



September 11, 2026

Mr. Mike Smith, P.E.,
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, IA 50321

RE: Dubuque Metropolitan Sanitary Landfill
Permit No. 31-SDP-02-75
Proposed Decommissioning and Extension of Select Site Methane Monitoring Points

Dear Mr. Smith,

HDR is reaching out on behalf of Dubuque Metropolitan Area Solid Waste Agency (DMASWA) to provide details regarding the plan to decommission site methane monitoring point GP-02 and extend the casing of site methane monitoring point GP-03 at the Dubuque Metropolitan Sanitary Landfill located at 101 Airborne Road, Dubuque, IA 52003 as well as to see if IDNR has any comments or questions with the plans prior to implementation.

To avoid damage to GP-02 due to ongoing and future soil borrow operations, DMASWA plans to decommission GP-02. DMASWA is also constructing a stormwater berm on the downslope side of the current soil borrow area to maintain adequate stormwater controls. The constructed berm will conflict with GP-03 and will require the extension of the casing for the methane monitoring point. GP-02 and GP-03 are similar in location, construction, and its subsurface monitoring. DMASWA proposes to use solely GP-03 in lieu of GP-02 and GP-03. Methane monitoring is proposed to occur one more time for Quarter 3 Methane Monitoring prior to the alterations to GP-03 and decommissioning of GP-02.

The work to be completed includes:

- Decommissioning methane monitoring point GP-02 by a certified well contractor in compliance with IAC 567.39
 - Documentation of the decommissioning in compliance with IAC 567.39 submitted to the Iowa Department of Natural Resources (IDNR) with the Well Plugging Form (542-1226) provided by IDNR.
- Extension of site methane monitoring point GP-03 by a certified well contractor in compliance with IAC 567.49
 - Extend GP-03 well casing by 10-FT from elevation 871.87 FT to elevation 881.87 FT.
 - Documentation of the extension in compliance with IAC 567.49 submitted to the IDNR with the Well Reconstruction Record Form (542-1519) provided by IDNR.

Work is planned to be completed no later than September 31st, 2026. Please reach out to me with any questions or comments.

Sincerely,
HDR Engineering, Inc.

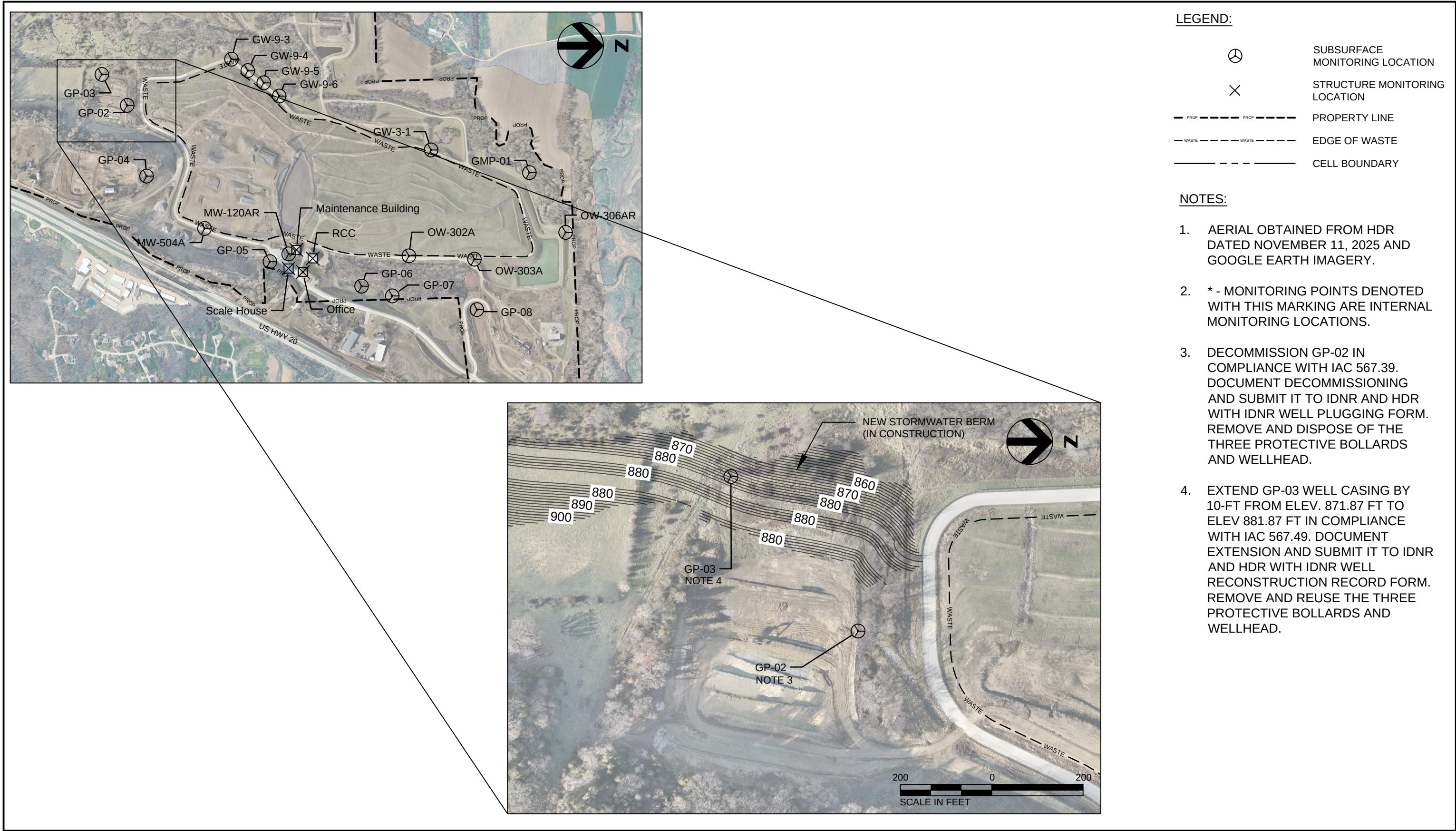
Will Nicholson, P.E.
Project Engineer

Mike Walsh, E.I.T.
Solid Waste EIT

Attachments: GP-02 and GP-03 Location Figure, Boring Logs, and Well Construction Logs

cc: Joe Mayne, Dubuque Metropolitan Area Solid Waste Agency
Kenneth Miller, Dubuque Metropolitan Area Solid Waste Agency

C:\pwworking\central02\00483235\Figure 1 - MMM Changes.dwg, Plot, 8/11/2026 12:12:05 PM, MICWALSH



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Dubuque Metro Area Landfill Permit No. 31-SDP-02-75P
Well or Piezometer No. GP-02 Dates Started 11-09-17 Date Completed 11-09-17

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site NA Distance and direction along boundary NA
Distance and direction from boundary to surface monitoring well N- 3641672.449, E- 5654915.267
Elevation (+0.01 ft. MSL) 908.11
Ground Surface 905.4 Top of protective casing 908.5
Top of well casing 908.11 Benchmark elevation NA
Benchmark description Above mean sea level

B. SOIL BORING INFORMATION

Construction Company Name Terracon
Address 3105 Capital Way Suite 5 City, State, Zip Code Cedar Falls, Iowa 50613
Name of driller Ron Falk
Drilling method Hollow stem auger Drilling fluid none Bore Hole diameter 8 inch
Soil sampling method split spoon every 5 feet Depth of boring 35 feet

C. MONITORING WELL INSTALLATION

Casing material <u>PVC</u>	Placement method <u>Placed through hollow stem auger</u>
Length of casing <u>6.2</u>	Volume <u>1.3</u>
Outside casing diameter <u>2.375 inch</u>	Backfill (if different from seal): <u>N/A</u>
Inside casing diameter <u>2.067 inch</u>	Material <u></u>
Casing joint type <u>Threaded</u>	Placement method <u></u>
Casing/screen joint type <u>Threaded</u>	Volume <u></u>
Screen material <u>PVC</u>	Surface seal design: <u></u>
Screen opening size <u>0.020 in</u>	Material of protective casing: <u>Steel</u>
	Material of grout between
Screen length <u>30 feet</u>	protective casing and well casing: <u>3/8" Bentonite chips</u>
Depth of Well <u>35 feet</u>	Protective cap: <u></u>
Filter Pack: <u></u>	Material <u>Steel</u>
Material <u>Pea gravel</u>	Vented?: ☒ Y ☐ N
Grain Size <u>3/8"</u>	Locking?: ☒ Y ☐ N
Volume <u>10.3</u>	Well cap: <u>PVC</u>
Seal (minimum 3 ft. length above filter pack): <u>3.5 feet</u>	Material <u></u>
Material <u>3/8" Bentonite chips</u>	Vented?: ☒ Y ☐ N

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level 24.5 feet Stabilization time
Well development method None
Average depth of frost line 48 inches

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature *Ronald Falk* Certification # 2403 Date 11-09-17

Attachments: Driller's log, Pipe schedules and grouting schedules, 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

WELL LOG NO. GP-02

Page 1 of 1

PROJECT: Dubuque Metro Area Landfill

CLIENT: Dubuque Metropolitan Area Solid Waste Agency
Dubuque, IA

SITE: 14501 US Highway 20
Dubuque, IA

GRAPHIC LOG	LOCATION: See Figure 1 provided by HDR (A-1) Latitude: 42.4573° Longitude: -90.7807°		INSTALLATION DETAILS Top Casing Elev: 908.1		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
	DEPTH	ELEVATION (Ft.)							
	4.0	901.5	FILL - SANDY LEAN CLAY, dark brown						
			SHALE, weathered, with clay layers, light brown		5			12	9-9-10 N=19
	9.0	896.5	SANDY LEAN CLAY (CL), trace gravel/rubble, gray brown		10			13	3-4-4 N=8
	12.0	893.5	CLAYEY SHALE, brown						
	15.0	890.5	SHALE, gray		15			14	7-8-9 N=17
					20			13	8-15-17 N=32
					25			13	16-22-18 N=40
					30			15	20-37-50/5"
					35			12	22-39-50/4"
35.4			870	Boring Terminated at 35.4 Feet					
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: 4-1/4" Hollow Stem Auger			See Appendix B for explanation of symbols and abbreviations.		Notes: Screen slot 0.020 Elevations provided by HDR				
Abandonment Method: Boring completed as a permanent monitoring well.									
WATER LEVEL OBSERVATIONS 24.5' observed while sampling			 3105 Capital Way Ste 5 Cedar Falls, IA		Well Started: 11-09-2017		Well Completed: 11-09-2017		
		Drill Rig: # 977			Driller: RF				
		Project No.: 13177111			Exhibit: A-2				

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL 13177111.GPJ TERRACON_DATATEMPLATE.GDT 11/30/17

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Dubuque Metropolitan Area Solid Waste Agency Permit No. _____
Well or Piezometer No. GP-03 Dates Started 8-9-2022 Date Completed 8-9-2022

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site Southwest Corner Distance and direction along boundary _____
Distance and direction from boundary to surface monitoring well _____
Elevation (+0.01 ft. MSL) _____
Ground Surface 869.31 Top of protective casing 872.24
Top of well casing 871.87 Benchmark elevation 810.37
Benchmark description Local based on BM1

B. SOIL BORING INFORMATION

Construction Company Name EB Solutions, Inc.
Address 5060 4th Street SW City, State, Zip Code Cedar Rapids, Iowa 52404
Name of driller Robert Hunt
Drilling method Hollow Stem/Air Rotary Drilling fluid _____ Bore Hole diameter 4-inch
Soil sampling method Split Spoon Depth of boring 30 feet

C. MONITORING WELL INSTALLATION

Casing material <u>PVC</u>	Placement method <u>Hand</u>
Length of casing <u>8-Feet</u>	Volume <u>0.26 Cubic Feet</u>
Outside casing diameter <u>2.4-Inch</u>	Backfill (if different from seal): _____
Inside casing diameter <u>2-Inch</u>	Material _____
Casing joint type <u>Threaded</u>	Placement method _____
Casing/screen joint type <u>Flush</u>	Volume _____
Screen material <u>PVC</u>	Surface seal design: <u>Bentonite</u>
Screen opening size <u>0.020</u>	Material of protective casing: <u>Aluminum</u>
	Material of grout between protective casing and well casing: <u>Bentonite</u>
Screen length <u>25-Feet</u>	Protective cap: <u>4-Inch by 4-Inch Stick-up</u>
Depth of Well <u>30-Feet</u>	Material <u>Aluminum</u>
Filter Pack: <u>4 to 30 Feet</u>	Vented?: ☐ Y ☒ N Locking?: ☒ Y ☐ N
Material <u>Pea Gravel</u>	Well cap: <u>J-Plug</u>
Grain Size <u>3/8-Inch</u>	Material <u>Plastic</u>
Volume <u>1.70 Cubic Feet</u>	Vented?: ☐ Y ☒ N
Seal (minimum 3 ft. length above filter pack): <u>0 to 4 Feet</u>	
Material <u>Bentonite-Hydrated</u>	

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level 860.48 Stabilization time 24 Hours
Well development method Not Developed
Average depth of frost line 36-Inches

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature _____ Certification # 3161 Date 2-7-2023

Attachments: Driller's log, Pipe schedules and grouting schedules, 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-537-4051, nina.booker@dnr.iowa.gov

SOIL TEST BORING LOG NO. GP-03



JOB NO.: EB42221027

BORING LOCATION: Northing: 3641386.98 Easting: 5654608.46

DATES DRILLED: 8/9/2022

GROUND ELEVATION: 869.31

5060 4th Street SW Cedar

Rapids, Iowa 52404

PROJECT: DMSWA

SITE LOCATION: 925 Kerper Court

CITY/STATE: Dubuque, Iowa

DEPTH	SOIL SYMBOLS	USCS: SOIL/ROCK DESCRIPTION	RECOVERY (in.)	SAMPLE TYPE	BLOWS PER 6 INCHES	N-VALUE	COMPRESSIVE STRENGTH (1 ons Square foot)	MOISTURE CONTENT (%)	UNCONFINED STRENGTH (PSF)	LIQUID LIMIT	PLASTIC LIMIT	PLASTIC INDEX
0		OL: Clay, organic, lean, trace gravel, brown	18	SS								
5		CL: Clay, lean, trace gravel, dark yellowish brown	16	SS								
10		Limestone: Limestone, moderate yellowish brown (Maquoketa Formation-Elgin Member)										
15		Shale: Shale, medium light gray, (Maquoketa Formation-Elgin Member)										
20												
25												
30		: Bottom of Boring @ 30 feet below ground surface										
35												

NOTES:

Sample Type: Split Spoon/Chip

Drilling Type: HSA/Air Rotary

WATER LEVEL OBSERVATIONS

During Drilling: 843.31

24 Hours After Drilling: 860.48