**Attachment 6** 

Soil Boring Logs (including PID readings)

|            |           |         | ILLINOIS ENVIRONMENTAL PRO   | ГЕСТ            | 101          | AGE           | ENC               | Y FI        | ELC             | BC     | RIN         | GLOG   |
|------------|-----------|---------|--|-----------------|--------------|---------------|-------------------|-------------|-----------------|--------|-------------|--|
| IEPA       | File      | No      | .: <u>0310605500</u> Fed. ID No.:  |                 |              |               | Coun              | ty:_        | Cook            | :      |             |  |
| Site F     | ile       | Nan     | ne: Abandoned Crestwood Well #1  |                 |              |               |                   | _Bor        | ing /           | Wel    | I No.:      | GP-1   |
| GPS        | C00       | rdin    | ates: Northing <u>Unspecified</u> Easting  | g <u>Uns</u>    | pecif        | īed           |                   | Dat         | e: S            | tart . | 06/08       | 1/09 Finish <u>06/08/09</u>                      |
| Equip      | me        | nt U    | sed: <u>Geoprobe 6600/Macro-Core Sampler/Disc</u>  | crete S         | lamp         | ler           |                   | Su          | face            | Elev   | ation       | : Unspecified                                    |
| Locat      | ion       | Des     | cription: <u>West of tennis courts near Tinley Cr</u>  | eek.            |              |               | - 0               |             |                 |        |             | 17.5 Feet  |
| -          |           |         |  |                 |              |               | - #               | Log         | ged             | By:    | _Jam        | nes M. Salch                                     |
| Depth (ft) | Lithology | SS      | Description  | Depth (ft)      | Sample Depth | Sample Number | Sampling Interval | Sample Type | Sample Recovery | Rea    | /A<br>dings | Remarks  |
| Dep        | Lith      | USCS    |  | Dep             | Sar          | Sar           | San               | San         | San             | E      | E           |  |
| 0_         |           | e - 20  |  | 0               | _            | 5<br>6        |                   |             | ~               |        |             |  |
| 1          | H         | CL      | CLAY AND SILT: Dark brown sitty clay / clayey silt,<br>moist, medium stiff, low plasticity, organic rich. (0-3')                       |                 |              |               | $ \uparrow$       | ore         | at              | 0      | ppb         |  |
| 2-         | H         | &<br>ML |  | -2              |              |               | - 0 - 4           | Macro-Core  | 4.0 Feet        | o      | ppb         |  |
| 3-7        |           |         | CLAY AND SILT: Above grades in color to a mottled  | E<br>E          |              |               |                   | 2           |                 | 0      | ppb         |  |
| 4-         | Η         |         | rusty brown and gray silty clay / clayey silt, moist,<br>medium stiff. (3'-8.5')   | <u>-</u> 4      |              |               |                   | 32          |                 | 0      | ppb         |  |
| 5-         |           | CL      |  | -5              |              |               | 100000            | a           |                 | 0      | ppb         |  |
| 6-         |           | &       | More silt content with depth.  | E<br>6          |              |               |                   | -Cor        | Feet            |        | PP-         |  |
|            | H         |         |  | F               |              |               | 4.                | Macro-Core  | 4.01            | 0      | ppb         |  |
| 7-         | H:        | ML      |  | E-7<br>E        |              |               |                   | ~           |                 | 0      | ppb         |  |
| 8-         | H         |         | Wet @ 7.8'   | <del>-</del> 8  |              |               |                   | <u>.</u>    | с.<br>С         | 0      | ppb         | Wet @ 7.8  |
| 9-         |           |         | SILTY SAND: Mottled gray and rusty brown silty fine sand, moist - wet, loose. (8.5'-10')   | -9              |              |               |                   | e           | 723             | o      | ppb         |  |
| × 10 -     |           | ML      |  | E<br>- 10       |              |               | - 12              | Macro-Core  | 6 Feet          | o      | ppb         |  |
| 11 -       | 0         |         | GRAVELLY SILT: Mottled rusty brown and grays andy<br>silt / silty fines and with gravel, moist - wet, stiff. (10'-<br>14')             | E<br>           |              |               |                   | Mac         | Э.Ю             | 0      | ppb         |  |
| 12 -       | Ô         | ML      |  | E<br>- 12       |              |               | $\downarrow$      |             |                 | 0      | ppb         |  |
| -<br>      | 140       | IVIL    | Trace of clay.   | -13             |              |               | 1                 | Core        |                 | 0      | ppb         |  |
| 14 -       |           |         |  | E<br>- 14       |              |               | - 16 -            |             | Feet            | 0      | ppb         |  |
| 15 -       | ) 'dC     |         | GRAVELLY SILT: Gray silty fine sand / silt with<br>gravel, trace of clay, moist - wet, stiff. Composition<br>inconsistent. (14'-17.5') | 15              |              |               | 12                | Discrete    | 4.5             | 0      | ppb         |  |
| 16 -       |           | ML      | Soft sitty very fine sand zone 16'-17'.  | E<br>16         |              |               | $ \downarrow$     | <u>.</u>    | r               | 0      | ppb         | Soft wet zone 16-17 feet.                        |
| 17         | 0114      |         |  | E 17            |              |               | $ \uparrow$       | Core        | Ŧ               | o      | ppb         |  |
| 18 -       |           |         | Refusal @ 17.5 ft.   | -<br>           |              |               | 6 - 20            |             | ) Feet          |        |             | Piezometer GP-1                                  |
| 19         |           |         |  | - 19<br>E       |              |               | 16                | Discrete    | 2.0             |        |             | - TD 18 ft<br>- Screen 8-18 ft<br>- Sand to 6 ft |
| 20 -       | 8         |         |  | E <sub>20</sub> | Ш            |               | $ \Psi $          |             |                 |        |             | - Bentonite to 2 ft                              |

|                                  |   |                | ILLINOIS ENVIRONMENTAL PRO   | ТЕСТ                             | 101          | AGE           | ENC.                                 | Y FI        | ELC             | во                | RIN                             | GLOG  |
|----------------------------------|---|----------------|--|----------------------------------|--------------|---------------|--------------------------------------|-------------|-----------------|-------------------|---------------------------------|---|
| IEPA                             | IEPA File No.: <u>0310605500</u> Fed. ID No.: <u>County: Cook</u> |                |  |                                  |              |               |                                      |             |                 |                   |                                 |   |
| Site F                           | ile   | Nan            | e: Abandoned Crestwood Well #1   |                                  |              |               |                                      | Bor         | ing /           | Wel               | No.:                            | GP-2  |
| GPS                              | C00   | rdin           | ates: Northing <u>Unspecified</u> Eastin   | g <u>Uns</u>                     | pecif        | ied           |                                      | Dat         | e: S            | tart _            | 06/08                           | /09 Finish_06/08/09   |
| Equip                            | me  | nt U           | sed: <u>Geoprobe 6600/Macro-Core Sampler/Dis</u>   | Surface Elevation: Unspecified   |              |               |                                      |             |                 |                   |                                 |   |
| Locat                            | ion   | Des            | cription: In grassy area north of playground.  | Completion Depth: <u>29 Feet</u> |              |               |                                      |             |                 |                   |                                 |   |
|                                  |   |                |  |                                  |              |               |                                      | Log         | ged             | By:               | Jam                             | es M. Salch, LPG  |
| Depth (ft)                       | Lithology   | USCS           | Description  | Depth (ft)                       | Sample Depth | Sample Number | Sampling Interval                    | Sample Type | Sample Recovery | T∨<br>Read<br>OId | 'A<br>dings<br>OH               | Remarks   |
| 0_                               |   | a              |  | _0                               |              |               | ~                                    |             | ~               |                   |                                 |   |
| 1-<br>2-<br>3-                   | H:   H H:   | CL<br>CL<br>ML | SILTY CLAY: Dark brown sitty clay, moist, medium<br>stiff, low plasticity, organic rich. (0-1.2')<br>SILTY CLAY: Light gray sitty clay, trace of gravel.<br>(1.2'-1.4')  | 1<br>1<br>2<br>3<br>4            |              |               | $\leftarrow 0 - 4 \rightarrow$       | Macro-Core  | 4.0 Feet        | 0<br>0<br>0       | ppb<br>ppb<br>ppb               |   |
| 4<br>5<br>6<br>7                 | IL 4OL 4  |                | CLAYEY SILT: Mottled rusty brown and light gray silty<br>clay / clayey silt, moist, medium stiff. (1.4-4')<br>GRAVELLY SILT: Mottled light gray and rusty brown<br>clayey silt with gravel, moist, medium stiff. | 6<br>                            |              |               | $\leftarrow$ 4 - 8 $\rightarrow$     | Macro-Core  | 3.6 Feet        | 0<br>0<br>0<br>0  | ppb<br>ppb<br>ppb<br>ppb        |   |
| 8-<br>9-<br><b>4</b> 0-<br>11-   | 01'401'4  | ML             | Moist- wet 7-8 ft.<br>Tan sandy silt with gravel, moist- wet, stiff, low<br>plasticity.<br>Moist-wet 10-12 ft.   | 10<br>11<br>12                   |              |               | $\leftarrow 8 - 12 \rightarrow  $    | Macro-Core  | 3.7 Feet        | 0<br>0<br>0       | ppb<br>ppb<br>ppb<br>ppb        | Wet @ 10-12 ft.   |
| 12<br>13<br>14<br>15<br>16       | $\sim$  | 0              | GRAVELLY SILT: Gray clayey, sandy, sitt with gravel,<br>stiff, moist, low plasticity. Till like. (11.8'-29')<br>SAA - Varies in composition, less gravel.  | 12<br>13<br>14<br>15<br>16       |              |               | 12 - 16                              | Macro-Core  | 3.8 Feet        | 0                 | ppb<br>ppb<br>ppb<br>ppb        |   |
| ×17<br>18<br>19<br>20            |   |                | Soft, wetsilty very fine 4" sand lense at 17 ft.   | 17<br>17<br>18<br>19<br>20       |              |               | 16 - 20                              | DC          | 2.5 Feet        | 0                 | ppb<br>ppb<br>ppb<br>ppb<br>ppb | Wet @ 17 ft   |
| 21<br>22<br>23<br>24             | 0140  | ML             | SAA - Varies in composition.<br>Soft wet zone @ 22-24 ft.  | 21<br>22<br>23<br>23             |              |               | 20 - 24                              | DC          | 2.3 Feet        | 0                 | ppb<br>ppb<br>ppb               |   |
| 24<br>25<br>26<br>27<br>28<br>29 | 10140   |                | Wet at top of 24' core.  | 24<br>25<br>26<br>27<br>28<br>29 |              |               | $\leftarrow 24 \cdot 29 \rightarrow$ | DC          | 3.6 Feet        | 0<br>0<br>0<br>0  | PPb<br>PPb<br>PPb<br>PPb<br>PPb | Piezometer GP-2<br>- TD 25 ft                                     |
| 29<br>30<br>31<br>32<br>33<br>33 |   |                | TOB-29 ft.   | 30<br>31<br>31<br>32<br>33<br>34 |              |               |                                      |             |                 |                   |                                 | - Screen 15-25 ft<br>- Sand 11.5-13 ft<br>- Bentonite 9.5-11.5 ft |

## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG IEPA File No.: 0310605500 Fed. ID No.: County: Cook Site File Name: Abandoned Crestwood Well #1 Boring / Well No.: \_\_\_\_ GP-3 GPS Coordinates: Northing Unspecified Easting Unspecified Date: Start 06/08/09 Finish 06/08/09 Equipment Used: Geoprobe 6600/Macro-Core Sampler/Discrete Sampler Surface Elevation: Unspecified Location Description: Between baseball fields south of water tower. Completion Depth: 20 Feet Recovery Sampling Interval Sample Number Sample Depth TVA Sample Type Readings Lithology Description Remarks Depth (ft) Depth (ft) Sample F USCS E FID .5 5 6 -6 7 -7 **x** 8 F-8 9 F-9 10 -10 11 -11 12 --12 No cores from 0-12 ft. SILT: Mottled rusty brown and gray silt, soft to ML medium stiff, moist - wet. (12'-13') 13 Discrete Core -13 0 ppb 12 - 16 -SILT: Gray silt, moist - wet, medium stiff. (13'-15') Feet 14 --14 0 ppb 4 m 15 F-15 0 ppb 0 ppb 16 -- 16 ML Discrete Core 17 -0 -17 ppb Feet 2 SAA - trace of clay in areas, wet in zones. 18 0 18 16ppb $\mathbf{m}$ m 19 -19 0 ppb 0 ppb 20. 20 TOB-20 Ft 21 21 22 -22 Piezometer GP-3 - TD 20 ft - Screen 10-20 ft 23 23 - Sand 8-15 ft - Bentonite 5-8 ft 24 24 25 25

|   |           |                            | ILLINOIS ENVIRONMENTAL PRO   | тест         | 101          | AGE           | INC   | Y FI  | ELC  | во         | RIN  | GLOG   |
|---|-----------|----------------------------|--|--------------|--------------|---------------|---|---|--|------------|--|--|
| IEPA  | File      | No                         | .: <u>0310605500</u> Fed. ID No.:  |              |              |               | Cour  | nty: _  | Cook   | :          |  |  |
| Site F  | ile       | Nan                        | ne: Abandoned Crestwood Well #1  |              |              |               |   | Boi   | ing /  | Wel        | I No.:   | GP-4   |
| GPS   | Cool      | rdin                       | ates: Northing <u>Unspecified</u> Eastin   | g <u>Uns</u> | pecif        | ied           |   | Dat   | e: S   | tart _     | 06/09  | <u>/09</u> Finish_06/09/09_  |
| Equip   | mei       | nt U                       | sed: <u>Geoprobe 6600/Macro-Core Sampler/Dis</u>   | crete S      | Samp         | ler           |   | Sur   | face   | Elev       | ation  | : Unspecified  |
| Locat   | ion       | Des                        | cription: Parking lot north of strip mall. Piezo   | ometer       | Loca         | ation.        | <u>, a</u>  | Cor   | nple   | tion I     | Depth  | : <u>16 Feet</u>   |
| -   |           |                            |  |              |              |               |   | Log   | jged   | By:        | <u>Jam</u>   | es M. Salch, LPG   |
| Depth (ft)  | Lithology | USCS                       | Description  | Depth (ft)   | Sample Depth | Sample Number | Sampling Interval   | Sample Type                                       | Sample Recovery                              | T∨<br>Read | 'A<br>dings<br>OH  | Remarks  |
|   |           |                            |  |              |              | A 2557        | 1   |   |  |            |  |  |
| 0 - 1 - 1 - 2 - 1 - 1 - 2 - 3 - 1 - 1 - 1 - 2 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |           | AS<br>FL<br>CL<br>ML<br>ML | ASPHALT: Asphalt Surface (4")<br>FILL: Crushed as phalt, gray sand and gravel, brick<br>fragments. (4"-1.8")<br>SILTY CLAY: Medium gray silty clay, moist, medium<br>stiff, low plasticity. (1.8'-4')<br>CLAYEY SILT: Mottled rusty brown and light gray silty<br>clay / clayey silt, moist, medium stiff.<br>Above grades to sandy silt @ 7', gets soft and<br>becomes wet.<br>SILTY SAND: Gray and brown silty fine sand / silt,<br>saturated, loose. (8'-11')<br>GRAVELLY SILT: Brown and gray silt with gravel,<br>moist (11'-12')<br>GRAVELLY SILT: Gray silt / very fine sand with<br>gravel, saturated.<br>1" sand seam @ 15<br>Less water in bottom of core.<br>TOB-16 ft. | 0<br>        |              |               | $  \longleftarrow 12 - 16 \longrightarrow   \longleftarrow 8 - 12 \longrightarrow   \longleftarrow 4 - 8 \longrightarrow   \longleftarrow 0 - 4 \longrightarrow   $ | Discrete Core Discrete Core Macro-Core Macro-Core | 3.1 Feet 2.9 Feet 3.5 Feet 2.5 Feet 2.5 Feet |            | ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb | Slightly wet @ 8 ft.<br>Saturated to 11ft. Flowings ilt.<br>Flowing silt.<br>Piezometer GP-4<br>- TD 20 ft<br>- Screen 10-20 ft<br>- Screen 10-20 ft<br>- Sand 7.5-10 ft<br>- Bentonite 5.5-7.5 ft |
| =   |           |                            |  | Ē            |              |               |   |   |  |            |  |  |

|                            |   |                | ILLINOIS ENVIRONMENTAL PRO  | TECT                            |              | AGE           | ENC                                | Y FI          | ELC             | во                                   | RIN                                    | GLOG  |
|----------------------------|---|----------------|---|---------------------------------|--------------|---------------|------------------------------------|---------------|-----------------|--------------------------------------|--|---|
| IEPA                       | File                                    | No             | .: <u>0310605500</u> Fed. ID No.:   |                                 |              |               | Cour                               | nty: _        | Cook            |                                      |  | 57  |
| Site F                     | ile                                     | Nan            | ne: <u>Abandoned Crestwood</u> Well #1  |                                 |              |               |                                    | _Boi          | ing /           | Wel                                  | No.:                                   | GP-5  |
| GPS                        | C00                                     | rdin           | ates: Northing <u>Unspecified</u> Eastin  | g <u>Uns</u>                    | pecif        | ied           |                                    | Dat           | e: S            | tart _                               | 06/09                                  | <u>/09</u> Finish <u>06/09/09</u>                                       |
| Equip                      | me                                      | nt U           | sed: <u>Geoprobe 6600/MC-5 Sampler</u>  |                                 |              |               | - 2                                | Su            | face            | Elev                                 | ation                                  | : Unspecified   |
| Locat                      | ion                                     | Des            | cription: Behind dry cleaner.   |                                 |              |               |                                    | Cor           | nple            | tion I                               | Depth                                  | : <u>20 Feet</u>  |
| -                          |   |                |   |                                 |              |               | 8                                  | Log           | jged            | By:                                  | Jam                                    | ies M. Salch, LPG   |
| Depth (ft)                 | Lithology                               | USCS           | Description   | Depth (ft)                      | Sample Depth | Sample Number | Sampling Interval                  | Sample Type   | Sample Recovery | T∨<br>Read<br>Old                    | 'A<br>dings<br>OH                      | Remarks   |
| 0_                         |   |                |   | 0                               |              |               |                                    |               |                 | - 10<br>- 10                         |  |   |
| 1<br>2<br>3<br>4           | =:=                                     | AS<br>FL<br>CL | ASPHALT: Asphalt Surface (4")<br>FILL: Crushed asphalt, gray sand and gravel. (4"-<br>1.75')<br>SILTY CLAY: Dark brown silty clay, trace of gravel,<br>moist, low plasticity. (1.75-4.5') | 1<br>1<br>2<br>3<br>4           |              |               | $\leftarrow 0 - 4 \longrightarrow$ | Macro-Core    | 1.6 Feet        | 0<br>577<br>108<br>157               | ppb<br>ppb<br>ppb<br>ppb               | Poor Recovery - sample may<br>have fallen out of core barrel.           |
| 5<br>6<br>7<br>8           | H                                       | ML             | CLAYEY SILT: Mottled rusty brown and light gray silty<br>clay / clayey silt, moist, stiff, oxidation staining.<br>SAA - Increasing silt content.  |                                 |              |               | $\leftarrow$ 4 - 8 $\rightarrow$   | Discrete Core | 4 Feet          | 164<br>230<br>241<br>157<br>63<br>91 | ppb<br>ppb<br>ppb<br>ppb<br>ppb        |   |
| 9<br>10<br>11<br>11<br>12  | H    H    H                             |                | Soft and wet @ 10-11.5 ft.<br>SILTY CLAY: Gray silty clay, moist, medium stiff,   | 10<br>11<br>10<br>11            |              |               | $\leftarrow$ 8 - 12 $\rightarrow$  | Discrete Core | 2.9 Feet        | 0<br>231<br>290<br>196<br>546<br>619 | ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb | Wet-saturated @ 11.5 ft.  |
| 13<br>13<br>14<br>15<br>16 |   | CL<br>ML       | medium plasticity. (11.5'-13)<br>SILT: Mottled brown and gray silt, moist - wet.<br>Gray @ 14 ft.   | 13<br>13<br>14<br>15<br>16      |              |               | $\leftarrow$ 12 - 16 $\rightarrow$ | Discrete Core | 3.2 Feet        | 77<br>73<br>0                        | ppb<br>ppb<br>ppb<br>ppb<br>ppb        |   |
| 10<br>17<br>18<br>19<br>20 |   | ML             | Trace of sand, soft, wet @16 ft.<br>GRAVELLY SILT: Alternating zones of gray silt, sand,<br>and gravel, moist - wet, dense, and gray silt with a<br>trace of sand, soft and wet.          | 17<br>17<br>18<br>19<br>19      |              |               | $\leftarrow$ 16 - 20 $\rightarrow$ | Discrete Core | 2.7 Feet        | 0                                    | ppb<br>ppb<br>ppb<br>ppb<br>ppb        | Piezometer GP-5   |
| 21<br>22<br>23<br>24<br>25 | 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - |                | ТОВ-20 <del>п</del> .   | -21<br>-22<br>-23<br>-24<br>-25 |              |               |                                    |               |                 |                                      |  | - TD 21 ft<br>- Screen 11-21 ft<br>- Sand 9-17 ft<br>- Bentonite 6-9 ft |

|   |                                  | ILLINOIS ENVIRONMENTAL PROT   | ГЕСТ   | 101          | AGE           | ENC   | Y FI  | ELC  | во                | RIN  | GLOG   |
|---|----------------------------------|---|--|--------------|---------------|---|---|--|-------------------|--|--|
| IEPA File   | No                               | .: <u>0310605500</u> Fed. ID No.:   |  |              |               | Coun  | ty: _   | Cook                                       |                   |  |  |
| Site File   | Nan                              | ne: Abandoned Crestwood Well #1   |  |              |               |   | Bor   | ing /                                      | Wel               | I No.:   | GP-6   |
| GPS Coo   | rdin                             | ates: Northing <u>Unspecified</u> Easting   | g <u>Uns</u>   | pecif        | ied           |   | Dat   | e: S                                       | tart _            | 06/09  | /09 Finish_06/09/09  |
| Equipme   | nt U                             | sed: <u>Geoprobe 6600/MC-5 Sampler</u>  |  |              |               |   | Sur   | face                                       | Elev              | ation  | Unspecified  |
| Location  | Des                              | cription: Parking lot south of strip mall.  |  |              |               |   | Cor   | nple                                       | tion I            | Depth  | :20 Feet   |
| *   |                                  |   |  |              |               |   | Log   | ged  | By:               | Jam  | es M. Salch, LPG   |
| Depth (ft)<br>Lithology   | USCS                             | Description   | Depth (ft)   | Sample Depth | Sample Number | Sampling Interval   | Sample Type   | Sample Recovery                            | T∨<br>Read<br>CIL | /A<br>dings<br>DIJ   | Remarks  |
| 0   | 0.01                             |   | 0  |              |               |   |   | -  |                   |  |  |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | AS<br>FL<br>CL<br>ML<br>ML<br>ML | SILTY CLAY: D ark gray silty clay grading in color to a<br>mottled dark gray and brown, moist, medium stiff.<br>(0.9'-3.5')<br>CLAYEY SILT: Mottled light gray and rusty brown silty<br>clay / clayey silt, moist, medium stiff, oxidation<br>staining. More silt with depth. (3.5'-10.5')<br>Soft @ 7 ft.<br>Sandy and wet @ 9 ft. | 0   1     1   2     3   4     5   6     7   8     9   10     11   12     13   14     15   16     17   18     19   20     21   22     23   24 |              |               | $\left  \left\langle -16 \cdot 20 \longrightarrow \right  \left\langle -12 \cdot 16 \longrightarrow \right  \left\langle -8 \cdot 12 \longrightarrow \right  \left\langle -4 \cdot 8 \longrightarrow \right  \left\langle -0 \cdot 4 \longrightarrow \right  \left\langle -12 \cdot $ | Discrete Core Discrete Core Discrete Core Macro-Core Macro-Core | 2.3 Feet 3.0 Feet 2.1 Feet 4 Feet 3.5 Feet |                   | ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb<br>ppb | Possible wet @ 7'<br>Wet-saturated @ 10.5 ft.<br>Piezometer GP-5<br>- TD 19 ft<br>- Screen 9-19 ft<br>- Screen 9-19 ft<br>- Sand 7-10.5 ft<br>- Bentonite 5-7 ft |

|   |           |                | ILLINOIS ENVIRONMENTAL PROT   | ГЕСТ  | 101          | AGE           | ENC  | Y FI  | ELC  | BC   | RING  | LOG                       |
|---|-----------|----------------|---|---|--------------|---------------|--|---|--|------|---|---------------------------|
| IEPA  | File      | No             | .: <u>0310605500</u> Fed. ID No.:   |   |              |               | Cour   | nty: _  | Cool   | (    |   | <u></u>                   |
| Site F  | ile       | Nan            | ne: <u>Abandoned Crestwood Well #1</u>  |   |              |               |  | Bo  | ing  | Wel  | I No.: _  | GP-7                      |
| GPS   | 000       | rdin           | ates: Northing <u>Unspecified</u> Easting   | g <u>Uns</u>  | pecit        | fied          |  | Dat   | e: S   | tart | 06/09/0   | <u>19</u> Finish_06/09/09 |
| Equip   | me        | nt U           | sed: <u>Geoprobe 6600/MC-5 Sampler</u>  |   |              |               | - a  | Su  | face   | Elev | ation:  | Unspecified               |
| Locat   | ion       | Des            | cription: <u>Parking lot north of strip mall near cr</u>  | reek.   |              |               |  | Co  | nple   | tion | Depth:  | 16 Feet                   |
| <u> </u>  | ner l     | JST            | area.   |   |              |               | <u>, a</u>   | Log   | jged   | By:  | <u>Jame</u>   | s M. Salch, LPG           |
| Depth (ft)  | Lithology | USCS           | Description   | Depth (ff)  | Sample Depth | Sample Number | Sampling Interval  | Sample Type                                       | Sample Recovery                              |      | /A<br>dings   | Remarks                   |
| 0_  | _         |                |   | _0  | _            |               | ~~~~   |   |  |      |   |                           |
| $\begin{array}{c} 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18$ |           | AS<br>FL<br>ML | ASPHALT: Asphalt Surface (4")<br>FILL: Crushed asphalt, gray sand and gravel. (4"-1.3')<br>CLAYEY SILT: Dark brown silty clay, moist, medium<br>stiff.<br>Above grades to medium brown clayey silt, moist,<br>medium stiff.<br>SAA - Mottled gray and rusty brown, trace of gravel.<br>SILTY CLAY: Mottled gray and rusty brown silty clay,<br>trace of gravel. Lighter in color than above. (7'-11')<br>Silty<br>GRAVELLY SILT: Gray silt with gravel, moist - wet,<br>stiff. (11'-16')<br>Less gravel, wet.<br>TOB-16 ft. | U<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>10<br>11<br>11<br>12<br>13 |              |               | $\left  \left\langle -12 \cdot 16 \longrightarrow \right\rangle \left\langle -8 \cdot 12 \longrightarrow \right\rangle \left\langle -4 \cdot 8 \longrightarrow \right\rangle \left\langle -12 \cdot 4 \longrightarrow \right\rangle \left\langle -12 \to \right\rangle \left\langle -12 \to \right\rangle$ | Discrete Core Discrete Core Macro-Core Macro-Core | 1.9 Feet 3.6 Feet 3.8 Feet 3.0 Feet 3.0 Feet |      | ppb   ppb |                           |
| 19  |           |                |   | - 19  |              |               |  |   |  |      |   |                           |
| 20  |           |                |   | Ē <sub>20</sub>   |              |               |  |   |  |      |   |                           |

## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

| IEPA File No.: 0310605500 Fed. ID No.: Count   |           |                |   |  |              |               |   |  |   | nty: Cook  |  |                    |  |  |  |  |
|--|-----------|----------------|---|--|--------------|---------------|---|--|---|------------|--|--------------------|--|--|--|--|
| Site   |           |                |   |  |              |               |   |  |   |            | Boring / Well No.:GP-9                                   |                    |  |  |  |  |
| GPS  | Coo       | rdin           | ates: Northing Unspecified Easting  | g <u>Uns</u>   | pecif        | ied           | -   | Dat  | e: S  | tart _     | 06/10/   | 09 Finish_06/10/09 |  |  |  |  |
| Equi   | me        | nt U           | sed: Geoprobe 6600/MC-5 Sampler/SP-16   |  |              |               |   | Surface Elevation: Unspecified   |   |            |  |                    |  |  |  |  |
| Loca   | tion      | Des            | cription: Parking lot north of strip mall in front  | of Cas   | sino         | Shuttle       | в.  | Completion Depth: 26.3 Feet  |   |            |  |                    |  |  |  |  |
| Dee  | p bo      | ring.          |   |  |              |               |   | Log  | ged   | By:        | Jam  | es M. Salch, LPG   |  |  |  |  |
| Depth (ft)   | Lithology | USCS           | Description   | Depth (ft)   | Sample Depth | Sample Number | Sampling Interval   | Sample Type  | Sample Recovery   | TV<br>Read | /A<br>dings<br>OH  | Remarks            |  |  |  |  |
| 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>11<br>12<br>11<br>12<br>11<br>12<br>11<br>12<br>11<br>12<br>11<br>20<br>21<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>23<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>25<br>24<br>24<br>25<br>24<br>25<br>24<br>25<br>25<br>25<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26 |           | AS<br>FL<br>ML | FILL: Crushed as phalt, gray sand and gravel. (4"-1.2")     SILTY CLAY: Dark gray silty clay, moist, medium stiff, low plasticity, some oxidation staining.     Color grades to mottled light gray and rusty brown, more s ilt content.     CLAYEY SILT: Mottled gray and rusty brown clayey silt, trace of gravel, moist - wet, soft. (7.8'-10')     Small sand lense at 10 ft.     SILT: Brown silt, moist - wet, soft in wet are as.     Color changes to gray at 11 ft.     Soft, moist to wet.     SAA     GRAVELLY SILT: Gray silt with sand and gravel, moist - wet, soft.     Medium stiff. | 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>24<br>25 |              |               | $28 \rightarrow \left  \left\langle -20 - 24 \right\rangle \left\langle \left\langle 16 - 20 \right\rangle \left\langle \left\langle -12 - 16 \right\rangle \left\langle \left\langle -8 - 12 \right\rangle \left\langle \left\langle -8 - 12 \right\rangle \left\langle \left\langle -4 - 8 \right\rangle \left\langle \left\langle -0 \right\rangle \left\langle -4 \right\rangle \right\rangle \left\langle -12 \right\rangle \left\langle -12 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle \left\langle -8 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle \left\langle -8 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle -12 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle -12 \right\rangle \left\langle \left\langle -12 \right\rangle \left\langle$ | Core Discrete Core Discrete Core Discrete Core Discrete Core Macro-Core Macro-Core | eet 2.3 Feet 3.1 Feet 3.6 Feet 2.6 Feet 4.0 Feet 2.0 Feet |            | LL<br>PPD<br>PPD<br>PPD<br>PPD<br>PPD<br>PPD<br>PPD<br>P |                    |  |  |  |  |
| 26<br>27<br>28<br>29<br>30   |           |                | Limestone in shoe.<br>Refusal 26.3 ft. Bedrock  | F  | ×            |               | $\leftarrow$ 24 - 28  | Discrete (   | 2.5 Fee   | 0          | ppb  |                    |  |  |  |  |

|            |                       |          | ILLINOIS ENVIRONMENTAL PRO   | тест         | 101          | AGE           | ENC                        | Y FI        | ELC               | BC         | RIN              | GLOG   |
|------------|-----------------------|----------|--|--------------|--------------|---------------|----------------------------|-------------|-------------------|------------|------------------|--|
| IEPA       | File                  | No       | .: <u>0310605500</u> Fed. ID No.:  |              |              | 22            | Coun                       | nty: _      | Cook              |            |                  |  |
| Site F     | ile                   | Nan      | ne: Abandoned Crestwood Well #1  |              |              |               |                            | _Boi        | ing/              | Wel        | I No.:           | GP-11  |
| GPS        | 000                   | rdin     | ates: Northing <u>Unspecified</u> Eastin   | g <u>Uns</u> | pecif        | ied           |                            | Dat         | e: S              | tart _     | <u>06/10</u>     | 1/09 Finish_06/10/09                         |
| Equip      | me                    | nt U     | sed: <u>Geoprobe 6600/MC-5 Sampler/SP-16</u>   |              |              |               |                            | Su          | face              | Elev       | ation            | : Unspecified                                |
| Locat      | ion                   | Des      | cription: <u>Deep boring by GP-1 west of tennis</u>  |              |              |               |                            | 22124.      | :: <u>33 Feet</u> |            |                  |  |
| -          |                       |          |  |              |              |               | 2                          | Log         | jged              | By:        | _Jam             | ies M. Salch, LPG                            |
| Depth (ft) | Lithology             | USCS     | Description  | Depth (ft)   | Sample Depth | Sample Number | Sampling Interval          | Sample Type | Sample Recovery   | Tv<br>Read | ∕A<br>dings<br>₽ | Remarks                                      |
|            | -                     | _        |  |              | 100          |               | 105                        |             |                   | <u> </u>   | 1                |  |
| 15<br>16   |                       |          |  | 15<br>16     |              |               |                            |             |                   | 0          | ppb              | Refer to boring GP-1 for 0-16 ft<br>geology. |
| 17 -       |                       | ML       | SILT: Gray silt, trace of sand and gravel, moist - wet,<br>medium stiff. (16'-18')   | E 17         |              |               | $ \uparrow$                | Core        | L L               | 0          | ppb              |  |
| 18 -       |                       |          | 4" of crushed limestone @ 17.5 ft.   | Ę 18         |              |               | 3 - 20                     | ete C       | 2 Feet            | o          | ppb              |  |
| 19 -       | 40                    |          | GRAVELLY SILT: Gray sandy, gravelly silt.<br>Percentage of sand and gravel variable throughout.  | E 19         |              |               | 19                         | Discrete    | 3.2               | 0          | ppb              |  |
| 20 -       | D-1(                  |          | Moisture content varies from moist to saturated.<br>Hardness varies from soft to very stiff. Soft areas<br>have higher moisture content. (18'-33') | E-20         |              |               |                            | _           |                   | 0          | ppb              |  |
| 21 -       | 0                     |          | 20' - Soft/wet at top of core.   | E-21         |              |               | $ \uparrow$                | Core        | Ļ                 | o          | ppb              |  |
| 22 -       | Ô                     |          | 22' - Very stiff, moist, till like, gravel subangular.   | -22          |              |               | ] - 24                     | ete C       | 0 Feet            | 0          | ppb              |  |
| 23         |                       |          |  | E-23         |              |               | 3                          | Discrete    | 4.0               | 0          | ppb              |  |
| 24         | ∑I'⊲                  |          | 24' - Moist to wet.  | E-24         |              |               | $  \downarrow \\ \uparrow$ | 1           |                   | 0          | ppb              |  |
| 25 -       | <u>_</u>              |          |  | -25          |              |               |                            | Core        | 5                 | 0          | ppb              |  |
| 26         | Ô                     | GM       |  | E-26         |              |               | 24 - 28                    |             | 0 Feet            | o          | ppb              |  |
| 27 -       | 1-40                  |          |  | -27          |              |               | 12                         | Discrete    | 4.0               | o          | ppb              |  |
| 28-        | 21                    |          | 28' - Soft / wet sandy silt and gravel top 4" of core.   | -28          |              |               | $  \downarrow \rangle$     | a           |                   | 0          | ppb              |  |
| 29-        | $\overline{\bigcirc}$ |          |  | E-29         |              |               | 32                         | Core        | et                | o          | ppb              |  |
| 30 -       | 0                     |          | 29.5' - 33' Rock Fragments / gravel, wet.  | E-30         |              |               | 28 - 3                     | Discrete    | 3.0 Feet          | o          | ppb              |  |
| 31 -       |                       |          |  | E-31         |              |               |                            | Disc        | (m)               | o          | ppb              |  |
| 32 -       | 0                     |          |  | E-32         |              |               |                            |             | -                 | 0          | ppb              |  |
| 33-        |                       | <u>.</u> |  | £-33         |              |               |                            | Core        | et                |            |                  |  |
| 34 -       |                       |          | Refusal@ 33 ft. Bedrook  | E-34         |              |               | 32 - 36                    |             | 0 Feet            |            |                  |  |
| 35 -       |                       |          |  | -35          |              |               | m<br>                      | Discrete    | 1.0               |            |                  |  |
| 36 -       |                       |          |  | E-36         |              |               | $  \downarrow \rangle$     |             |                   |            |                  |  |
| 37 -       |                       |          |  | E-37         |              |               |                            |             |                   |            |                  |  |
| 38 -       |                       |          |  | E 38         |              |               |                            |             |                   |            |                  |  |