
| X Coord. [m]: 2949483.40399            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.96 |
| Altitude [m]: 1484.08                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 170    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: Mono-type pump            | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 12.00               | 215           | 19980518    |         |
| JMA        | 12.00            | 34.00               | 165           | 19980518    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19980518   | 0.00            | 6.00     | 125        | Steel    | 3            |                       | 0      | 0     | 0           | 0           |
| 19980518   | 0.00            | 12.00    | 165        | Steel    | 3            |                       |        |       |             |             |
| 19980518   | 6.00            | 24.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## GEOLOGY:

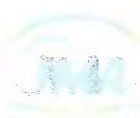
| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Dark      |         | Clayey          |           |
| 1.00         | 5.00     | CLAY           | Brown          | Dark      |         |                 |           |
| 5.00         | 9.00     | SHALE          | Brown          | Yellowish |         | Weathered       |           |
| 9.00         | 12.00    | SHALE          | Brown          | Olive     |         | Weathered       |           |
| 12.00        | 18.00    | DIABASE        | Brown          | Light     |         | Weathered       |           |
| 18.00        | 22.00    | DIABASE        | Brown          | Dark      |         | Weathered       |           |
| 22.00        | 23.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
| 23.00        | 24.00    | DIABASE        | Brown          | Greyish   |         | Fractured       |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment      |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|--------------|
| Electrical contact | Static       | 0     |               | 20000126   | 1446       | 0.00 | 1.10           |              |
| Electrical contact | Static       | 0     |               | 20000215   | 1602       | 0.00 | 1.45           |              |
| Electrical contact | Static       | 0     |               | 20000727   | 1219       | 0.00 | 0              |              |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1447       | 0.00 | 0.81           | SUB-ARTESIAN |
| Electrical contact | Static       | 0     | Field checked | 20010117   | 0730       |      | 1.05           |              |
| Electrical contact | Static       | 0     | Field checked | 20010301   | 0850       | 0.00 | 0.87           |              |
| Electrical contact | Static       | 0     | Field checked | 20010827   | 1255       | 0.00 | 1.00           |              |
| Electrical contact | Static       | 0     | Field checked | 20011008   | 1415       | 0.00 | 1.05           | SLUGTEST     |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [min] | Trans. [m³/d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|---------------|-------------|---------|---------|
| SLUGTEST    | 20011008     | 150        | 0                  |                  |            |                 | 0.632         |             |         |         |



# Borehole Construction and Geological Log

Date compiled: 11/19/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01050 Number: IVB-D50

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D50

Y Coord. [m]: -79904.686

X Coord. [m]: 2949483.40

Altitude [m]: 1484.08

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: T 3

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - Industrial

Equipment: Mono-type pump

Depth [m]: 34.00

Collar h. [m]: 0.96

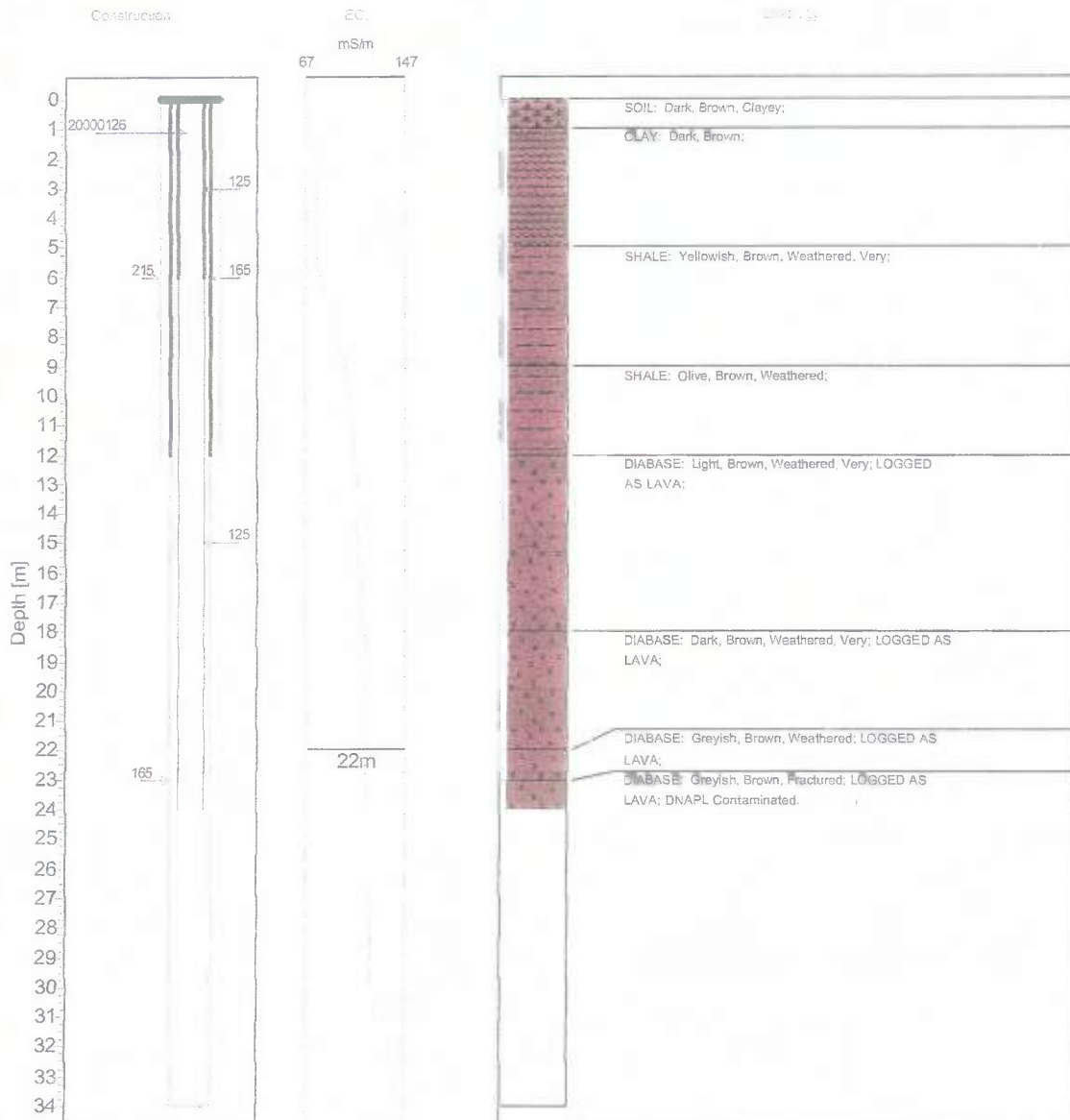
Drain. reg.: C220

Diam. [mm]: 170

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19980720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



COMMENT:

Page 1



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01051 Number: IVB-D51 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D51

Region Type:

Region Descr.: WESTERN BOUNDARY - EFFLUENT DAMS (DA

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79938.955               | Reg./BB.: CS05 | Topo-set.: Flat surface, plain       | Depth [m]: 31.00   |
| X Coord. [m]: 2949390.16899            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.87 |
| Altitude [m]: 1484.93                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 9.50                | 214           | 19961010    |         |
| JMA        | 9.50             | 31.00               | 165           | 19961010    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19961010   | 0.00            | 9.50     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19961010   | 0.00            | 15.00    | 125        | PVC      | 3            |                       |        |       |             |             |
| 19961010   | 15.00           | 30.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type    | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|-----------------|----------------|---------|
| JMA        | 14.00            | 24.00    | 2.50        | Estimated    | Weathered basin | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | SAND           | Brown          | Yellowish |         | Clayey          |           |
| 3.00         | 5.00     | SILT           | Yellow         |           |         | Clayey          | Jointed   |
| 5.00         | 12.00    | DIABASE        | Yellow         |           |         | Fractured       | Weathered |
| 12.00        | 14.00    | DIABASE        | Yellow         | Brownish  |         | Fractured       | Weathered |
| 14.00        | 20.00    | DIABASE        | Grey           | Greenish  |         | Weathered       | Fractured |
| 20.00        | 24.00    | DIABASE        | Grey           | Bluish    |         | Fresh           | Weathered |
| 24.00        | 31.00    | DIABASE        | Grey           | Bluish    |         | Fresh           | Jointed   |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1551       | 0.00 | 1.32           |         |
| Electrical contact | Static       | 0     |               | 20000215   | 1426       | 0.00 | 0.94           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1224       | 0.00 | 0.89           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1430       | 0.00 | 1.05           |         |
| Electrical contact | Static       | 0     | Field checked | 20010118   | 0747       |      | 1.30           |         |
| Electrical contact | Static       | 0     | Field checked | 20010228   | 1610       | 0.00 | 1.14           |         |
| Electrical contact | Static       | 0     | Field checked | 20010827   | 1220       | 0.00 | 1.27           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 30010301     | 25         | 0                  | 0                 | 0          | 0 0             | 0                          | 7.166       | 0       |         |



# Borehole Construction and Geological Log

Date compiled: 11/19/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01051 Number: IVB-D51

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D51

Y Coord. [m]: -79938.955

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 31.00

X Coord. [m]: 2949390.17

Alt. No. 2: YS 2

Site status: In use

Collar h. [m]: 0.87

Altitude [m]: 1484.93

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

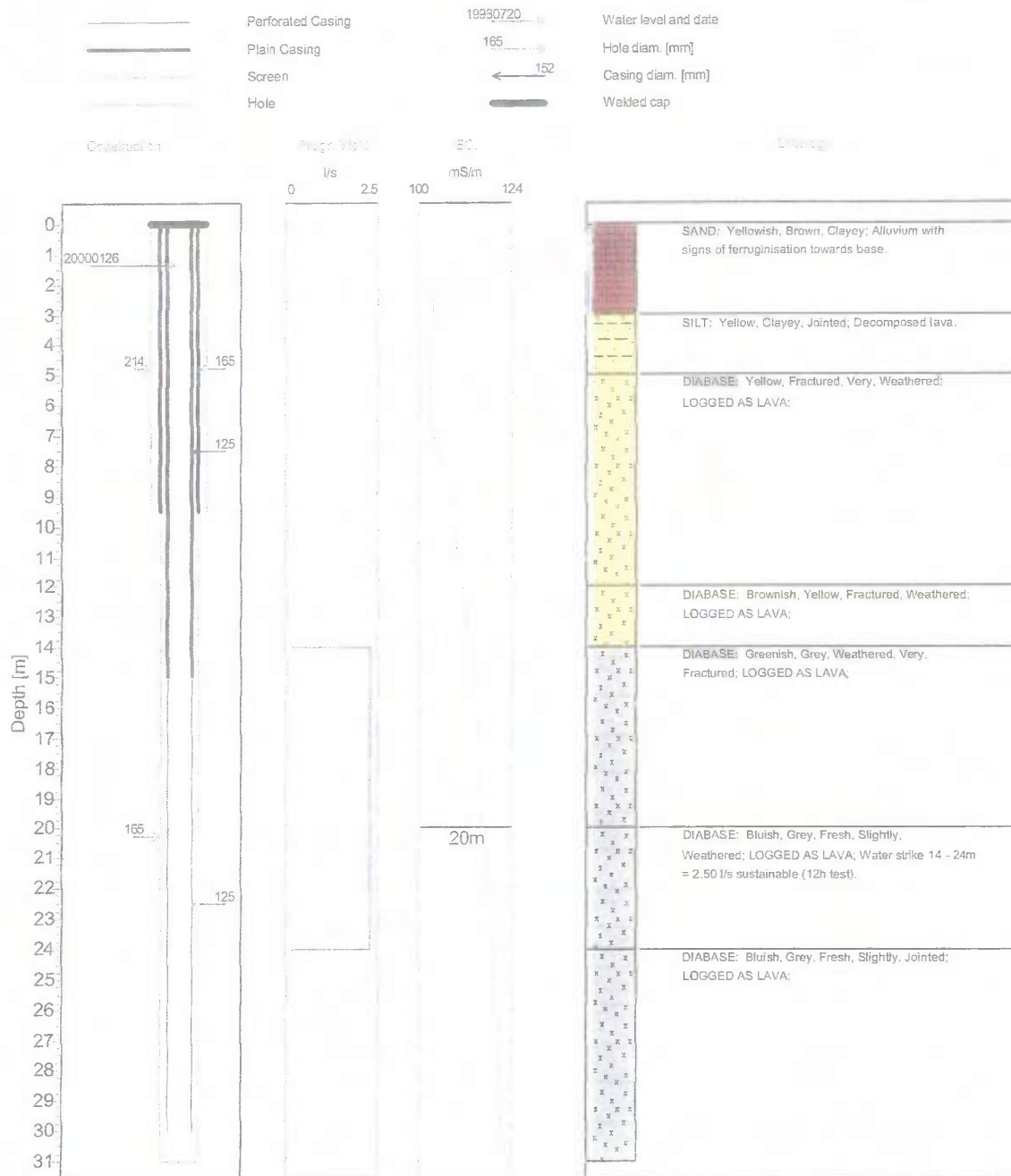
Diam. [mm]: 125

Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Log



COMMENT:



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01052 Number: IVB-D52 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D52

Region Type:

Region Desc.: WESTERN BOUNDARY - EFFLUENT DAMS (DA

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79999.464               | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 40.00   |
| X Coord. [m]: 2949056.59499            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.70 |
| Altitude [m]: 1487.03                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 7.20                | 214           | 19961010    |         |
| JMA        | 7.20             | 40.00               | 165           | 19961010    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19961010   | 0.00            | 7.20     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19961010   | 0.00            | 20.00    | 125        | PVC      | 3            |                       |        |       |             |             |
| 19961010   | 20.00           | 40.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 14.00            | 29.00    | 1.00        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SAND           | Brown          | Yellowish |         | Clayey          |           |
| 2.00         | 4.00     | FERRICRETE     | Yellow         |           |         |                 |           |
| 4.00         | 8.00     | SILT           | Brown          | Yellowish |         | Clayey          | Jointed   |
| 8.00         | 29.00    | DIABASE        | Yellow         | Greenish  |         | Fractured       | Weathered |
| 29.00        | 40.00    | DIABASE        | Grey           | Bluish    |         | Fractured       | Weathered |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1551       | 0.00 | 1.89           |         |
| Electrical contact | Static       | 0     |               | 20000215   | 1425       | 0.00 | 1.21           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1224       | 0.00 | 1.66           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1415       | 0.00 | 1.83           |         |
| Electrical contact | Static       | 0     | Field checked | 20010118   | 0807       |      | 2.05           |         |
| Electrical contact | Static       | 0     | Field checked | 20010228   | 1550       | 0.00 | 2.00           |         |
| Electrical contact | Static       | 0     | Field checked | 20010827   | 1045       | 0.00 | 1.88           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010301     | 900        | 0                  | 0                 | 0          | 0 0             | 0                          | 0.083       | 0       |         |

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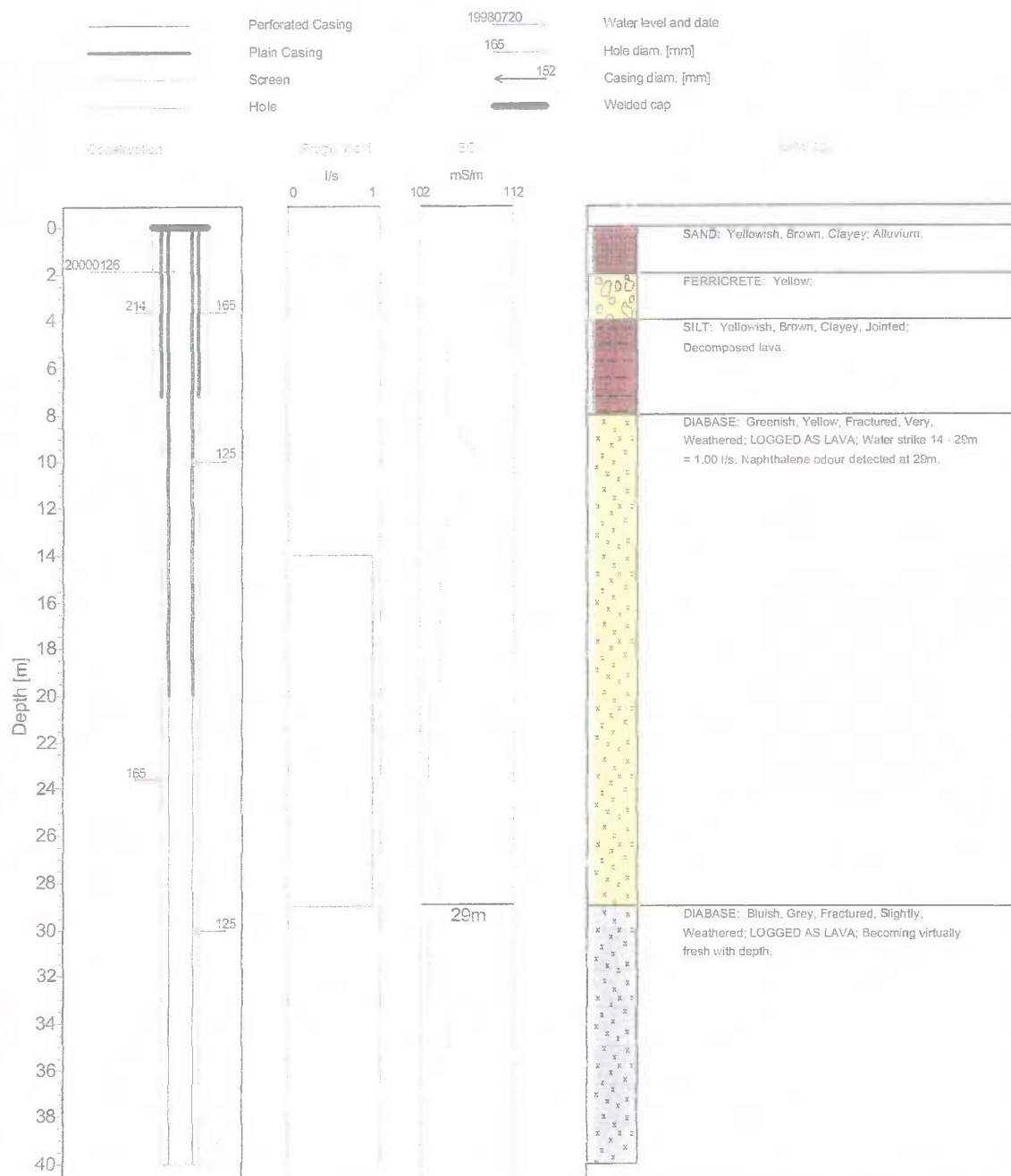
# Borehole Construction and Geological Log

Date compiled: 11/19/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01052 Number: IVB-D52 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D52

|                                        |                  |                                      |                     |
|----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -79999.464               | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 40.00    |
| X Coord. [m]: 2949056.59               | Alt. No. 2: YS-1 | Site status: In use                  | Collar h. [m]: 0.70 |
| Altitude [m]: 1487.03                  |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                  | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Log



COMMENT:

**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01053 Number: IVB-D53 Site type: Borehole  
 Distr./Farm No.: ISCOR Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D53  
 Region Type: Region Descr.: WESTERN BOUNDARY - EFFLUENT DAMS (DA)

|                                        |                 |                                      |                    |
|----------------------------------------|-----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -80054.954               | Reg. IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 49.00   |
| X Coord. [m]: 2948751.42599            | G-Nr.:          | Site status: In use                  | Col. ht. [m]: 0.35 |
| Altitude [m]: 1488.56                  |                 | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                 | Use applic.: Industrial - industrial | Diam. [mm]: 110    |
| Coord. meth.: Levelled or surveyed     |                 | Equipment: No equipment              | Rep. inst.: JMA    |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 12.00               | 215           | 19990503    |         |
| JMA            | 12.00            | 49.00               | 165           | 19990503    |         |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
|                 | 19990503   | 0.00            | 12.00    | 125        |          | 3            |                       |        |       |             |             |
|                 | 19990503   | 0.00            | 12.00    | 165        | Steel    | 3            |                       |        |       |             |             |
|                 | 19990503   | 12.00           | 49.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER: | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type    | Info source    | Comment |
|----------|------------------|----------|-------------|--------------|-----------------|----------------|---------|
| JMA      | 8.00             | 20.00    | 0.01        | Estimated    | Weathered basin | Report or file |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 3.00     | SOIL           | Brown          |           |         | Clayey          |           |
|          | 3.00         | 8.00     | SOIL           | Brown          | Yellowish |         | Clayey          |           |
|          | 8.00         | 20.00    | DIABASE        | Brown          |           |         | Weathered       |           |
|          | 20.00        | 24.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
|          | 24.00        | 49.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
|              | Electrical contact | Static       | 0     |               | 20000215   | 1424       | 0.00 | 1.01           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20000512   | 1555       | 0.00 | 1.29           |         |
|              | Electrical contact | Static       | 0     |               | 20000727   | 1222       | 0.00 | 2.27           |         |
|              | Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1340       | 0.00 | 2.11           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010118   | 0820       |      | 2.11           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010228   | 1535       | 0.00 | 2.41           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010824   | 0915       | 0.00 | 3.13           |         |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>3</sup> /d] | Perm. [mld] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20010301     | 1800       | 0                  | 0                 | 0          | 0 0             | 0                          | 0.047       | 0       |         |

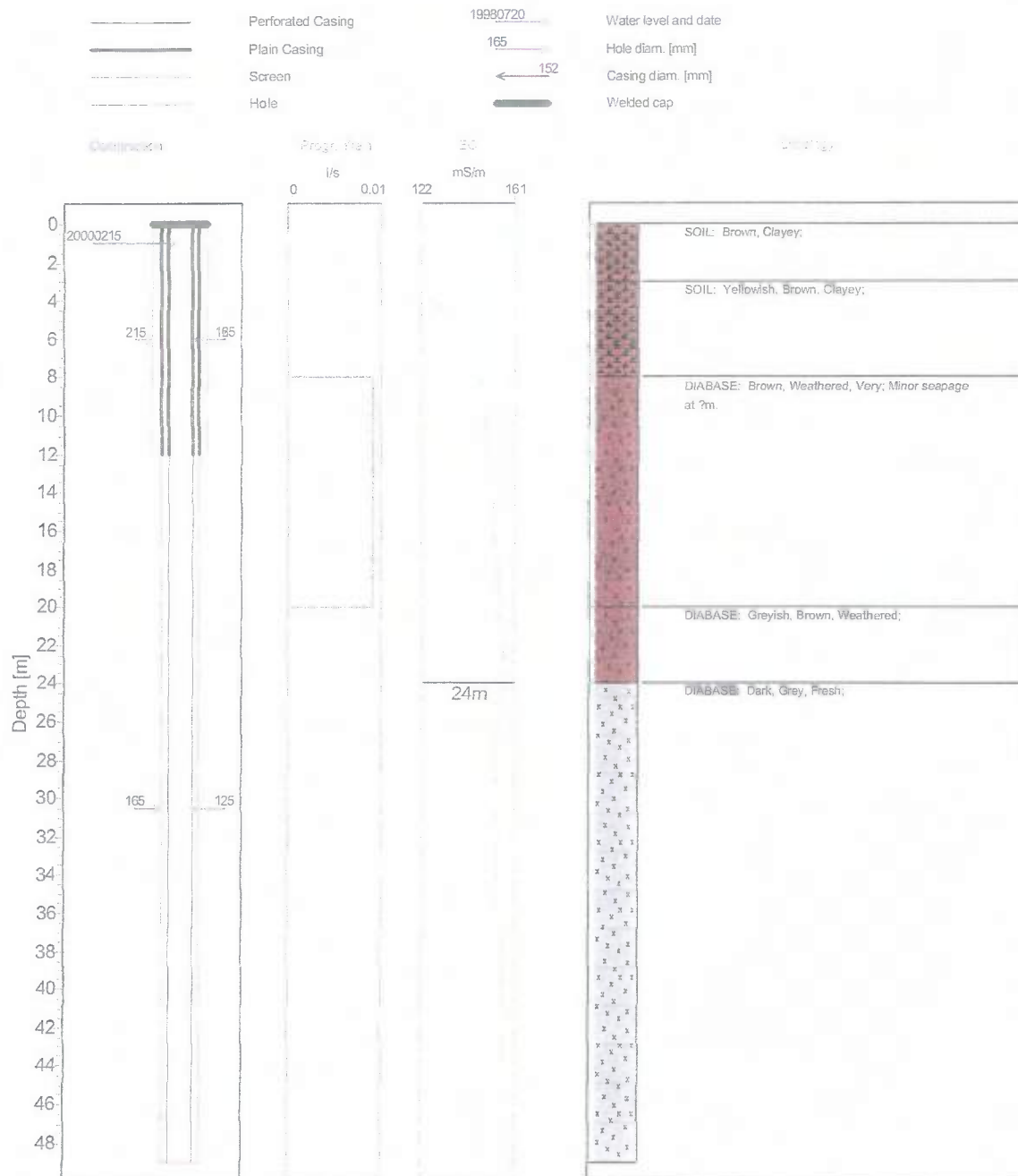
# Borehole Construction and Geological Log

Date compiled: 11/19/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01053 Number: IVB-D53 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D53

|                                        |                   |                                      |                     |
|----------------------------------------|-------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80054.954               | Alt. No. 1:       | Topo-set.: Flat surface, plain       | Depth [m]: 49.00    |
| X Coord. [m]: 2948751.43               | Alt. No. 2: TOM 3 | Site status: In use                  | Collar h. [m]: 0.35 |
| Altitude [m]: 1488.56                  |                   | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                   | Use applic.: Industrial - industrial | Diam. [mm]: 110     |
| Coord. meth.: Levelled or surveyed     |                   | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:

Page 1



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01054 Number: IVB-D54 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D54

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -80101.325               | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 48.00   |
| X Coord. [m]: 2948489.67099            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.24 |
| Altitude [m]: 1489.99                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 110    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 9.00                | 215           | 19990318    |         |
| JMA        | 9.00             | 48.00               | 165           | 19990318    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19990318   | 0.00            | 9.00     | 125        |          | 3            |                       |        |       |             |             |
| 19990318   | 0.00            | 9.00     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19990318   | 9.00            | 48.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 23.00            | 25.00    | 1.39        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          | Dark      |         |                 |           |
| 2.00         | 12.00    | SHALE          | Brown          | Olive     |         | Weathered       |           |
| 12.00        | 23.00    | SHALE          | Brown          | Greyish   |         | Fresh           |           |
| 23.00        | 25.00    | SHALE          | Brown          | Greyish   |         | Fractured       |           |
| 25.00        | 48.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1517       | 0.00 | 1.77           |         |
| Electrical contact | Static       | 0     |               | 20000215   | 1424       | 0.00 | 1.27           |         |
| Electrical contact | Static       | 0     | Field checked | 20000512   | 1555       | 0.00 | 0.91           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1222       | 0.00 | 1.26           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1353       | 0.00 | 1.25           |         |
| Electrical contact | Static       | 0     | Field checked | 20010118   | 0851       |      | 1.46           |         |
| Electrical contact | Static       | 0     | Field checked | 20010228   | 1450       | 0.00 | 1.71           |         |
| Electrical contact | Static       | 0     | Field checked | 20010824   | 0740       | 0.00 | 2.28           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010301     | 150        | 0                  | 0                 | 0          | 0 0 0           | 0                          | 0.446       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01054 Number: IVB-D54 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D54

Y Coord. [m]: -80101.325

X Coord. [m]: 2948489.67

Altitude [m]: 1489.99

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: TOM 2

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 48.00

Collar h. [m]: 0.24

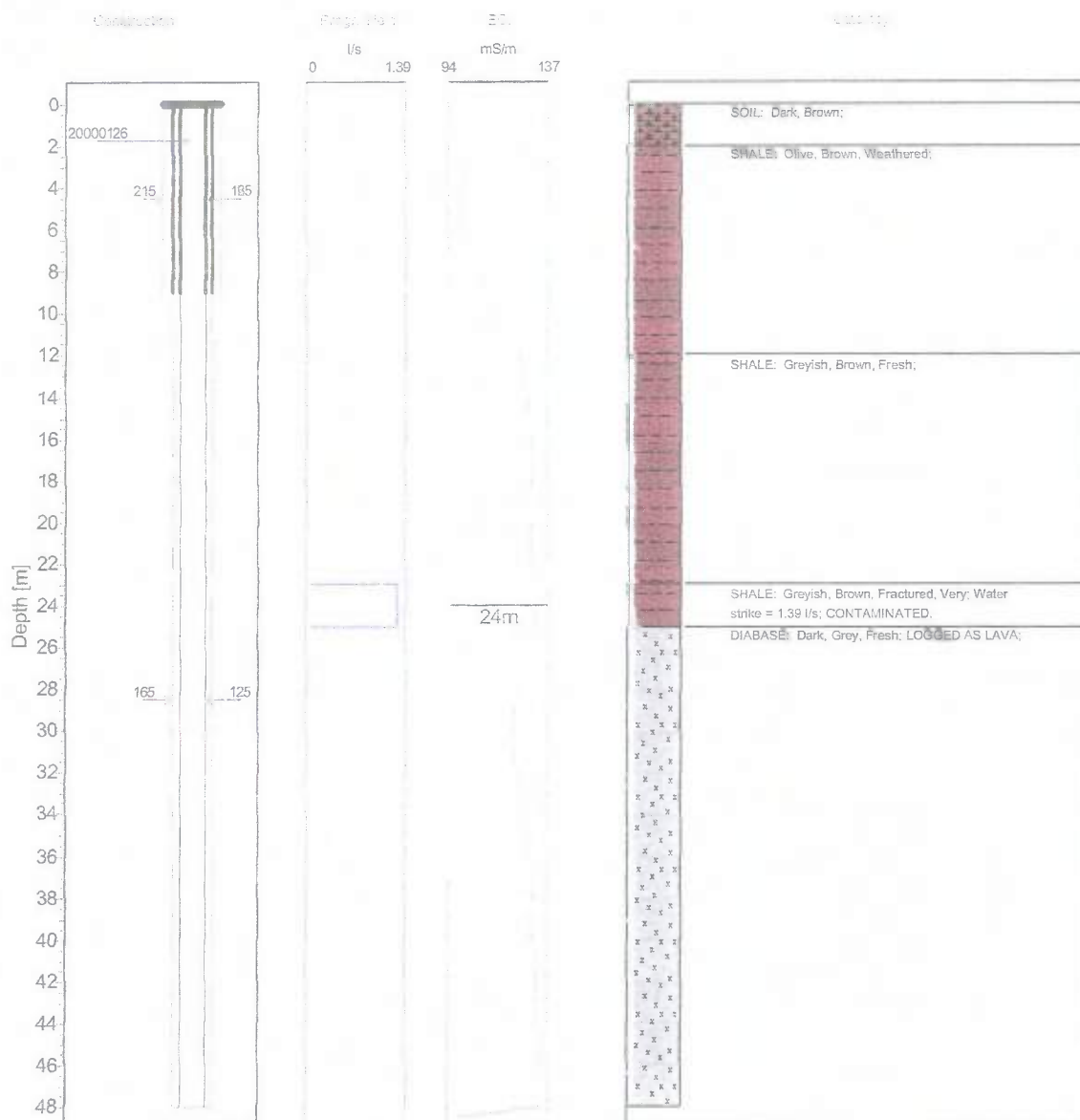
Drain. reg.: C220

Diam. [mm]: 110

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19930720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



COMMENT:

Page 1



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01055 Number: IVB-D55 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D55

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|                                          |                |                                      |                    |
|------------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -80104.9818                | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 24.00   |
| X Coord. [m]: 2948476.92111              | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.39 |
| Altitude [m]: 1488.96                    |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 10 units |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed       |                | Equipment: Mono-type pump            | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 12.00               | 216           | 19980518    |         |
| JMA        | 12.00            | 24.00               | 165           | 19980518    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19980518   | 0.00            | 12.00    | 165        | Steel    | 3            |                       |        |       |             |             |
| 19980518   | 12.00           | 24.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type    | Info source    | Comment        |
|------------|------------------|----------|-------------|--------------|-----------------|----------------|----------------|
| JMA        | 17.00            | 24.00    | 0.30        | Estimated    | Weathered basin | Report or file | TAR-LIKE SMELL |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Dark      |         | Clayey          |           |
| 1.00         | 5.00     | CLAY           | Brown          | Dark      |         |                 |           |
| 5.00         | 9.00     | SHALE          | Brown          |           |         | Weathered       |           |
| 9.00         | 12.00    | SHALE          | Brown          |           |         | Weathered       |           |
| 12.00        | 18.00    | LAVA           | Brown          | Light     |         | Weathered       |           |
| 18.00        | 22.00    | LAVA           | Brown          | Dark      |         | Weathered       |           |
| 22.00        | 23.00    | LAVA           | Brown          | Greyish   |         | Weathered       |           |
| 23.00        | 24.00    | OTHER          |                |           |         | Fractured       |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment  |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|----------|
| Electrical contact | Static       | 0     |               | 20000126   | 1446       | 0.00 | 1.94           |          |
| Electrical contact | Static       | 0     |               | 20000727   | 1219       | 0.00 | 1.44           |          |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1349       | 0.00 | 1.43           |          |
| Electrical contact | Static       | 0     | Field checked | 20010118   | 0911       | 0.00 | 1.64           |          |
| Electrical contact | Static       | 0     | Field checked | 20010823   | 1500       | 0.00 | 2.48           |          |
| Electrical contact | Static       | 0     | Field checked | 20011008   | 1330       | 0.00 | 2.51           | SLUGTEST |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20011008     | 900        | 0                  |                   |            |             |                            | 0.43        |         |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

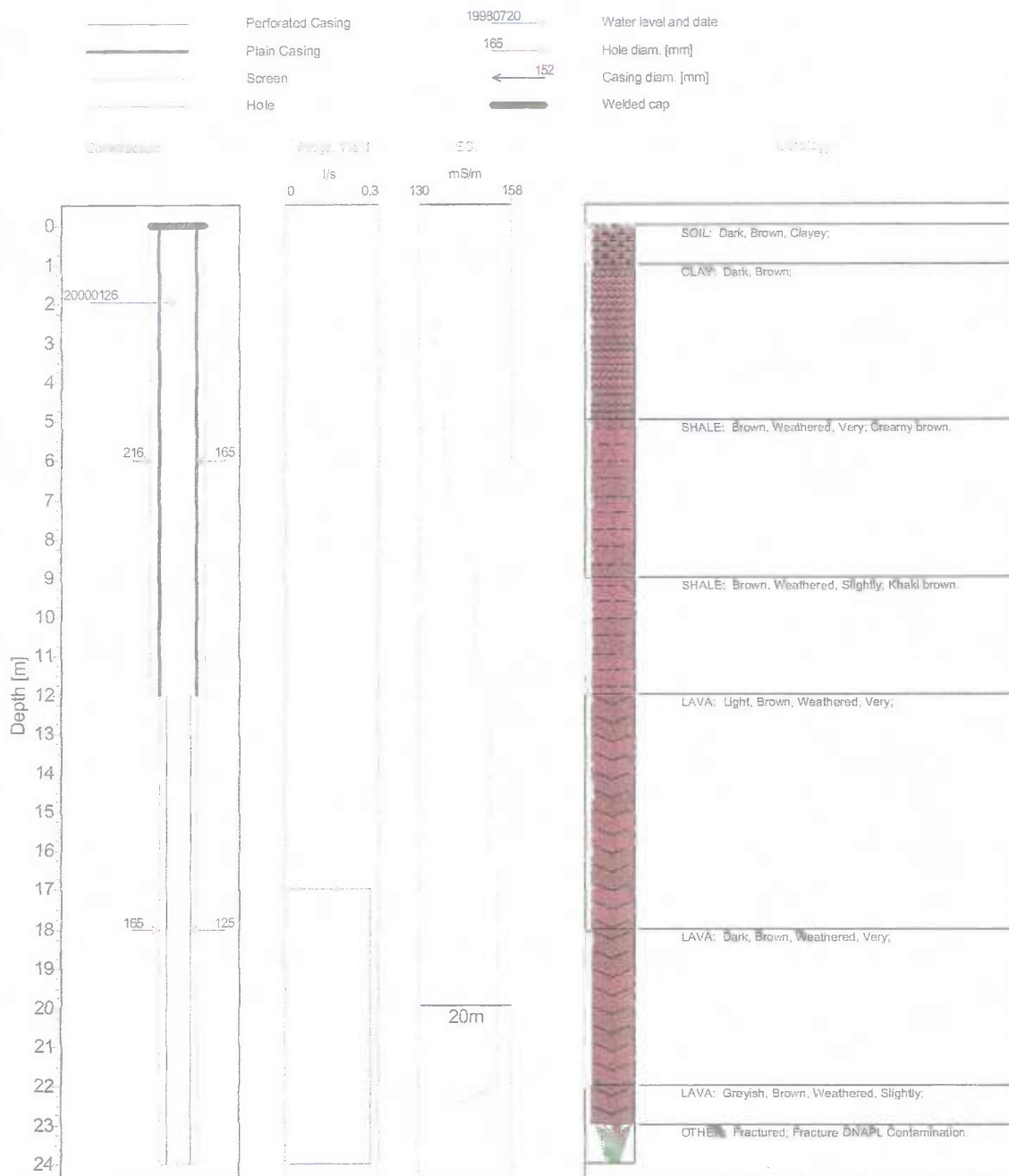
**BASIC SITE INFORMATION:** Site Identifier: 2627DB01055 Number: IVB-D55 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D55

|                                          |                     |                                      |                     |
|------------------------------------------|---------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80104.982                 | Alt. No. 1:         | Topo-set.: Flat surface, plain       | Depth [m]: 24.00    |
| X Coord. [m]: 2948476.92                 | Alt. No. 2: T3(ORG) | Site status: In use                  | Collar h. [m]: 0.39 |
| Altitude [m]: 1488.96                    |                     | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 10 units |                     | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed       |                     | Equipment: Mono-type pump            | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:

Page 1

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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01056 Number: IVB-D56

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D56

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80175.29                 | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 42.71 |
| X Coord. [m]: | 2948143.74999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.90  |
| Altitude [m]: | 1491.28                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

| AQUIFER:   | Depth to | Yield    |       |              |                 |                |         |
|------------|----------|----------|-------|--------------|-----------------|----------------|---------|
| Rep. Inst. | Top [m]  | Bot. [m] | [l/s] | Method meas. | Aquifer type    | Info source    | Comment |
| JMA        | 18.00    | 22.00    | 1.00  | Estimated    | Weathered basin | Report or file | STRONG  |

| GEOLOGY:     |          |                | Colour  |           |         | Feature   |           |
|--------------|----------|----------------|---------|-----------|---------|-----------|-----------|
| Dep. Top [m] | Bot. [m] | Lithology code | Primary | Secondary | Texture | Primary   | Secondary |
| 0.00         | 1.50     | SOIL           |         |           |         |           |           |
| 1.50         | 6.00     | SILT           | Brown   | Yellowish |         | Clayey    | Jointed   |
| 6.00         | 9.00     | DIABASE        | Green   | Yellowish |         | Jointed   | Weathered |
| 9.00         | 22.00    | DIABASE        | Green   |           |         | Weathered | Jointed   |
| 22.00        | 42.00    | DIABASE        | Green   | Grayish   |         | Jointed   | Weathered |

| WATER LEVEL:       |              |       |               |            |            |      |                |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|
| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] |
| Electrical contact | Static       | 0     |               | 20000126   | 1445       | 0.00 | 1.10           |
| Electrical contact | Static       | 0     |               | 20000215   | 1601       | 0.00 | 0.91           |
| Electrical contact | Static       | 0     |               | 20000727   | 1218       | 0.00 | 1.00           |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1242       | 0.00 | 0.91           |
| Electrical contact | Static       | 0     | Field checked | 20010115   | 1200       |      | 0.99           |
| Electrical contact | Static       | 0     | Field checked | 20010302   | 1400       | 0.00 | 0.91           |
| Electrical contact | Static       | 0     | Field checked | 20010823   | 1400       | 0.00 | 1.16           |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20010301     | 150        | 0                  | 0                 | 0          | 0             | 0       | 0                          | 0.649       | 0       |         |

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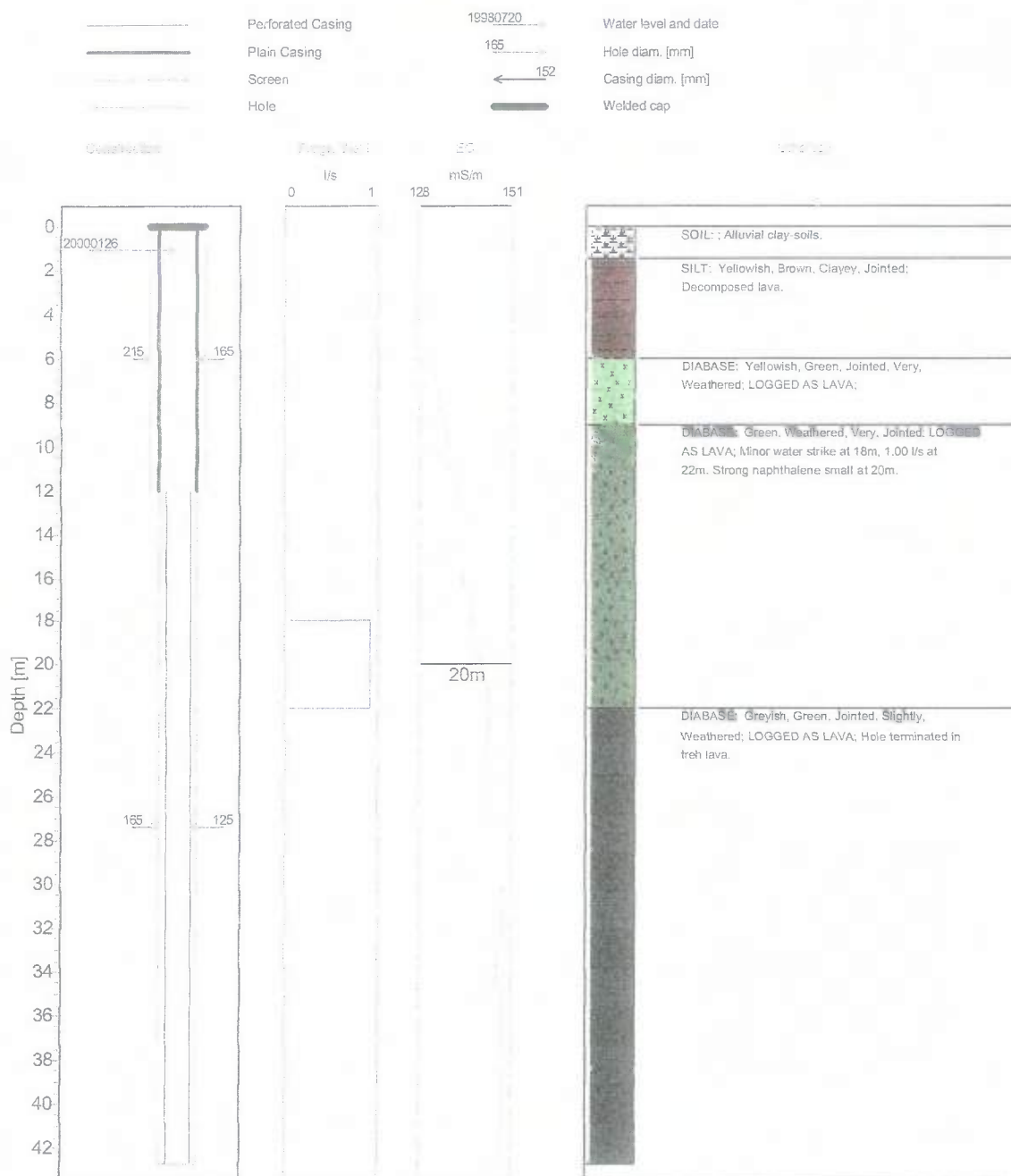
# Borehole Construction and Geological Log

Date compiled: 6/4/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01056 Number: IVB-D56 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D56

|                                        |                 |                                      |                     |
|----------------------------------------|-----------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80175.290               | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]: 42.71    |
| X Coord. [m]: 2948143.75               | Alt. No. 2: T 1 | Site status: In use                  | Collar h. [m]: 0.90 |
| Altitude [m]: 1491.28                  |                 | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                 | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                 | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geo-hydrological Legend



COMMENT:

Page 1

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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01057 Number: IVB-D57 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D57

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80224.43                 | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 49.00 |
| X Coord. [m]: | 2947981.97999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.48  |
| Altitude [m]: | 1491.15                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 110   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 4.00                | 215           | 19990504    |         |
| JMA            | 4.00             | 49.00               | 165           | 19990504    |         |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
|                 | 19990504   | 0.00            | 4.00     | 125        | PVC      | 3            | Plain casing          |        |       |             |             |
|                 | 19990504   | 4.00            | 49.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER: | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|----------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA      | 13.00            | 18.00    | 0.02        | Estimated    | Fractured    | Report or file |         |

| GEOLGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|---------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|         | 0.00         | 2.00     | SOIL           | Brown          | Dark      |         | Clayey          |           |
|         | 2.00         | 6.00     | DIABASE        | Brown          | Olive     |         | Weathered       |           |
|         | 6.00         | 8.00     | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
|         | 8.00         | 49.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
|              | Electrical contact | Static       | 0     |               | 20000126   | 1551       | 0.00 | 0.95           |         |
|              | Electrical contact | Static       | 0     |               | 20000215   | 1424       | 0.00 | 0.61           |         |
|              | Electrical contact | Static       | 0     |               | 20000727   | 1223       | 0.00 | 0.95           |         |
|              | Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1236       | 0.00 | 0.74           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010115   | 1140       |      | 0.85           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010301   | 1045       | 0.00 | 0.66           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010823   | 1230       | 0.00 | 0.95           |         |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>2</sup> /d] | Perm. [mld] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20010301     | 1800       | 0                  | 0                 | 0          | 0 0 0 0     | 0 0                        | 0.03        | 0       |         |

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# Borehole Construction and Geological Log

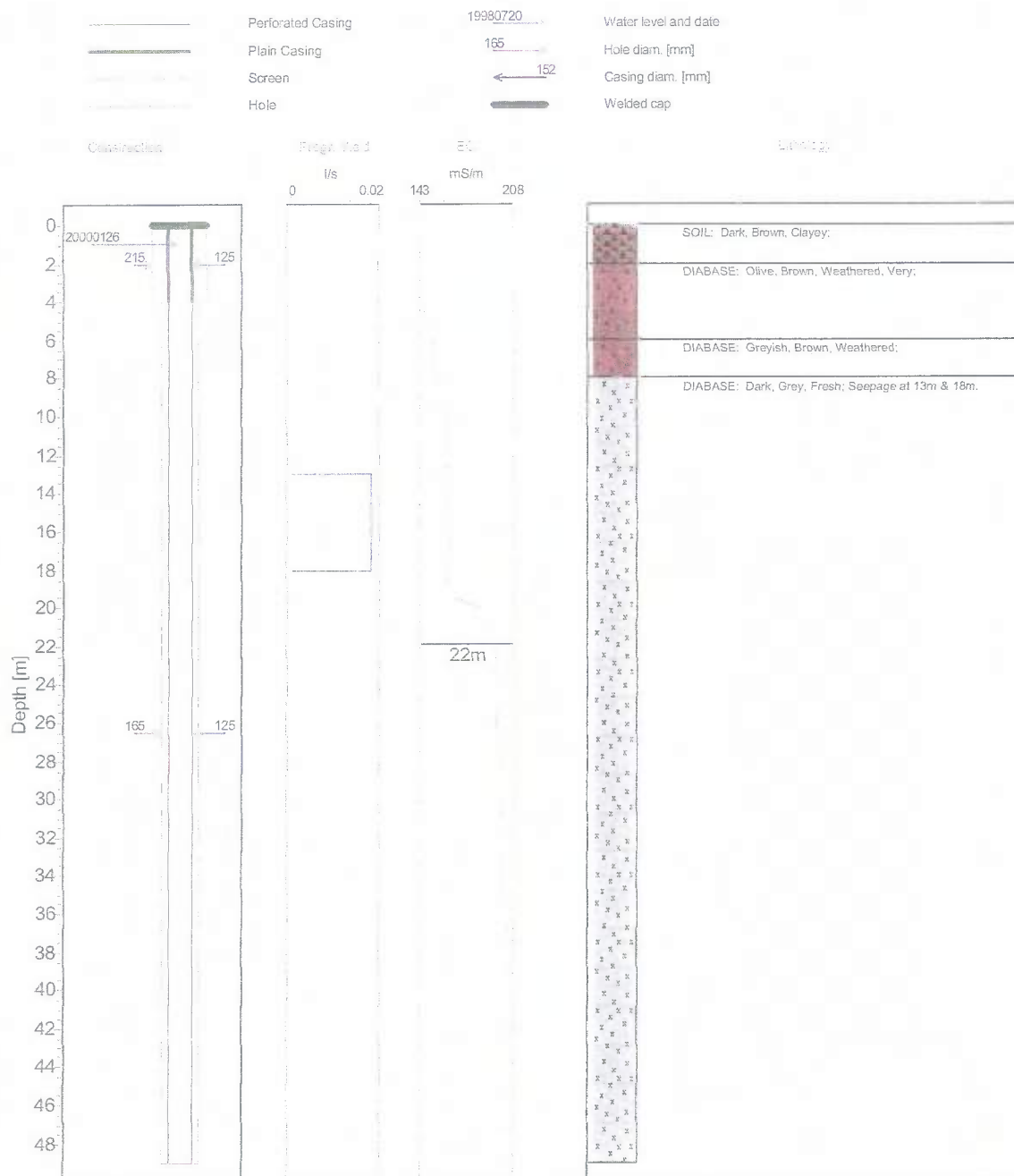
Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01057 Number: IVB-D57 Site type: Borehole

Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D57

|                                        |                   |                                      |                     |
|----------------------------------------|-------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80224.430               | Alt. No. 1:       | Topo-set.: Flat surface, plain       | Depth [m]: 49.00    |
| X Coord. [m]: 2947981.98               | Alt. No. 2: TOM 4 | Site status: In use                  | Collar h. [m]: 0.48 |
| Altitude [m]: 1491.15                  |                   | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                   | Use applic.: Industrial - industrial | Diam. [mm]: 110     |
| Coord. meth.: Levelled or surveyed     |                   | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geochronological Legend



COMMENT:

# SITE INFORMATION REPORT

Date compiled: 11/20/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01058 Number: IVB-D58 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D58

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -80200.03                | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 20.00   |
| X Coord. [m]: 2948325.70999            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.58 |
| Altitude [m]: 1490.92                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 7.00                | 215           | 19980521    |         |
| JMA            | 7.00             | 20.00               | 165           | 19980521    |         |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
|                 | 19980521   | 0.00            | 1.50     | 125        |          | 0            | Plain casing          | 0      | 0     | 0           | 0           |
|                 | 19980521   | 0.00            | 7.00     | 165        | Steel    |              | Plain casing          |        |       |             |             |
|                 | 19980521   | 1.50            | 20.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER: | Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|----------|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
|          | JMA        | 19.00            | 20.00    | 0.04        | Estimated    | Fractured    | Report or file |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 2.00     | SOIL           | Brown          | Greyish   |         | Clayey          |           |
|          | 2.00         | 7.00     | DIABASE        | Brown          | Orange    |         | Weathered       |           |
|          | 7.00         | 16.00    | DIABASE        | Brown          | Dark      |         | Weathered       |           |
|          | 16.00        | 19.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |
|          | 19.00        | 20.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment      |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|--------------|
|              | Electrical contact | Static       | 0     |               | 20000126   | 1447       | 0.00 | 0.64           |              |
|              | Electrical contact | Static       | 0     |               | 20000301   | 1605       | 0.00 | 0.45           |              |
|              | Electrical contact | Static       | 0     |               | 20000727   | 1220       | 0.00 | 0              |              |
|              | Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1258       | 0.00 | 0.41           | SUB-ARTESIAN |
|              | Electrical contact | Static       | 0     | Field checked | 20010115   | 1540       | 0.00 | 0.50           |              |
|              | Electrical contact | Static       | 0     | Field checked | 20010305   | 0830       | 0.00 | 0.40           |              |
|              | Electrical contact | Static       | 0     | Field checked | 20010824   | 1120       | 0.00 | 0.60           |              |
|              | Electrical contact | Static       | 0     | Field checked | 20011008   | 1330       | 0.00 | 0.72           | TAR / SLUGTE |

| TESTING DETAILS: | Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [mld] | Storat. | Comment |
|------------------|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
|                  | SLUGTEST    | 20011008     | 900        | 0                  |                   |            |                 |                            | 0.255       |         |         |

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# Borehole Construction and Geological Log

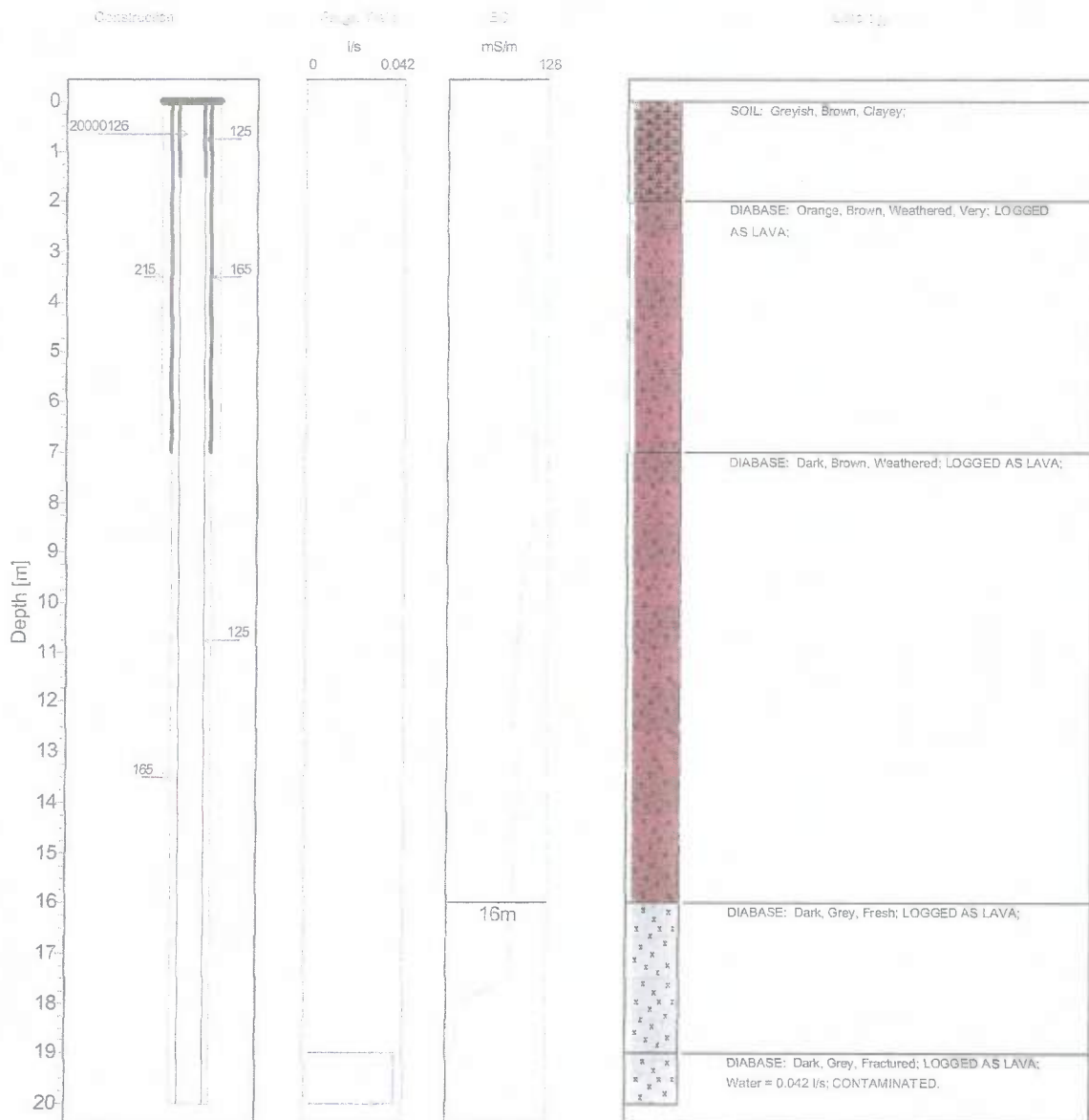
Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01058 Number: IVB-D58 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D58

|                                        |            |                 |                                      |                   |       |
|----------------------------------------|------------|-----------------|--------------------------------------|-------------------|-------|
| Y Coord. [m]:                          | -80200.030 | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]:        | 20.00 |
| X Coord. [m]:                          | 2948325.71 | Alt. No. 2: T 5 | Site status: In use                  | Collar h. [m]:    | 0.58  |
| Altitude [m]:                          | 1490.92    |                 | Site purp.: Observation              | Drain. reg.: C220 |       |
| Coord. acc.: Accurate to within 1 unit |            |                 | Use applic.: Industrial - industrial | Diam. [mm]:       | 125   |
| Coord. meth.: Levelled or surveyed     |            |                 | Equipment: No equipment              | Rep. Inst.: JMA   |       |

## Construction and Geological Legend

|                   |          |                      |
|-------------------|----------|----------------------|
| Perforated Casing | 19980720 | Water level and date |
| Plain Casing      | 165      | Hole diam. [mm]      |
| Screen            | 152      | Casing diam. [mm]    |
| Hole              |          | Welded cap           |



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01059 Number: IVB-D59 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D59

Region Type:

Region Desc.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80158.13                 | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 32.00 |
| X Coord. [m]: | 2948570.17999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.38  |
| Altitude [m]: | 1490.31                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 7.00                | 215           | 19980526    |         |
| JMA        | 7.00             | 32.00               | 165           | 19980526    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19980526   | 0.00            | 2.00     | 127        |          | 3            |                       |        |       |             |             |
| 19980526   | 0.00            | 7.00     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19980526   | 2.00            | 32.00    | 127        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 21.00            | 22.00    | 0.08        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | CLAY           | Grey           | Light     |         |                 |           |
| 1.00         | 4.00     | CLAY           | Brown          | Reddish   |         |                 |           |
| 4.00         | 8.00     | CLAY           | Brown          | Olive     |         |                 |           |
| 8.00         | 13.00    | CLAY           | Brown          | Dark      |         |                 |           |
| 13.00        | 21.00    | SHALE          | Brown          | Olive     |         | Weathered       |           |
| 21.00        | 22.00    | SHALE          | Brown          | Olive     |         | Fractured       |           |
| 22.00        | 30.00    | SHALE          | Brown          | Olive     |         | Weathered       |           |
| 30.00        | 31.00    | SHALE          | Brown          | Olive     |         | Fractured       |           |
| 31.00        | 32.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1448       | 0.00 | 2.15           |         |
| Electrical contact | Static       | 0     |               | 20000301   | 1614       | 0.00 | 1.89           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1221       | 0.00 | 1.60           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001110   | 1319       | 0.00 | 1.64           |         |
| Electrical contact | Static       | 0     | Field checked | 20010118   | 0927       |      | 1.92           |         |
| Electrical contact | Static       | 0     | Field checked | 20010301   | 1130       | 0.00 | 2.16           |         |
| Electrical contact | Static       | 0     | Field checked | 20010824   | 1010       | 0.00 | 2.71           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % [min] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-------------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010301     | 120        | 0                  | 0                 | 0          | 0 0 0             | 0 0                        | 0.819       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01059 Number: IVB-D59

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D59

Y Coord. [m]: -80158.130

X Coord. [m]: 2948570.18

Altitude [m]: 1490.31

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: T 8

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 32.00

Collar h. [m]: 0.38

Drain. reg.: C220

Diam. [mm]: 125

Rep. inst.: JMA

## Construction and Geohydrological Legend

Perforated Casing

Plain Casing

Screen

Hole

19980720

Water level and date

165

Hole diam. [mm]

152

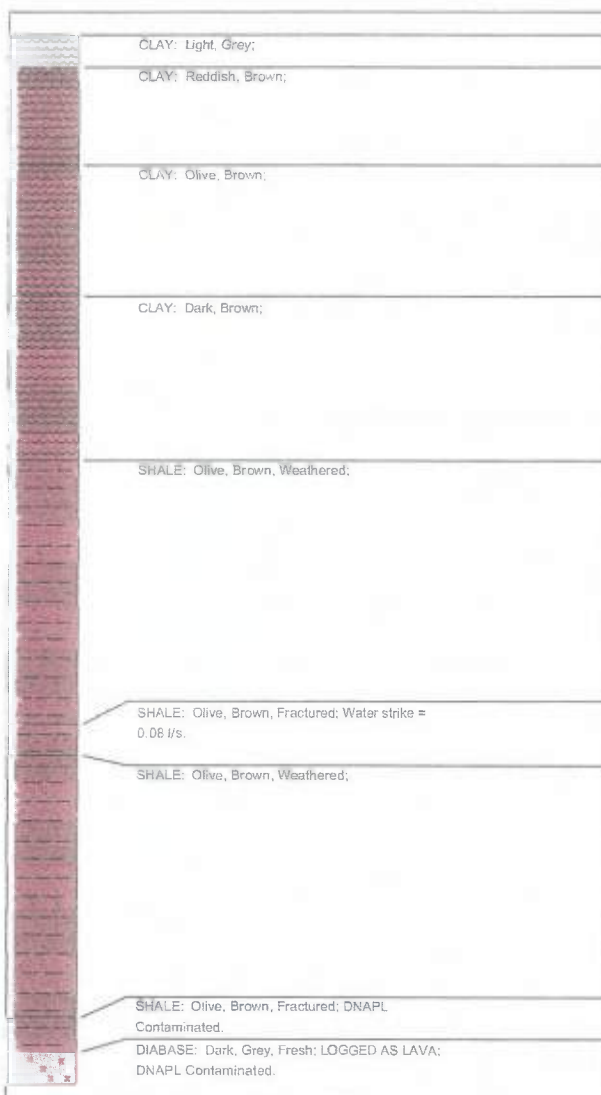
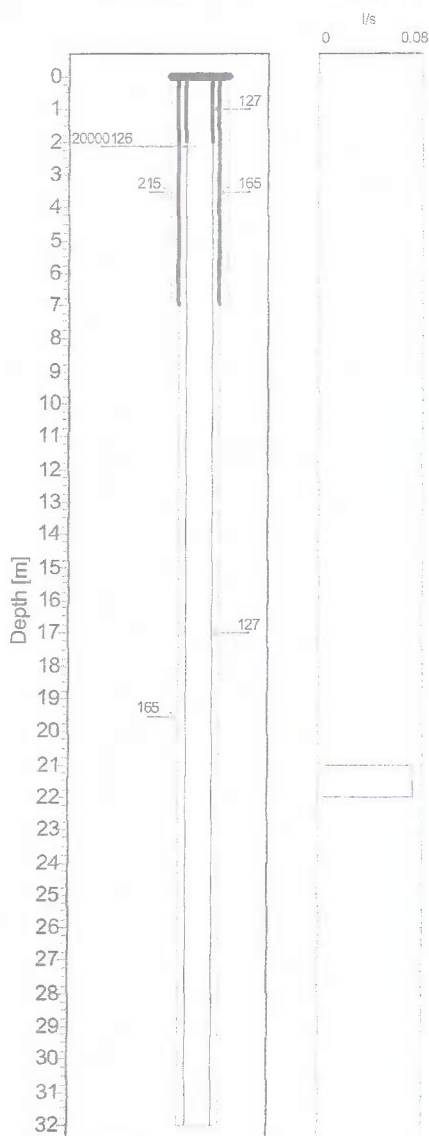
Casing diam. [mm]

Welded cap

Construction

Perforated Casing

Water level



COMMENT:

Page 1

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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01060 Number: IVB-D60 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D60

Region Type:

Region Desc.: SOLID WASTE DUMPS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -81697.46                 | Reg.IBB.: CS22 | Topo-set.: Hillside (slope)          | Depth [m]:    | 31.75 |
| X Coord. [m]: | 2947719.94999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.37  |
| Altitude [m]: | 1498.58                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 110   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 4.00                | 215           | 19990323    |         |
| JMA            | 4.00             | 31.75               | 165           | 19990323    |         |

| CASING DETAILS: | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19990323        | 0.00            | 4.00     | 125        | PVC      | 3            | Plain casing          |        |       |             |             |
| 19990323        | 0.00            | 4.00     | 165        | Steel    | 3            | Plain casing          |        |       |             |             |
| 19990323        | 4.00            | 30.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER:   | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas.          | Aquifer type | Info source | Comment |
|------------|------------------|----------|-------------|-----------------------|--------------|-------------|---------|
| Rep. Inst. | 1.00             | 2.00     | 0.01        | Notch (V- or U-notch) |              |             |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 2.00     | SOIL           | Brown          | Dark      |         |                 |           |
|          | 2.00         | 7.00     | SOIL           | Brown          | Yellowish |         | Clayey          |           |
|          | 7.00         | 15.00    | SHALE          | Grey           | Brownish  |         | Weathered       |           |
|          | 15.00        | 30.00    | SHALE          | Grey           | Dark      |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment  |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|----------|
|              | Electrical contact | Static       | 0     |               | 20000306   | 1406       | 0.00 | 0.56           |          |
|              | Electrical contact | Static       | 0     |               | 20000727   | 1244       | 0.00 | 1.28           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20000905   | 1522       | 0.00 | 1.36           |          |
|              | Electrical contact | Static       | 0     | Geologist,    | 20001113   | 1545       | 0.00 | 0.93           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010118   | 1250       |      | 0.90           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010302   | 0846       | 0.00 | 0.55           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20010816   | 0955       | 0.00 | 1.13           |          |
|              | Electrical contact | Static       | 0     | Field checked | 20011008   | 1510       | 0.00 | 1.08           | SLUGTEST |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20011008     | 1500       | 0                  |                   |            |                 |                            | 0.077       |         |         |

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**Borehole Construction and Geological Log**

Date compiled: 11/6/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01060 Number: IVB-D60

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D60

Y Coord. [m]: -81697.460

Alt. No. 1:

Topo-set.: Hillside (slope)

Depth [m]: 31.75

X Coord. [m]: 2947719.95

Alt. No. 2: MSC 1

Site status: In use

Collar h. [m]: 0.37

Altitude [m]: 1498.58

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

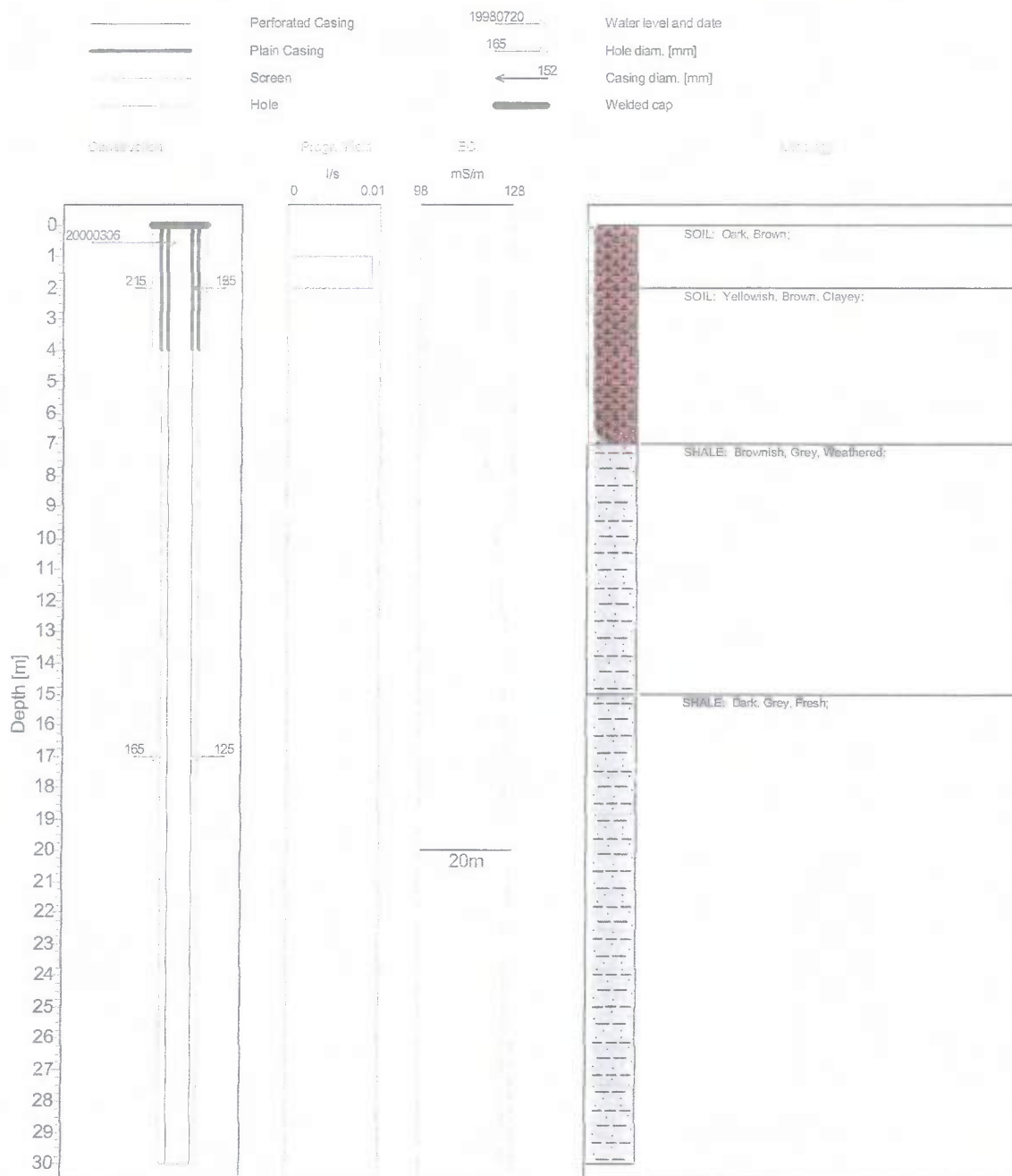
Use applic.: Industrial - industrial

Diam. [mm]: 110

Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

**Construction and Geohydrological Legend**

COMMENT:

Page 1

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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01061 Number: IVB-D61 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D61

Region Type:

Region Descr.: MATURATION PONDS, BIRDPARK

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -83228.09                | Reg./BB.: CS12 | Topo-set.: Along dam, lake or swamp  | Depth [m]: 36.00   |
| X Coord. [m]: 2947247.46999            | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.30 |
| Altitude [m]: 1513.52                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 110    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 4.00                | 215           | 19990419    |         |
| JMA        | 4.00             | 36.00               | 165           | 19990419    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19990419   | 0.00            | 4.00     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19990419   | 0.00            | 36.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 6.00     | QUARTZITE      | Grey           | Light     |         | Fractured       |           |
| 6.00         | 21.00    | SANDSTONE      | Grey           | Light     | Fine    | Fresh           |           |
| 21.00        | 28.00    | SANDSTONE      | Brown          | Light     |         | Weathered       |           |
| 28.00        | 29.00    | SANDSTONE      | Grey           | Light     | Fine    | Fresh           |           |
| 29.00        | 36.00    | SANDSTONE      | Brown          | Yellowish |         | Weathered       |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000224   | 1357       | 0.00 | 2.77           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1405       | 0.00 | 3.32           |         |
| Electrical contact | Static       | 0     | Field checked | 20000911   | 1514       | 0.00 | 3.80           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001113   | 1355       | 0.00 | 3.79           |         |
| Electrical contact | Static       | 0     | Field checked | 20010208   | 1315       | 0.00 | 4.73           |         |
| Electrical contact | Static       | 0     | Field checked | 20010302   | 0832       | 0.00 | 3.25           |         |
| Electrical contact | Static       | 0     | Field checked | 20010831   | 0835       | 0.00 | 2.68           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010302     | 1800       | 0                  | 0                | 0          | 0 0 0           | 0                          | 0.017       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 5/31/02

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01061 Number: IVB-D61

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D61

Y Coord. [m]: -83228.090

X Coord. [m]: 2947247.47

Altitude [m]: 1513.52

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: MP 1

Topo-set.: Along dam, lake or swamp

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 36.00

Collar h. [m]: 0.30

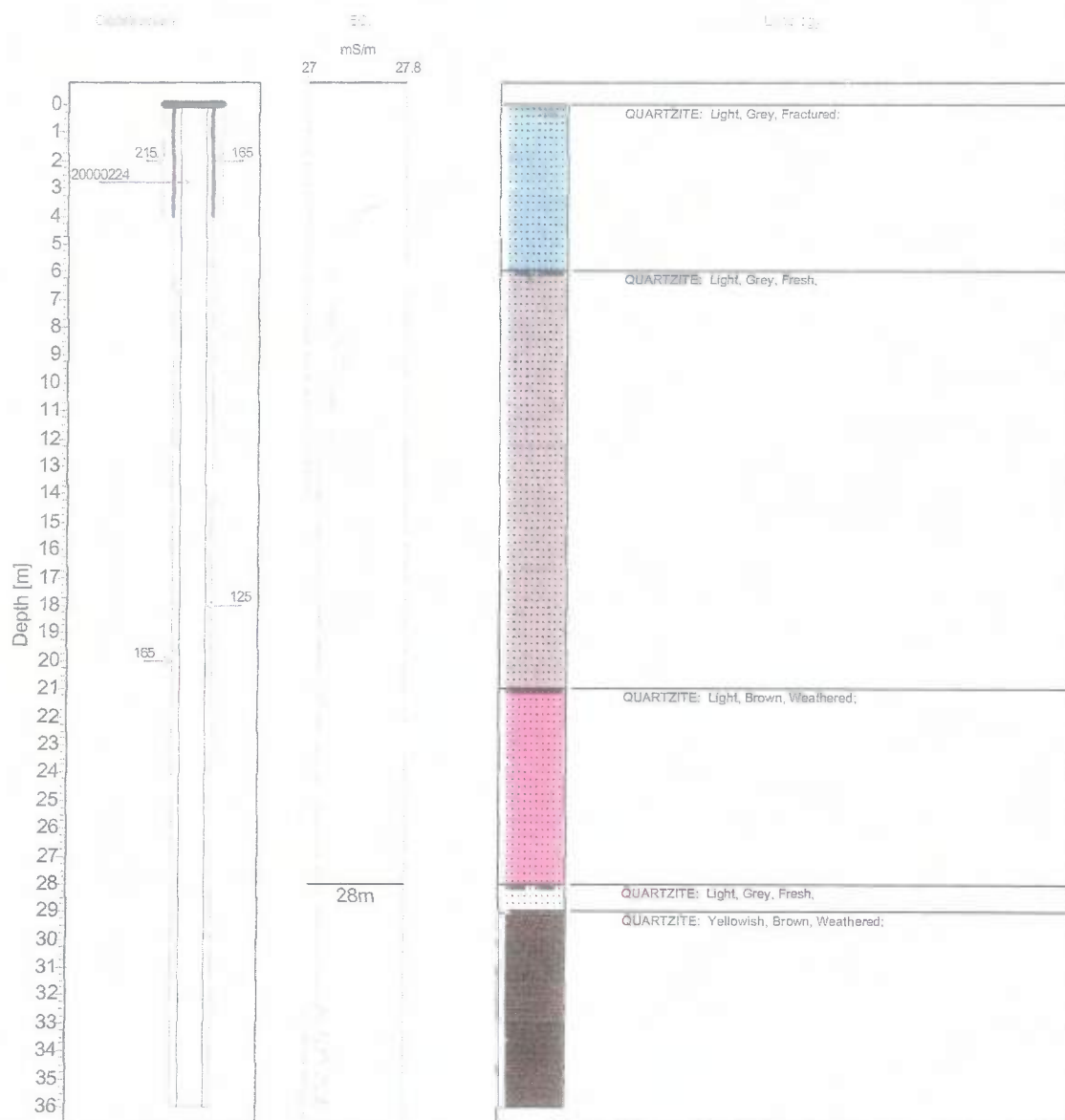
Drain. reg.: C220

Diam. [mm]: 110

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19930720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01062 Number: IVB-D62

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D62

Region Type:

Region Desc.: MILL PLANT/ UNCOATED PRODUCTS/ LURGI

Y Coord. [m]: -82354.626

Reg.IBB.: CP01

Topo-set.: Hillside (slope)

Depth [m]: 43.00

X Coord. [m]: 2950186.631

G-Nr.:

Site status: In use

Col. ht. [m]: 0.43

Altitude [m]: 1495.25

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 110

Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 4.00                | 215           | 19990317    |         |
| JMA        | 4.00             | 43.00               | 165           | 19990317    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19990317   | 0.00            | 4.00     | 125        | PVC      | 3            |                       |        |       |             |             |
| 19990317   | 4.00            | 43.00    | 125        | PVC      | 5            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source | Comment |
|------------|------------------|----------|-------------|--------------|--------------|-------------|---------|
|            | 30.00            | 36.00    | 0.05        | Estimated    |              |             |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.50     | CLAY           | Brown          | Orange    |         |                 |           |
| 3.50         | 7.00     | SOIL           | Brown          | Yellowish |         | Clayey          |           |
| 7.00         | 15.00    | SHALE          | Brown          | Yellowish |         | Weathered       |           |
| 15.00        | 19.00    | SANDSTONE      | Grey           | Light     | Fine    | Weathered       |           |
| 19.00        | 22.00    | SHALE          | Brown          | Yellowish |         | Weathered       |           |
| 22.00        | 30.00    | SHALE          | Brown          | Olive     |         | Weathered       |           |
| 30.00        | 31.00    | DOLERITE       | Brown          | Greyish   |         | Weathered       |           |
| 31.00        | 43.00    | DOLERITE       | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000306   | 1416       | 0.00 | 4.34           |         |
| Electrical contact | Static       | 0     |               | 20000728   | 1327       | 0.00 | 4.67           |         |
| Electrical contact | Static       | 0     |               | 20000814   | 0810       | 0.00 | 5.03           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001116   | 0952       | 0.00 | 3.13           |         |
| Electrical contact | Static       | 0     | Field checked | 20010116   | 1112       |      | 3.16           |         |
| Electrical contact | Static       | 0     | Field checked | 20010514   | 1436       | 0.00 | 5.08           |         |
| Electrical contact | Static       | 0     | Field checked | 20011004   | 1530       | 0.00 | 5.01           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010306     | 300        | 0                  | 0                 | 0          | 0           | 0                          | 0.153       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 5/31/02

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01062 Number: IVB-D62

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D62

Y Coord. [m]: -82157.270

Alt. No. 1:

Topo-set.: Hillside (slope)

Depth [m]: 43.00

X Coord. [m]: 2950352.28

Alt. No. 2: HMS4EP

Site status: In use

Collar h. [m]: 0.43

Altitude [m]: 1495.25

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 110

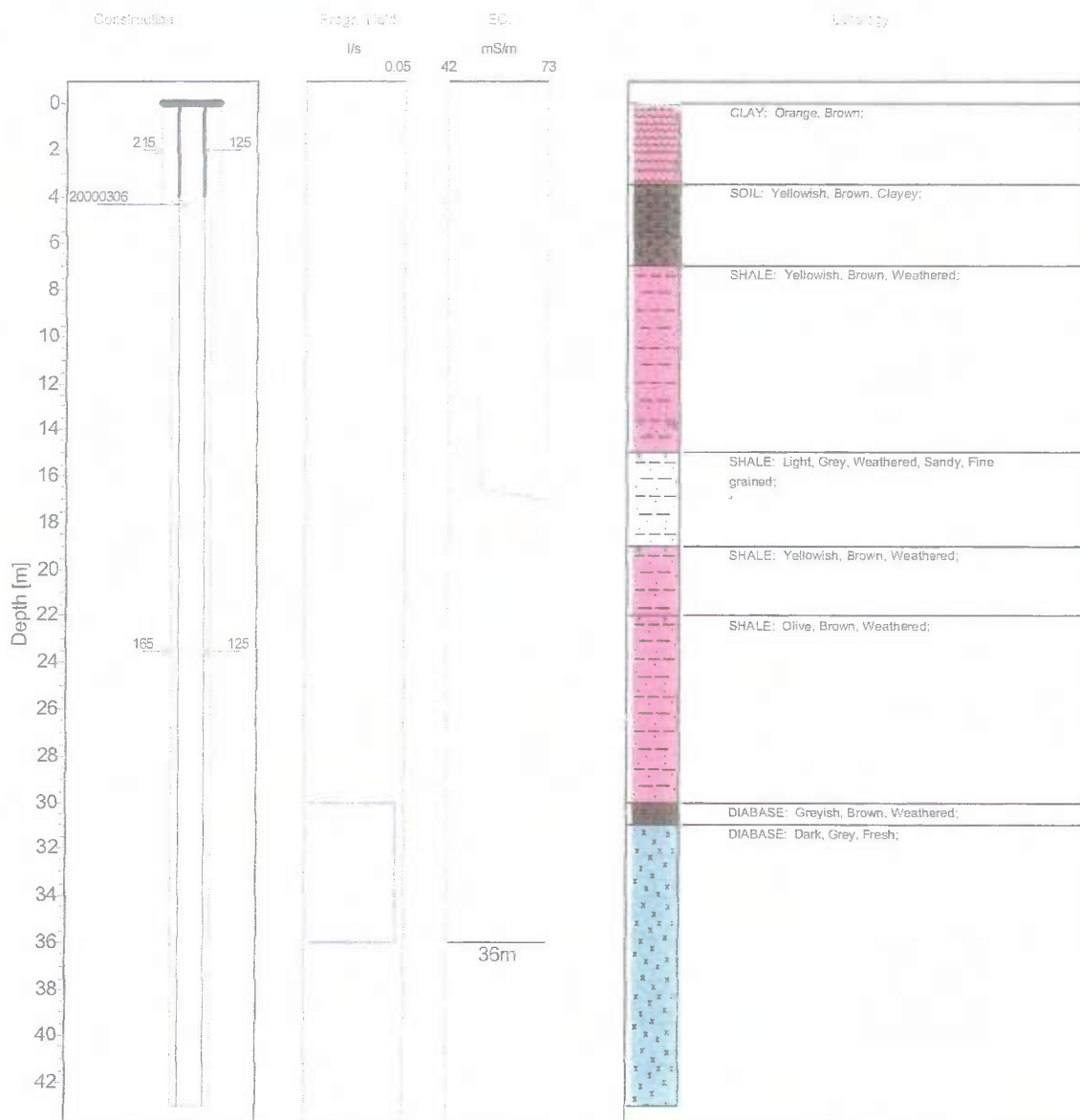
Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19980720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01063 Number: IVB-D63 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D63

Region Type:

Region Descr.: NEAR HECKETT'S 1/ELECTRO SLAG

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80381.15                 | Reg./BB.: SM03 | Topo-set.: Flat surface, plain       | Depth [m]:    | 37.00 |
| X Coord. [m]: | 2950939.25999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.39  |
| Altitude [m]: | 1490.69                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 110   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 4.00                | 215           | 19990420    |         |
| JMA        | 4.00             | 37.00               | 165           | 19990420    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19990420   | 0.00            | 4.00     | 125        | PVC      | 3            |                       |        |       |             |             |
| 19990420   | 0.00            | 4.00     | 165        | Steel    | 3            |                       |        |       |             |             |
| 19990420   | 4.00            | 36.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 29.00            | 30.00    | 1.39        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          |           |         | Clayey          |           |
| 2.00         | 7.00     | SOIL           | Brown          | Olive     |         | Clayey          |           |
| 7.00         | 14.00    | DIABASE        | Grey           | Brownish  |         | Weathered       |           |
| 14.00        | 18.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
| 18.00        | 29.00    | DIABASE        |                |           |         |                 |           |
| 29.00        | 30.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |
| 30.00        | 36.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1609       | 0.00 | 1.84           |         |
| Electrical contact | Static       | 0     | Field checked | 20000512   | 1555       | 0.00 | 1.46           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1333       | 0.00 | 2.12           |         |
| Electrical contact | Static       | 0     |               | 20000814   | 0813       | 0.00 | 1.81           |         |
| Electrical contact | Static       | 0     | Field checked | 20000905   | 1532       | 0.00 | 2.16           |         |
| Electrical contact | Static       | 0     | Geologist,    | 20001114   | 1319       | 0.00 | 1.75           |         |
| Electrical contact | Static       | 0     | Field checked | 20010116   | 0730       |      | 1.88           |         |
| Electrical contact | Static       | 0     | Field checked | 20010302   | 1053       | 0.00 | 1.85           |         |
| Electrical contact | Static       | 0     | Field checked | 20010810   | 1140       | 0.00 | 2.26           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010308     | 150        | 0                  | 0                 | 0          | 0 0 0 0     | 0                          | 0.47        | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01063 Number: IVB-D63 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D63

Y Coord. [m]: -80381.160

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 37.00

X Coord. [m]: 2950939.26

Alt. No. 2: EAF-1

Site status: In use

Collar h. [m]: 0.39

Altitude [m]: 1490.69

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - Industrial

Diam. [mm]: 110

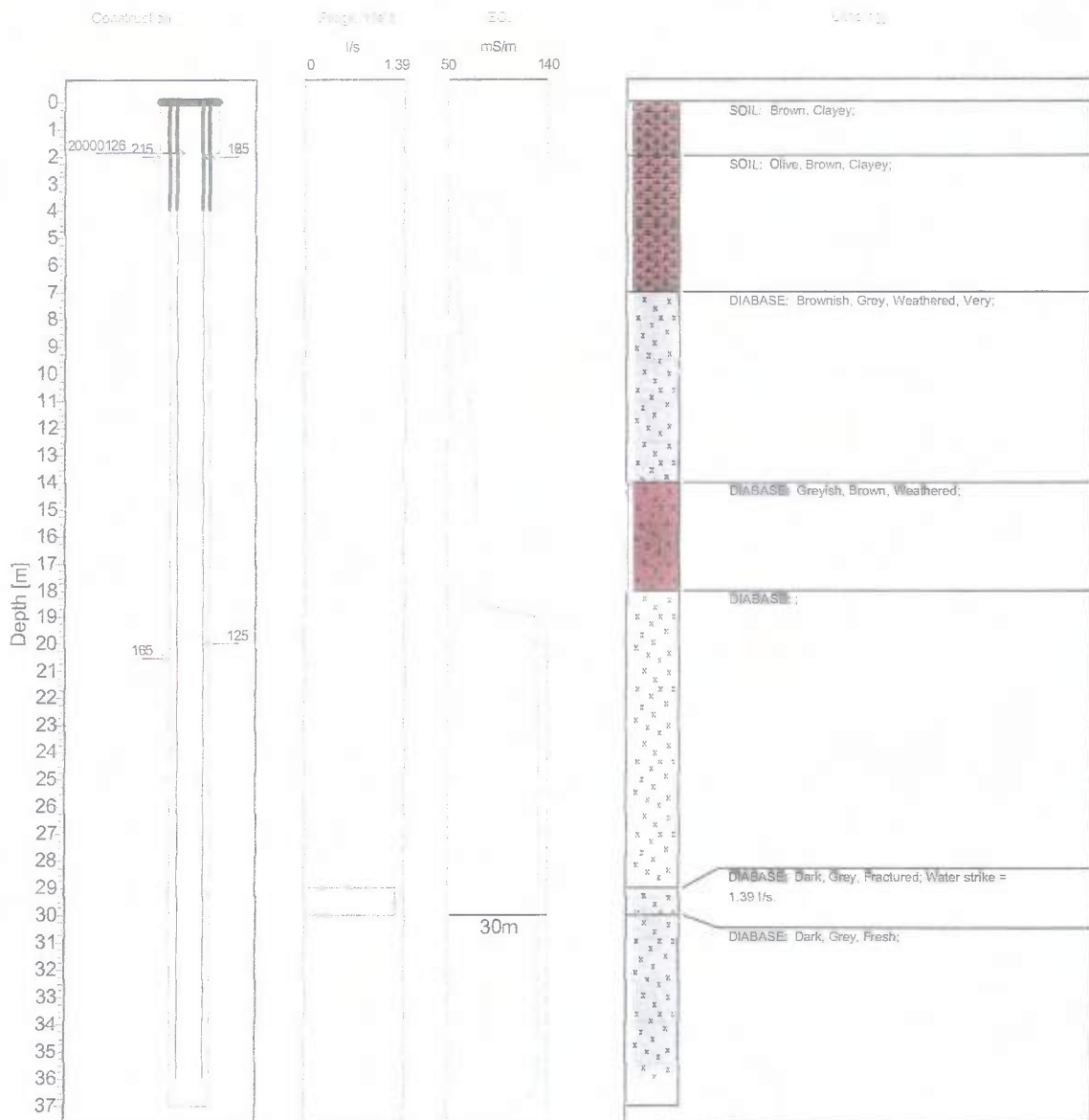
Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geo-hydrological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19980720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



COMMENT:



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01064 Number: IVB-D64 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D64

Region Type:

Region Descr.: AT LEEU SPRUIT DAM (EAS-6)

|               |                           |                 |                                      |               |       |
|---------------|---------------------------|-----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -83398.141                | Reg./IBB.: CS21 | Topo-set.: Flat surface, plain       | Depth [m]:    | 18.00 |
| X Coord. [m]: | 2950541.378               | G-Nr.:          | Site status: In use                  | Col. ht. [m]: | 0.41  |
| Altitude [m]: | 1480.22                   |                 | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                 | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Levelled or surveyed      |                 | Equipment: No equipment              | Rep. inst.:   | JMA   |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 18.00               | 214           | 19971003    |         |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19971003   | 0.00            | 1.00     | 125        | PVC      | 3            |                       | 0      | 0     | 0           | 0           |
| 19971003   | 1.00            | 18.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Dark      |         | Clayey          |           |
| 1.00         | 6.00     | SHALE          | Green          | Orange    |         |                 |           |
| 6.00         | 11.00    | SILTSTONE      | Brown          | Greenish  |         |                 |           |
| 11.00        | 18.00    | SILTSTONE      | Brown          | Greenish  |         |                 |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment  |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|----------|
| Electrical contact | Static       | 0     |               | 20000126   | 1547       | 0.00 | 0.68           |          |
| Electrical contact | Static       | 0     | Field checked | 20000905   | 1536       | 0.00 | 1.19           |          |
| Electrical contact | Static       | 0     | Geologist,    | 20001114   | 1413       | 0.00 | 1.47           |          |
| Electrical contact | Static       | 0     | Field checked | 20010116   | 0937       |      | 1.22           |          |
| Electrical contact | Static       | 0     | Field checked | 20010508   | 1426       | 0.00 | 0.76           |          |
| Electrical contact | Static       | 0     | Field checked | 20010820   | 1107       | 0.00 | 1.28           |          |
| Electrical contact | Static       | 0     | Field checked | 20011009   | 1730       | 0.00 | 1.43           | SLUGTEST |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20011009     | 1500       | 0                  |                  |            |                 |                            | 0.002       |         |         |

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# Borehole Construction and Geological Log

Date compiled: 5/31/02

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01064 Number: IVB-D64

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D64

Y Coord. [m]: -83398.141

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 18.00

X Coord. [m]: 2950541.38

Alt. No. 2: HS-6S

Site status: In use

Collar h. [m]: 0.41

Altitude [m]: 1480.22

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 125

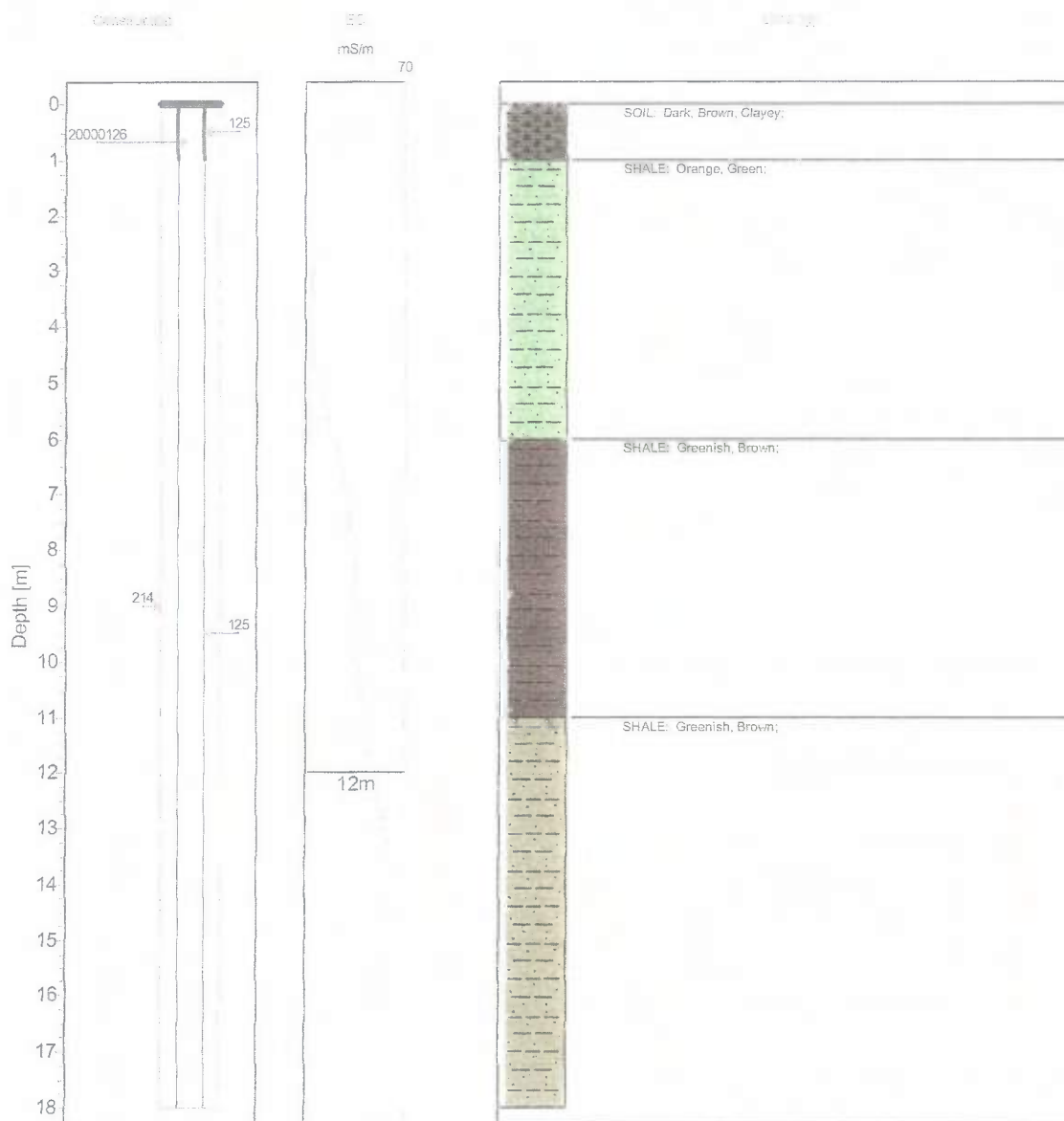
Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend

|  |                   |  |                      |
|--|-------------------|--|----------------------|
|  | Perforated Casing |  | Water level and date |
|  | Plain Casing      |  | Hole diam. [mm]      |
|  | Screen            |  | Casing diam. [mm]    |
|  | Hole              |  | Welded cap           |



COMMENT:

Page 1

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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01065 Number: IVB-D65

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D65

Region Type:

Region Desc.: WESTERN BOUNDARY - BOF SLUDGE DAMS

Y Coord. [m]: -80380.89

Reg./BB.: CS07

Topo-set.: Flat surface, plain

Depth [m]: 34.00

X Coord. [m]: 2948344.16999

G-Nr.:

Site status: In use

Col. ht. [m]: 6.00

Altitude [m]: 1499.54

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 125

Coord. meth.: Levelled or surveyed

Equipment: No equipment

Rep. inst.: JMA

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 12.00               | 215           | 19980610    |         |
| JMA        | 12.00            | 34.00               | 165           | 19980610    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 19980610   | 0.00            | 12.00    | 165        | Steel    | 3            |              |        |       |             |             |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 17.00            | 18.00    | 0.11        | Estimated    | Fractured    | Report or file |         |
| JMA        | 32.00            | 33.00    | 0.28        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | OVERBURDEN     |                |           |         |                 |           |
| 3.00         | 6.00     | DIABASE        | Black          |           |         | Weathered       |           |
| 6.00         | 12.00    | DIABASE        | Grey           | Dark      |         | Weathered       |           |
| 12.00        | 17.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
| 17.00        | 18.00    | DIABASE        | Brown          | Greyish   |         | Fractured       |           |
| 18.00        | 32.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |
| 32.00        | 33.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |
| 33.00        | 34.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|-------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |             | 20000126   | 1516       | 0.00 | 5.70           | CH 0.27 |

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# Borehole Construction and Geological Log

Date compiled: 11/6/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01065 Number: IVB-D65

Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D65

Y Coord. [m]: -80380.890

X Coord. [m]: 2948344.17

Altitude [m]: 1499.54

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: T 11

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 34.00

Collar h. [m]: 6.00

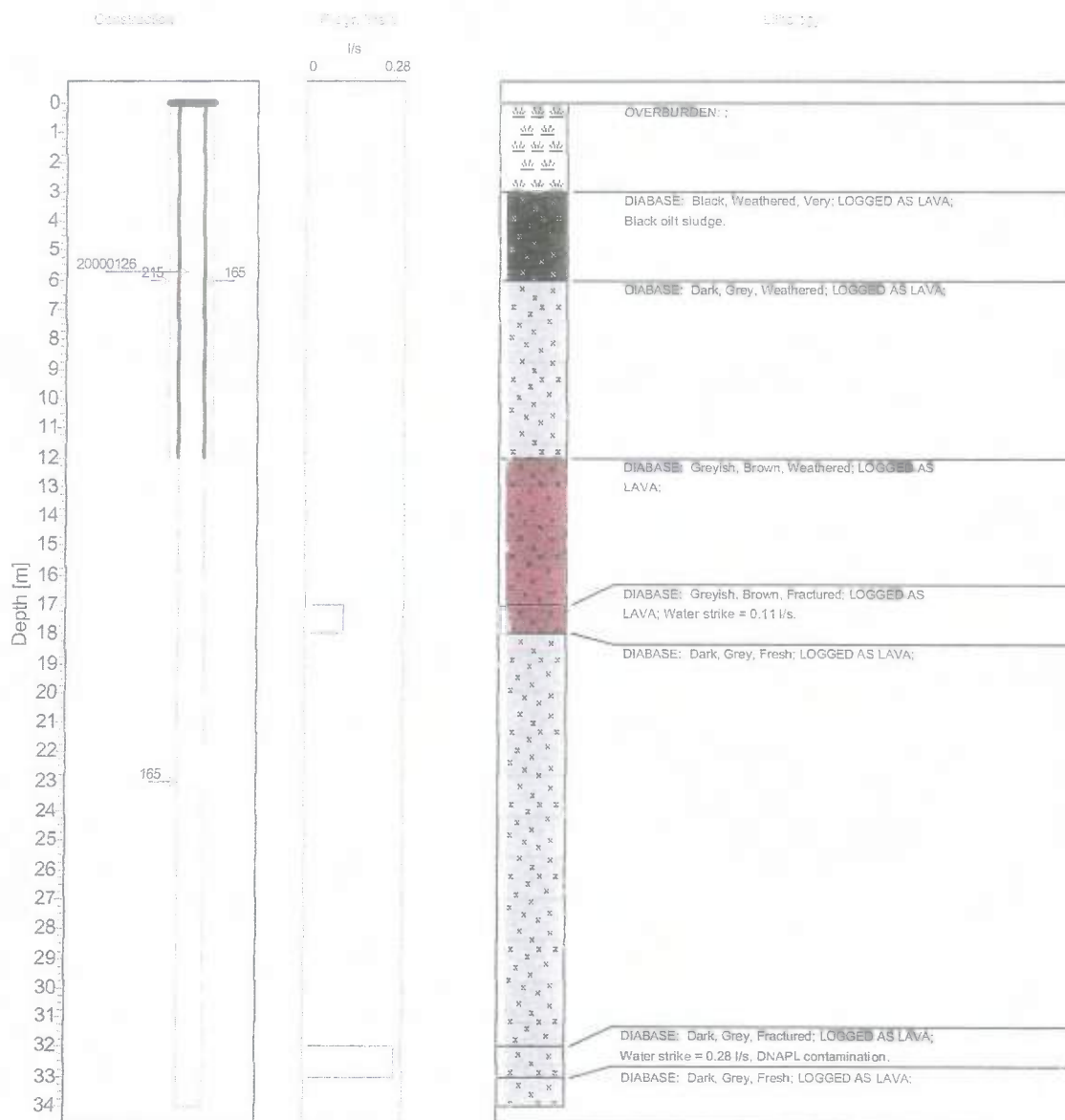
Drain. reg.: C220

Diam. [mm]: 125

Rep. inst.: JMA

## Construction and Geology Log Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19980720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01066 Number: IVB-D66 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D66

Region Type:

Region Descr.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80383                    | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 24.00 |
| X Coord. [m]: | 2948407.74999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 6.00  |
| Altitude [m]: | 1498.95                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 12.00               | 215           | 19980610    |         |
| JMA            | 12.00            | 24.00               | 155           | 19980610    |         |

| CASING DETAILS: | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 19980610        | 0.00            | 12.00    | 155        | Steel    | 3            |              |        |       |             |             |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 4.00     | RUBBLE         |                |           |         |                 |           |
|          | 4.00         | 17.00    | CLAY           | Brown          | Greyish   |         |                 |           |
|          | 17.00        | 21.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
|          | 21.00        | 24.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. Info source | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------|--------------------|--------------|-------------------|------------|------------|------|----------------|---------|
|              | Electrical contact | Static       | 0                 | 20000126   | 1515       | 0.00 | 5.94           | CH 0.82 |

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**Borehole Construction and Geological Log**

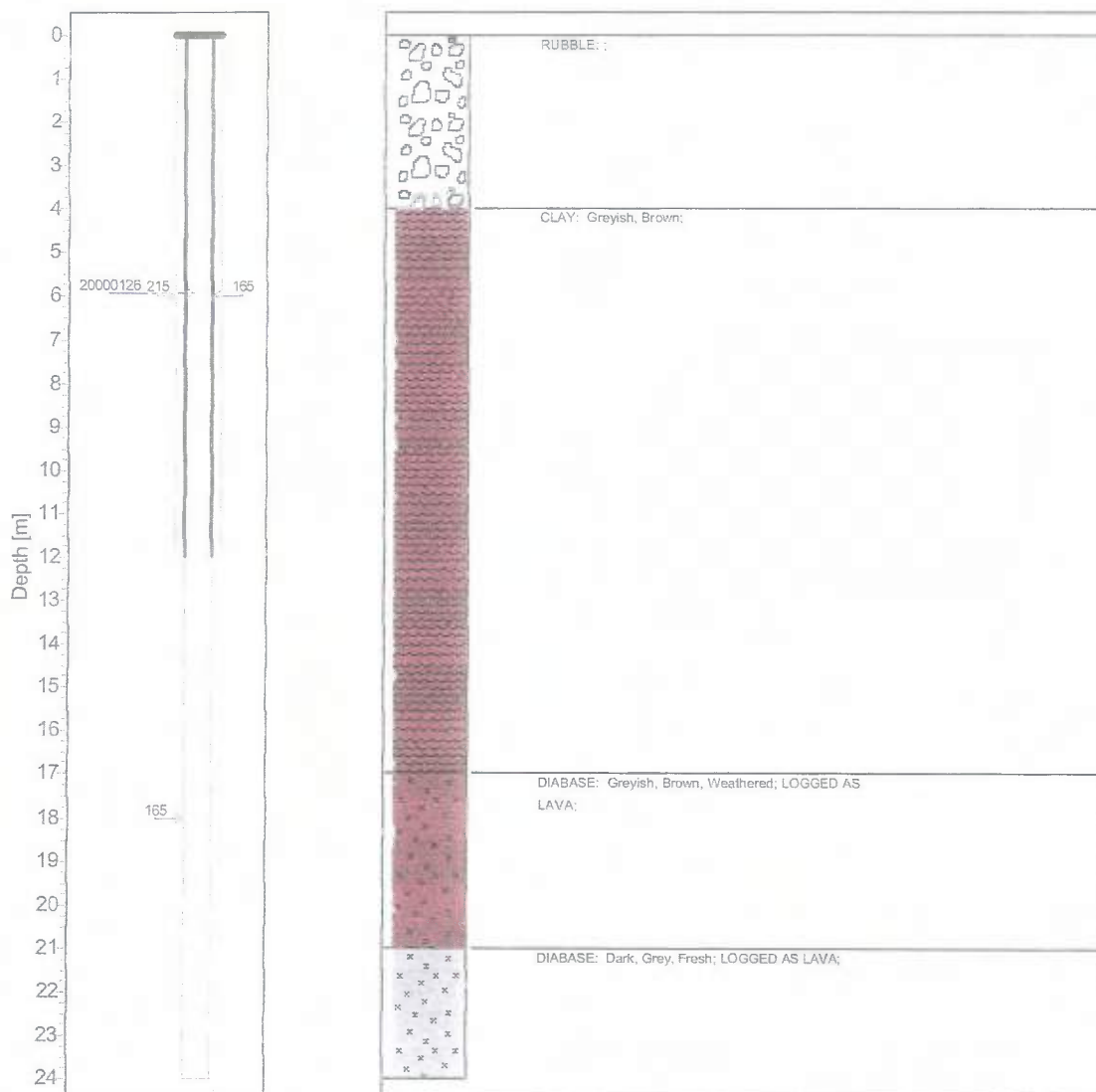
Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01066 Number: IVB-D66 Site type: Borehole  
Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D66

|                                        |                  |                                      |                     |
|----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80383.000               | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 24.00    |
| X Coord. [m]: 2948407.75               | Alt. No. 2: T 12 | Site status: In use                  | Collar h. [m]: 6.00 |
| Altitude [m]: 1498.95                  |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                  | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                  | Equipment: No equipment              | Rep. Inst.: JMA     |

**Construction and Geohydrological Legend**

|                                                                                   |                   |                                                                                   |                      |
|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|----------------------|
|  | Perforated Casing |  | Water level and date |
|  | Plain Casing      |  | Hole diam. [mm]      |
|  | Screen            |  | Casing diam. [mm]    |
|  | Hole              |  | Welded cap           |



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01067 Number: IVB-D67 Site type: Borehole

Distr./Farm No.: ISCOR

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D67

Region Type:

Region Desc.: WESTERN BOUNDARY - BOF SLUDGE DAMS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80397.5                  | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 42.00 |
| X Coord. [m]: | 2948152.40999             | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.45  |
| Altitude [m]: | 1494.96                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Levelled or surveyed      |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20001204    | EDMS       | Air percussion | Open bottom |                    |                   |              |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 11.00               | 215           | 19980611    |         |
| JMA        | 11.00            | 42.00               | 165           | 19980611    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 19980611   | 0.00            | 11.00    | 165        | Steel    | 3            |              |        |       |             |             |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 24.00            | 25.00    | 0.01        | Estimated    |              | Report or file |         |
| JMA        | 31.00            | 32.50    | 0.42        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | RUBBLE         |                |           |         |                 |           |
| 3.00         | 11.00    | CLAY           | Grey           | Dark      |         |                 |           |
| 11.00        | 24.00    | DIABASE        | Brown          | Olive     |         | Weathered       |           |
| 24.00        | 25.00    | DIABASE        | Brown          | Olive     |         |                 |           |
| 25.00        | 28.00    | DIABASE        | Brown          | Olive     |         | Weathered       |           |
| 28.00        | 31.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |
| 31.00        | 32.50    | DIABASE        | Grey           | Dark      |         | Fractured       |           |
| 32.50        | 41.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |
| 41.00        | 42.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000126   | 1515       | 0.00 | 4.00           |         |
| Electrical contact | Static       | 0     |               | 20000727   | 1221       | 0.00 | 4.10           |         |
| Electrical contact | Static       | 0     | Field checked | 20010115   | 1240       |      | 4.17           |         |
| Electrical contact | Static       | 0     | Field checked | 20010301   | 1005       | 0.00 | 4.07           |         |
| Electrical contact | Static       | 0     | Field checked | 20010827   | 0950       | 0.00 | 4.30           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % | Trans. [m³/d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---|---------------|-------------|---------|---------|
| SLUGTEST    | 20010301     | 180        | 0                  | 0                 | 0          | 0             | 0 | 0             | 0.58        | 0       |         |

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# Borehole Construction and Geological Log

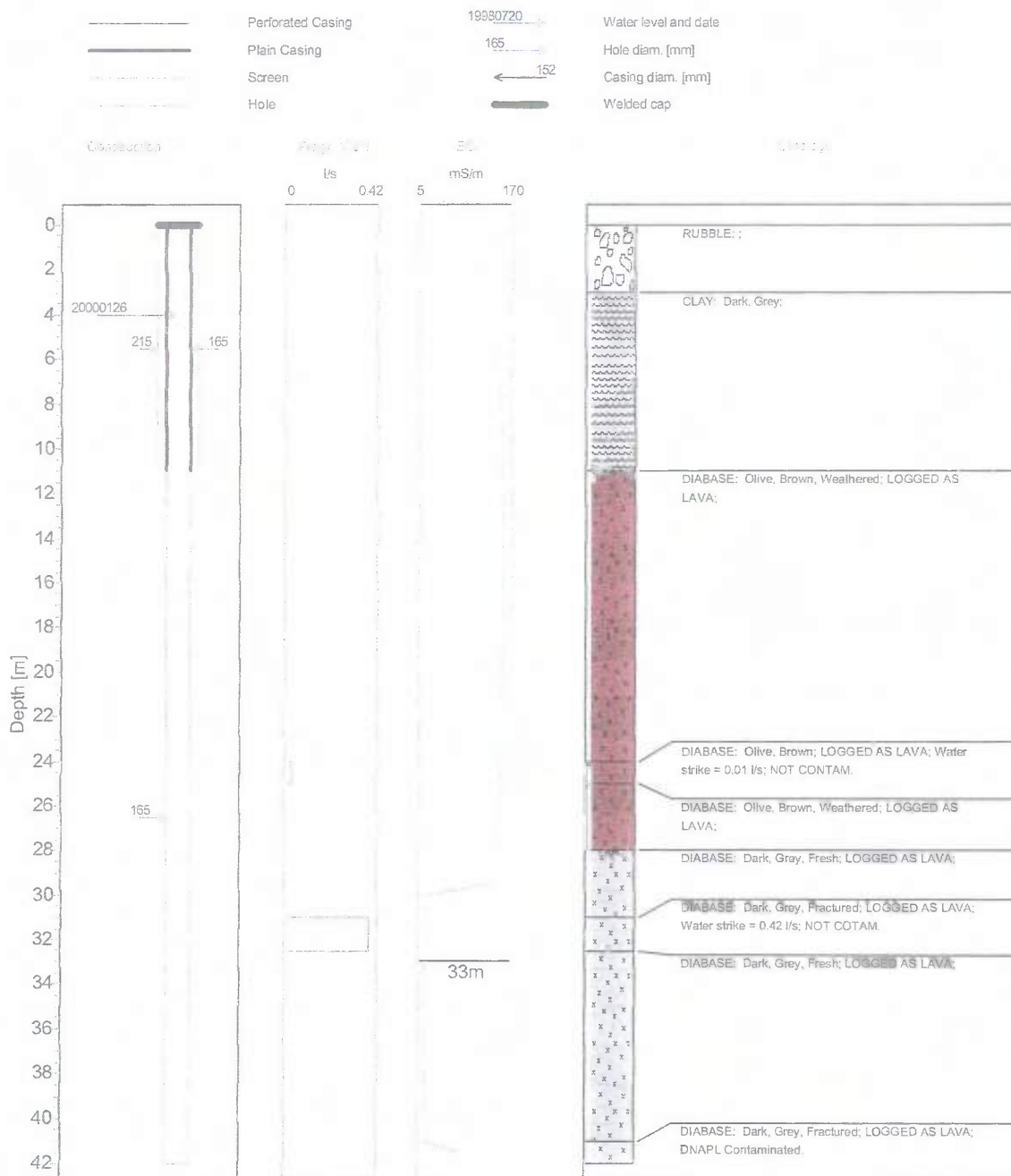
Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01067 Number: IVB-D67 Site type: Borehole

Distr./Farm No.: ISCOR Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D67

|                                        |                  |                                      |                     |
|----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80397.500               | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 42.00    |
| X Coord. [m]: 2948152.41               | Alt. No. 2: T 10 | Site status: In use                  | Collar h. [m]: 0.45 |
| Altitude [m]: 1494.96                  |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                  | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01068 Number: IVB-D68 Site type: Borehole

Distr./Farm No.: 551 IQ

Site Name/Des.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D68

Region Type:

Region Descr.: FARM LAND - WESTERN BOUNDARY

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79203.43                | Reg./BB.: FARM | Topo-set.: Hillside (slope)          | Depth [m]: 42.00   |
| X Coord. [m]: 2948816.6                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.23 |
| Altitude [m]: 1483.00                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 215    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|----------------|------------------|---------------------|---------------|-------------|---------|
| JMA            | 0.00             | 42.00               | 215           | 19961010    |         |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
|                 | 19961010   | 0.00            | 22.00    | 125        | PVC      | 3            |                       |        |       |             |             |
|                 | 19961010   | 22.00           | 42.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

| AQUIFER: | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|----------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA      | 16.00            | 32.00    | 0.30        | Estimated    | Fractured    | Report or file |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 1.00     | SAND           | Brown          | Greyish   |         | Clayey          | Loose     |
|          | 1.00         | 6.00     | SILT           | Brown          | Reddish   |         | Clayey          |           |
|          | 6.00         | 16.00    | DIABASE        | Brown          | Yellowish |         | Jointed         | Weathered |
|          | 16.00        | 25.00    | DIABASE        | Yellow         | Greenish  |         | Weathered       | Fractured |
|          | 25.00        | 36.00    | DIABASE        | Grey           |           |         | Fractured       | Fractured |
|          | 36.00        | 42.00    | DIABASE        | Grey           | Bluish    |         | Fresh           |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
|              | Electrical contact | Static       | 0     |               | 20000202   | 1440       | 0.00 | 4.37           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20000507   | 1550       | 0.00 | 3.32           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20000614   | 1557       | 0.00 | 3.70           |         |
|              | Electrical contact | Static       | 0     |               | 20000731   | 0912       | 0.00 | 4.61           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20000905   | 1526       | 0.00 | 4.00           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20000927   | 1052       | 0.00 | 4.01           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010117   | 1400       |      | 2.93           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010302   | 1340       | 0.00 | 3.39           |         |
|              | Electrical contact | Static       | 0     | Field checked | 20010822   | 0738       | 0.00 | 4.77           |         |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % [min] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|------------------|--------------|------------|--------------------|-------------------|------------|-------------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20010222     | 900        | 0                  | 0                 | 0          | 0 0 0             | 0                          | 0.345       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01068 Number: IVB-D68

Site type: Borehole

Distr./Farm No.: 551 IQ

Site Name/Descr.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D68

Y Coord. [m]: -79203.430

X Coord. [m]: 2948816.60

Altitude [m]: 1483.00

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Levelled or surveyed

Alt. No. 1:

Alt. No. 2: RT 4

Topo-set.: Hillside (slope)

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 42.00

Collar h. [m]: 0.23

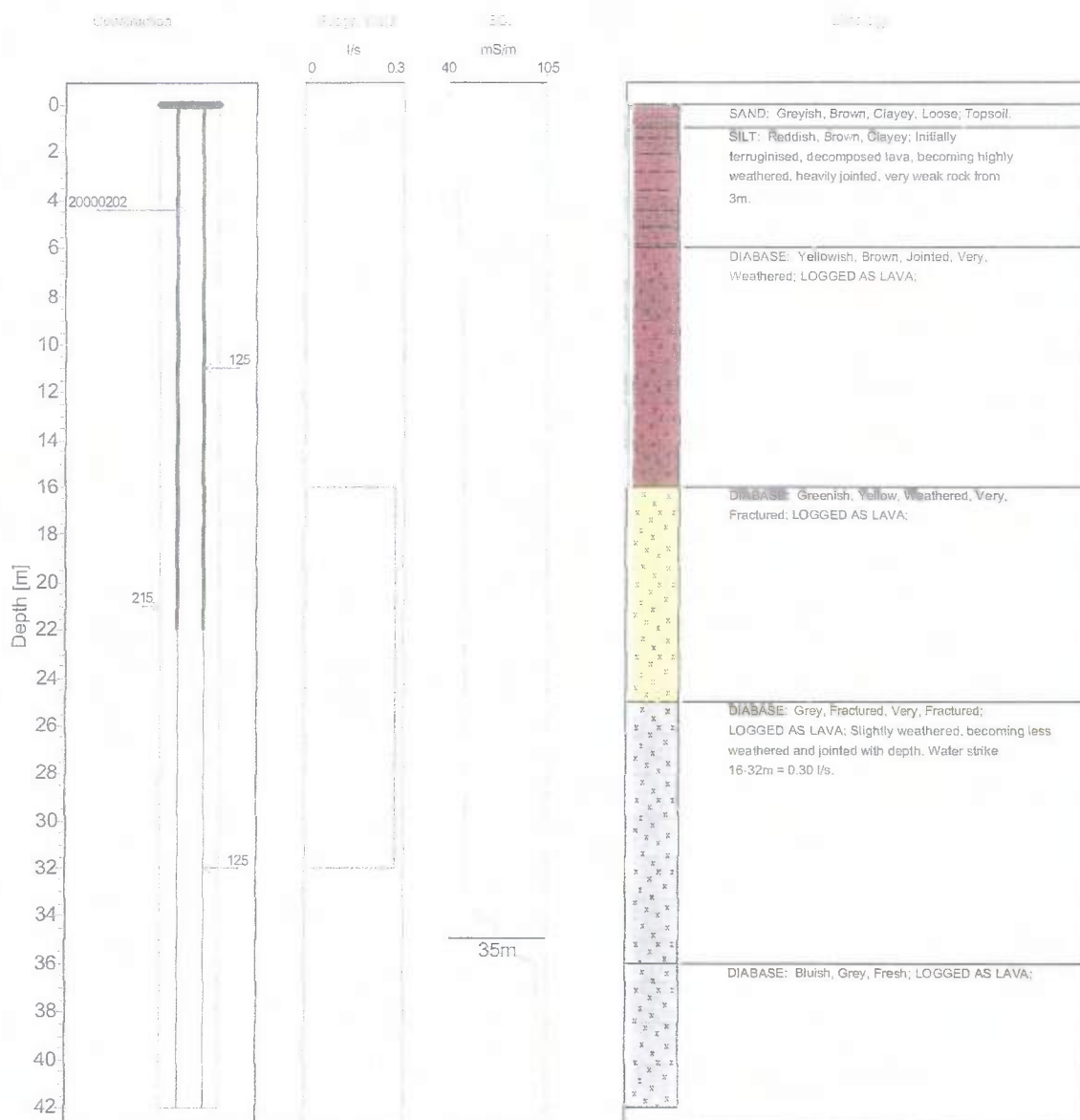
Drain. reg.: C220

Diam. [mm]: 215

Rep. inst.: JMA

## Construction and Geological Legend

|  |                   |          |                      |
|--|-------------------|----------|----------------------|
|  | Perforated Casing | 19990720 | Water level and date |
|  | Plain Casing      | 165      | Hole diam. [mm]      |
|  | Screen            | 152      | Casing diam. [mm]    |
|  | Hole              |          | Welded cap           |



COMMENT:



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Page 1

# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01069 Number: IVB-D69 Site type: Borehole

Distr./Farm No.: 551 IQ

Site Name/Des.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D69

Region Type:

Region Desc.: FARM LAND - WESTERN BOUNDARY

|                                        |                |                                      |                    |
|----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -79233.74                | Reg.IBB.: FARM | Topo-set.: Hillside (slope)          | Depth [m]: 31.00   |
| X Coord. [m]: 2949353.74               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.29 |
| Altitude [m]: 1479.88                  |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]: 125    |
| Coord. meth.: Levelled or surveyed     |                | Equipment: No equipment              | Rep. inst.: JMA    |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment |
|------------|------------------|---------------------|---------------|-------------|---------|
| JMA        | 0.00             | 31.00               | 165           | 19961010    |         |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 19961010   | 0.00            | 10.00    | 125        | PVC      | 3            |                       |        |       |             |             |
| 19961010   | 10.00           | 31.00    | 125        | PVC      | 6            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source    | Comment |
|------------|------------------|----------|-------------|--------------|--------------|----------------|---------|
| JMA        | 19.00            | 25.00    | 1.50        | Estimated    | Fractured    | Report or file |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SAND           | Brown          |           |         | Clayey          | Loose     |
| 2.00         | 5.00     | SILT           | Yellow         | Light     |         | Clayey          |           |
| 5.00         | 19.00    | DIABASE        | Yellow         |           |         | Weathered       | Weathered |
| 19.00        | 25.00    | SHALE          | Grey           | Light     |         | Fractured       | Jointed   |
| 25.00        | 31.00    | SHALE          | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     |               | 20000301   | 1420       | 0.00 | 7.57           |         |
| Electrical contact | Static       | 0     | Field checked | 20000507   | 1544       | 0.00 | 6.80           |         |
| Electrical contact | Static       | 0     | Field checked | 20000614   | 1556       | 0.00 | 7.60           |         |
| Electrical contact | Static       | 0     |               | 20000731   | 0907       | 0.00 | 7.45           |         |
| Electrical contact | Static       | 0     | Field checked | 20000905   | 1525       | 0.00 | 7.85           |         |
| Electrical contact | Static       | 0     | Field checked | 20000927   | 1050       | 0.00 | 8.02           |         |
| Electrical contact | Static       | 0     | Field checked | 20010117   | 1500       |      | 6.85           |         |
| Electrical contact | Static       | 0     | Field checked | 20010302   | 1355       | 0.00 | 7.45           |         |
| Electrical contact | Static       | 0     | Field checked | 20010821   | 1020       | 0.00 | 8.70           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>2</sup> /d] | Perm. [mld] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010222     | 120        | 0                  | 0                 | 0          | 0 0 0 0     | 0                          | 0.893       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01069 Number: IVB-D69 Site type: Borehole  
Distr./Farm No.: 551 IQ Site Name/Descr.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D69

|                                        |                  |                                      |                     |
|----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -79233.740               | Alt. No. 1:      | Topo-set.: Hillside (slope)          | Depth [m]: 31.00    |
| X Coord. [m]: 2949353.74               | Alt. No. 2: RT-2 | Site status: In use                  | Collar h. [m]: 0.29 |
| Altitude [m]: 1479.88                  |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit |                  | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Levelled or surveyed     |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geology Log



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01070 Number: IVB-D70 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D70

Region Type:

Region Desc.: EVAPORATION DAMS 1-4

|                                         |                 |                                      |                    |
|-----------------------------------------|-----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -82681.565                | Reg. IBE.: CS14 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2945598.541               | G-Nr.:          | Site status: In use                  | Col. ht. [m]: 0.45 |
| Altitude [m]: 1502.67                   |                 | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                 | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                 | Equipment: No equipment              | Rep. inst.: JMA    |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special Durat. treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------------------------|--------------|
| 20010509    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with            | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 16.00               | 215           | 20010509    | ROTARY PERC. |
| JMA        | 16.00            | 35.00               | 165           | 20010509    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010509   | 0.00            | 16.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | SOIL           | Grey           | Light     |         | Clayey          |           |
| 3.00         | 5.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 5.00         | 15.00    | MUDSTONE       | Yellow         | Light     |         | Weathered       |           |
| 15.00        | 20.00    | MUDSTONE       | Yellow         | Light     |         | Fresh           | Solid     |
| 20.00        | 25.00    | SANDSTONE      | Brown          |           |         | Weathered       |           |
| 25.00        | 35.00    | SHALE          | Grey           |           |         | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010611   | 1445       | 0.00 | 1.69           | EC LOGGED |
| Electrical contact | Static       | 0     | Field checked | 20010809   | 0730       | 0.00 | 1.93           |           |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 600        | 0                  | 0                | 0          | 0 0 0 0     | 0                          | 0.475       | 0       |         |

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# Borehole Construction and Geological Log

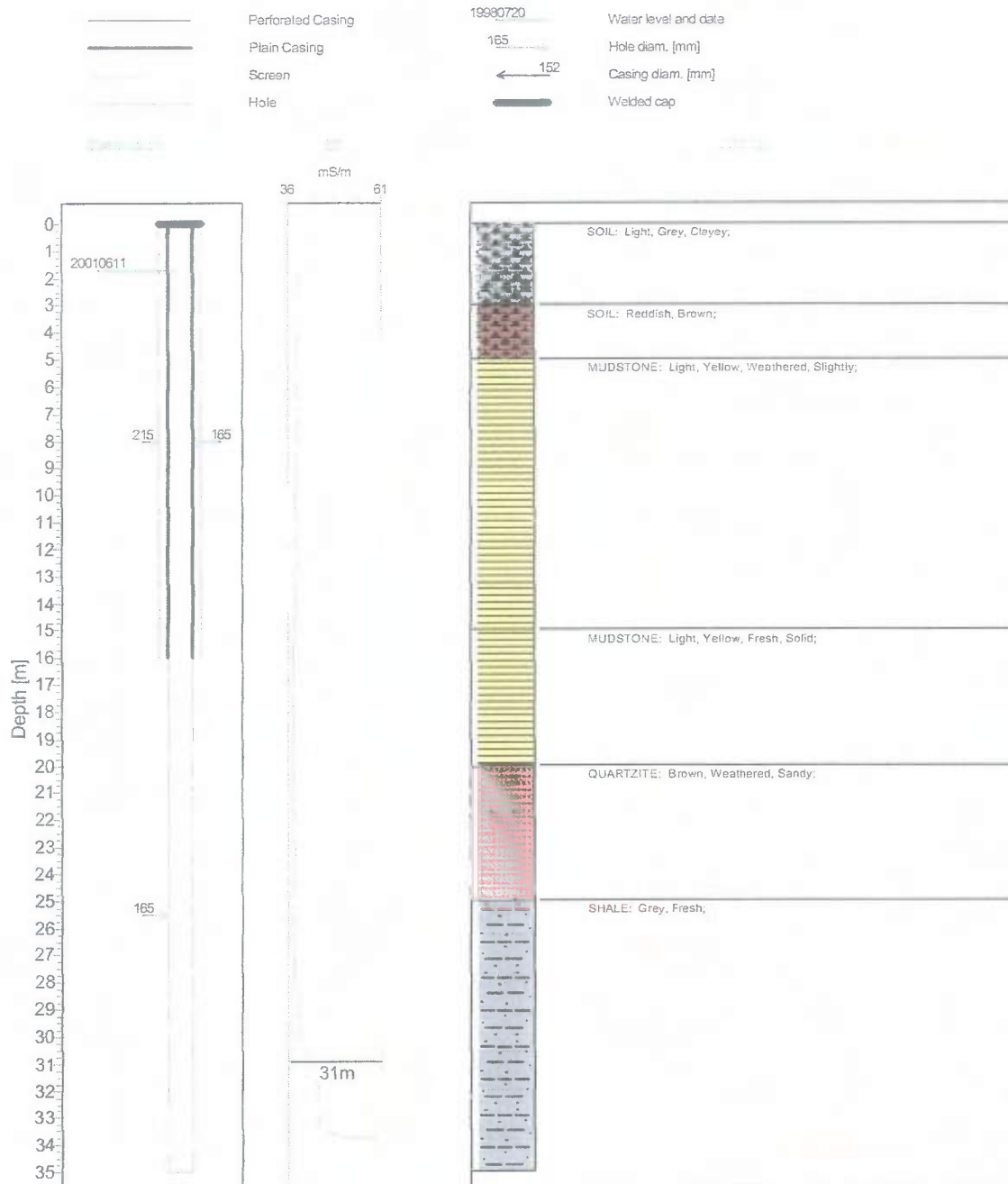
Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01070 Number: IVB-D70 Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D70

|               |                           |             |      |              |                         |                |       |
|---------------|---------------------------|-------------|------|--------------|-------------------------|----------------|-------|
| Y Coord. [m]: | -82681.565                | Alt. No. 1: |      | Topo-set.:   | Flat surface, plain     | Depth [m]:     | 35.00 |
| X Coord. [m]: | 2945598.54                | Alt. No. 2: | G49D | Site status: | In use                  | Collar h. [m]: | 0.45  |
| Altitude [m]: | 1502.67                   |             |      | Site purp.:  | Observation             | Drain. reg.:   | C220  |
| Coord. acc.:  | Accurate to within 1 unit |             |      | Use applic.: | Industrial - industrial | Diam. [mm]:    | 165   |
| Coord. meth.: | Global Positioning System |             |      | Equipment:   | No equipment            | Rep. inst.:    | JMA   |



COMMENT:

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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01071 Number: IVB-D71 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D71

Region Type:

Region Desc.: COAL STACKING

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -81723.977                | Reg.IBB.: IM04 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2948795.14                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.40  |
| Altitude [m]: | 1500.42                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010514    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 13.50               | 215           | 20010514    | ROTARY PERC. |
| JMA        | 13.50            | 35.00               | 165           | 20010514    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010514   | 0.00            | 13.50    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**AQUIFER:**

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 29.00            | 30.00    | 0.30        | Estimated    |              | Geologist, technician, |         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Black          |           |         |                 |           |
| 1.00         | 4.00     | SOIL           | Brown          | Dark      |         | Clayey          |           |
| 4.00         | 13.00    | CLAY           | Brown          |           |         |                 |           |
| 13.00        | 15.00    | SOIL           | Brown          | Light     |         |                 |           |
| 15.00        | 19.00    | SHALE          | Brown          | Light     |         | Weathered       |           |
| 19.00        | 26.00    | SHALE          | Brown          |           |         | Fractured       |           |
| 26.00        | 35.00    | SHALE          | Black          | Greyish   | Fine    | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010522   | 1423       | 0.00 | 1.71           | SLUG TESTED |
| Electrical contact | Static       | 0     | Geologist,    | 20010607   | 1400       | 0.00 | 1.74           | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010816   | 1250       | 0.00 | 1.64           |             |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010625     | 1500       | 0                  | 0                 | 0          | 0             | 0       | 0                          | 0.157       | 0       |         |

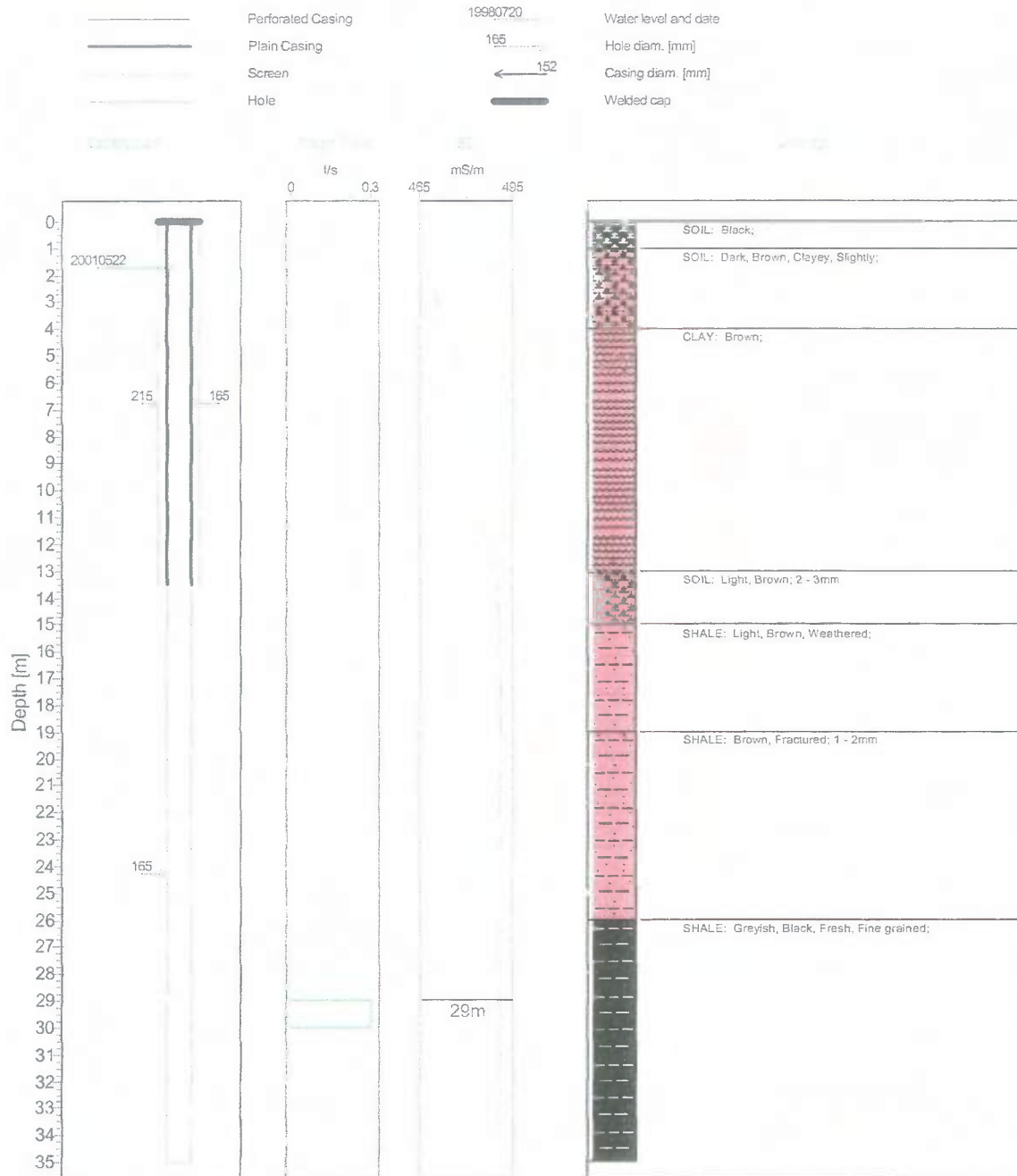
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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01071 Number: IVB-D71 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D71

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -81723.977                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2948795.14                | Alt. No. 2: G48D | Site status: In use                  | Collar h. [m]: 0.40 |
| Altitude [m]: 1500.42                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01072 Number: IVB-D72 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D72

Region Type:

Region Desc.: COAL STACKING

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -81732.765                | Reg.IBB.: IM04 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2949173.498               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.31 |
| Altitude [m]: 1499.31                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. inst.: JMA    |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010515    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 18.00               | 215           | 20010515    | ROTARY PERC. |
| JMA        | 18.00            | 35.00               | 165           | 20010515    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010515   | 0.00            | 18.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**AQUIFER:**

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 30.00            | 31.00    | 0.50        | Estimated    |              | Geologist, technician, |         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Black          |           |         |                 |           |
| 2.00         | 4.00     | CLAY           | Brown          | Dark      |         |                 |           |
| 4.00         | 12.00    | SHALE          | Brown          | Light     |         | Weathered       |           |
| 12.00        | 15.00    | SHALE          | Brown          |           |         | Weathered       |           |
| 15.00        | 18.00    | SHALE          | Brown          | Dark      |         | Fractured       |           |
| 18.00        | 28.00    | SHALE          | Brown          |           | Fine    | Fresh           |           |
| 28.00        | 35.00    | SHALE          | Black          |           | Fine    | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010522   | 1423       | 0.00 | 2.36           | SLUG TESTED |
| Electrical contact | Static       | 0     | Geologist,    | 20010607   | 1317       | 0.00 | 2.45           | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010816   | 1338       | 0.00 | 2.37           |             |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010625     | 1500       | 0                  | 0                | 0          | 0 0 0       | 0                          | 0.103       | 0       |         |

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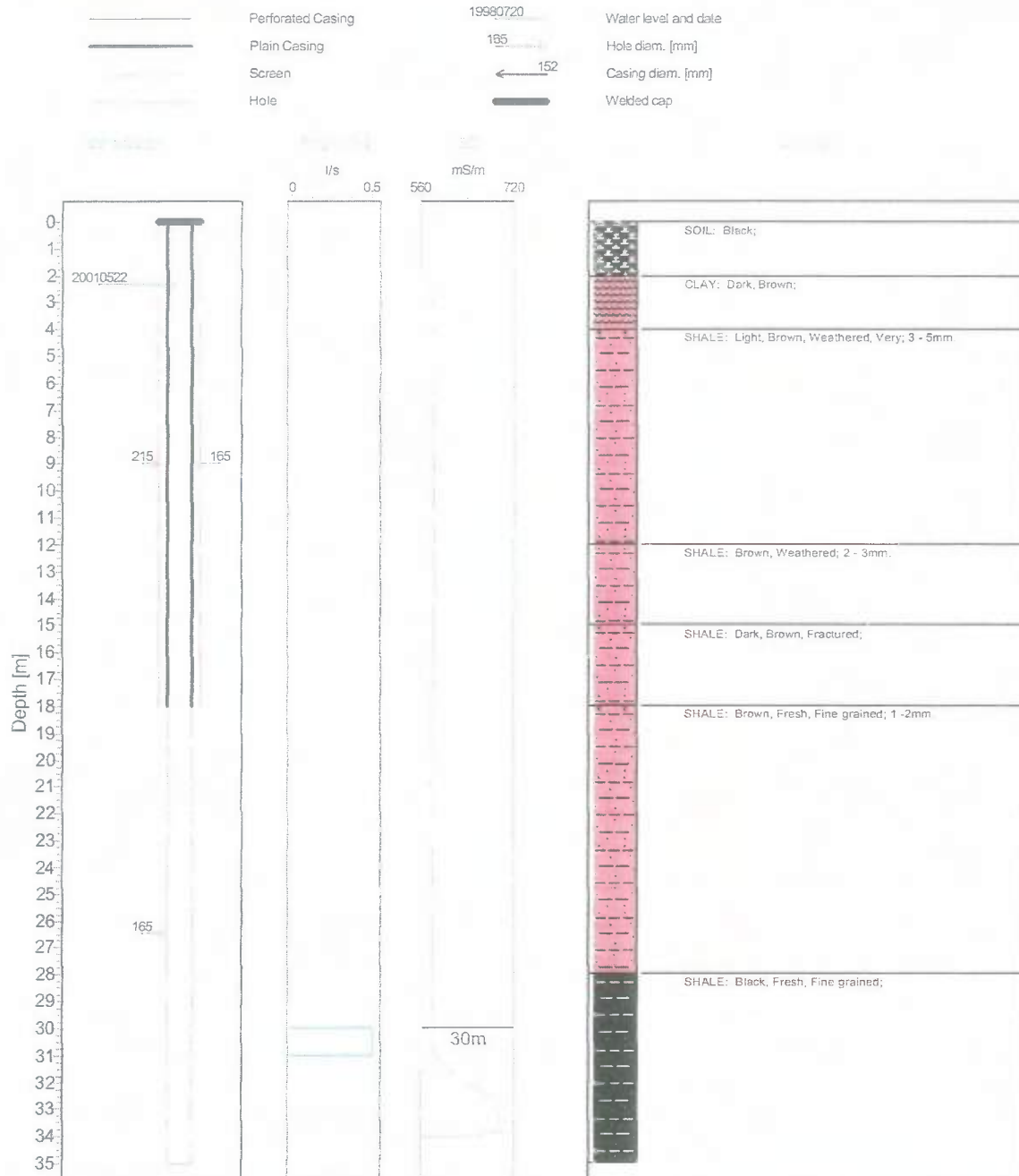
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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01072 Number: IVB-D72 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D72

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -81732.765                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2949173.50                | Alt. No. 2: G47D | Site status: In use                  | Collar h. [m]: 0.31 |
| Altitude [m]: 1499.31                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01073 Number: IVB-D73

Site type: Borehole

Distr./Farm No.:

Site Name/Desc.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D73

Region Type:

Region Desc.: OLD FUEL DEPOT

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -84340.725                | Reg.IBB.: CS18 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2948622.49                | G-Nr.: NWD4    | Site status: In use                  | Col. ht. [m]: 0.53 |
| Altitude [m]: 1497.57                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. inst.: JMA    |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010516    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 27.50               | 215           | 20010516    | ROTARY PERC. |
| JMA        | 27.50            | 35.00               | 165           | 20010516    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010516   | 0.00            | 21.50    | 165        | Steel    | 3            | Perforated or slotted | 0      | 0     | 0           | 0           |
| 20010516   | 21.50           | 27.50    | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 33.00            | 34.00    | 1.00        | Estimated    |              | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 5.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 5.00         | 17.00    | SHALE          | Yellow         | Light     |         | Weathered       |           |
| 17.00        | 24.00    | SHALE          | Brown          | Greyish   |         | Weathered       |           |
| 24.00        | 25.00    | SHALE          | Grey           | Light     |         | Weathered       |           |
| 25.00        | 27.00    | SHALE          | Grey           |           |         | Weathered       |           |
| 27.00        | 30.00    | SHALE          | Grey           |           |         | Fractured       |           |
| 30.00        | 35.00    | SHALE          | Grey           |           |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1341       | 0.00 | 1.11           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010629   | 0800       | 0.00 | 1.11           | SLUG TEST   |
| Electrical contact | Static       | 0     | Field checked | 20010903   | 1338       | 0.00 | 1.33           |             |
| Electrical contact | Static       | 0     | Field checked | 20011010   | 1515       | 0.00 | 1.25           | SLUGTEST    |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | % | Trans. [m <sup>2</sup> /d] | Perm. [mld] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|---|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 90         | 0                  | 0                | 0          | 0             | 0 | 0                          | 7.413       | 0       |         |
| SLUGTEST    | 20011010     | 60         | 0                  |                  |            |               |   |                            | 8.618       |         |         |

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# Borehole Construction and Geological Log

Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01073 Number: IVB-D73 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D73

|               |                           |                  |              |                         |                |       |
|---------------|---------------------------|------------------|--------------|-------------------------|----------------|-------|
| Y Coord. [m]: | -84340.725                | Alt. No. 1: NWD4 | Topo-set.:   | Flat surface, plain     | Depth [m]:     | 35.00 |
| X Coord. [m]: | 2948622.49                | Alt. No. 2: P19D | Site status: | In use                  | Collar h. [m]: | 0.53  |
| Altitude [m]: | 1497.57                   |                  | Site purp.:  | Observation             | Drain. reg.:   | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                  | Use applic.: | Industrial - industrial | Diam. [mm]:    | 165   |
| Coord. meth.: | Global Positioning System |                  | Equipment:   | No equipment            | Rep. inst.:    | JMA   |



COMMENT:



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 262TDB01074 Number: IVB-D74 Site type: Borehole

Dist./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D74

Region Type:

Region Descr.: SLAG DUMP

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80571.448                | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 26.00 |
| X Coord. [m]: | 2946867.167               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.50  |
| Altitude [m]: | 1486.08                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. Inst.:   | JMA   |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|------------------|--------------|
| 20010516    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with    | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 12.00               | 215           | 20010516    | ROTARY PERC. |
| JMA        | 12.00            | 26.00               | 165           | 20010516    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010516   | 0.00            | 12.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | SOIL           | Brown          | Dark      |         |                 |           |
| 3.00         | 5.00     | SOIL           | Brown          | Light     | Fine    |                 |           |
| 5.00         | 10.00    | DIABASE        | Brown          | Light     |         | Weathered       |           |
| 10.00        | 12.00    | DIABASE        | Brown          | Greyish   |         | Weathered       |           |
| 12.00        | 16.00    | DIABASE        | Grey           | Light     |         | Fractured       |           |
| 16.00        | 26.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 0845       | 0.00 | 4.12           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010619   | 1435       | 0.00 | 4.12           | EC LOGGED   |
| Electrical contact | Static       | 0     | Geologist,    | 20010620   | 1400       | 0.00 | 4.90           | SLUG TEST   |
| Electrical contact | Static       | 0     | Field checked | 20010823   | 0940       | 0.00 | 4.25           |             |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 1500       | 0                  | 0                | 0          | 0 0 0 0         | 0                          | 0.917       | 0       |         |

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**Borehole Construction and Geological Log**

Date compiled: 11/28/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01074 Number: IVB-D74 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D74

Y Coord. [m]: -80571.448

X Coord. [m]: 2946867.17

Altitude [m]: 1486.08

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Global Positioning System

Alt. No. 1:

Alt. No. 2: P8D

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

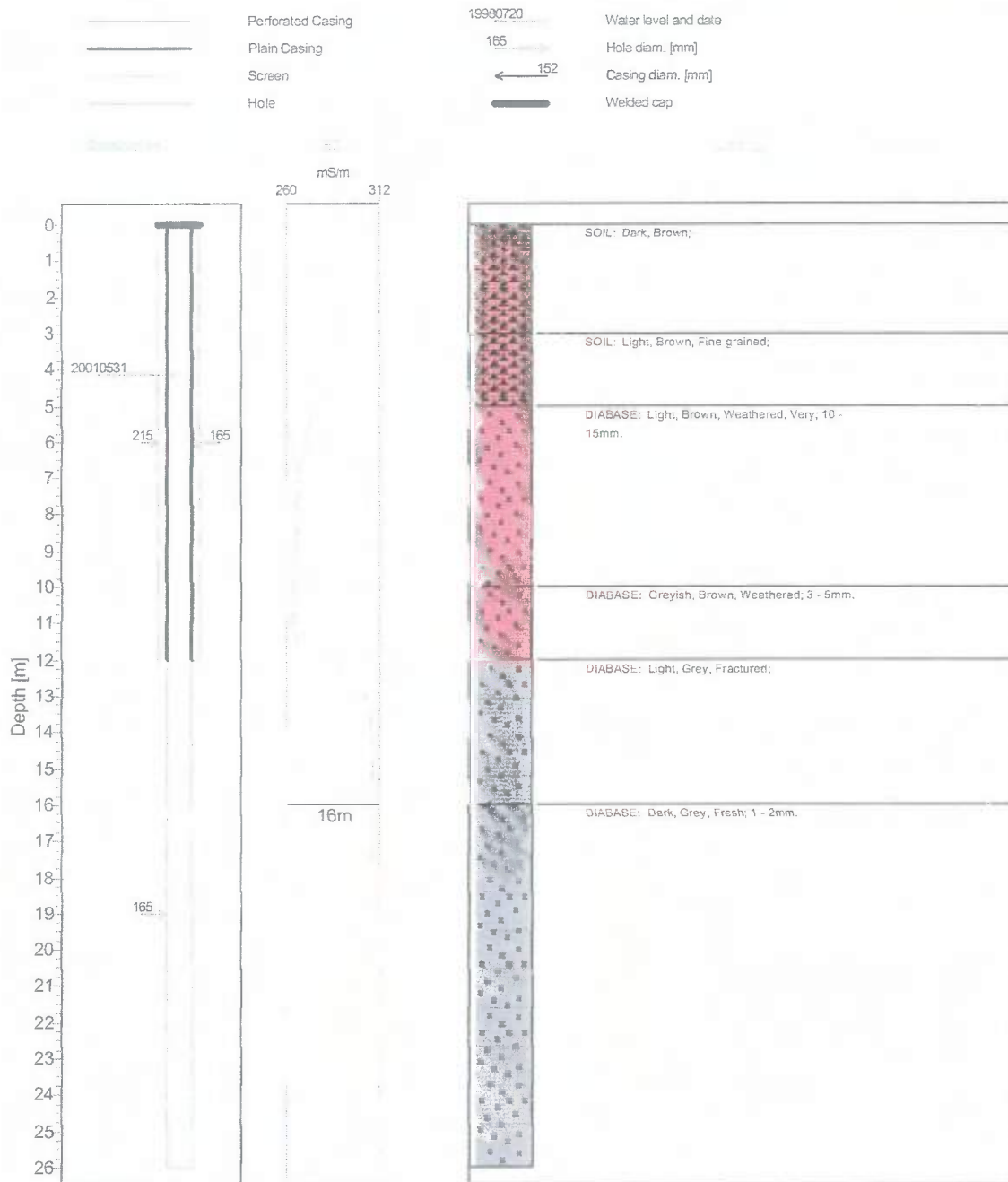
Depth [m]: 26.00

Collar h. [m]: 0.50

Drain. reg.: C220

Diam. [mm]: 165

Rep. inst.: JMA



COMMENT:



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Page 1

**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01075 Number: IVB-D75 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D75

Region Type:

Region Desc.: SLAG DUMP

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -80418.304                | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2947389.053               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.30 |
| Altitude [m]: 1489.11                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. inst.: JMA    |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010517    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment     |
|------------|------------------|---------------------|---------------|-------------|-------------|
| JMA        | 0.00             | 9.00                | 215           | 20010517    | ROTARY PERC |
| JMA        | 9.00             | 35.00               | 165           | 20010517    | ROTARY PERC |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010720   | 0.00            | 7.00     | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010720   | 7.00            | 9.00     | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Dark      |         |                 |           |
| 1.00         | 2.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 2.00         | 3.00     | SOIL           | Brown          | Yellowish |         |                 |           |
| 3.00         | 5.00     | SOIL           | Brown          | Light     |         |                 |           |
| 5.00         | 7.00     | DIABASE        | Brown          |           |         | Weathered       |           |
| 7.00         | 9.00     | DIABASE        | Brown          |           |         | Weathered       |           |
| 9.00         | 20.00    | DIABASE        | Brown          | Greyish   |         | Fractured       |           |
| 20.00        | 23.00    | DIABASE        | Grey           | Light     |         | Fresh           |           |
| 23.00        | 35.00    | DIABASE        |                |           |         | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 0900       | 0.00 | 3.10           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010619   | 1510       | 0.00 | 3.16           | EC LOGGED   |
| Electrical contact | Static       | 0     | Geologist,    | 20010620   | 1440       | 0.00 | 3.22           | SLUG TEST   |
| Electrical contact | Static       | 0     | Field checked | 20010823   | 1100       | 0.00 | 3.04           |             |
| Electrical contact | Static       | 0     | Field checked | 20011008   | 1205       | 0.00 | 2.91           | SLUGTEST    |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20011008     | 1500       | 0                  |                  |            |                 |                            | 0.006       |         |         |

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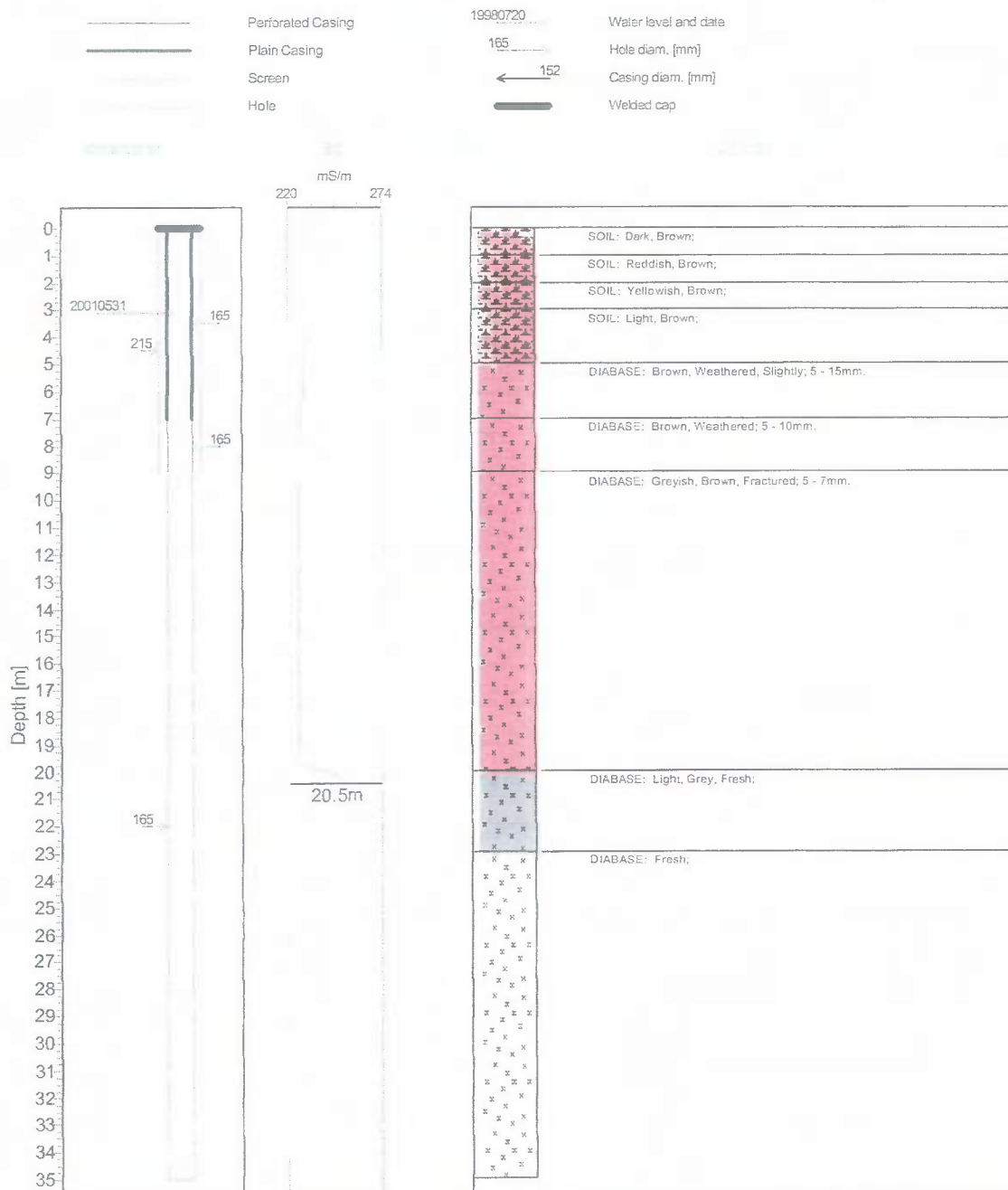
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# Borehole Construction and Geological Log

Date compiled: 11/28/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01075 Number: IVB-D75 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D75

|               |                           |             |     |              |                         |                |       |
|---------------|---------------------------|-------------|-----|--------------|-------------------------|----------------|-------|
| Y Coord. [m]: | -80418.304                | Alt. No. 1: |     | Topo-set.:   | Flat surface, plain     | Depth [m]:     | 35.00 |
| X Coord. [m]: | 2947389.05                | Alt. No. 2: | P9D | Site status: | In use                  | Collar h. [m]: | 0.30  |
| Altitude [m]: | 1489.11                   |             |     | Site purp.:  | Observation             | Drain. reg.:   | C220  |
| Coord. acc.:  | Accurate to within 1 unit |             |     | Use applic.: | Industrial - industrial | Diam. [mm]:    | 165   |
| Coord. meth.: | Global Positioning System |             |     | Equipment:   | No equipment            | Rep. inst.:    | JMA   |



COMMENT:



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01076 Number: IVB-DT6 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D76

Region Type:

Region Descr.: OLD FUEL STATION / BOF PLANT

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -81407.621                | Reg./BB.: CS01 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2951180.085               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.41 |
| Altitude [m]: 1499.88                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. Inst.: JMA    |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010516    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|----------------|------------------|---------------------|---------------|-------------|--------------|
| JMA            | 0.00             | 18.00               | 215           | 20010516    | ROTARY PERC. |
| JMA            | 18.00            | 35.00               | 165           | 20010516    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010516   | 0.00            | 18.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**AQUIFER:**

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 19.00            | 20.00    | 1.20        | Estimated    |              | Geologist, technician, |         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 3.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 3.00         | 12.00    | SOIL           | Brown          | Yellowish |         |                 |           |
| 12.00        | 15.00    | DIABASE        | Brown          |           |         | Weathered       |           |
| 15.00        | 18.00    | DIABASE        | Brown          |           |         | Weathered       |           |
| 18.00        | 26.00    | DIABASE        | Grey           | Dark      |         | Fractured       |           |
| 26.00        | 35.00    | DIABASE        | Grey           | Dark      | Fine    | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010601   | 0820       | 0.00 | 5.82           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010618   | 1410       | 0.00 | 5.90           | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010827   | 1320       | 0.00 | 6.16           |             |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 120        | 0                  | 0                | 0          | 0             | 0       | 0                          | 1.998       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01076 Number: IVB-D76 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D76

|               |                           |                  |  |              |                         |                |       |
|---------------|---------------------------|------------------|--|--------------|-------------------------|----------------|-------|
| Y Coord. [m]: | -81407.621                | Alt. No. 1:      |  | Topo-set:    | Flat surface, plain     | Depth [m]:     | 35.00 |
| X Coord. [m]: | 2951180.08                | Alt. No. 2: P15D |  | Site status: | In use                  | Collar h. [m]: | 0.41  |
| Altitude [m]: | 1499.88                   |                  |  | Site purp.:  | Observation             | Drain. reg.:   | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                  |  | Use applic.: | Industrial - industrial | Diam. [mm]:    | 165   |
| Coord. meth.: | Global Positioning System |                  |  | Equipment:   | No equipment            | Rep. inst.:    | JMA   |



COMMENT:



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01077 Number: IVB-D77 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D77

Region Type:

Region Descr.: OPEN AREAS

Y Coord. [m]: -79709.788

Reg./BB.: CS03

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2950697.331

G-Nr.:

Site status: In use

Col. ht. [m]: 0.45

Altitude [m]: 1485.57

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## CONSTRUCTION:

Date const. Contractor

Constr. meth.

Type finish

Development Method

Special treatment

Constr. cost

20010516 EDMS

Air percussion

Open bottom

Pumped with air

0 Pumped with

0.00

## HOLE DIAMETER:

Rep. Inst.

Depth to Top [m]

Depth to Bottom [m]

Diameter [mm]

Date const.

Comment

JMA

0.00

14.60

215

20010516

ROTARY PERC.

JMA

14.60

35.00

165

20010516

ROTARY PERC.

## CASING DETAILS:

Date inst.

Dep. to top [m]

Bot. [m]

Diam. [mm]

Material

Thickn. [mm]

Opening Type

Length

Width

Hori. dist. Vert. dist.

20010516

0.00

14.60

165

Steel

3

Plain casing

0

0

0

0

## AQUIFER:

Rep. Inst.

Depth to Top [m]

Bot. [m]

Yield [l/s]

Method meas.

Aquifer type

Info source

Comment

JMA

19.00

20.00

0.01

Estimated

Geologist, technician,

JMA

23.00

24.00

0.09

Estimated

Geologist, technician,

## GEOLOGY:

Dep. Top [m]

Bot. [m]

Lithology code

Colour Primary

Secondary

Texture

Feature Primary

Secondary

0.00

3.00

SOIL

Brown

Dark

3.00

7.00

SOIL

Brown

7.00

12.00

SHALE

Brown

Light

Weathered

12.00

14.00

SHALE

Brown

Weathered

14.00

24.00

SHALE

Grey

Brownish

Fractured

24.00

35.00

SHALE

Grey

Light

Fresh

## WATER LEVEL:

Meth. meas.

Level status

Piez.

Info source

Date meas.

Time meas.

Sec.

Water lev. [m]

Comment

Electrical contact

Static

0

Geologist,

20010531

1000

0.00

2.08

EC; SAMPLED

Electrical contact

Static

0

Geologist,

20010618

1450

0.00

2.14

EC LOGGED

Electrical contact

Static

0

Geologist,

20010629

0900

0.00

2.16

SLUG TEST

Electrical contact

Static

0

Field checked

20010809

1455

0.00

2.16

## TESTING DETAILS:

Description

Date started

Durat. [s]

Depth to intk. [m]

Disch. rate[l/s]

Drawd. [m]

Recovery: [m]

%

[min]

Trans. [m<sup>2</sup>/d]

Perm. [m/d]

Storat. Comment

SLUG TEST

20010706

1200

0

0

0

0

0

0

0

0

1.467

0

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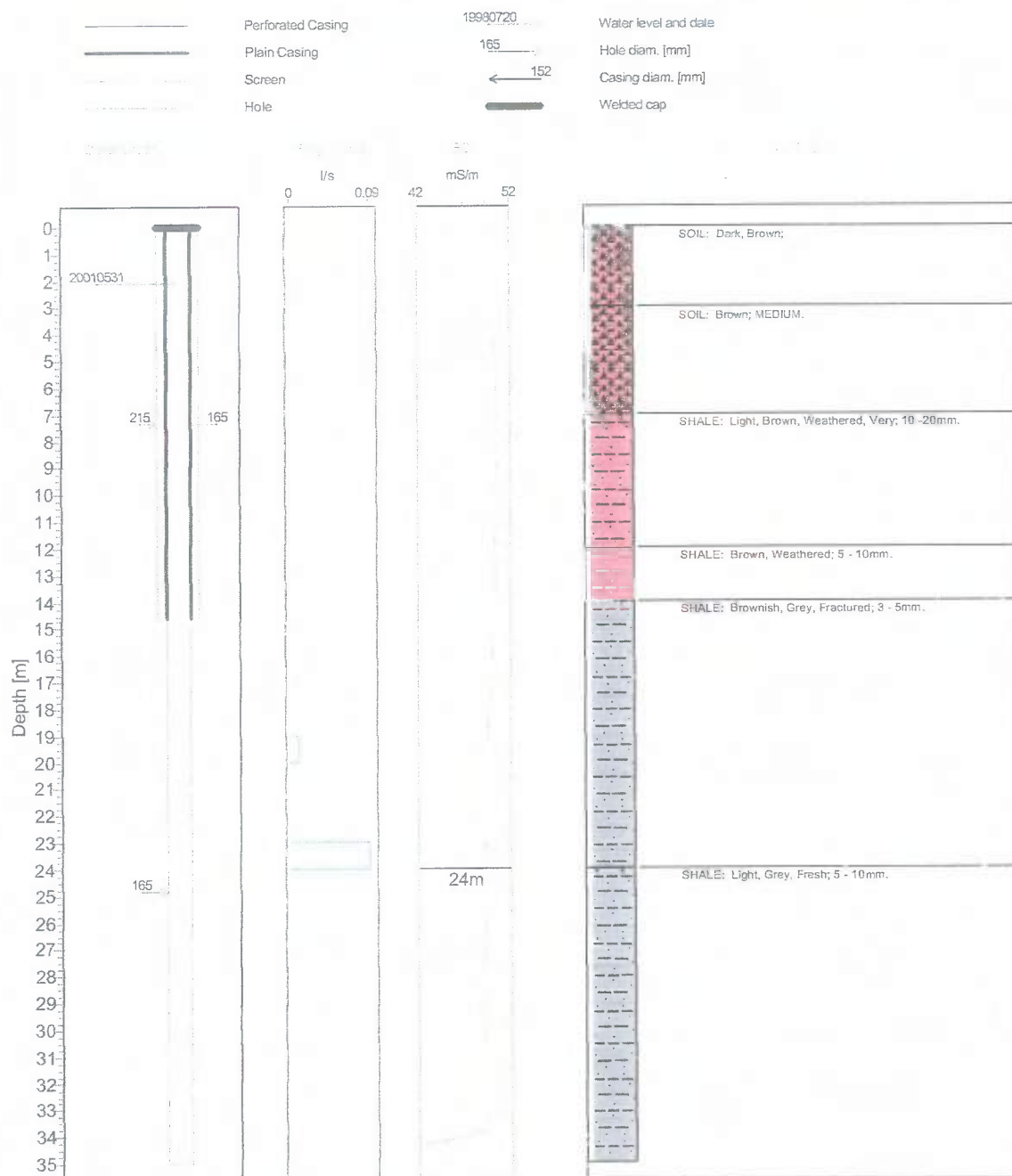
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# Borehole Construction and Geological Log

Date compiled: 11/20/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01077 Number: IVB-D77 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D77

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -79709.788                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2950697.33                | Alt. No. 2: P12D | Site status: In use                  | Collar h. [m]: 0.45 |
| Altitude [m]: 1485.57                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site identifier: 2627DB01078 Number: IVB-D78 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCCR FLATSTEEL PERIMETER BOREHOLE IVB-D78

Region Type:

Region Desc.: OPEN AREA / ELECTRO SLAG AREA

Y Coord. [m]: -80053.916

Reg./BB.: CS03

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2951091.518

G-Nr.:

Site status: In use

Col. ht. [m]: 0.53

Altitude [m]: 1489.83

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

**CONSTRUCTION:**

Date const. Contractor

Constr. meth.

Type finish

Development Method

Special treatment

Constr. cost

20010517 EDMS

Air percussion

Open bottom

Pumped with air

0 Pumped with

0.00

**HOLE DIAMETER:**

Rep. Inst.

Depth to Top [m]

Depth to Bottom [m]

Diameter [mm]

Date const.

Comment

JMA

0.00

18.00

215

20010517

ROTARY PERC.

JMA

18.00

35.00

165

20010517

ROTARY PERC.

**CASING DETAILS:**

Date inst.

Dep. to top [m]

Bot. [m]

Diam. [mm]

Material

Thicken. [mm]

Opening Type

Length

Width

Hori. dist. Vert. dist.

20010517

0.00

12.00

165

Steel

3

Plain casing

0

0

0

0

20010517

12.00

18.00

165

Steel

3

Perforated or slotted

250

2

43

250

**AQUIFER:**

Rep. Inst.

Depth to Top [m]

Bot. [m]

Yield [l/s]

Method meas.

Aquifer type

Info source

Comment

JMA

24.00

25.00

2.00

Estimated

Geologist, technician,

**GEOLOGY:**

Dep. Top [m]

Bot. [m]

Lithology code

Colour Primary

Secondary

Texture

Feature Primary

Secondary

0.00

1.00

SOIL

Brown

Reddish

1.00

3.00

SOIL

Brown

3.00

5.00

SOIL

Brown

Light

5.00

14.00

DIABASE

Brown

Weathered

14.00

17.00

DIABASE

Brown

Dark

Weathered

17.00

20.00

DIABASE

Grey

Brownish

Fractured

20.00

24.00

DIABASE

Grey

Dark

Fresh

24.00

25.00

QUARTZITE

Grey

Light

25.00

35.00

DIABASE

Grey

Dark

Fresh

**WATER LEVEL:**

Meth. meas.

Level status

Piez.

Info source

Date meas.

Time meas.

Sec.

Water lev. [m]

Comment

Electrical contact

Static

0

Geologist,

20010531

0941

0.00

1.24

EC; SAMPLED

Electrical contact

Static

0

Geologist,

20010614

0750

0.00

1.36

EC LOGGED

Electrical contact

Static

0

Geologist,

20010626

0900

0.00

1.40

SLUG TEST

Electrical contact

Static

0

Field checked

20010828

1105

0.00

2.04

**TESTING DETAILS:**

Description

Date started

Durat. [s]

Depth to intk. [m]

Disch. rate [l/s]

Drawd. [m]

Recovery: [m] %

 Trans. [m<sup>3</sup>/d]

Perm. [m/d] Storat. Comment

SLUGTEST

20010706

180

0

0

0

0

0

0

0

0

0

0

4.674

0

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# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01078 Number: IVB-D78 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D78

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80053.916                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2951091.52                | Alt. No. 2: P13D | Site status: In use                  | Collar h. [m]: 0.53 |
| Altitude [m]: 1489.83                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01079 Number: IVB-D79 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D79

Region Type:

Region Descr.: PROPOSED NEW WASTE SITE

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -84723.209                | Reg./BB.: CS14 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2948074.94                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.33 |
| Altitude [m]: 1495.29                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. inst.: JMA    |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010521    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 12.00               | 215           | 20010521    | ROTARY PERC. |
| JMA        | 12.00            | 35.00               | 165           | 20010521    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010521   | 0.00            | 12.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Black          |           |         |                 |           |
| 2.00         | 4.00     | SOIL           | Brown          | Yellowish |         | Clayey          |           |
| 4.00         | 12.00    | SOIL           | Brown          | Yellowish |         | Clayey          |           |
| 12.00        | 19.00    | DIABASE        | Brown          | Light     |         | Weathered       |           |
| 19.00        | 20.00    | QUARTZITE      | Brown          |           |         | Weathered       |           |
| 20.00        | 21.00    | QUARTZITE      | Brown          | Greyish   |         | Fractured       |           |
| 21.00        | 24.00    | QUARTZITE      | Grey           | Light     |         | Fresh           |           |
| 24.00        | 28.00    | DIABASE        | Grey           | Brownish  |         | Fractured       |           |
| 28.00        | 35.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1027       | 0.00 | 1.12           | EC, SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010618   | 0950       | 0.00 | 1.14           | EC LOGGED   |
| Electrical contact | Static       | 0     | Geologist,    | 20010629   | 1000       | 0.00 | 1.13           | SLUG TEST   |
| Electrical contact | Static       | 0     | Field checked | 20010806   | 1035       | 0.00 | 1.20           |             |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUG TEST   | 20010706     | 1500       | 0                  | 0                | 0          | 0 0             | 0                          | 0.399       | 0       |         |

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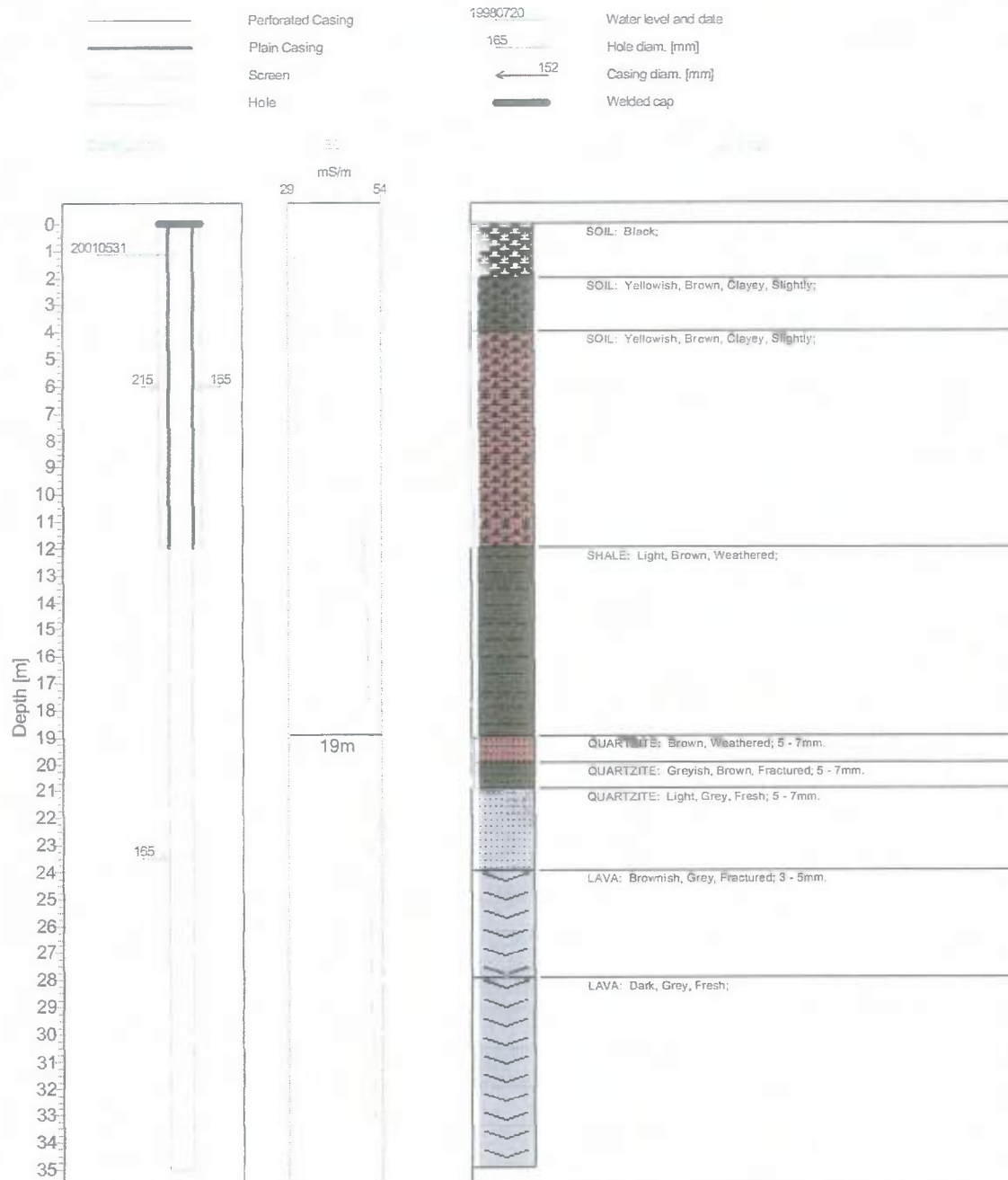
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# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01079 Number: IVB-D79 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D79

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -84723.209                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2948074.94                | Alt. No. 2: P23D | Site status: In use                  | Collar h. [m]: 0.33 |
| Altitude [m]: 1495.29                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01080 Number: IVB-D80 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D80

Region Type:

Region Descr.: SOLID WASTE DUMPS

|                                         |                |                                      |                    |
|-----------------------------------------|----------------|--------------------------------------|--------------------|
| Y Coord. [m]: -82468.961                | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]: 35.00   |
| X Coord. [m]: 2945439.29                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: 0.45 |
| Altitude [m]: 1500.92                   |                | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |                | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |                | Equipment: No equipment              | Rep. inst.: JMA    |

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010530    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|----------------|------------------|---------------------|---------------|-------------|--------------|
| JMA            | 0.00             | 16.50               | 215           | 20010604    | ROTARY PERC. |
| JMA            | 16.50            | 35.00               | 165           | 20010604    | ROTARY PERC. |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
|                 | 20010530   | 0.00            | 16.50    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

| AQUIFER: | Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|----------|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
|          | JMA        | 15.00            | 16.00    | 0.01        | Estimated    |              | Geologist, technician, |         |
|          | JMA        | 30.00            | 31.00    | 0.01        | Estimated    |              | Geologist, technician, |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
|          | 0.00         | 2.00     | SOIL           | Brown          | Dark      |         |                 |           |
|          | 2.00         | 3.00     | SOIL           | Brown          |           |         |                 |           |
|          | 3.00         | 6.00     | SOIL           | Brown          | Orange    |         |                 |           |
|          | 6.00         | 11.00    | SHALE          | Purple         | Light     |         | Weathered       |           |
|          | 11.00        | 15.00    | SHALE          | Brown          |           |         | Weathered       |           |
|          | 15.00        | 24.00    | SHALE          | Brown          | Greyish   |         | Fractured       |           |
|          | 24.00        | 27.00    | SHALE          | Brown          |           |         | Fresh           |           |
|          | 27.00        | 35.00    | SHALE          | Black          | Greyish   |         |                 |           |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
|              | Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1230       | 0.00 | 2.77           | EC; SAMPLED |
|              | Electrical contact | Static       | 0     | Geologist,    | 20010618   | 0735       | 0.00 | 2.23           | EC LOGGED   |
|              | Electrical contact | Static       | 0     | Field checked | 20010815   | 1037       | 0.00 | 1.93           |             |
|              | Electrical contact | Static       | 0     | Field checked | 20011012   | 1030       | 0.00 | 2.00           | SLUGTEST    |

| TESTING DETAILS: | Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | Trans. [m <sup>2</sup> /d] | Perm. [mld] | Storat. | Comment |
|------------------|-------------|--------------|------------|--------------------|-------------------|------------|---------------|----------------------------|-------------|---------|---------|
|                  | SLUGTEST    | 20011012     | 1500       | 0                  |                   |            |               |                            | 0.066       |         |         |

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# Borehole Construction and Geological Log

Date compiled: 11/6/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01080 Number: IVB-D80

Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D80

Y Coord. [m]: -82468.961

X Coord. [m]: 2945439.29

Altitude [m]: 1500.92

Coord. acc.: Accurate to within 1 unit

Coord. meth.: Global Positioning System

Alt. No. 1:

Alt. No. 2: P4D

Topo-set.: Flat surface, plain

Site status: In use

Site purp.: Observation

Use applic.: Industrial - industrial

Equipment: No equipment

Depth [m]: 35.00

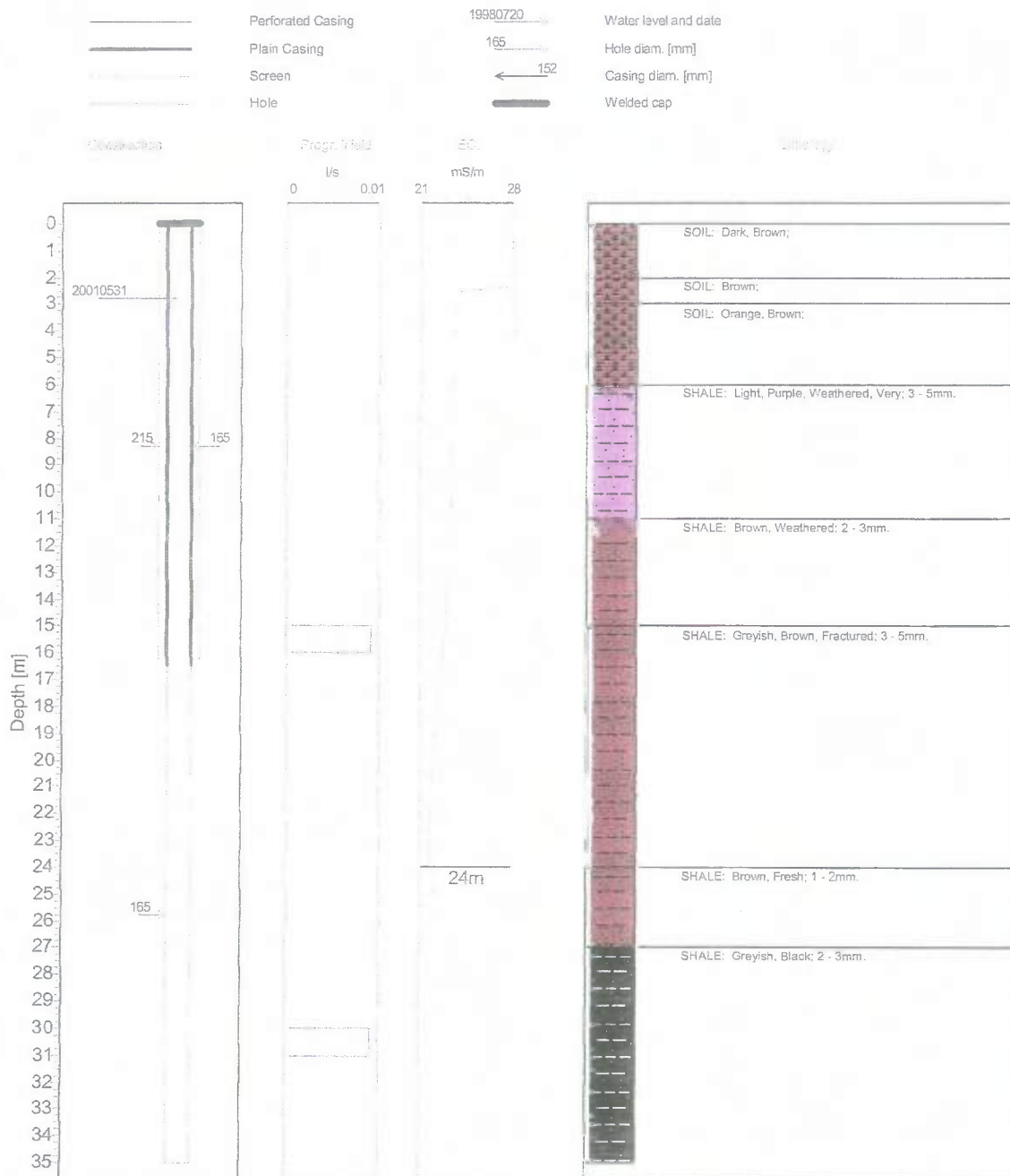
Collar h. [m]: 0.45

Drain. reg.: C220

Diam. [mm]: 165

Rep. inst.: JMA

## Construction and Geohydrological Legend



COMMENT:

Page 1

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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01081 Number: IVB-D81 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D81

Region Type:

Region Descr.: COKE BREEZE STOCKPILE

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -82176.894                | Reg./BB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2945871.38                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.52  |
| Altitude [m]: | 1495.81                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010606    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment     |
|------------|------------------|---------------------|---------------|-------------|-------------|
| JMA        | 0.00             | 15.80               | 215           | 20010606    | ROTARY PERC |
| JMA        | 15.80            | 35.00               | 165           | 20010606    | ROTARY PERC |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010606   | 0.00            | 15.80    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

**AQUIFER:**

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 17.00            | 18.00    | 0.20        | Estimated    | Fractured    | Geologist, technician, |         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          | Yellowish |         |                 |           |
| 2.00         | 5.00     | CLAY           | Yellow         | Light     |         |                 |           |
| 5.00         | 10.00    | DIABASE        | Brown          |           |         | Weathered       |           |
| 10.00        | 14.00    | DIABASE        | Brown          |           |         | Weathered       |           |
| 14.00        | 19.00    | DIABASE        | Brown          | Grayish   | Medium  | Fractured       |           |
| 19.00        | 22.00    | DIABASE        | Grey           | Light     | Medium  | Fresh           |           |
| 22.00        | 26.00    | DIABASE        | Grey           | Light     | Medium  | Fractured       | Fresh     |
| 26.00        | 35.00    | DIABASE        | Grey           | Light     | Medium  | Fresh           |           |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     | Field checked | 20010815   | 1220       | 0.00 | 1.82           |         |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % | Trans. [m <sup>2</sup> /d] | Perm. [md] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---|----------------------------|------------|---------|---------|
| SLUGTEST    | 20010724     | 1500       | 0                  | 0                 | 0          | 0             | 0 | 0                          | 0.008      | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/21/01

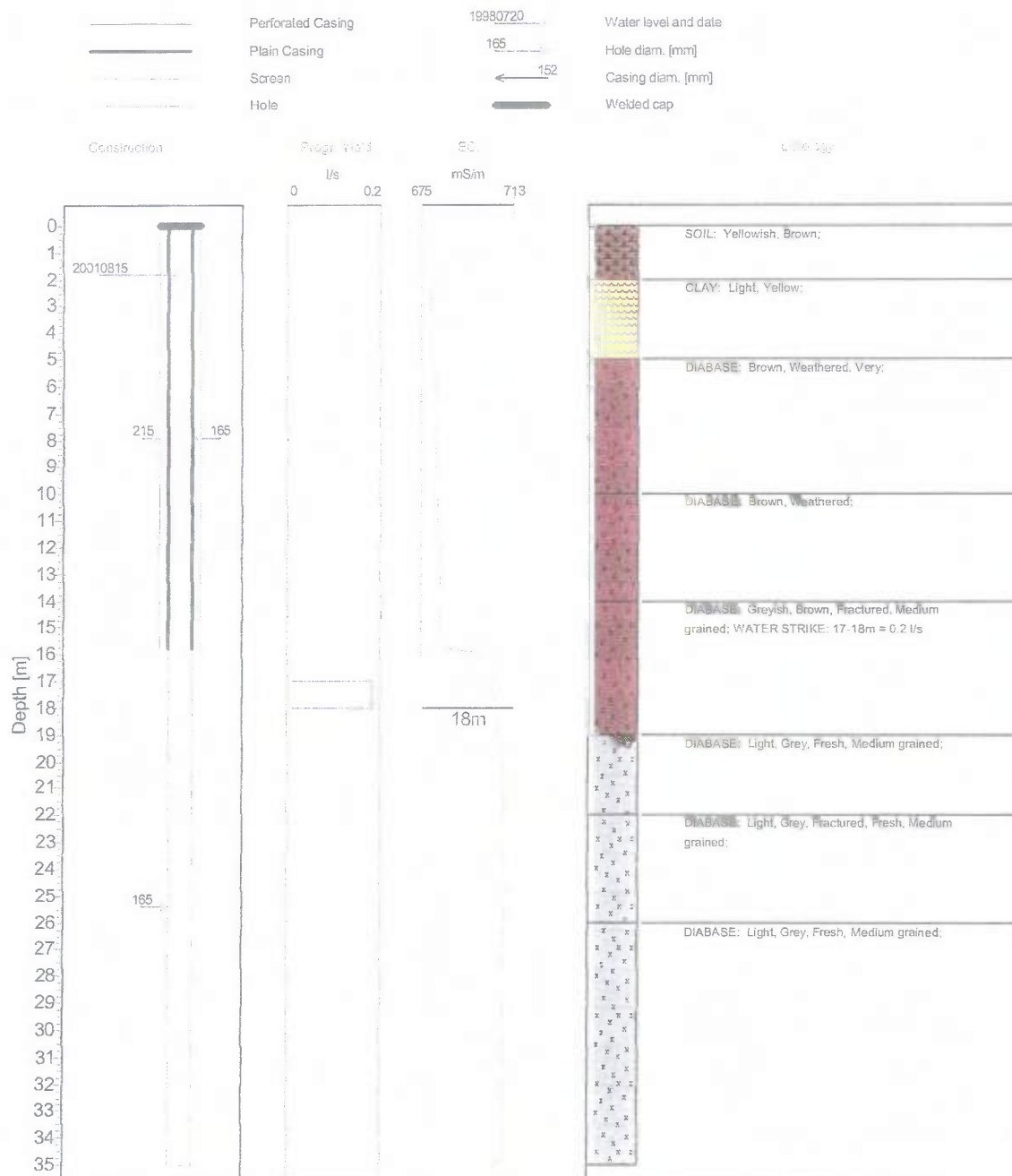
**BASIC SITE INFORMATION:** Site Identifier: 2627DB01081 Number: IVB-D81 Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D81

|                                         |                 |                                      |                     |
|-----------------------------------------|-----------------|--------------------------------------|---------------------|
| Y Coord. [m]: -82176.894                | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2945871.38                | Alt. No. 2: P5D | Site status: In use                  | Collar h. [m]: 0.52 |
| Altitude [m]: 1495.81                   |                 | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                 | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                 | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01082 Number: IVB-D82 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D82

Region Type:

Region Desc.: PROPOSED NEW WASTE SITE

Y Coord. [m]: -83194.535

Reg.IBB.: CS14

Topo-set.: Flat surface, plain

Depth [m]: 31.00

X Coord. [m]: 2945392.01

G-Nr.:

Site status: In use

Col. ht. [m]: 0.43

Altitude [m]: 1512.52

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## CONSTRUCTION:

Date const. Contractor

Constr. meth.

Type finish

Development Method

Special treatment

Constr. cost

20010528 EDMS

Air percussion

Open bottom

Pumped with air

0 Pumped with

0.00

## HOLE DIAMETER:

Rep. Inst.

Depth to Top [m]

Depth to Bottom [m]

Diameter [mm]

Date const.

Comment

JMA

0.00

8.00

215

20010528

ROTARY PERC.

JMA

8.00

31.00

165

20010528

ROTARY PERC.

## CASING DETAILS:

Date inst.

Dep. to top [m]

Bot. [m]

Diam. [mm]

Material

Thickn. [mm]

Opening Type

Length

Width

Hori. dist. Vert. dist.

20010605

0.00

8.00

165

Steel

3

Plain casing

0

0

0

0

## GEOLOGY:

Dep. Top [m]

Bot. [m]

Lithology code

Colour Primary

Secondary

Texture

Feature Primary

Secondary

0.00

2.00

SOIL

Brown

Reddish

2.00

4.00

QUARTZITE

Pink

Light

Weathered

4.00

8.00

QUARTZITE

White

Weathered

8.00

16.00

QUARTZITE

White

Fractured

16.00

31.00

QUARTZITE

White

Fresh

## WATER LEVEL:

Meth. meas.

Level status

Piez. Info source

Date meas.

Time meas.

Sec.

Water lev. [m]

Comment

Electrical contact

Static

0

Geologist,

20010531

1150

0.00

18.62

EC; SAMPLED

Electrical contact

Static

0

Geologist,

20010618

0810

0.00

9.23

EC LOGGED

Electrical contact

Static

0

Field checked

20010807

0715

0.00

9.31

## TESTING DETAILS:

Description

Date started

Durat. [s]

Depth to intk. [m]

Disch. rate[l/s]

Drawd. [m]

Recovery: [m]

%

[min]

Trans. [m<sup>3</sup>/d]

Perm. [m/d]

Storat. Comment

SLUGTEST

20010724

1500

0

0

0

0

0

0

0

0

0

0

0.006

0

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# Borehole Construction and Geological Log

Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01082 Number: IVB-D82 Site type: Borehole

Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D82

|                                         |                 |                                      |                     |
|-----------------------------------------|-----------------|--------------------------------------|---------------------|
| Y Coord. [m]: -83194.535                | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]: 31.00    |
| X Coord. [m]: 2945392.01                | Alt. No. 2: P3D | Site status: In use                  | Collar h. [m]: 0.43 |
| Altitude [m]: 1512.52                   |                 | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                 | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                 | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geomorphological Legend



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01083 Number: IVB-D83 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D83

Region Type:

Region Desc.: PROPOSED NEW WASTE SITE

Y Coord. [m]: -84908.704

Reg./BB.: CS14

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2946582.33

G-Nr.:

Site status: In use

Col. ht. [m]: 0.37

Altitude [m]: 1515.06

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

**CONSTRUCTION:**

Date const. Contractor

Constr. meth.

Type finish

Development Method

Special treatment

Constr. cost

20010526 EDMS

Air percussion

Open bottom

Pumped with air

0 Pumped with

0.00

**HOLE DIAMETER:**

Rep. Inst.

Depth to Top [m]

Depth to Bottom [m]

Diameter [mm]

Date const.

Comment

JMA

0.00

24.00

215

20010704

ODEX

JMA

24.00

35.00

165

20010704

**CASING DETAILS:**

Date inst.

Dep. to top [m]

Bot. [m]

Diam. [mm]

Material

Thicken. [mm]

Opening Type

Length

Width

Hori. dist. Vert. dist.

20010704

0.00

18.00

165

Steel

3

Plain casing

0

0

0

0

20010704

18.00

24.00

165

Steel

3

Perforated or slotted

250

2

43

250

**AQUIFER:**

Rep. Inst.

Depth to Top [m]

Bot. [m]

Yield [l/s]

Method meas.

Aquifer type

Info source

Comment

JMA

18.00

19.00

3.00

Estimated

**GEOLOGY:**

Dep. Top [m]

Bot. [m]

Lithology code

Colour Primary

Secondary

Texture

Feature Primary

Secondary

0.00

2.00

SOIL

Brown

Reddish

2.00

6.00

SOIL

Brown

Dark

6.00

13.00

SOIL

Yellow

Light

13.00

18.00

LAVA

Brown

Weathered

18.00

27.00

LAVA

Gray

Dark

Fractured

27.00

35.00

LAVA

Gray

Light

Fresh

Solid

**WATER LEVEL:**

Meth. meas.

Level status

Piez.

Info source

Date meas.

Time meas.

Sec.

Water lev. [m]

Comment

Electrical contact

Static

0

Geologist,

20010531

1049

0.00

11.04

EC; SAMPLED

Electrical contact

Static

0

Field checked

20010828

0823

0.00

12.15

Electrical contact

Static

0

Field checked

20011003

1350

0.00

12.30

Electrical contact

Static

0

Field checked

20011011

1315

0.00

12.33

SLUGTEST

**TESTING DETAILS:**

Description

Date started

Durat. [s]

Depth to intk. [m]

Disch. rate [l/s]

Drawd. [m]

Recovery: %

 Trans. [m<sup>3</sup>/d]

Perm. [m/d]

Storag. Comment

SLUGTEST

20010724

60

0

0

0

0

0

0

0

0

0

3.06

0

SLUGTEST

20011011

30

0

4.441

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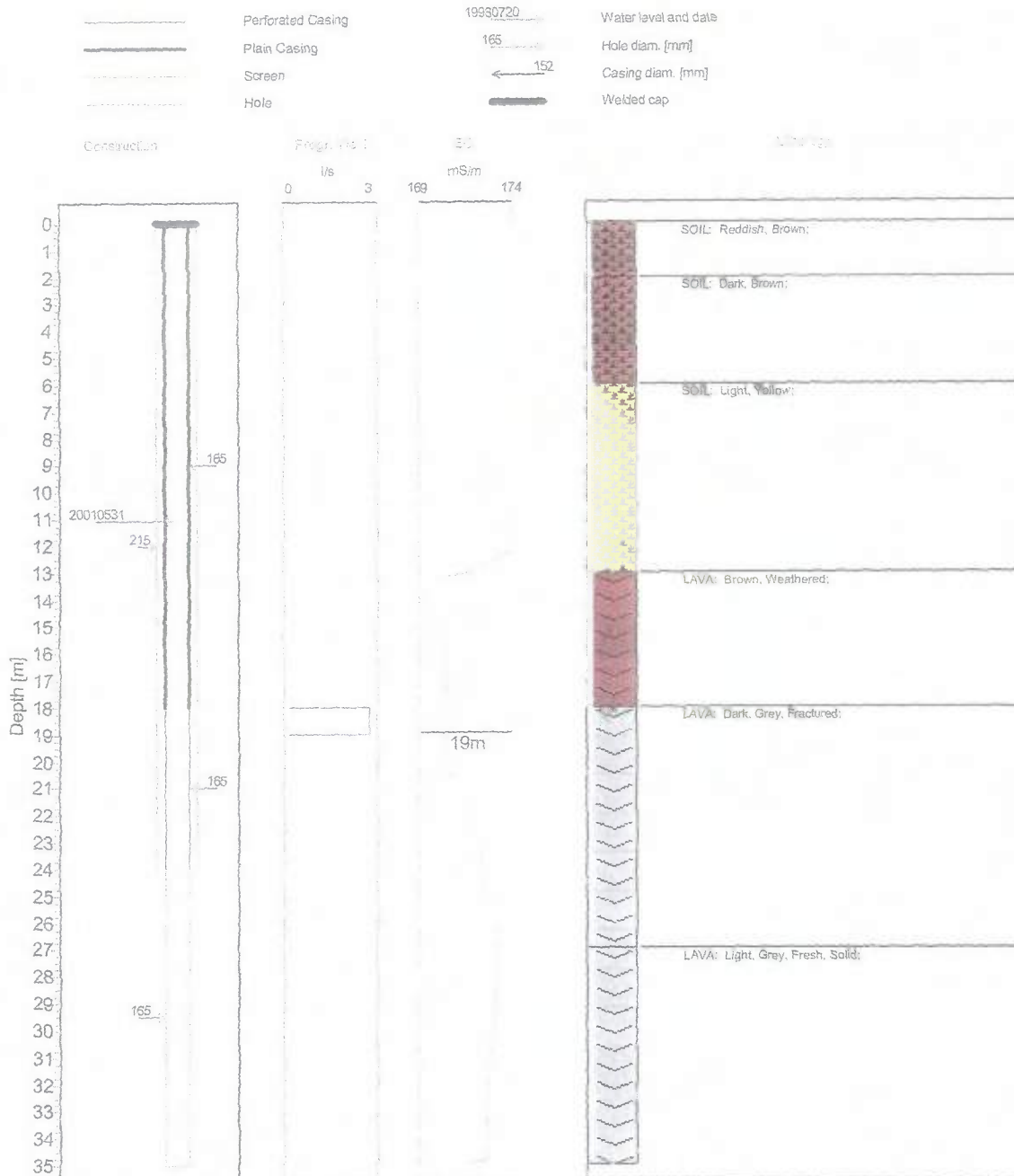
# Borehole Construction and Geological Log

Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01083 Number: IVB-D83 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D83

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -84908.704                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2946582.33                | Alt. No. 2: P25D | Site status: In use                  | Collar h. [m]: 0.37 |
| Altitude [m]: 1515.06                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geology Log



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01084 Number: IVB-D84 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D84

Region Type:

Region Descr.: PROPOSED NEW WASTE SITE

Y Coord. [m]: -84353.343

Reg.IBB.: CS14

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2945545.32

G-Nr.:

Site status: In use

Col. ht. [m]: 0.39

Altitude [m]: 1522.55

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. treatment | Special     | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|------------------|-------------|--------------|
| 20010526    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0                | Pumped with | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 19.00               | 215           | 20010526    | ROTARY PERC. |
| JMA        | 19.00            | 35.00               | 165           | 20010526    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010526   | 0.00            | 19.00    | 165        | Steel    | 3            | Plain casing | 250    | 2     | 43          | 250         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source | Comment |
|------------|------------------|----------|-------------|--------------|--------------|-------------|---------|
| JMA        | 17.00            | 25.00    | 0.02        | Estimated    |              |             |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 1.00         | 3.00     | BOULDERS       | Brown          | Light     |         |                 |           |
| 3.00         | 6.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 6.00         | 17.00    | SOIL           | Yellow         | Light     |         |                 |           |
| 17.00        | 20.00    | LAVA           | Grey           | Brownish  |         | Weathered       |           |
| 20.00        | 23.00    | LAVA           | Grey           | Brownish  |         | Weathered       |           |
| 23.00        | 25.00    | LAVA           | Grey           |           |         | Fractured       |           |
| 25.00        | 35.00    | LAVA           | Grey           | Light     |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1112       | 0.00 | 12.44          | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010618   | 0905       | 0.00 | 12.53          | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010807   | 0900       | 0.00 | 12.86          |             |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 1500       | 0                  | 0                 | 0          | 0             | 0                          | 0           | 0.138   | 0       |

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# Borehole Construction and Geological Log

Date compiled: 11/6/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01084 Number: IVB-D84

Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D84

Y Coord. [m]: -84353.343

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2945545.32

Alt. No. 2: P1D

Site status: In use

Collar h. [m]: 0.39

Altitude [m]: 1522.56

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

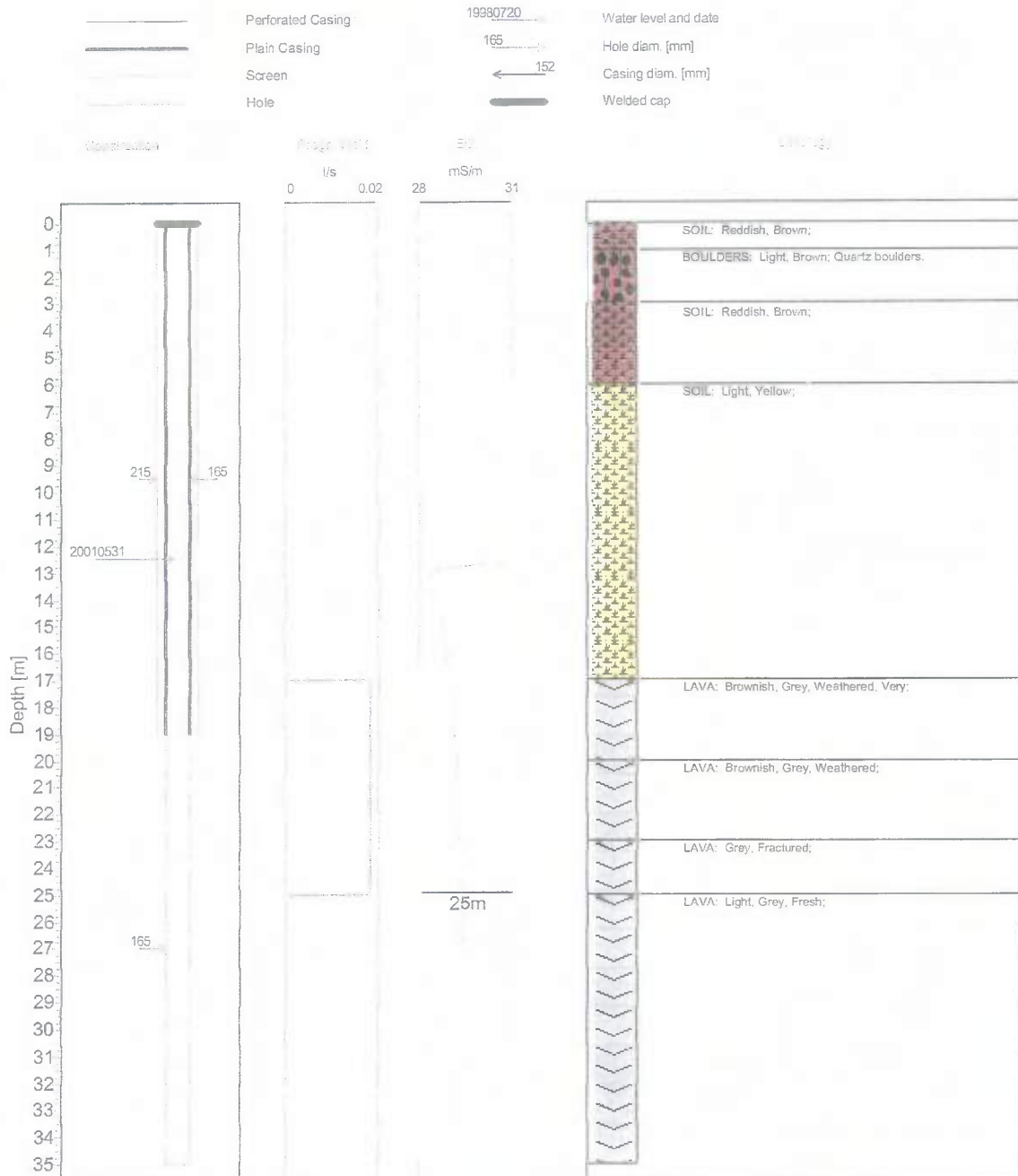
Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01085 Number: IVB-D85 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D85

Region Type:

Region Descr.: PROPOSED NEW WASTE SITE

Y Coord. [m]: -83732.955

Reg./BB.: CS14

Topo-set.: Flat surface, plain

Depth [m]: 43.00

X Coord. [m]: 2945366.65

G-Nr.:

Site status: In use

Col. ht. [m]: 0.35

Altitude [m]: 1523.95

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010528    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 30.00               | 215           | 20010528    | ROTARY PERC. |
| JMA        | 30.00            | 43.00               | 165           | 20010528    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010528   | 0.00            | 27.00    | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010528   | 27.00           | 30.00    | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 2.00         | 3.00     | SOIL           | Brown          | Orange    |         |                 |           |
| 3.00         | 5.00     | SHALE          | Pink           | Light     |         |                 |           |
| 5.00         | 7.00     | QUARTZITE      | Pink           | Light     |         |                 |           |
| 7.00         | 10.00    | SHALE          | Pink           | Light     |         |                 |           |
| 10.00        | 15.00    | SHALE          | Brown          | Light     |         |                 |           |
| 15.00        | 25.00    | SHALE          | Yellow         | Light     |         |                 |           |
| 25.00        | 27.00    | SHALE          | Brown          | Light     |         | Weathered       |           |
| 27.00        | 30.00    | SHALE          | Purple         |           |         | Weathered       |           |
| 30.00        | 34.00    | SHALE          | Purple         |           |         | Fractured       |           |
| 34.00        | 43.00    | SHALE          | Purple         |           |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1130       | 0.00 | 8.02           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010618   | 0835       | 0.00 | 8.16           | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010807   | 0825       | 0.00 | 8.86           |             |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | Trans. [m³/d] | Perm. [mid] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 1500       | 0                  | 0                 | 0          | 0             | 0             | 0.009       | 0       |         |



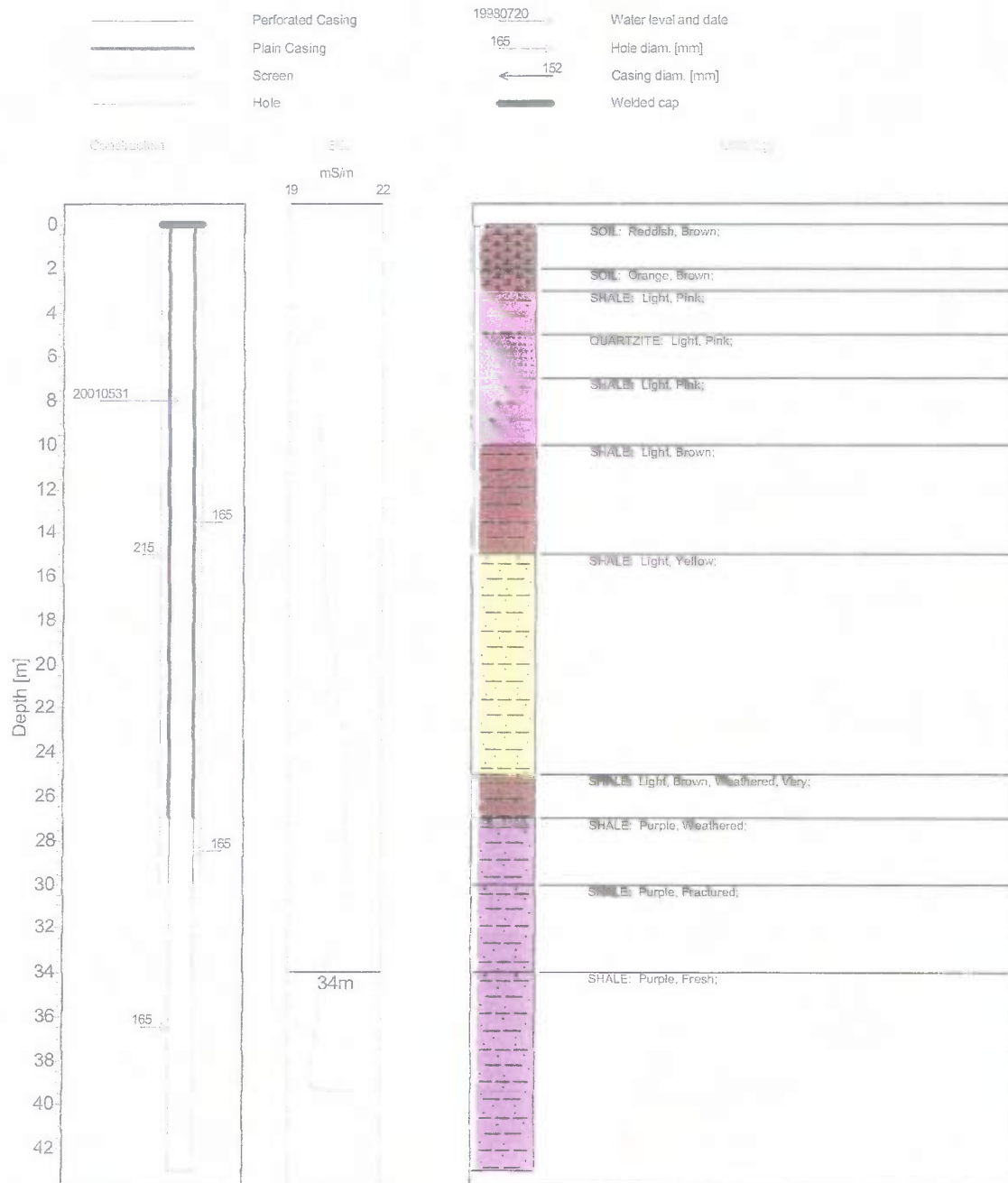
# Borehole Construction and Geological Log

Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01085 Number: IVB-D85 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D85

|                                         |                 |                                      |                     |
|-----------------------------------------|-----------------|--------------------------------------|---------------------|
| Y Coord. [m]: -83732.955                | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]: 43.00    |
| X Coord. [m]: 2945366.65                | Alt. No. 2: P2D | Site status: In use                  | Collar h. [m]: 0.35 |
| Altitude [m]: 1523.95                   |                 | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                 | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                 | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geology Log



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01086 Number: IVB-D86 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D86

Region Type:

Region Desc.:SIDING AREA

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -84686.165                | Reg.IBB.: CS19 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2949353.877               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.29  |
| Altitude [m]: | 1490.56                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010530    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

| HOLE DIAMETER: | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|----------------|------------------|---------------------|---------------|-------------|--------------|
| JMA            | 0.00             | 21.00               | 215           | 20010530    | ROTARY PERC. |
| JMA            | 21.00            | 35.00               | 165           | 20010530    | ROTARY PERC. |

| CASING DETAILS: | Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|-----------------|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
|                 | 20010530   | 0.00            | 21.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

| AQUIFER: | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|----------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA      | 23.00            | 24.00    | 0.40        | Estimated    |              | Geologist, technician, |         |

| GEOLOGY: | Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary    |
|----------|--------------|----------|----------------|----------------|-----------|---------|-----------------|--------------|
|          | 0.00         | 1.00     | SOIL           | Brown          | Dark      |         |                 |              |
|          | 1.00         | 2.00     | BOULDERS       | Brown          |           |         |                 |              |
|          | 2.00         | 7.00     | SOIL           | Brown          | Reddish   |         | Clayey          |              |
|          | 7.00         | 13.00    | CLAY           | Brown          | Light     |         |                 |              |
|          | 13.00        | 15.00    | CLAY           | Brown          | Yellowish |         |                 |              |
|          | 15.00        | 19.00    | DIABASE        | Brown          |           |         | Weathered       | Clayey       |
|          | 19.00        | 24.00    | DIABASE        | Grey           | Brownish  |         | Fractured       |              |
|          | 24.00        | 31.00    | DIABASE        | Grey           | Light     |         | Fresh           |              |
|          | 31.00        | 35.00    | SHALE          | Black          | Greyish   |         | Fresh           | Carbonaceous |

| WATER LEVEL: | Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
|              | Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1407       | 0.00 | 2.32           | EC; SAMPLED |
|              | Electrical contact | Static       | 0     | Geologist,    | 20010618   | 1155       | 0.00 | 2.55           | EC LOGGED   |
|              | Electrical contact | Static       | 0     | Geologist,    | 20010629   | 1100       | 0.00 | 2.70           | SLUG TEST   |
|              | Electrical contact | Static       | 0     | Field checked | 20010821   | 1430       | 0.00 | 2.79           |             |

| TESTING DETAILS: | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|------------------|--------------|------------|--------------------|------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST         | 20010706     | 1500       | 0                  | 0                | 0          | 0 0 0 0 0   | 0                          | 0.374       | 0       |         |

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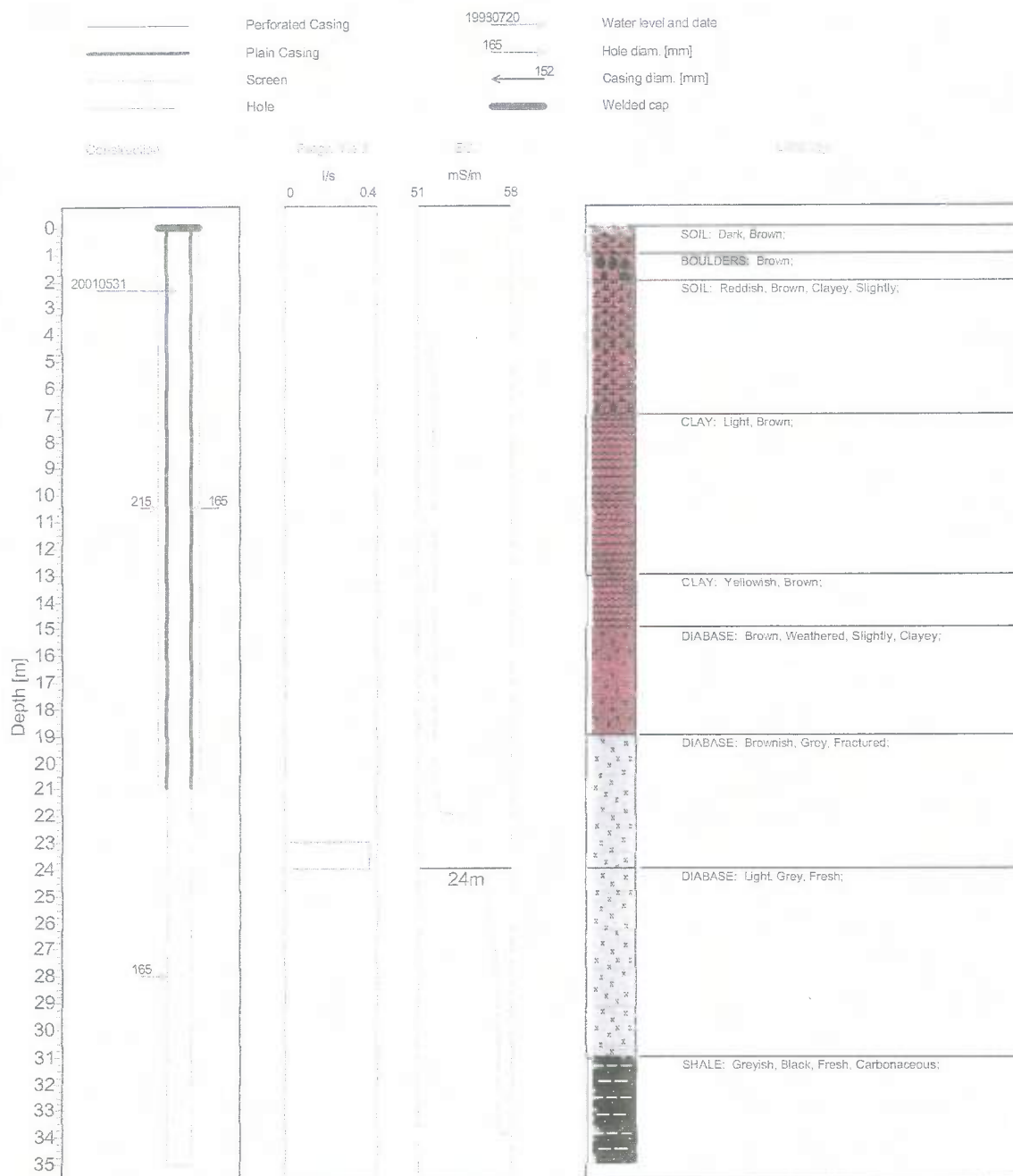
# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01086 Number: IVB-D86 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D86

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -84686.165                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2949353.88                | Alt. No. 2: P21D | Site status: In use                  | Collar h. [m]: 0.29 |
| Altitude [m]: 1490.56                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geology Log Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01087 Number: IVB-D87 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE (IVB-D87)

Region Type:

Region Desc.: OPEN AREA

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -83823.635                | Reg./BB.: CS21 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2950387.89                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.22  |
| Altitude [m]: | 1479.34                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|------------------|--------------|
| 20010530    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with    | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 12.00               | 215           | 20010530    | ROTARY PERC. |
| JMA        | 12.00            | 35.00               | 165           | 20010530    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010530   | 0.00            | 9.00     | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010530   | 9.00            | 12.00    | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 13.00            | 14.00    | 1.50        | Estimated    | Fractured    | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | CLAY           | Brown          |           |         |                 |           |
| 2.00         | 4.00     | SHALE          | Yellow         | Light     |         | Weathered       |           |
| 4.00         | 9.00     | DIABASE        | Brown          | Yellowish |         | Weathered       |           |
| 9.00         | 19.00    | DIABASE        | Grey           | Brownish  |         | Fractured       |           |
| 19.00        | 23.00    | DIABASE        | Grey           | Light     |         | Fractured       |           |
| 23.00        | 35.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|-------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,  | 20010531   | 1430       | 0.00 | 1.97           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,  | 20010618   | 1235       | 0.00 | 1.86           | EC LOGGED   |
| Electrical contact | Static       | 0     | Geologist,  | 20010629   | 1130       | 0.00 | 1.72           | SLUG TEST   |
| Electrical contact | Static       | 0     | Geologist,  | 20011005   | 1020       | 0.00 | 2.06           |             |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|---|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 1500       | 0                  | 0                | 0          | 0             | 0 | 0                          | 0.234       | 0       |         |

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## Date compiled: 11/21/01

|                      |                           |                    |      |                     |                         |                       |       |
|----------------------|---------------------------|--------------------|------|---------------------|-------------------------|-----------------------|-------|
| <b>Y Coord. [m]:</b> | -83823.635                | <b>Alt. No. 1:</b> |      | <b>Topo-set.:</b>   | Fiat surface, plain     | <b>Depth [m]:</b>     | 35.00 |
| <b>X Coord. [m]:</b> | 2950387.89                | <b>Alt. No. 2:</b> | P20D | <b>Site status:</b> | In use                  | <b>Collar h. [m]:</b> | 0.22  |
| <b>Altitude [m]:</b> | 1479.34                   |                    |      | <b>Site purp.:</b>  | Observation             | <b>Drain. reg.:</b>   | C220  |
| <b>Coord. acc.:</b>  | Accurate to within 1 unit |                    |      | <b>Use applic.:</b> | Industrial - industrial | <b>Diam. [mm]:</b>    | 165   |
| <b>Coord. meth.:</b> | Global Positioning System |                    |      | <b>Equipment:</b>   | No equipment            | <b>Rep. inst.:</b>    | JMA   |



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01088 Number: IVB-D88 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D88

Region Type:

Region Desc.: HECKETTS AREA / BOFSLAG / SCRAP MET

|                                         |           |                                      |                    |
|-----------------------------------------|-----------|--------------------------------------|--------------------|
| Y Coord. [m]: -83301.922                | Reg.IBB.: | Topo-set.: Flat surface, plain       | Depth [m]: 36.00   |
| X Coord. [m]: 2951444.214               | G-Nr.:    | Site status: In use                  | Col. ht. [m]: 0.25 |
| Altitude [m]: 1492.18                   |           | Site purp.: Observation              | Drain. reg.: C220  |
| Coord. acc.: Accurate to within 1 unit  |           | Use applic.: Industrial - industrial | Diam. [mm]: 165    |
| Coord. meth.: Global Positioning System |           | Equipment: No equipment              | Rep. inst.: JMA    |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010531    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 8.00                | 215           | 20010531    | ROTARY PERC. |
| JMA        | 8.00             | 36.00               | 165           | 20010531    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010531   | 0.00            | 8.00     | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 1.00         | 2.00     | BOULDERS       | Grey           |           |         |                 |           |
| 2.00         | 4.00     | SOIL           | Brown          | Reddish   |         |                 |           |
| 4.00         | 8.00     | SANDSTONE      | White          |           |         | Weathered       |           |
| 8.00         | 11.00    | SANDSTONE      | Pink           |           |         | Weathered       |           |
| 11.00        | 13.00    | SANDSTONE      | White          |           |         | Fractured       |           |
| 13.00        | 15.00    | SANDSTONE      | White          |           |         | Fresh           |           |
| 15.00        | 25.00    | SANDSTONE      | Pink           |           |         | Fresh           |           |
| 25.00        | 30.00    | SANDSTONE      | Brown          | Pinkish   |         | Weathered       |           |
| 30.00        | 32.00    | SHALE          | Brown          |           |         | Weathered       |           |
| 32.00        | 33.00    | SHALE          | Brown          |           |         | Fractured       |           |
| 33.00        | 36.00    | SHALE          | Black          | Greyish   |         | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010531   | 1515       | 0.00 | 13.50          | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010618   | 1315       | 0.00 | 4.33           | EC LOGGED   |
| Electrical contact | Static       | 0     | Geologist,    | 20010629   | 1200       | 0.00 | 4.43           | SLUG TEST   |
| Electrical contact | Static       | 0     | Field checked | 20010822   | 1500       | 0.00 | 4.92           |             |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: % [min] | Trans. [m³/d] | Perm. [mld] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-------------------|---------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 1800       | 0                  | 0                | 0          | 0 0 0             | 0             | 0.006       | 0       |         |

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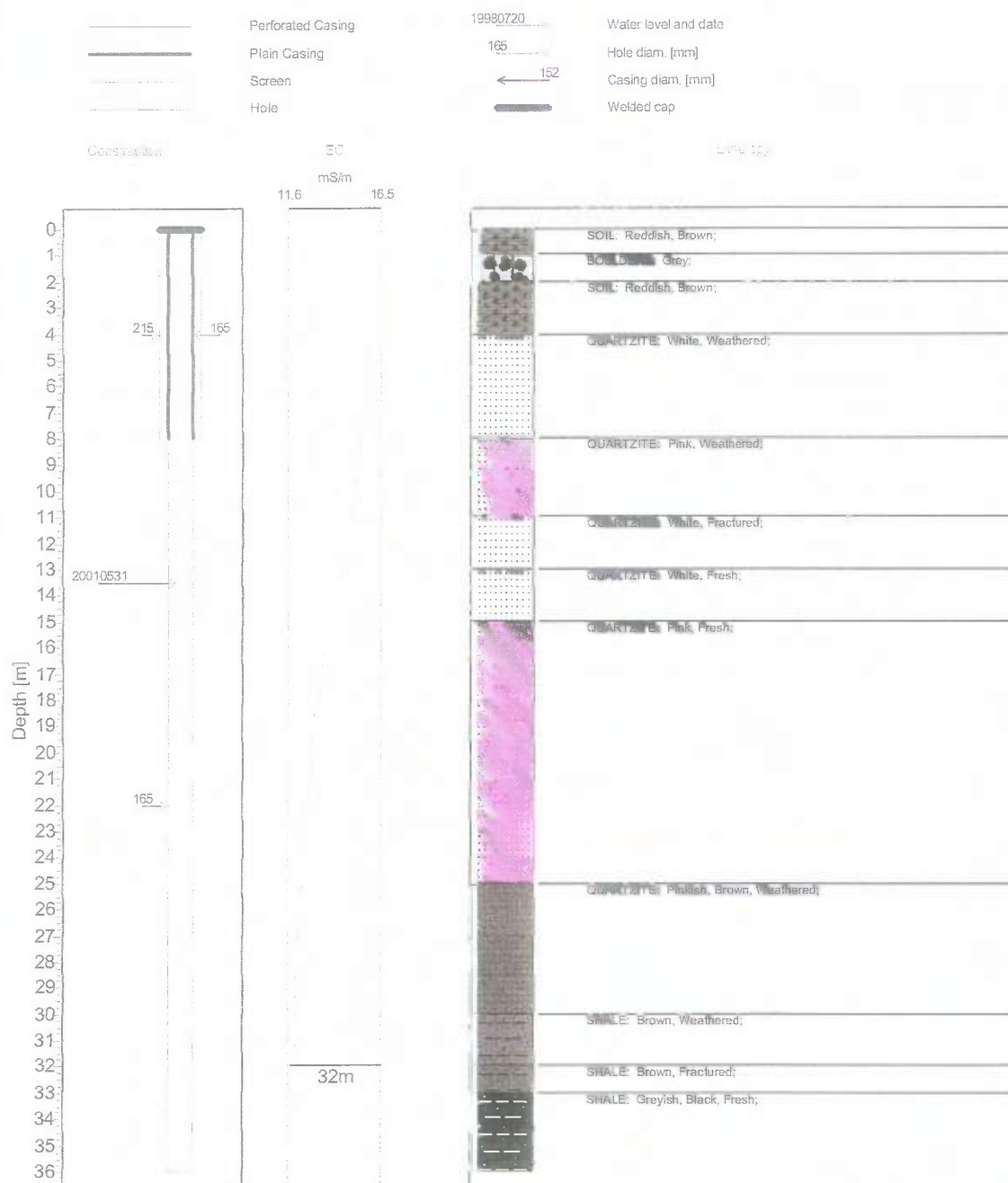
# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01088 Number: IVB-D88 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D88

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -83301.922                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 36.00    |
| X Coord. [m]: 2951444.21                | Alt. No. 2: P18D | Site status: In use                  | Collar h. [m]: 0.25 |
| Altitude [m]: 1492.18                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01089 Number: IVB-D89 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D89

Region Type:

Region Descr.: SECONDARY INDUSTRIES / SCRAPYARDS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80688.269                | Reg./BB.: MM07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2951214.628               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.34  |
| Altitude [m]: | 1494.92                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010531    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 12.00               | 215           | 20010531    | ROTARY PERC. |
| JMA        | 12.00            | 35.00               | 165           | 20010531    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010531   | 0.00            | 12.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 19.00            | 20.00    | 0.20        | Estimated    | Fractured    | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary    |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|--------------|
| 0.00         | 2.00     | SOIL           | Brown          | Dark      |         |                 |              |
| 2.00         | 8.00     | SOIL           | Yellow         | Light     |         |                 |              |
| 8.00         | 11.00    | DIABASE        | Brown          |           |         | Weathered       |              |
| 11.00        | 20.00    | DIABASE        | Brown          | Greyish   |         | Fractured       |              |
| 20.00        | 24.00    | DIABASE        | Grey           | Dark      |         | Fresh           |              |
| 24.00        | 35.00    | SHALE          | Black          | Greyish   |         | Fresh           | Carbonaceous |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment     |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-------------|
| Electrical contact | Static       | 0     | Geologist,    | 20010606   | 1505       | 0.00 | 3.20           | EC; SAMPLED |
| Electrical contact | Static       | 0     | Geologist,    | 20010619   | 1310       | 0.00 | 3.12           | EC LOGGED   |
| Electrical contact | Static       | 0     | Field checked | 20010823   | 0958       | 0.00 | 3.16           |             |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|-----------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 180        | 0                  | 0                 | 0          | 0 0 0 0         | 0                          | 0.859       | 0       |         |

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# Borehole Construction and Geological Log

Date compiled: 11/21/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01089 Number: IVB-D89

Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D89

Y Coord. [m]: -80688.269

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2951214.63

Alt. No. 2: P14D

Site status: In use

Collar h. [m]: 0.34

Altitude [m]: 1494.91

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

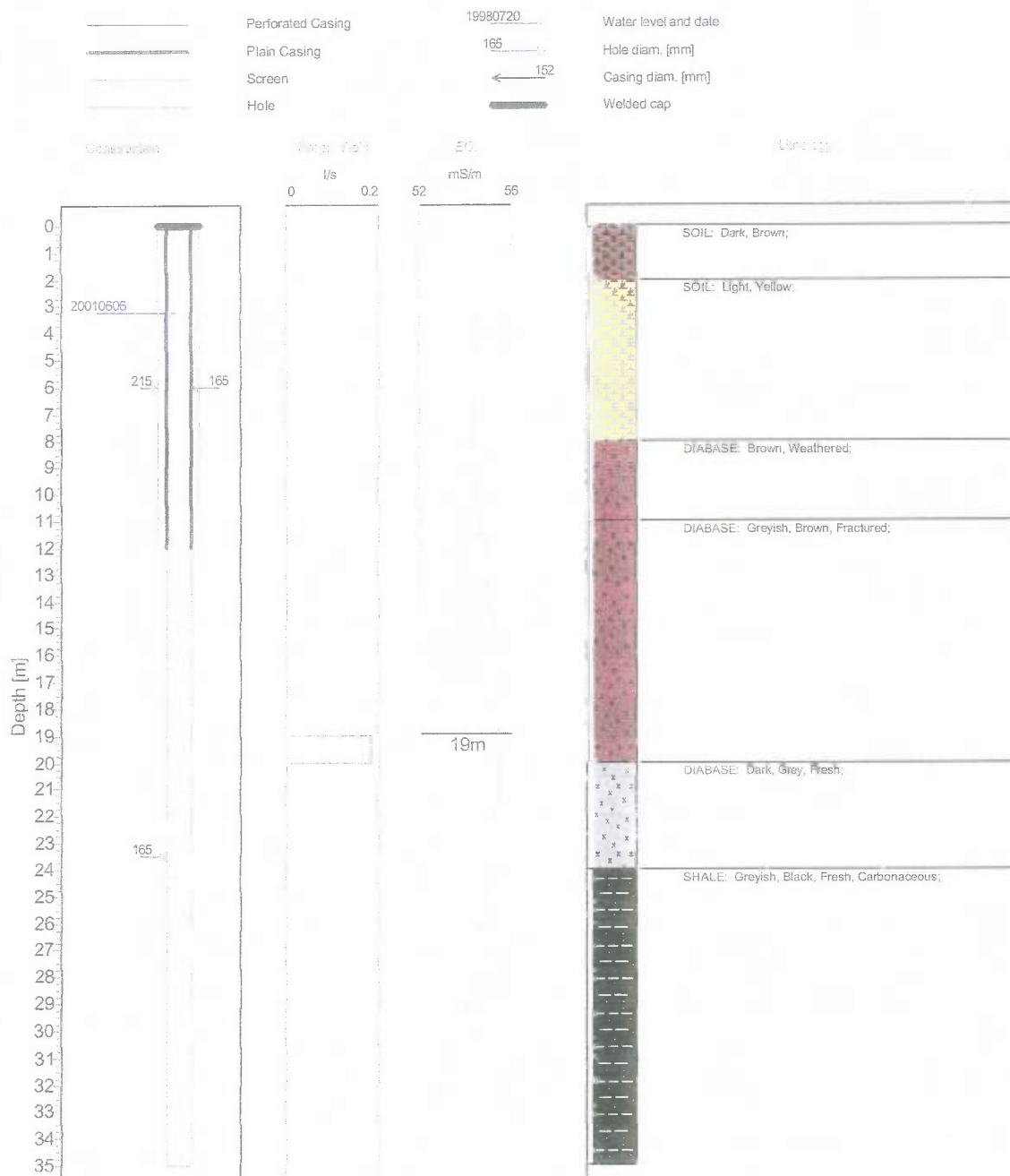
Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend



COMMENT:



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**SITE INFORMATION REPORT**

Date compiled: 11/27/01

**BASIC SITE INFORMATION:**

Site Identifier: 2627DB01090 Number: IVB-D90 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D90

Region Type:

Region Desc.: OPEN AREAS

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -80263.595                | Reg.IBB.: CS03 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2950417.835               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.48  |
| Altitude [m]: | 1488.84                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

**CONSTRUCTION:**

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010531    | EDMS       | Air percussion | Open bottom | Pumped with air    |        | 0 Pumped with     | 0.00         |

**HOLE DIAMETER:**

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 12.00               | 215           | 20010531    | ROTARY PERC. |
| JMA        | 12.00            | 35.00               | 165           | 20010531    | ROTARY PERC. |

**CASING DETAILS:**

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010531   | 0.00            | 9.00     | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010531   | 9.00            | 12.00    | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

**AQUIFER:**

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 14.00            | 15.00    | 0.30        | Estimated    | Fractured    | Geologist, technician, |         |

**GEOLOGY:**

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary    |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|--------------|
| 0.00         | 2.00     | SOIL           | Black          |           |         |                 |              |
| 2.00         | 8.00     | SHALE          | Brown          | Yellowish |         | Weathered       |              |
| 8.00         | 10.00    | SHALE          | Grey           | Light     |         | Weathered       |              |
| 10.00        | 21.00    | SHALE          | Grey           | Light     |         | Fractured       |              |
| 21.00        | 30.00    | SHALE          | Black          | Greyish   |         | Laminated       |              |
| 30.00        | 35.00    | SHALE          | Black          |           |         | Fresh           | Carbonaceous |

**WATER LEVEL:**

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010619   | 1217       | 0.00 | 1.75           | EC LOGGED |
| Electrical contact | Static       | 0     | Field checked | 20010810   | 1055       | 0.00 | 1.78           |           |

**TESTING DETAILS:**

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 120        | 0                  | 0                | 0          | 0             | 0       | 0                          | 1.494       | 0       |         |

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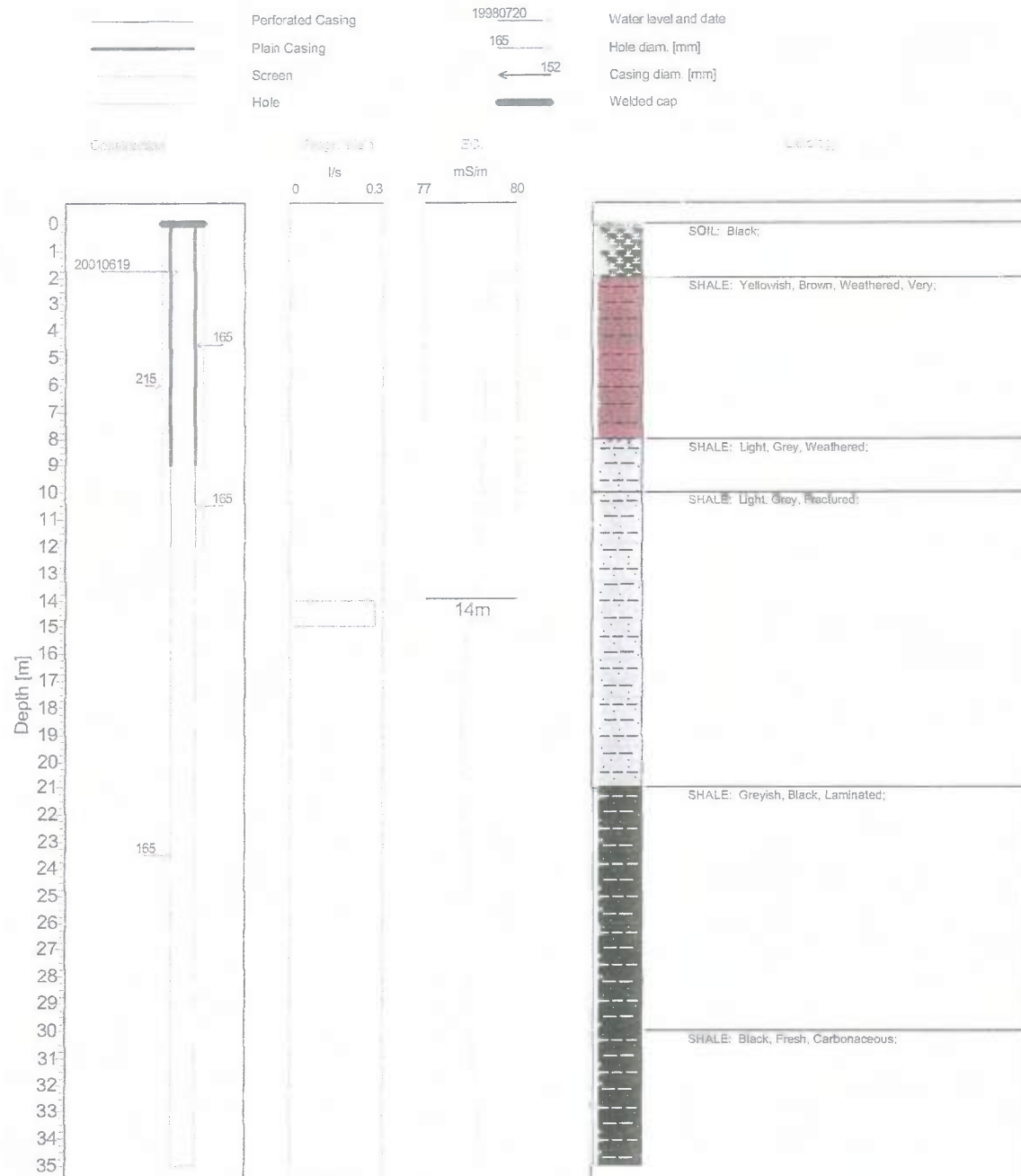
# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01090 Number: IVB-D90 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL SOURCE BOREHOLE IVB-D90

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -80263.595                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2950417.83                | Alt. No. 2: G50D | Site status: In use                  | Collar h. [m]: 0.48 |
| Altitude [m]: 1488.84                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01091 Number: IVB-D91 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D91

Region Type:

Region Desc.: HECKETTS AREA / BOFSLAG / SCRAP MET

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -82315.198                | Reg./BB.: SM01 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2951393.624               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.36  |
| Altitude [m]: | 1499.70                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|--------|-------------------|--------------|
| 20010604    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0      | Pumped with       | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment     |
|------------|------------------|---------------------|---------------|-------------|-------------|
| JMA        | 0.00             | 20.00               | 215           | 20010604    | ROTARY PERC |
| JMA        | 20.00            | 35.00               | 165           | 20010604    | ROTARY PERC |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010604   | 0.00            | 20.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture           | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|-------------------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          | Reddish   |                   |                 |           |
| 2.00         | 7.00     | CLAY           | Brown          | Reddish   |                   |                 |           |
| 7.00         | 20.00    | CLAY           | Brown          | Yellowish |                   |                 |           |
| 20.00        | 23.00    | SHALE          | Brown          | Light     | Very fine to fine | Weathered       |           |
| 23.00        | 24.00    | SANDSTONE      | Green          | Light     | Fine              | Weathered       |           |
| 24.00        | 30.00    | SHALE          | Brown          | Light     | Very fine to fine | Fractured       |           |
| 30.00        | 35.00    | SHALE          | Grey           | Light     | Very fine to fine | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment  |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|----------|
| Electrical contact | Static       | 0     | Field checked | 20011004   | 1240       | 0.00 | 3.53           |          |
| Electrical contact | Static       | 0     | Field checked | 20011010   | 0730       | 0.00 | 3.45           | SLUGTEST |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20011010     | 1500       | 0                  |                  |            |               |                            | 0.025       |         |         |

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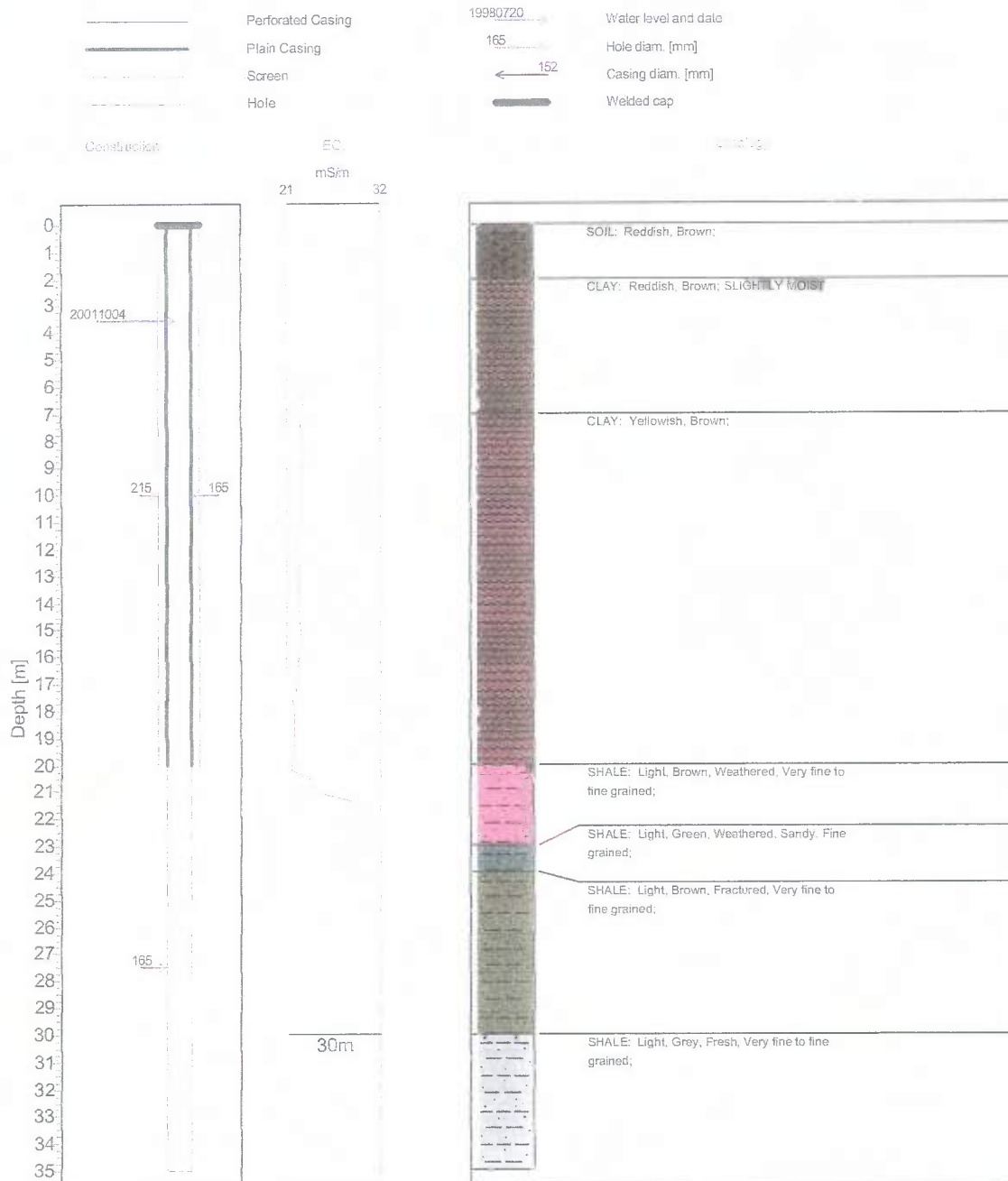
# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01091 Number: IVB-D91 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D91

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -82315.198                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2951393.62                | Alt. No. 2: P17D | Site status: In use                  | Collar h. [m]: 0.36 |
| Altitude [m]: 1499.70                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01092 Number: IVB-D92 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D92

Region Type:

Region Descr.: HECKETTS AREA / BOFSLAG / SCRAP MET

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -81803.121                | Reg./BB.: SM01 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2951390.618               | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.37  |
| Altitude [m]: | 1501.74                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010605    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment     |
|------------|------------------|---------------------|---------------|-------------|-------------|
| JMA        | 0.00             | 18.00               | 215           | 20010605    | ROTARY PERC |
| JMA        | 18.00            | 35.00               | 165           | 20010605    | ROTARY PERC |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010605   | 0.00            | 18.00    | 165        | Steel    | 3            | Plain casing | 0      | 0     | 0           | 0           |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture           | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|-------------------|-----------------|-----------|
| 0.00         | 1.00     | SOIL           | Brown          | Reddish   |                   |                 |           |
| 1.00         | 2.00     | BOULDERS       | Brown          |           |                   |                 |           |
| 2.00         | 3.00     | SOIL           | Brown          | Reddish   |                   |                 |           |
| 3.00         | 13.00    | SHALE          | Brown          | Light     |                   | Weathered       |           |
| 13.00        | 16.00    | SHALE          | Grey           | Brownish  | Very fine to fine | Fractured       |           |
| 16.00        | 18.00    | SHALE          | Grey           | Light     | Very fine to fine | Fractured       |           |
| 18.00        | 25.00    | SHALE          | Grey           | Light     | Very fine to fine | Fresh           |           |
| 25.00        | 27.00    | SHALE          | Grey           | Light     | Very fine to fine | Fractured       |           |
| 27.00        | 30.00    | DIABASE        | Grey           | Bluish    | Medium            | Fractured       |           |
| 30.00        | 35.00    | DIABASE        | Grey           | Bluish    | Medium            | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010619   | 1350       | 0.00 | 3.70           | EC LOGGED |
| Electrical contact | Static       | 0     | Field checked | 20010822   | 1033       | 0.00 | 4.08           |           |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: % | Trans. [m <sup>3</sup> /d] | Perm. [mld] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|-------------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 1500       | 0                  | 0                | 0          | 0 0 0 0     | 0                          | 0.022       | 0       |         |

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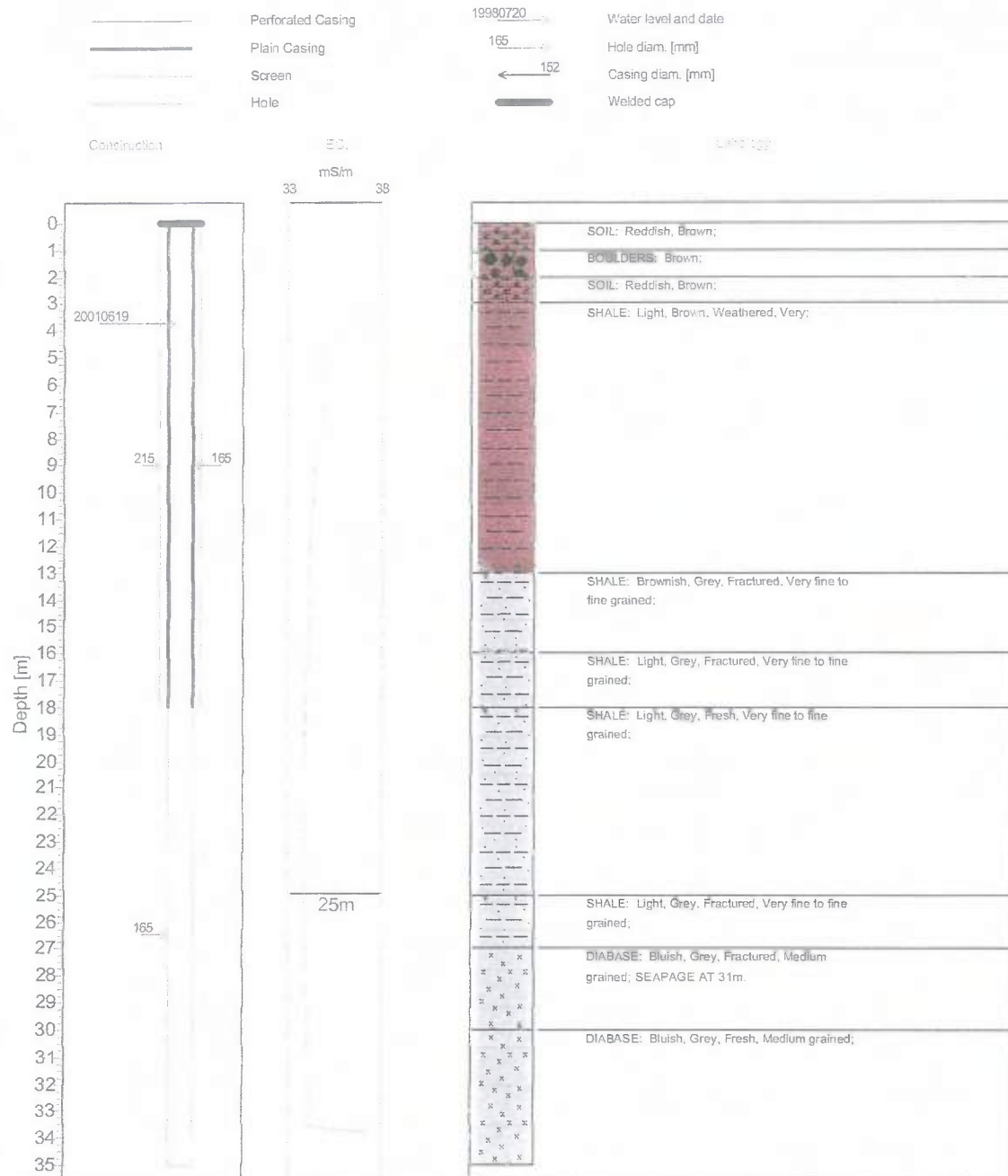
# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01092 Number: IVB-D92 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D92

|                                         |                  |                                      |                     |
|-----------------------------------------|------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -81803.121                | Alt. No. 1:      | Topo-set.: Flat surface, plain       | Depth [m]: 35.00    |
| X Coord. [m]: 2951390.62                | Alt. No. 2: P16D | Site status: In use                  | Collar h. [m]: 0.37 |
| Altitude [m]: 1501.73                   |                  | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                  | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                  | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01093 Number: IVB-D93 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D93

Region Type:

Region Descr.: COKE BREEZE STOCKPILE

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -81965.509                | Reg.IBB.: CS07 | Topo-set.: Flat surface, plain       | Depth [m]:    | 43.00 |
| X Coord. [m]: | 2946037.04                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.25  |
| Altitude [m]: | 1494.96                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 125   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish      | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|------------------|--------------------|-------------------|--------------|
| 20010607    | EDMS       | Air percussion | Gravel pack with | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 21.90               | 215           | 20010607    | ROTARY PERC  |
| JMA        | 21.90            | 29.00               | 165           | 20010607    | ROTARY PERC  |
| JMA        | 29.00            | 43.00               | 165           | 20010725    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010725   | 0.00            | 25.00    | 125        | Steel    | 3            | Plain casing          |        |       |             |             |
| 20010725   | 0.00            | 30.00    | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010725   | 25.00           | 43.00    | 125        | Steel    | 3            | Perforated or slotted | 25     | 2     | 25          | 10          |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 33.00            | 34.00    | 1.80        | Estimated    |              | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | CLAY           | Brown          | Dark      |         |                 |           |
| 2.00         | 10.00    | CLAY           | Brown          | Yellowish |         |                 |           |
| 10.00        | 15.00    | CLAY           | Brown          | Light     |         |                 |           |
| 15.00        | 18.00    | SHALE          | Brown          |           |         | Weathered       |           |
| 18.00        | 21.00    | DIABASE        | Brown          | Greyish   | Medium  | Weathered       | Clayey    |
| 21.00        | 29.00    | DIABASE        | Grey           | Brownish  | Medium  | Fractured       |           |
| 29.00        | 33.00    | DIABASE        | Grey           | Brownish  | Medium  | Fractured       | Clayey    |
| 33.00        | 36.00    | DIABASE        | Grey           |           |         | Fractured       |           |
| 36.00        | 43.00    | DIABASE        | Grey           | Dark      |         | Fresh           |           |

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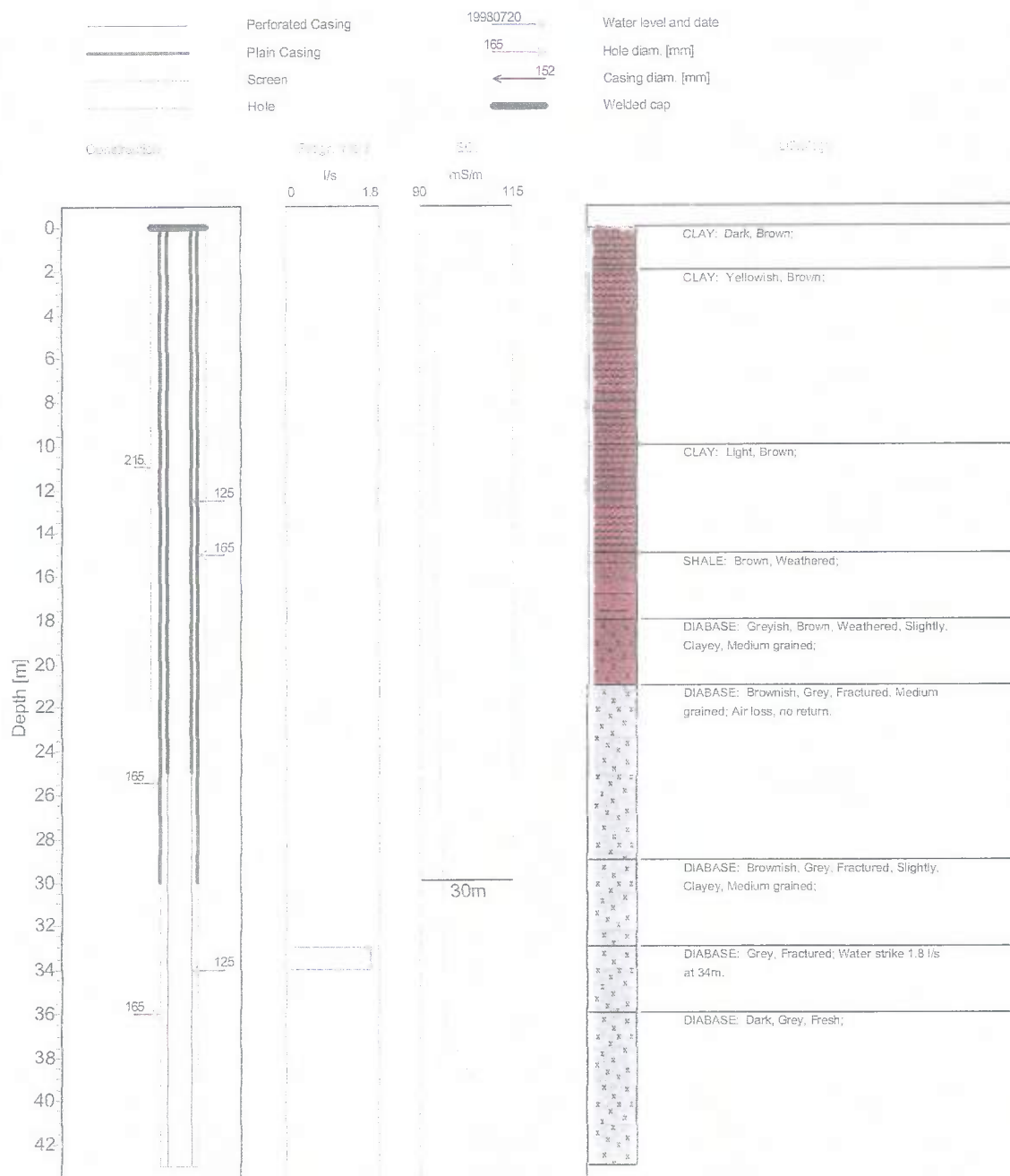
# Borehole Construction and Geological Log

Date compiled: 11/6/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01093 Number: IVB-D93 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D93

|                                         |                 |                                      |                     |
|-----------------------------------------|-----------------|--------------------------------------|---------------------|
| Y Coord. [m]: -81965.509                | Alt. No. 1:     | Topo-set.: Flat surface, plain       | Depth [m]: 43.00    |
| X Coord. [m]: 2946037.04                | Alt. No. 2: P6D | Site status: In use                  | Collar h. [m]: 0.25 |
| Altitude [m]: 1494.96                   |                 | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                 | Use applic.: Industrial - industrial | Diam. [mm]: 125     |
| Coord. meth.: Global Positioning System |                 | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:

Page 1



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01094 Number: IVB-D94 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D94

Region Type:

Region Descr.: PROPOSED NEW WASTE SITE

|               |                           |                |                                      |               |       |
|---------------|---------------------------|----------------|--------------------------------------|---------------|-------|
| Y Coord. [m]: | -84679.887                | Reg.IBB.: CS14 | Topo-set.: Flat surface, plain       | Depth [m]:    | 35.00 |
| X Coord. [m]: | 2947410.75                | G-Nr.:         | Site status: In use                  | Col. ht. [m]: | 0.31  |
| Altitude [m]: | 1502.32                   |                | Site purp.: Observation              | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |                | Use applic.: Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |                | Equipment: No equipment              | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. treatment | Special     | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|------------------|-------------|--------------|
| 20010607    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0                | Pumped with | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment     |
|------------|------------------|---------------------|---------------|-------------|-------------|
| JMA        | 0.00             | 18.00               | 215           | 20010607    | ROTARY PERC |
| JMA        | 18.00            | 35.00               | 165           | 20010607    | ROTARY PERC |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010607   | 0.00            | 15.00    | 165        | Steel    | 3            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010607   | 15.00           | 18.00    | 165        | Steel    | 3            | Perforated or slotted | 250    | 2     | 43          | 250         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type    | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|-----------------|------------------------|---------|
| JMA        | 17.00            | 18.00    | 0.10        | Estimated    | Weathered basin | Geologist, technician, |         |
| JMA        | 24.00            | 25.00    | 0.30        | Estimated    | Fractured       | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|---------|-----------------|-----------|
| 0.00         | 2.00     | SOIL           | Brown          | Dark      |         |                 |           |
| 2.00         | 3.00     | BOULDERS       | Brown          | Light     |         |                 |           |
| 3.00         | 10.00    | SOIL           | Brown          |           |         | Clayey          |           |
| 10.00        | 15.00    | DOLERITE       | Brown          |           |         | Weathered       |           |
| 15.00        | 18.00    | DOLERITE       | Brown          |           | Medium  | Weathered       |           |
| 18.00        | 27.00    | DOLERITE       | Grey           | Brownish  | Medium  | Fractured       |           |
| 27.00        | 35.00    | DOLERITE       | Grey           | Light     | Medium  | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|---------|
| Electrical contact | Static       | 0     | Field checked | 20010815   | 0920       | 0.00 | 3.31           |         |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010724     | 1500       | 0                  | 0                 | 0          | 0             | 0 | 0                          | 0.046       | 0       |         |

Draft for discussion  
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# Borehole Construction and Geological Log

Date compiled: 11/6/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01094 Number: IVB-D94

Site type: Borehole

Distr./Farm No.:

Site Name/Descr.: ISCOR FLATSTEEL PERIMETER BOREHOLE IVB-D94

Y Coord. [m]: -84679.887

Alt. No. 1:

Topo-set.: Flat surface, plain

Depth [m]: 35.00

X Coord. [m]: 2947410.75

Alt. No. 2: P24D

Site status: In use

Collar h. [m]: 0.31

Altitude [m]: 1502.32

Site purp.: Observation

Drain. reg.: C220

Coord. acc.: Accurate to within 1 unit

Use applic.: Industrial - industrial

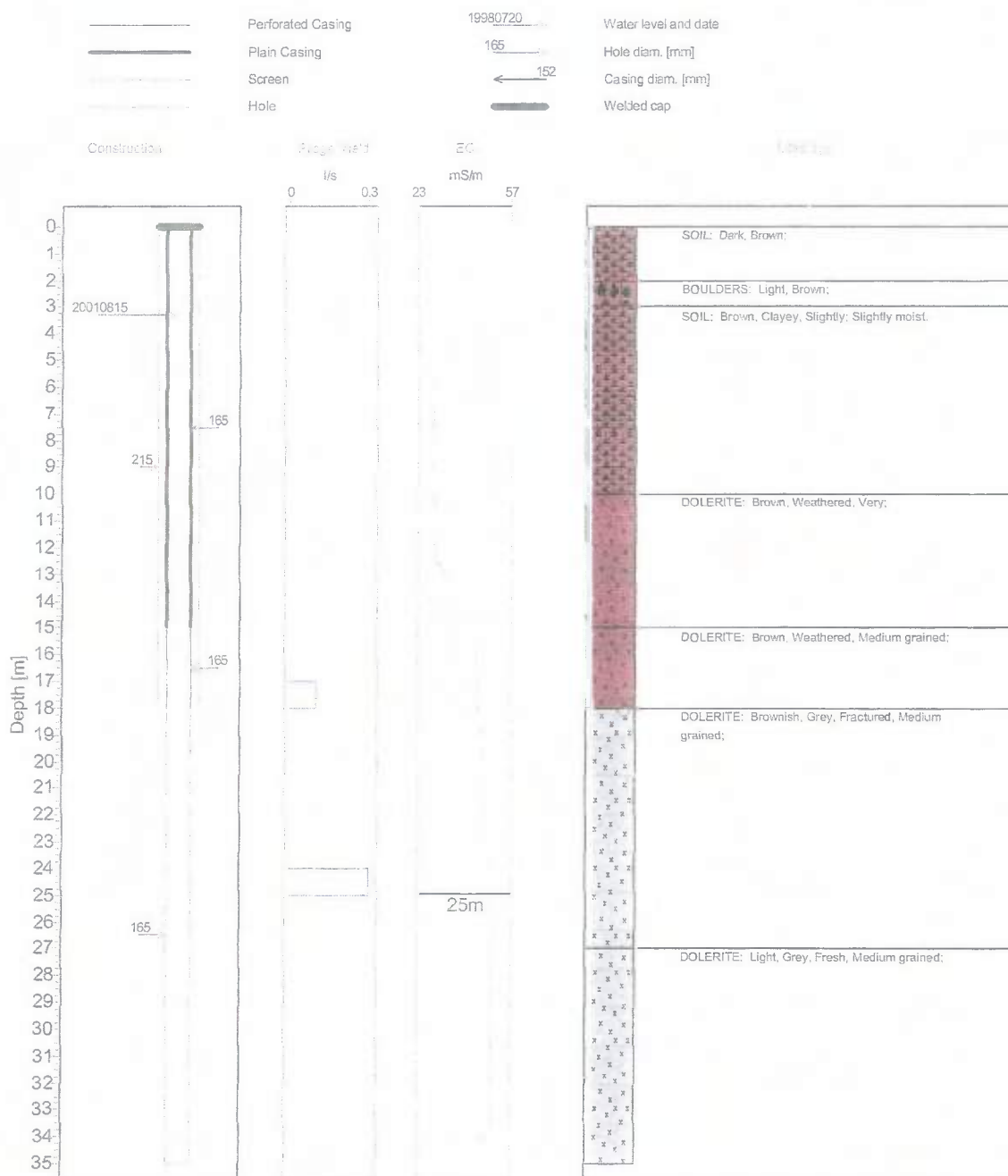
Diam. [mm]: 165

Coord. meth.: Global Positioning System

Equipment: No equipment

Rep. inst.: JMA

## Construction and Geohydrological Legend



COMMENT:

Page 1



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01095 Number: IVB-D95 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D95

Region Type:

Region Descr.: FARMLAND / TETP PLANT AREA

|               |                           |           |              |                         |               |       |
|---------------|---------------------------|-----------|--------------|-------------------------|---------------|-------|
| Y Coord. [m]: | -79121.791                | Reg.IBB.: | Topo-set.:   | Flat surface, plain     | Depth [m]:    | 31.00 |
| X Coord. [m]: | 2950505.929               | G-Nr.:    | Site status: | In use                  | Col. ht. [m]: | 0.34  |
| Altitude [m]: | 1480.52                   |           | Site purp.:  | Observation             | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |           | Use applic.: | Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |           | Equipment:   | No equipment            | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010612    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 16.00               | 215           | 20010612    | ROTARY PERC. |
| JMA        | 16.00            | 31.00               | 165           | 20010612    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|--------------|--------|-------|-------------|-------------|
| 20010612   | 0.00            | 16.00    | 165        | Steel    | 2            | Plain casing | 0      | 0     | 0           | 0           |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 10.00            | 12.00    | 0.30        | Estimated    | Fractured    | Geologist, technician, |         |
| JMA        | 19.00            | 20.00    | 0.20        | Estimated    | Fractured    | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture           | Feature Primary | Secondary  |
|--------------|----------|----------------|----------------|-----------|-------------------|-----------------|------------|
| 0.00         | 2.00     | SOIL           | Grey           | Dark      |                   | Clayey          |            |
| 2.00         | 3.00     | CLAY           | Grey           | Light     |                   | Calcareous      |            |
| 3.00         | 4.00     | CLAY           | Brown          |           |                   | Sandy           | Calcareous |
| 4.00         | 10.00    | LAVA           | Brown          | Olive     | Fine              | Weathered       | Clayey     |
| 10.00        | 16.00    | LAVA           | Grey           | Greenish  | Fine              | Weathered       | Fractured  |
| 16.00        | 17.00    | LAVA           | Grey           | Greenish  | Fine              | Fractured       | Fresh      |
| 17.00        | 20.00    | SHALE          | Grey           | Brownish  | Very fine to fine | Fractured       | Baked      |
| 20.00        | 22.00    | DIABASE        | Grey           | Brownish  | Medium            | Fractured       | Fresh      |
| 22.00        | 31.00    | DIABASE        | Grey           | Dark      | Medium            | Fresh           | Hard       |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010620   | 0800       | 0.00 | 4.04           | SLUG TEST |
| Electrical contact | Static       | 0     | Field checked | 20010828   | 1030       | 0.00 | 4.14           |           |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>3</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 600        | 0                  | 0                 | 0          | 0             | 0       | 0                          | 1.303       | 0       |         |

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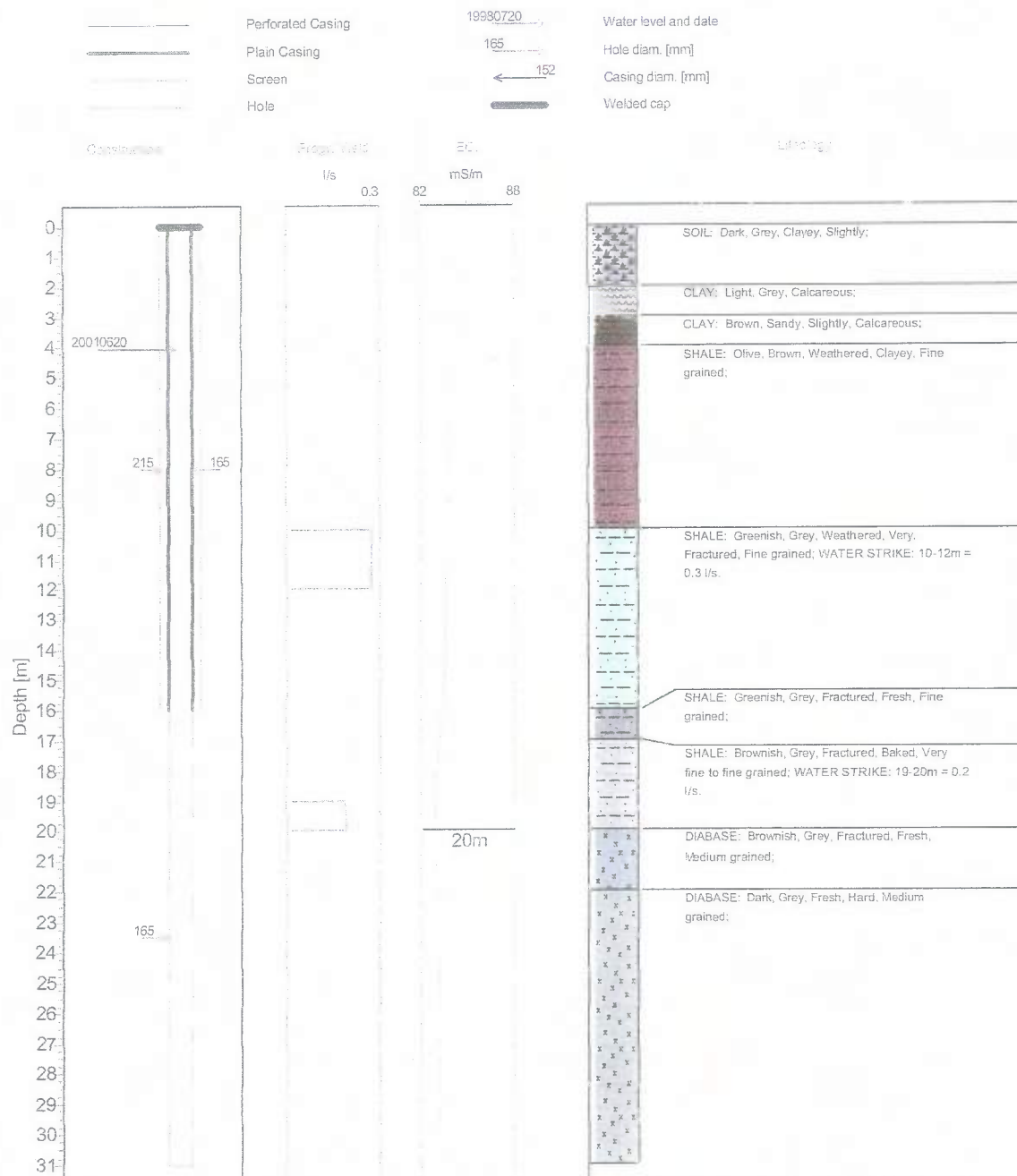
# Borehole Construction and Geological Log

Date compiled: 5/31/02

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01095 Number: IVB-D95 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D95

|                                         |                    |                                      |                     |
|-----------------------------------------|--------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -79121.791                | Alt. No. 1:        | Topo-set.: Flat surface, plain       | Depth [m]: 31.00    |
| X Coord. [m]: 2950505.93                | Alt. No. 2: PL-12D | Site status: In use                  | Collar h. [m]: 0.34 |
| Altitude [m]: 1480.52                   |                    | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                    | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                    | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



COMMENT:

Page 1

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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01096 Number: IVB-D96 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D96

Region Type:

Region Descr.: FARMLAND / TETP PLANT AREA

|               |                           |           |              |                         |               |       |
|---------------|---------------------------|-----------|--------------|-------------------------|---------------|-------|
| Y Coord. [m]: | -78809.815                | Reg.IBB.: | Topo-set.:   | In or along river       | Depth [m]:    | 31.00 |
| X Coord. [m]: | 2949829.791               | G-Nr.:    | Site status: | In use                  | Col. ht. [m]: | 0.48  |
| Altitude [m]: | 1470.81                   |           | Site purp.:  | Observation             | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |           | Use applic.: | Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |           | Equipment:   | No equipment            | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Durat. treatment | Special     | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|------------------|-------------|--------------|
| 20010612    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0                | Pumped with | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 19.00               | 215           | 20010612    | ROTARY PERC. |
| JMA        | 19.00            | 31.00               | 165           | 20010612    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010612   | 0.00            | 12.00    | 165        | Steel    | 2            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010612   | 12.00           | 31.00    | 165        | Steel    | 2            | Perforated or slotted | 150    | 4     | 135         | 300         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 12.00            | 15.00    | 7.50        | Estimated    | Fractured    | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture           | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|-------------------|-----------------|-----------|
| 0.00         | 0.50     | SOIL           | Grey           | Dark      |                   |                 |           |
| 0.50         | 2.00     | CLAY           | Grey           | Dark      |                   |                 |           |
| 2.00         | 4.00     | SHALE          | Brown          | Yellowish | Very fine to fine | Weathered       |           |
| 4.00         | 8.00     | SHALE          | Brown          | Light     | Very fine to fine | Weathered       |           |
| 8.00         | 11.00    | SHALE          | Brown          |           | Very fine to fine | Weathered       |           |
| 11.00        | 14.00    | SHALE          | Brown          | Dark      | Very fine to fine | Weathered       | Fractured |
| 14.00        | 16.00    | SHALE          | Brown          | Dark      | Very fine to fine | Fractured       |           |
| 16.00        | 17.00    | SHALE          | Grey           | Brownish  | Very fine to fine | Fractured       | Weathered |
| 17.00        | 20.50    | SLATE          | Grey           | Bluish    | Very fine to fine | Fresh           | Hard      |
| 20.50        | 21.00    | SLATE          | Grey           | Bluish    | Very fine to fine | Fractured       |           |
| 21.00        | 25.50    | SLATE          | Grey           | Bluish    | Very fine to fine | Fresh           | Hard      |
| 25.50        | 31.00    | DIABASE        | Grey           | Greenish  | Fine              | Fresh           |           |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010620   | 0830       | 0.00 | 2.03           | SLUG TEST |
| Electrical contact | Static       | 0     | Field checked | 20010828   | 0950       | 0.00 | 2.07           |           |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate [l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>3</sup> /d] | Perm. [md] | Storat. | Comment |
|-------------|--------------|------------|--------------------|-------------------|------------|---------------|---------|----------------------------|------------|---------|---------|
| SLUGTEST    | 20010706     | 120        | 0                  | 0                 | 0          | 0             | 0       | 0                          | 5.834      | 0       |         |

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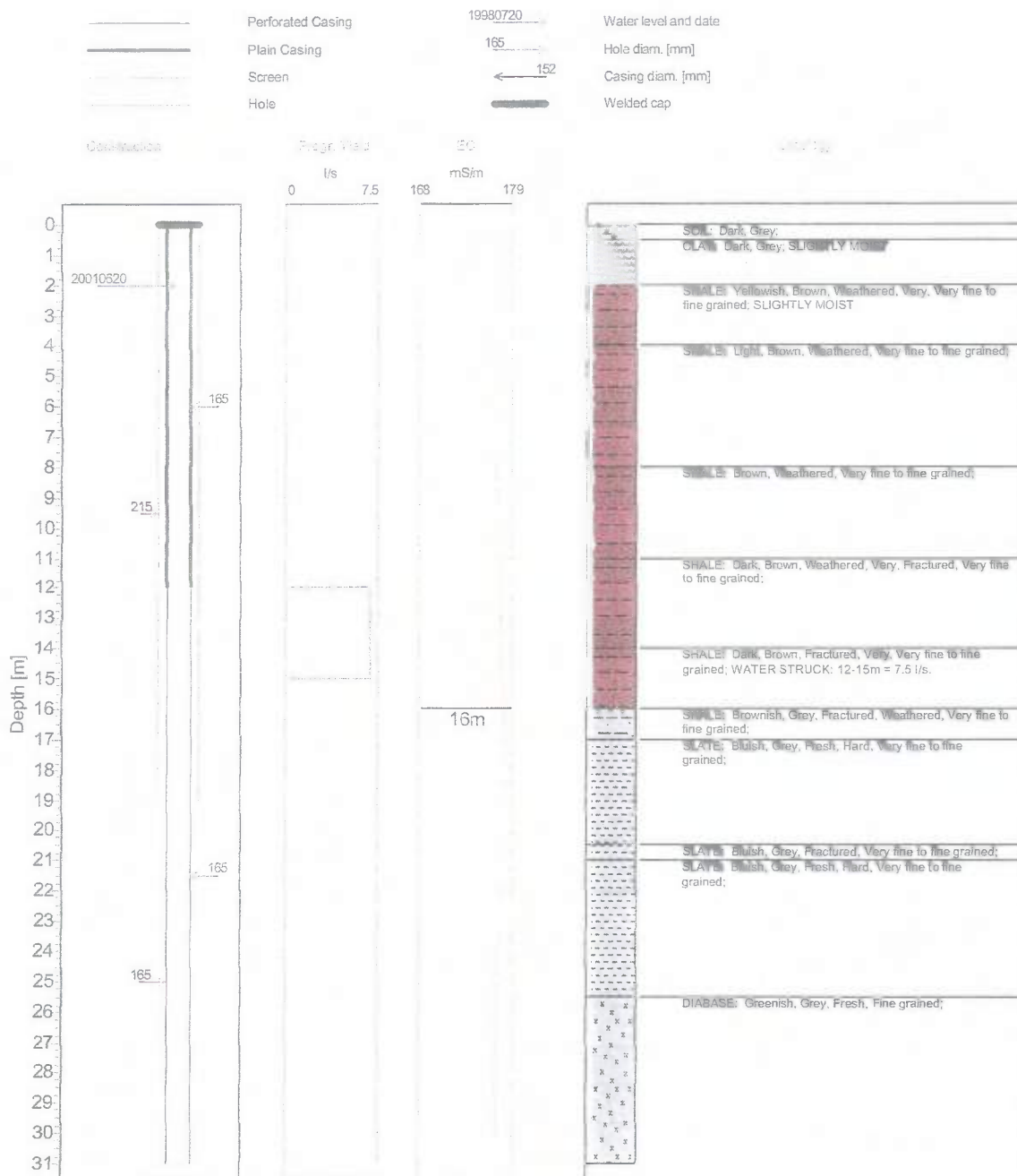
# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01096 Number: IVB-D96 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D96

|                                         |                    |                                      |                     |
|-----------------------------------------|--------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -78809.815                | Alt. No. 1:        | Topo-set.: In or along river         | Depth [m]: 31.00    |
| X Coord. [m]: 2949829.79                | Alt. No. 2: PL-11D | Site status: In use                  | Collar h. [m]: 0.48 |
| Altitude [m]: 1470.81                   |                    | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                    | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                    | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geohydrological Legend



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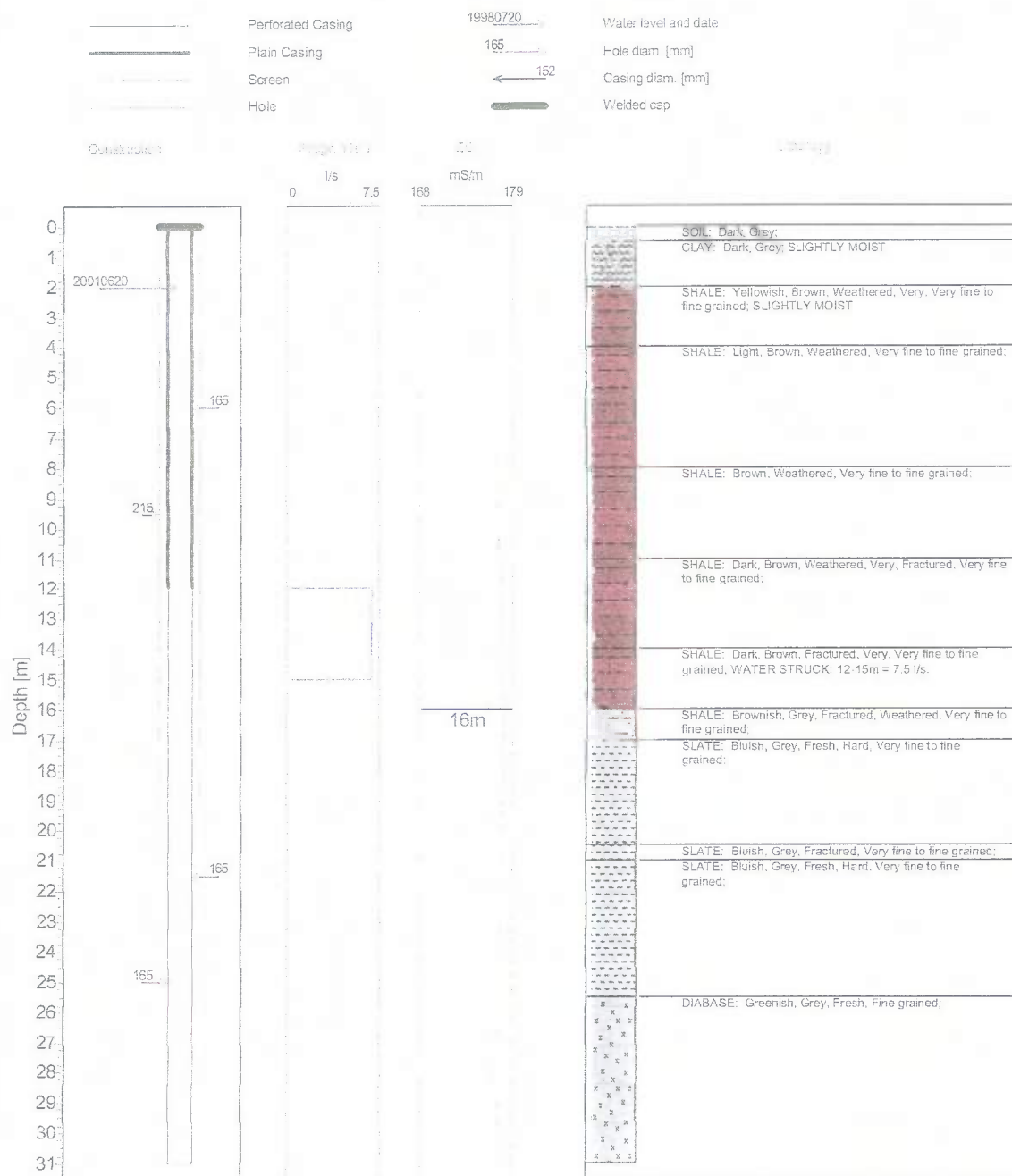
# Borehole Construction and Geological Log

Date compiled: 11/21/01

**BASIC SITE INFORMATION:** Site Identifier: 2627DB01096 Number: IVB-D96 Site type: Borehole  
Distr./Farm No.: Site Name/Descr.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D96

|                                         |                    |                                      |                     |
|-----------------------------------------|--------------------|--------------------------------------|---------------------|
| Y Coord. [m]: -78809.815                | Alt. No. 1:        | Topo-set.: In or along river         | Depth [m]: 31.00    |
| X Coord. [m]: 2949829.79                | Alt. No. 2: PL-11D | Site status: In use                  | Collar h. [m]: 0.48 |
| Altitude [m]: 1470.81                   |                    | Site purp.: Observation              | Drain. reg.: C220   |
| Coord. acc.: Accurate to within 1 unit  |                    | Use applic.: Industrial - industrial | Diam. [mm]: 165     |
| Coord. meth.: Global Positioning System |                    | Equipment: No equipment              | Rep. inst.: JMA     |

## Construction and Geological Log



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# SITE INFORMATION REPORT

Date compiled: 11/27/01

## BASIC SITE INFORMATION:

Site Identifier: 2627DB01097 Number: IVB-D97 Site type: Borehole

Distr./Farm No.:

Site Name/Des.: ISCOR FLATSTEEL PLUME BOREHOLE IVB-D97

Region Type:

Region Descr.: FARMLAND / WESTERN BOUNDARY / DAM10

|               |                           |           |              |                         |               |       |
|---------------|---------------------------|-----------|--------------|-------------------------|---------------|-------|
| Y Coord. [m]: | -78942.041                | Reg./BB.: | Topo-set.:   | Flat surface, plain     | Depth [m]:    | 41.00 |
| X Coord. [m]: | 2948616.771               | G-Nr.:    | Site status: | In use                  | Col. ht. [m]: | 0.56  |
| Altitude [m]: | 1483.20                   |           | Site purp.:  | Observation             | Drain. reg.:  | C220  |
| Coord. acc.:  | Accurate to within 1 unit |           | Use applic.: | Industrial - industrial | Diam. [mm]:   | 165   |
| Coord. meth.: | Global Positioning System |           | Equipment:   | No equipment            | Rep. inst.:   | JMA   |

## CONSTRUCTION:

| Date const. | Contractor | Constr. meth.  | Type finish | Development Method | Special treatment | Constr. cost |
|-------------|------------|----------------|-------------|--------------------|-------------------|--------------|
| 20010613    | EDMS       | Air percussion | Open bottom | Pumped with air    | 0 Pumped with     | 0.00         |

## HOLE DIAMETER:

| Rep. Inst. | Depth to Top [m] | Depth to Bottom [m] | Diameter [mm] | Date const. | Comment      |
|------------|------------------|---------------------|---------------|-------------|--------------|
| JMA        | 0.00             | 41.00               | 215           | 20010613    | ROTARY PERC. |

## CASING DETAILS:

| Date inst. | Dep. to top [m] | Bot. [m] | Diam. [mm] | Material | Thickn. [mm] | Opening Type          | Length | Width | Hori. dist. | Vert. dist. |
|------------|-----------------|----------|------------|----------|--------------|-----------------------|--------|-------|-------------|-------------|
| 20010613   | 0.00            | 27.00    | 165        | Steel    | 2            | Plain casing          | 0      | 0     | 0           | 0           |
| 20010613   | 27.00           | 41.00    | 165        | Steel    | 2            | Perforated or slotted | 150    | 4     | 178         | 385         |

## AQUIFER:

| Rep. Inst. | Depth to Top [m] | Bot. [m] | Yield [l/s] | Method meas. | Aquifer type | Info source            | Comment |
|------------|------------------|----------|-------------|--------------|--------------|------------------------|---------|
| JMA        | 27.00            | 28.00    | 0.07        | Estimated    | Fractured    | Geologist, technician, |         |
| JMA        | 37.00            | 38.00    | 0.25        | Estimated    | Fractured    | Geologist, technician, |         |

## GEOLOGY:

| Dep. Top [m] | Bot. [m] | Lithology code | Colour Primary | Secondary | Texture           | Feature Primary | Secondary |
|--------------|----------|----------------|----------------|-----------|-------------------|-----------------|-----------|
| 0.00         | 1.00     | FERRICRETE     | Brown          | Yellowish |                   | Weathered       | Clayey    |
| 1.00         | 2.00     | FERRICRETE     | Brown          | Reddish   |                   | Weathered       |           |
| 2.00         | 3.00     | SHALE          | Brown          | Pinkish   | Very fine to fine | Weathered       |           |
| 3.00         | 8.00     | SHALE          | Brown          | Yellowish | Very fine to fine | Weathered       |           |
| 8.00         | 13.00    | DIABASE        | Brown          | Yellowish |                   | Weathered       | Clayey    |
| 13.00        | 19.00    | DIABASE        | Brown          | Greyish   | Medium            | Weathered       | Fractured |
| 19.00        | 20.00    | DIABASE        | Grey           | Brownish  | Medium            | Fractured       | Weathered |
| 20.00        | 23.00    | DIABASE        | Brown          | Greyish   | Medium            | Weathered       | Clayey    |
| 23.00        | 26.00    | DIABASE        | Grey           | Brownish  | Medium            | Weathered       | Fractured |
| 26.00        | 27.00    | DIABASE        | Grey           | Dark      | Medium            | Fractured       |           |
| 27.00        | 34.00    | SLATE          | Grey           | Brownish  | Very fine to fine | Fractured       | Fresh     |
| 34.00        | 38.00    | SLATE          | Grey           | Brownish  | Very fine to fine | Fractured       |           |
| 38.00        | 41.00    | SLATE          | Grey           | Bluish    | Very fine to fine | Fresh           | Fractured |

## WATER LEVEL:

| Meth. meas.        | Level status | Piez. | Info source   | Date meas. | Time meas. | Sec. | Water lev. [m] | Comment   |
|--------------------|--------------|-------|---------------|------------|------------|------|----------------|-----------|
| Electrical contact | Static       | 0     | Geologist,    | 20010620   | 0900       | 0.00 | 4.11           | SLUG TEST |
| Electrical contact | Static       | 0     | Field checked | 20010828   | 0850       | 0.00 | 4.73           |           |

## TESTING DETAILS:

| Description | Date started | Durat. [s] | Depth to intk. [m] | Disch. rate[l/s] | Drawd. [m] | Recovery: [m] | % [min] | Trans. [m <sup>2</sup> /d] | Perm. [m/d] | Storat. | Comment |
|-------------|--------------|------------|--------------------|------------------|------------|---------------|---------|----------------------------|-------------|---------|---------|
| SLUGTEST    | 20010706     | 1500       | 0                  | 0                | 0          | 0             | 0       | 0                          | 0.154       | 0       |         |

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