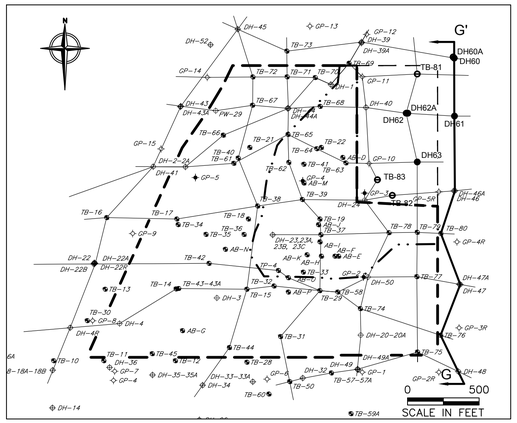


CROSS SECTION LOCATOR MAP

SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YB/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

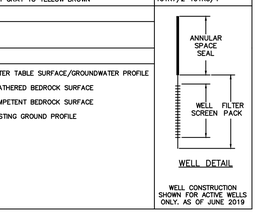
LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

APPROX	APPROXIMATE
B/	BOTTOM
DH–39	MONITORING WELL
DH–39A	PIEZOMETER
EOB	END OF BORING
FF	FRACTURE FREQUENCY
$GS_{\pm}$	GROUND SURFACE
K~1.45e^{-7}cm/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
RQD	ROCK QUALITY DESIGNATION
TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

* SEE BORING LOGS FOR DETAILED SOIL DESCRIPTIONS

NOTES:

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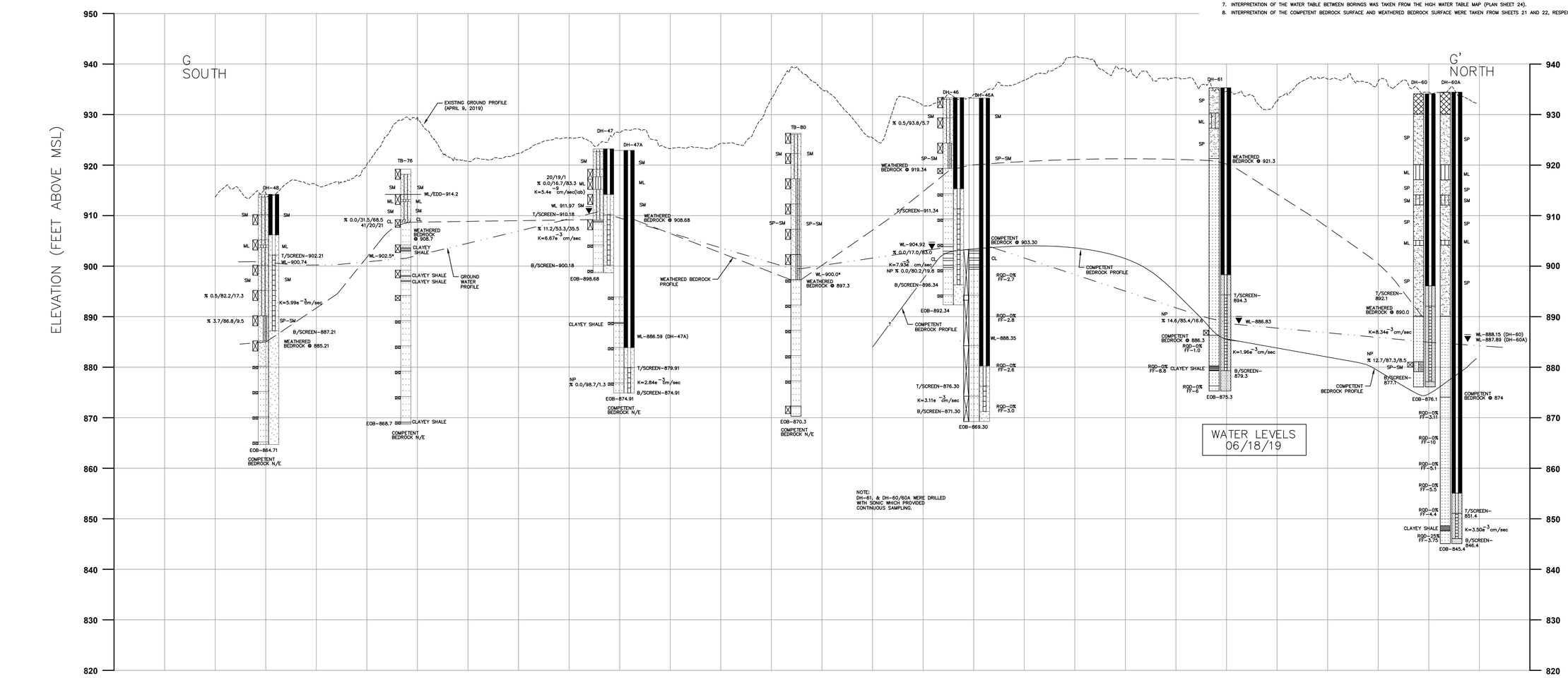

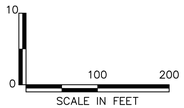

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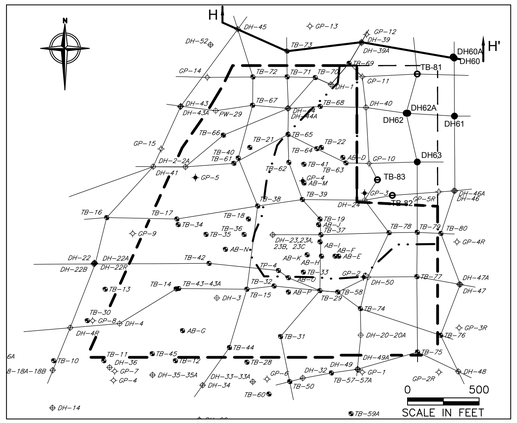
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION G-G'

SHEET NO. **11**

PROJECT NO. 180720

File: X:\PROJECTS\SEVEN MILE CREEK\180720 - GEOTECH INVESTIGATION & FEAS_Plan Set\11-SMC720-XS-GG.dwg Layout: 11 User: SCOTT.WILSON Jul 03, 2019 - 10:59am



CROSS SECTION LOCATOR MAP

SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTRITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YB/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

APPROX	APPROXIMATE
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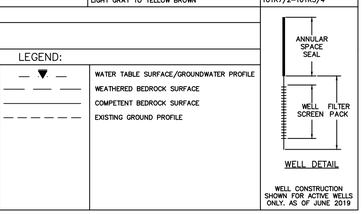
DH–39A	PIEZOMETER
EOB	END OF BORING
FF	FRACTURE FREQUENCY
GS_0	GROUND SURFACE
K–1.45e^{-3}cm/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
RQD	ROCK QUALITY DESIGNATION
TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

* SEE BORING LOGS FOR DETAILED SOIL DESCRIPTIONS

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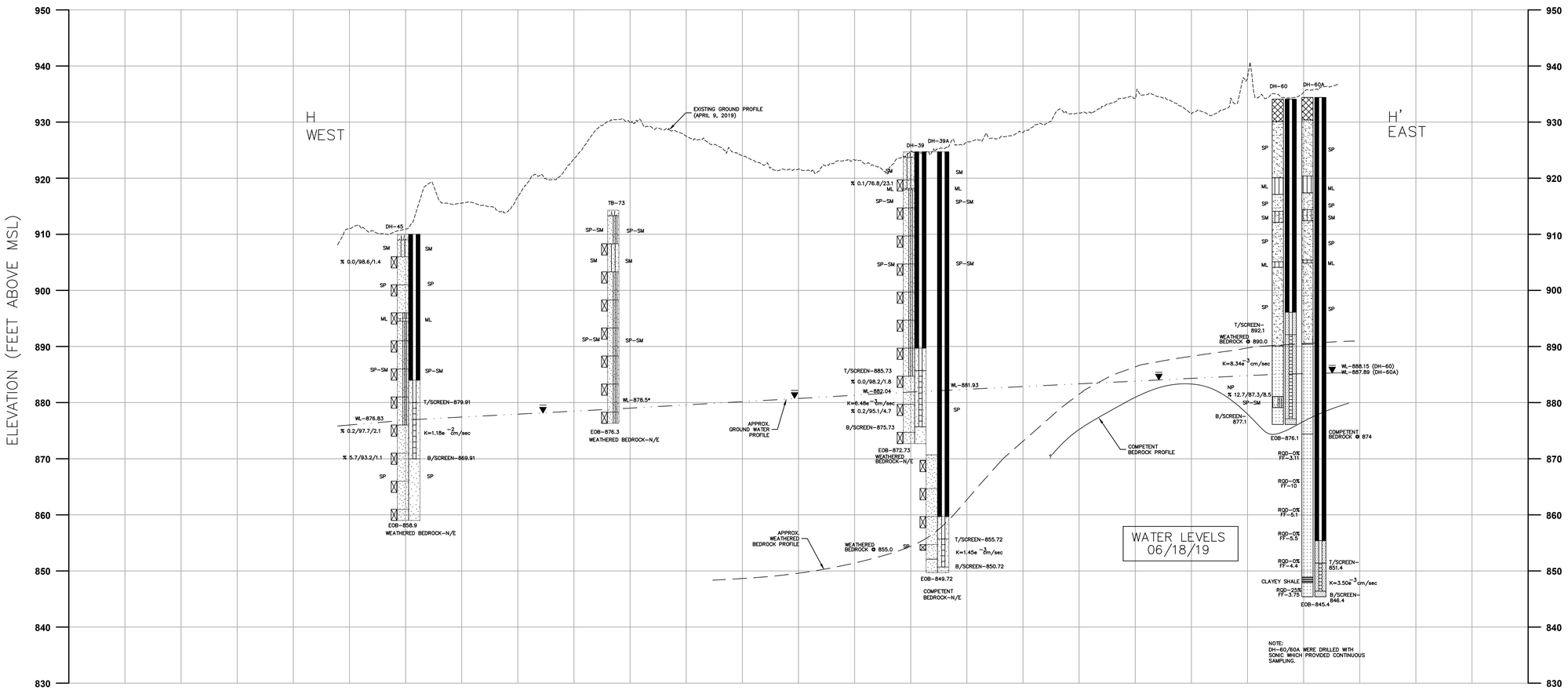

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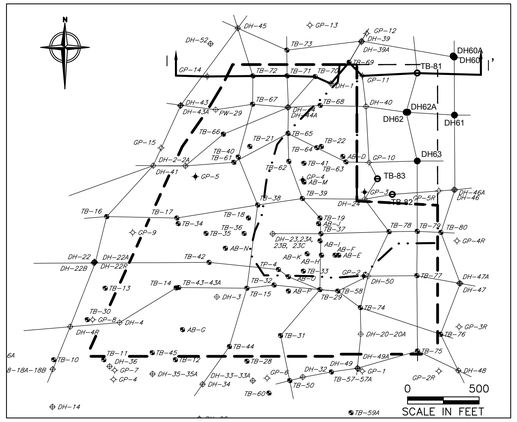
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION H-H'

SHEET NO. **12**
PROJECT NO. 180720

File: X:\PROJECTS\SEVEN MILE CREEK\180720 - GEOTECH INVESTIGATION & FEAS_Plan Set\12-SMC720-XS-HH.dwg Layout: 12 User: SCOTT.WILSON Jul 03, 2019 - 11:00am



CROSS SECTION LOCATOR MAP

SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YB/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

APPROX	APPROXIMATE
B/	BOTTOM
DH–39	MONITORING WELL
DH–39A	PIEZOMETER
EOB	END OF BORING
FF	FRACTURE FREQUENCY
GS	GROUND SURFACE
K–1.45e $^{-}$ ^{0}m/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
RQD	ROCK QUALITY DESIGNATION
TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE

WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

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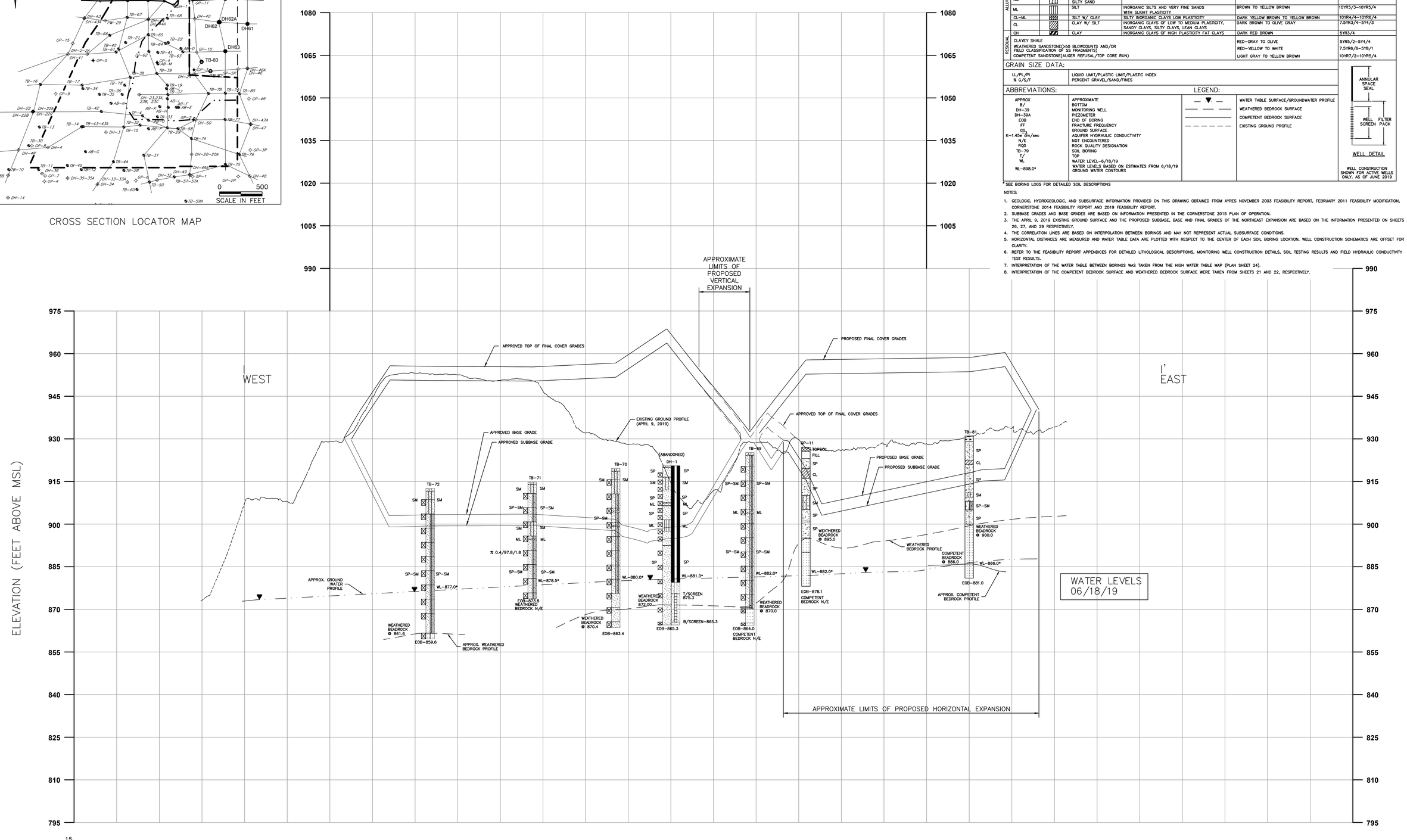

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ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION I-I'

SHEET NO. **13**
PROJECT NO. 180720

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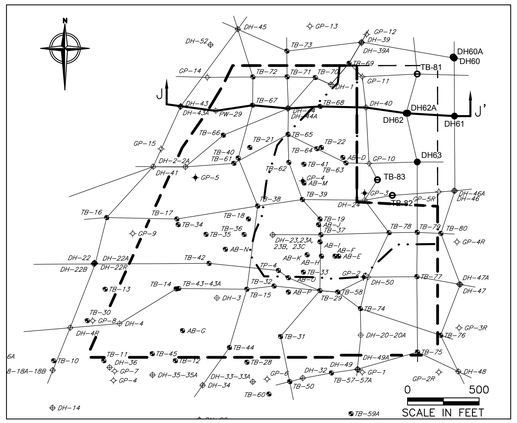

CROSS SECTION LOCATOR MAP

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	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTRITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
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GRAIN SIZE DATA:

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LEGEND:

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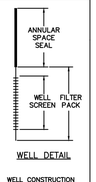
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

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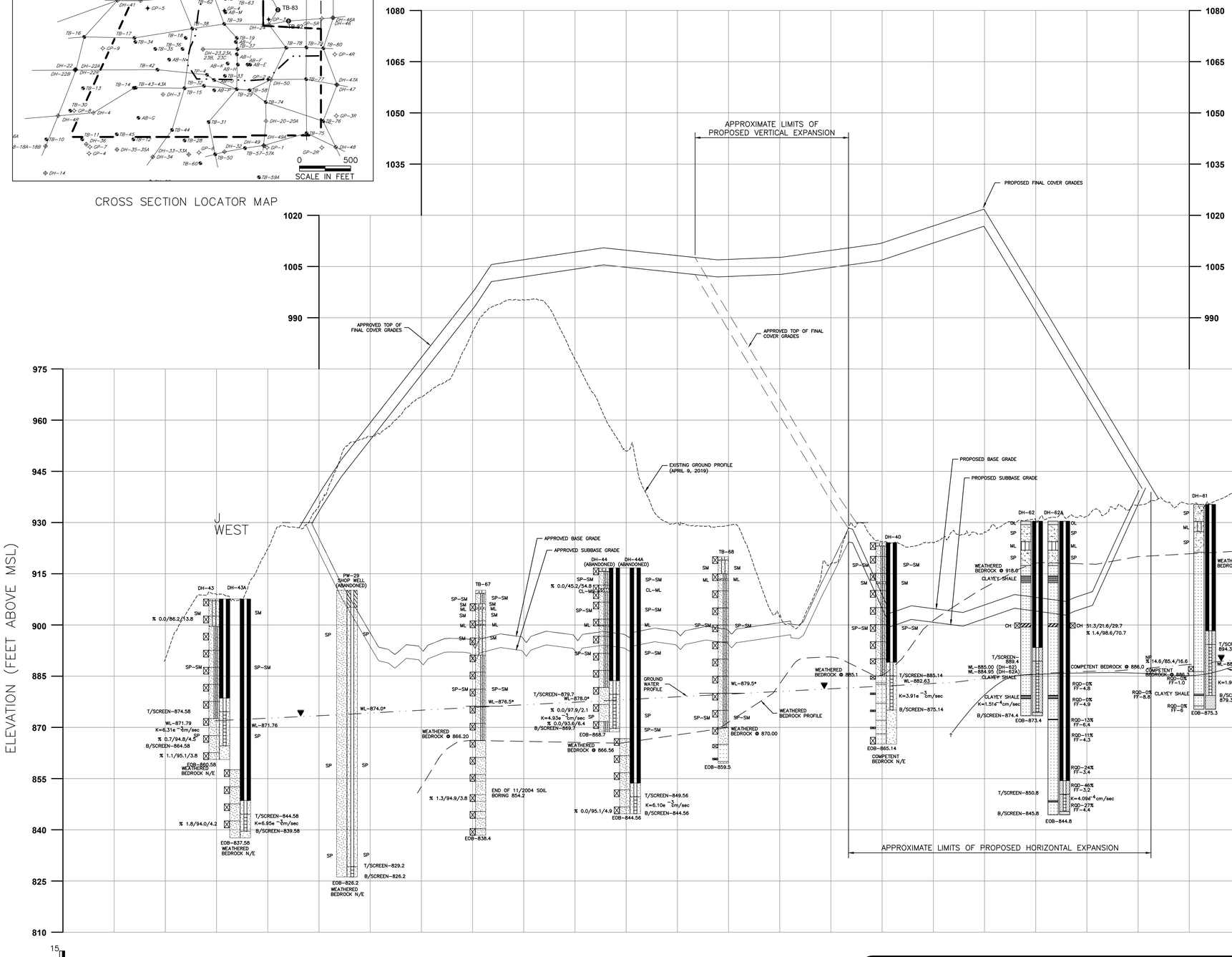

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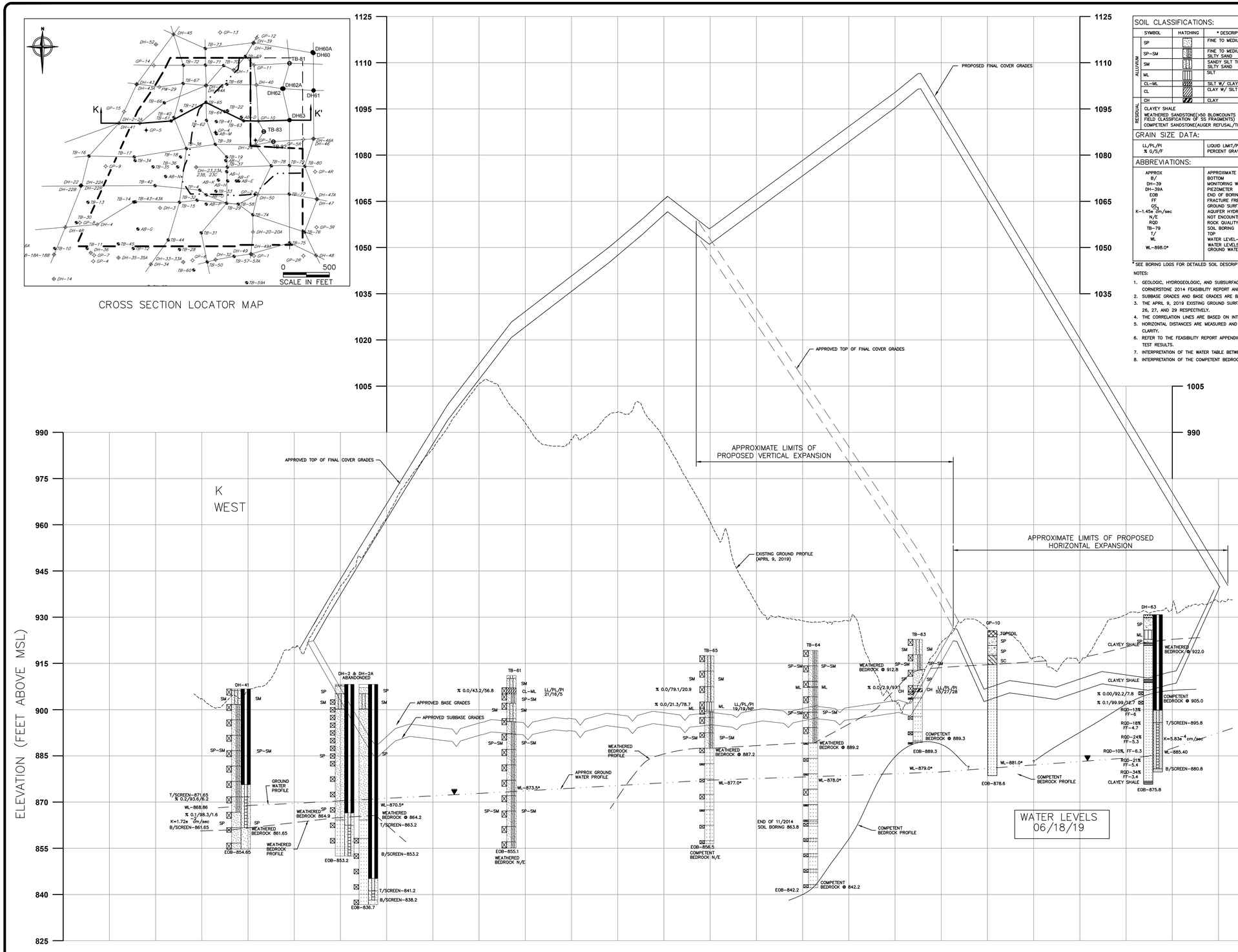
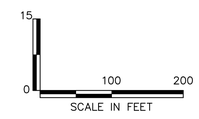
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION J-J'

SHEET NO. **14**
PROJECT NO. 180720

File: K:\PROJECTS\SEVEN MILE CREEK\180720 – GEOTECH INVESTIGATION & FEAS_Plan Set\14-SMC720-XS-JJ.dwg Layout: 14 User: SCOTT.WILSON Jul 03, 2019 – 11:01am

CROSS SECTION LOCATOR MAP





SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTRICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YB/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

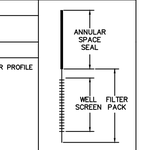
LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

APPROX	APPROXIMATE
B/	BOTTOM
DH–39	MONITORING WELL
DH–39A	PIEZOMETER
EOB	END OF BORING
FF	FRACTURE FREQUENCY
GS	GROUND SURFACE
K–1.45e^{-5}cm/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
RQD	ROCK QUALITY DESIGNATION
TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

* SEE BORING LOGS FOR DETAILED SOIL DESCRIPTIONS

NOTES:

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8. INTERPRETATION OF THE COMPETENT BEDROCK SURFACE AND WEATHERED BEDROCK SURFACE WERE TAKEN FROM SHEETS 21 AND 22, RESPECTIVELY.

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 7/3/2019 — DRAWN BY SSW/SRC — DESIGNED BY SSW — CHECKED BY DJR — APPROVED BY JCO

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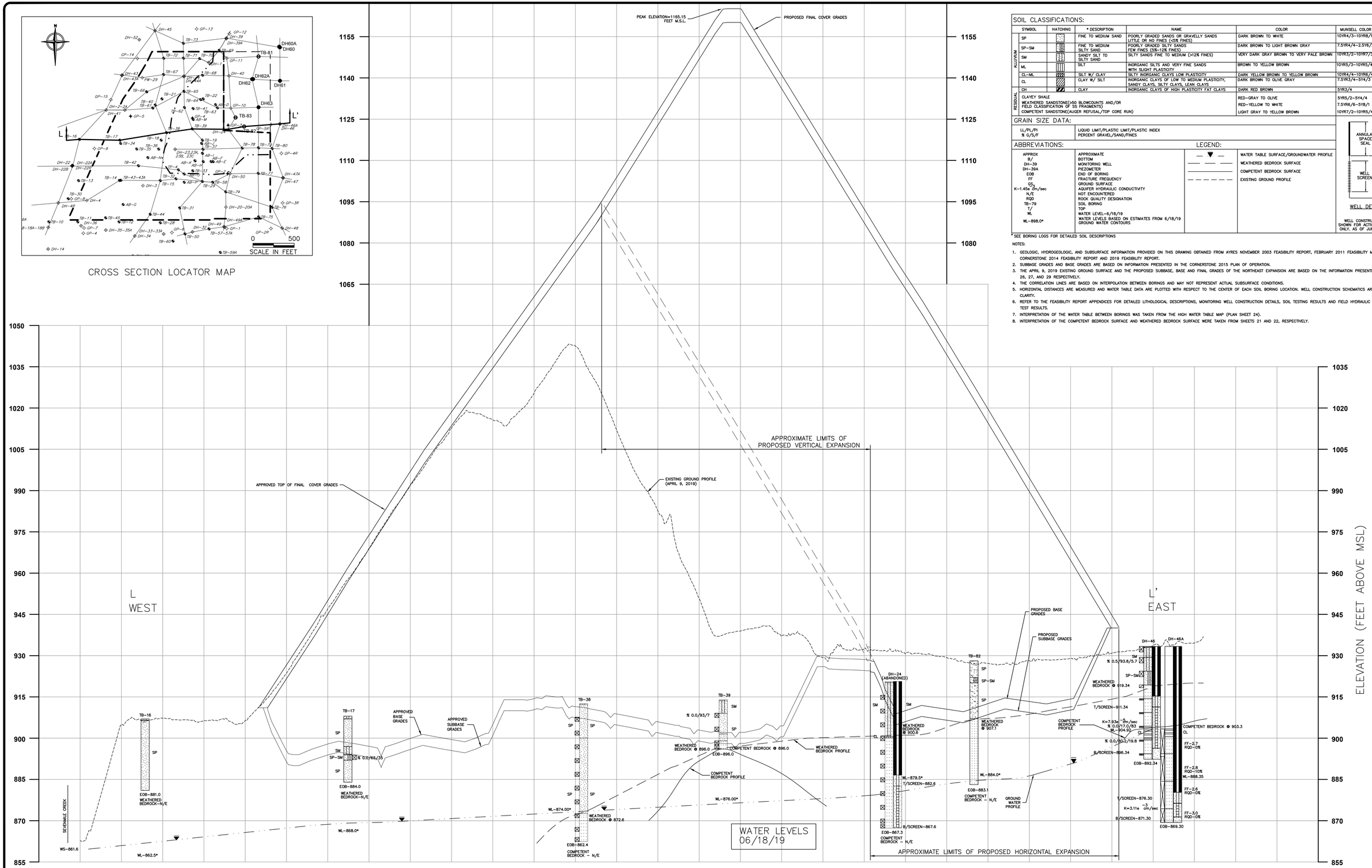
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION K-K'

SHEET NO. **15**

PROJECT NO. 180720

File: X:\PROJECTS\SEVEN MILE CREEK\180720 – GEOTECH INVESTIGATION & FEAS_Plan Set\15-SMC720-XS-KK.dwg Layout: 15 User: SCOTT.WILSON Jul 03, 2019 – 11:01am

CROSS SECTION LOCATOR MAP



SOIL CLASSIFICATIONS:

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ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YB/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

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EOB	END OF BORING
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K–1.45e-2cm/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
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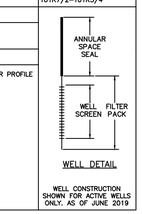
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

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15 0 100 200
SCALE IN FEET

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 7/3/2019
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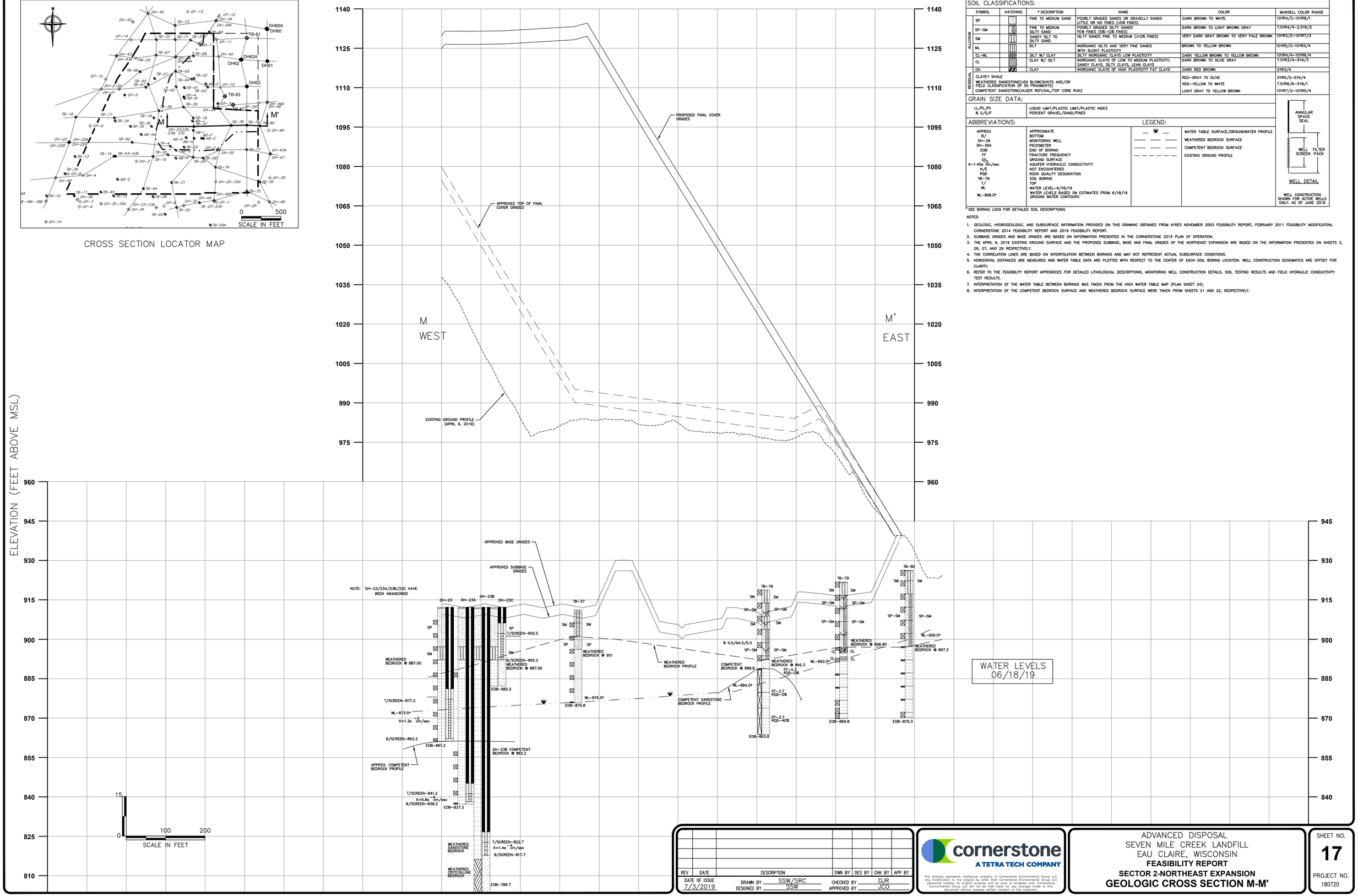
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION L-L'

SHEET NO. **16**
PROJECT NO. 180720

File: X:\PROJECTS\SEVEN MILE CREEK\180720 - GEOTECH INVESTIGATION & FEAS_Plan Set\16-SMC720-XS-LL.dwg Layout: 16 User: SCOTTWILSON Jul 03, 2019 - 11:02am

CROSS SECTION LOCATOR MAP



SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SANDY SILT TO SILTY SAND	SILTY SANDS FINE TO MEDIUM (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5YR/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

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B/	BOTTOM
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DH–39A	PIEZOMETER
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TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE

WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

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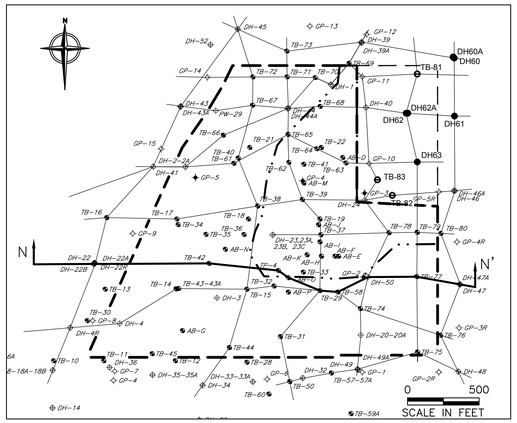
ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION M-M'

SHEET NO. **17**

PROJECT NO. 180720

File: K:\PROJECTS\SEVEN MILE CREEK\180720 – GEOTECH INVESTIGATION & FEAS_Plan Set\17-SWC720-XS-MM.dwg Layout: 17 User: SCOTTWILSON Jul 03, 2019 – 11:02am



CROSS SECTION LOCATOR MAP

SOIL CLASSIFICATIONS:

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GRAIN SIZE DATA:

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LEGEND:

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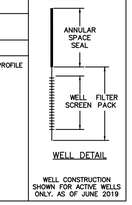

WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

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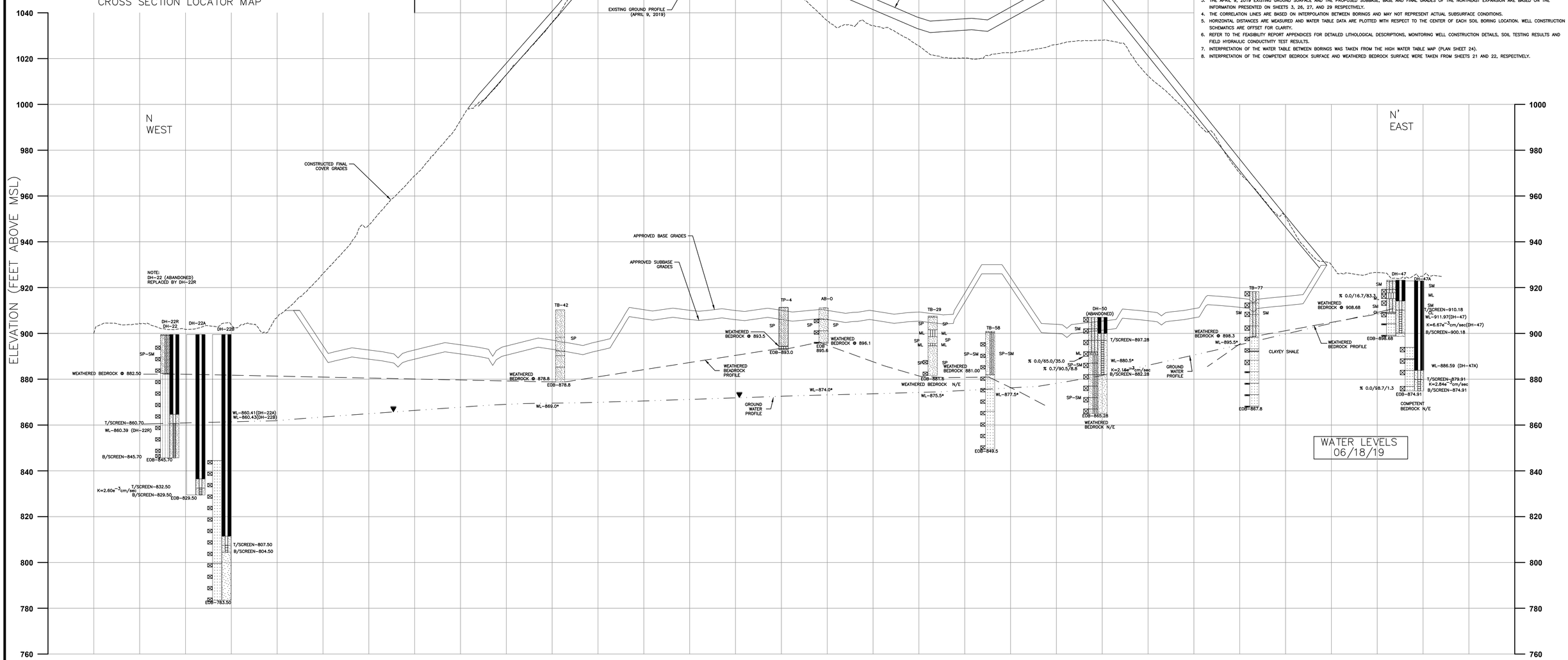

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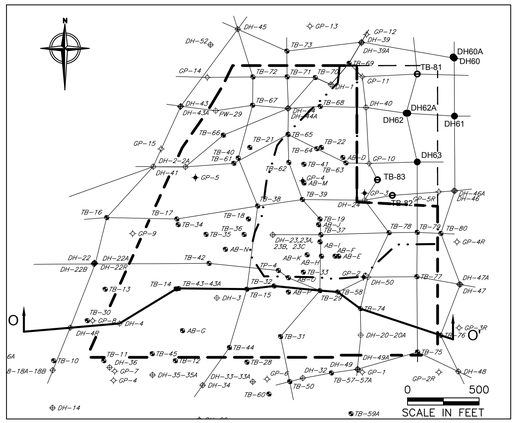
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION N-N'

SHEET NO. **18**

PROJECT NO. 180720

File: X:\PROJECTS\SEVEN MILE CREEK\180720 – GEOTECH INVESTIGATION & FEAS_Plan Set\18-SMC720-XS-NN.dwg Layout: 18 User: SCOTT.WILSON Jul 03, 2019 – 10:55am



CROSS SECTION LOCATOR MAP

SOIL CLASSIFICATIONS:

	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
ALLUVIUM	SP		FINE TO MEDIUM SAND	POORLY GRADED SANDS OR GRAVELLY SANDS LITTLE OR NO FINES (<5% FINES)	DARK BROWN TO WHITE	10YR4/3–10YR8/1
	SP–SM		FINE TO MEDIUM SILTY SAND	POORLY GRADED SILTY SANDS FEW FINES (5%–12% FINES)	DARK BROWN TO LIGHT BROWN GRAY	7.5YR4/4–2.5Y6/2
	SM		SILTY SAND TO SILTY SAND	SANDY SILT TO SILTY SANDS (>12% FINES)	VERY DARK GRAY BROWN TO VERY PALE BROWN	10YR3/2–10YR7/3
	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
	CL–ML		SILT W/ CLAY	SILTY INORGANIC CLAYS LOW PLASTICITY	DARK YELLOW BROWN TO YELLOW BROWN	10YR4/4–10YR6/4
	CL		CLAY W/ SILT	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	DARK BROWN TO OLIVE GRAY	7.5YR3/4–5Y4/3
	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
	WEATHERED SANDSTONE(>50 BLOWCOUNTS AND/OR FIELD CLASSIFICATION OF SS FRAGMENTS)				RED–YELLOW TO WHITE	7.5YR6/6–5Y8/1
	COMPETENT SANDSTONE(AUGER REFUSAL/TOP CORE RUN)				LIGHT GRAY TO YELLOW BROWN	10YR7/2–10YR5/4

GRAIN SIZE DATA:

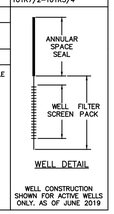
LL/PL/PI	LIQUID LIMIT/PLASTIC LIMIT/PLASTIC INDEX
% G/S/F	PERCENT GRAVEL/SAND/FINES

ABBREVIATIONS:

APPROX	APPROXIMATE
B/	BOTTOM
DH–39	MONITORING WELL
DH–39A	PIEZOMETER
EOB	END OF BORING
FF	FRACTURE FREQUENCY
GS	GROUND SURFACE
K–1.45e^{-7}cm/sec	AQUIFER HYDRAULIC CONDUCTIVITY
N/E	NOT ENCOUNTERED
RQD	ROCK QUALITY DESIGNATION
TB–79	SOIL BORING
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



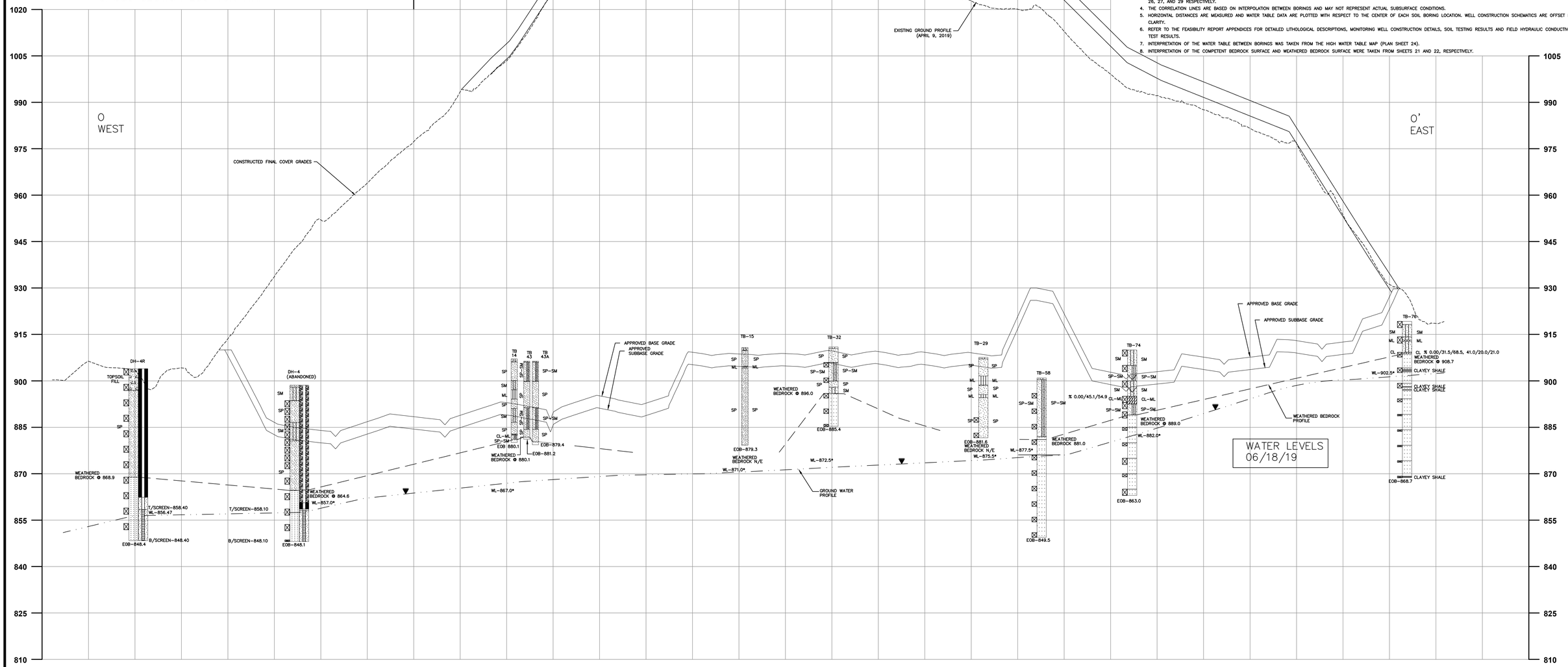
WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

* SEE BORING LOGS FOR DETAILED SOIL DESCRIPTIONS

NOTES:

1. GEOLOGIC, HYDROGEOLOGIC, AND SUBSURFACE INFORMATION PROVIDED ON THIS DRAWING OBTAINED FROM AYRES NOVEMBER 2003 FEASIBILITY REPORT, FEBRUARY 2011 FEASIBILITY MODIFICATION, CORNERSTONE 2014 FEASIBILITY REPORT AND 2019 FEASIBILITY REPORT.
2. SUBBASE GRADES AND BASE GRADES ARE BASED ON INFORMATION PRESENTED IN THE CORNERSTONE 2015 PLAN OF OPERATION.
3. THE APRIL 9, 2019 EXISTING GROUND SURFACE AND THE PROPOSED SUBBASE, BASE AND FINAL GRADES OF THE NORTHEAST EXPANSION ARE BASED ON THE INFORMATION PRESENTED ON SHEETS 3, 26, 27, AND 29 RESPECTIVELY.
4. THE CORRELATION LINES ARE BASED ON INTERPOLATION BETWEEN BORINGS AND MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.
5. HORIZONTAL DISTANCES ARE MEASURED AND WATER TABLE DATA ARE PLOTTED WITH RESPECT TO THE CENTER OF EACH SOIL BORING LOCATION. WELL CONSTRUCTION SCHEMATICS ARE OFFSET FOR CLARITY.
6. REFER TO THE FEASIBILITY REPORT APPENDICES FOR DETAILED LITHOLOGICAL DESCRIPTIONS, MONITORING WELL CONSTRUCTION DETAILS, SOIL TESTING RESULTS AND FIELD HYDRAULIC CONDUCTIVITY TEST RESULTS.
7. INTERPRETATION OF THE WATER TABLE BETWEEN BORINGS WAS TAKEN FROM THE HIGH WATER TABLE MAP (PLAN SHEET 24).
8. INTERPRETATION OF THE COMPETENT BEDROCK SURFACE AND WEATHERED BEDROCK SURFACE WERE TAKEN FROM SHEETS 21 AND 22, RESPECTIVELY.



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DATE OF ISSUE 7/3/2019 — DRAWN BY SSW/SRC — DESIGNED BY SSW — CHECKED BY DJR — APPROVED BY JCO

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ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION O-O'

SHEET NO. **19**

PROJECT NO. 180720

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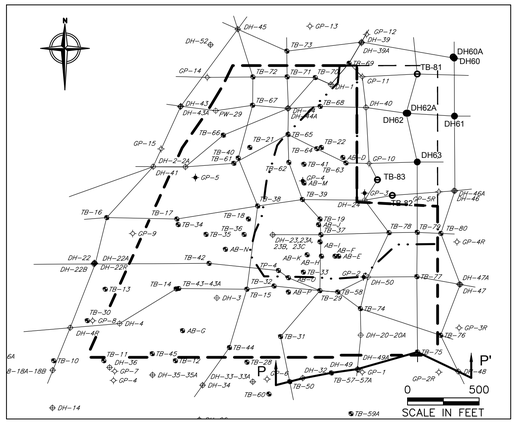

CROSS SECTION LOCATOR MAP

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	SYMBOL	HATCHING	* DESCRIPTION	NAME	COLOR	MUNSELL COLOR RANGE
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	ML		SILT	INORGANIC SILTS AND VERY FINE SANDS WITH SLIGHT PLASTICITY	BROWN TO YELLOW BROWN	10YR5/3–10YR5/4
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	CH		CLAY	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS	DARK RED BROWN	5YR3/4
RESIDUAL	CLAYEY SHALE				RED–GRAY TO OLIVE	5YR5/2–5Y4/4
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GRAIN SIZE DATA:

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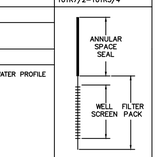
T/	TOP
WL	WATER LEVEL–6/18/19
WL–898.0*	WATER LEVELS BASED ON ESTIMATES FROM 6/18/19 GROUND WATER CONTOURS

LEGEND:

▼	WATER TABLE SURFACE/GROUNDWATER PROFILE
	WEATHERED BEDROCK SURFACE
	COMPETENT BEDROCK SURFACE
	EXISTING GROUND PROFILE



WELL DETAIL

WELL CONSTRUCTION SHOWN FOR ACTIVE WELLS ONLY, AS OF JUNE 2019

* SEE BORING LOGS FOR DETAILED SOIL DESCRIPTIONS

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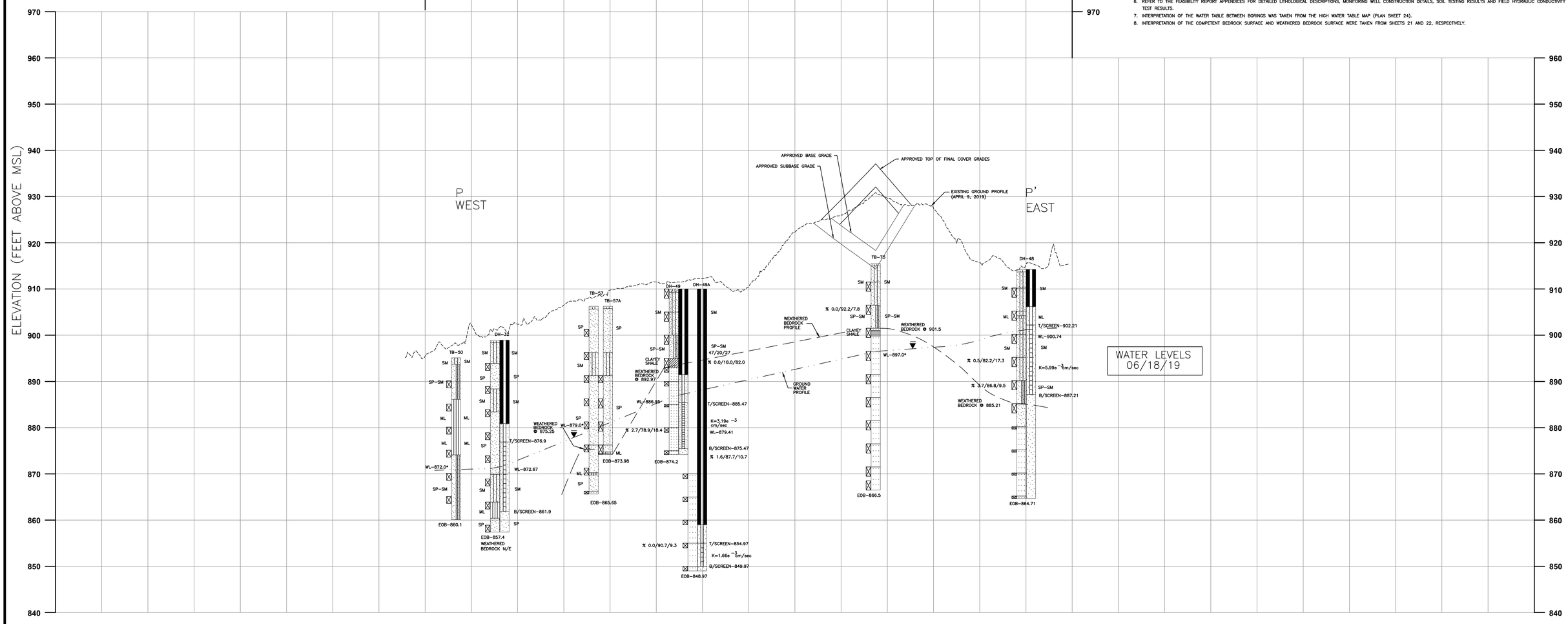

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ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN
FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
GEOLOGIC CROSS SECTION P-P'

SHEET NO. **20**
PROJECT NO. 180720

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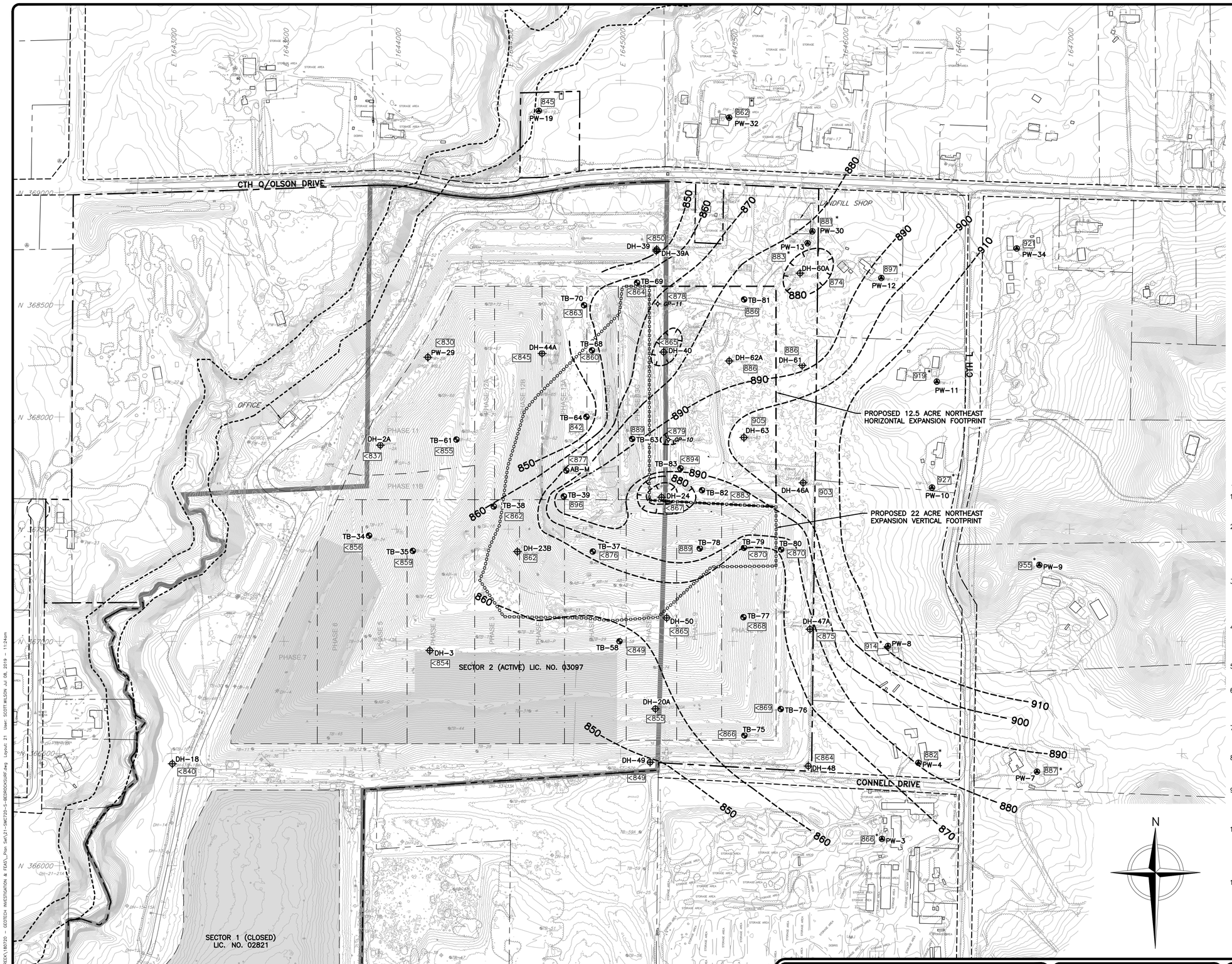

LEGEND

- MUNICIPAL BOUNDARY (CITY OF EAU CLAIRE)
- PROPERTY BOUNDARY
- ROAD RIGHT-OF-WAY
- PERMITTED SOLID WASTE BOUNDARY
- PHASE BOUNDARY
- FINAL COVER AREA
- APPROXIMATE 100-YEAR FLOODPLAIN DELINEATION
- EXISTING EDGE OF WOODS/SHRUBS
- 1000 EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- DH-33 EXISTING GROUNDWATER MONITORING WELL
- PW-8 EXISTING PRIVATE WELL
- GP-13 EXISTING GAS PROBE
- B-68 SOIL BORING LOCATION
- DH-44 ABANDONED MONITORING WELL
- PW-5 ABANDONED PRIVATE WELL
- GP-3 ABANDONED GAS PROBE
- PROPOSED NORTHEAST EXPANSION HORIZONTAL FOOTPRINT
- PROPOSED NORTHEAST EXPANSION VERTICAL FOOTPRINT
- 910 INFERRED COMPETENT BEDROCK CONTOUR (FT-MSL) (10-FOOT INTERVALS)
- 880 DEPRESSION IN APPROXIMATE COMPETENT BEDROCK SURFACE (FT-MSL)
- 897 APPROXIMATE COMPETENT BEDROCK ELEVATION (FT-MSL) AT MONITORING WELLS/BORINGS (SEE NOTE 13)
- 914* APPROXIMATE COMPETENT BEDROCK ELEVATION (FT-MSL) AT PRIVATE WELLS (SEE NOTE 12)
- <862 COMPETENT BEDROCK DEPTH (FT-MSL) IS ESTIMATED TO BE LESS THAN THE NOTED ELEVATION.

NOTES:

1. DRONE SURVEY PERFORMED BY CQM ON APRIL 9, 2019 WITHIN AREA SHOWN ON MAP AND SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY SRMC ON APRIL 6, 2017.
2. PROPERTY BOUNDARIES AND ROAD RIGHT-OF-WAYS ARE FROM DRAWINGS CREATED BY AYRES ASSOCIATES WITH SUPPLEMENTAL DATA FROM EAU CLAIRE COUNTY'S GIS DEPARTMENT. CTH Q/OLSON ROAD OVER SEVEN MILE CREEK WAS REDESIGNED AND REBUILT IN LATE 2018. THE ROAD WAS STRAIGHTENED AND RAISED. UPDATES TO THE ROAD CONFIGURATION ON DRAWINGS WILL BE PROVIDED ONCE ADDITIONAL SURVEY INFORMATION AND/OR AERIAL PHOTOGRAPHY IS PROVIDED.
3. DRAWING DEPICTS BORINGS WHICH ENCOUNTERED THE COMPETENT BEDROCK SURFACE (AS DEFINED IN NOTES 9, 10, AND 11, BELOW) AND SELECT BORINGS WHICH DID NOT ENCOUNTER THE BEDROCK SURFACE AS NOTED BY THE LESS THAN SYMBOL AND ELEVATIONS. ELEVATIONS ARE ROUNDED TO THE NEAREST WHOLE NUMBER.
4. MONITORING WELL AND BORING LOCATIONS, EXCEPT FOR DH-40, DH-51, DH-22R, DH-52, DH-53, DH-60, DH-60A, DH-61, DH-62, DH-62A, DH-63, TB-81, TB-82, TB-83 AND TB-83B ARE FROM AYRES ASSOCIATES HORIZONTAL AND VERTICAL EXPANSION FEASIBILITY REPORT (NOVEMBER 2003).
5. MONITORING WELL (DH-40 AND DH-51) LOCATIONS ARE FROM AYRES ASSOCIATES SECTOR 2-PLAN OF OPERATION-PLAN MODIFICATION (AUGUST 2011).
6. MONITORING WELL (DH-52 AND DH-53) LOCATIONS ARE BASED ON AYRES ASSOCIATES WELL INFORMATION FORM DATED SEPTEMBER 2006. MONITORING WELL DH-22R LOCATION BASED ON AYRES ASSOCIATES WELL INFORMATION FORM DATED OCTOBER 2011.
7. MONITORING WELLS DH-60 THROUGH DH-63, AND BORINGS TB-81 THROUGH TB-83B WERE INSTALLED FOR THE NORTHEAST EXPANSION AND SURVEYED BY CQM, INC. ON JANUARY 8, 2019.
8. MONITORING WELLS THAT HAVE BEEN REPLACED ARE DESIGNATED WITH THE LETTER "R" IN WELL NAME (DH-4R). PIEZOMETER LOCATIONS ARE DESIGNATED WITH THE LETTERS "A, B OR C" (DH-22A/DH-22B).
9. COMPETENT BEDROCK ELEVATIONS AT PRIVATE WELLS (PW-XX) ARE APPROXIMATE AND BASED ON USGS TOPOGRAPHIC GROUND SURFACE ELEVATIONS, MARGINALLY DETAILED GEOLOGIC DESCRIPTIONS ON WELL DRILLER LOGS, AND/OR WELL CASING DEPTHS INTO BEDROCK.
10. COMPETENT BEDROCK ELEVATIONS IN LANDFILL SITE BORINGS (TB-XX AND DH-XX) ARE DEFINED BY AUGER OR DRILL ROD REFUSAL. TOP OF BEDROCK CORE RUN ELEVATIONS AT BORINGS DH-23B, DH-46A, TB-78, DH-60A, DH-61, DH-62A AND DH-63 ALSO DEFINE THE ESTIMATED COMPETENT BEDROCK SURFACE. BORING DEPTHS WHERE AUGER REFUSAL WAS NOT ENCOUNTERED IN THE BEDROCK ARE DENOTED BY A LESS THAN "<" SYMBOL.
11. THE COMPETENT BEDROCK SURFACE IS HIGHLY VARIABLE AND IS BASED ON INTERPRETATION BETWEEN BORINGS WHICH MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.

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ADVANCED DISPOSAL
SEVEN MILE CREEK LANDFILL
EAU CLAIRE, WISCONSIN

FEASIBILITY REPORT
SECTOR 2-NORTHEAST EXPANSION
ESTIMATED COMPETENT BEDROCK SURFACE MAP

SHEET NO. **21**
PROJECT NO. 180720

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