SCS ENGINEERS

April 29, 2024 File No. 04223059.00

Mr. Andrew Smith Washington State Department of Ecology Southwest Regional Office Toxics Cleanup Program 300 Desmond Drive Lacey, Washington 98503

Subject: Decommissioning of Gas Probes and Monitoring Wells for Leichner Landfill

Located on Waste Connection, Inc. (WCI) Operations Center

9411 NE 94th Ave., Vancouver, Washington 98662

Dear Mr. Smith:

This letter report describes the decommissioning of three landfill gas (LFG) probes (GP-3, GP-4, and GP-5) and three groundwater monitoring wells (MW-1S, MW-1N, and MW-1E) located on the Waste Connections, Inc. (WCl) Operations Center property at 9411 NE 94th Ave in Vancouver, Washington (see Figure 1). SCS Engineers (SCS) prepared this report on behalf of WCl. The monitoring wells and LFG probes are part of the groundwater and LFG compliance monitoring networks for the closed Leichner Landfill. The decommissioning was done to accommodate site improvements being made for WCl's Operations Center. The LFG probes were decommissioned on January 26, 2024 and the monitoring wells were decommissioned on March 6, 2024, in accordance with the *Work Plan for Groundwater and Landfill Gas Monitoring Network Modifications*.¹ Per the Ecology-approved work plan, the LFG probes will be reinstalled after most construction activities are completed but prior to occupancy of the new buildings on-site. Installation is tentatively scheduled sometime late Summer 2024. The monitoring wells, per the approved work plan, will not be replaced.

SCS subcontracted with Cascade Drilling (Cascade), a licensed drilling contractor based in Clackamas, Oregon, to decommission the gas probes, and Holt Services Inc. (Holt), a licensed drilling contractor based in Vancouver, Washington, to decommission the monitoring wells. A representative from SCS was onsite during the decommissioning activities to provide contractor oversight and construction quality assurance. A photographic log of the decommissioning activities is presented in Attachment 1. A copy of the State of Washington Resource Protection Well Report for each decommissioned probe or well is provided in Attachment 2.

Before decommissioning, SCS arranged for public utility notification using the Washington Utility Notification Center to provide utility clearance within a 20-foot radius of each LFG probe and the monitoring well.

DECOMMISSIONING GAS PROBES

The locations of the decommissioned LFG probes GP-03, GP-04 and GP-05 are shown on Figure 1. LFG probe GP-03 was installed with an above-ground monument in the northwest corner of the WCI main entrance, while GP-04 and GP05 were installed as flush monuments along the east border of

¹ SCS, 2024. Work Plan for Groundwater and Landfill Gas Monitoring Network Modifications, WCI Operations Center/Closed Leichner Landfill, Clark County, Washington to Andrew Smith, Jan 15.



the main WCl office (Figure 1). There were no installation records of these probes on file with the Washington Department of Ecology (Ecology), so all three probes were required to be over drilled.

Prior to drilling, a backhoe was used to pull the well monuments and polyvinyl chloride (PVC) well casings, when possible. The monuments for GP-03 and GP-05 were pulled with the PVC well casings fully intact. GP-04 well casing did not come out with the monument and was removed during over drilling. Once monuments and bollards were pulled, Cascade over drilled each boring using an 8.25-inch outside diameter hollow stem auger mounted to a tracked Geoprobe drilling rig. After reaching total depth of about 16.5 feet (Table 1), the augers were retracted. The borehole remained open and was backfilled from the bottom to within two feet of the surface with 3 to 6 bags of hydrated bentonite chips and then covered with native soil up to surface level.

Drill cuttings were placed in labeled, 55-gallon steel drums next to the respective boring locations for disposal by WCI. All monuments well casing materials were disposed of by WCI.

DECOMMISSIONING MONITORING WELLS

Monitoring well MW-1S, MW-1N, and MW-1E were installed as three nested 4-inch wells within a single boring and a 12-inch PVC casing was placed around them and served as the monument. These nested wells were located near the northwest corner of the office building, near the sidewalk (Figure 1). The well casings were all below ground surface. The monitoring wells MW-1S, MW-1N, and MW-1E did not have a record on file with Ecology, and therefore it was required to be over drilled. A summary of information for these three wells is provided in Table 1.

	Depth to Bottom	Depth to Water on 3/6/24	
Monitoring Well	(ft btoc)	(ft btoc)	
MW-1N	15	Dry	
MW-1E	29.05	Dry	
A A\A/ 1 C	44.50	35.5	

Table 1. Monitoring Well Information

ft bTOC = feet below top of casing

Prior to drilling, the 12-inch by 5-foot PVC monument was pulled. An attempt was made to pull the 4-inch PVC well casings from the boring but only the shallowest casing for well MW-1N (15 feet long) came out.

To over drill the the well boreholes, the drillers used a 12-inch outside diameter hollow stem auger with a cork plug installed at the bottom of the auger, mounted to a CME 850X tracked hollow stem auger drilling rig. The borehole was over drilled to a total depth of 50-feet and the PVC from the other two wells (MW-1E and MW-1S) came up during over drilling. The borehole was backfilled with 30 bags of hydrated bentonite chips and brought up to within 2 feet of the surface and then covered with native soil up to surface level.

Drill cuttings from over drilling were placed in two labelled steel drums and stored on-site. All monument and well materials were properly disposed of by WCI.

Mr. Andrew Smith April 29, 2024 Page 3

If you have any questions or comments regarding this letter-report, please contact Barbara Lary at (971) 284-1297 or by email at blary@scsengineers.com.

Sincerely,

Brandon Rapozo Staff Professional SCS Engineers Barbara E. Lary, LG Project Manager SCS Engineers

Barbara E. Lary

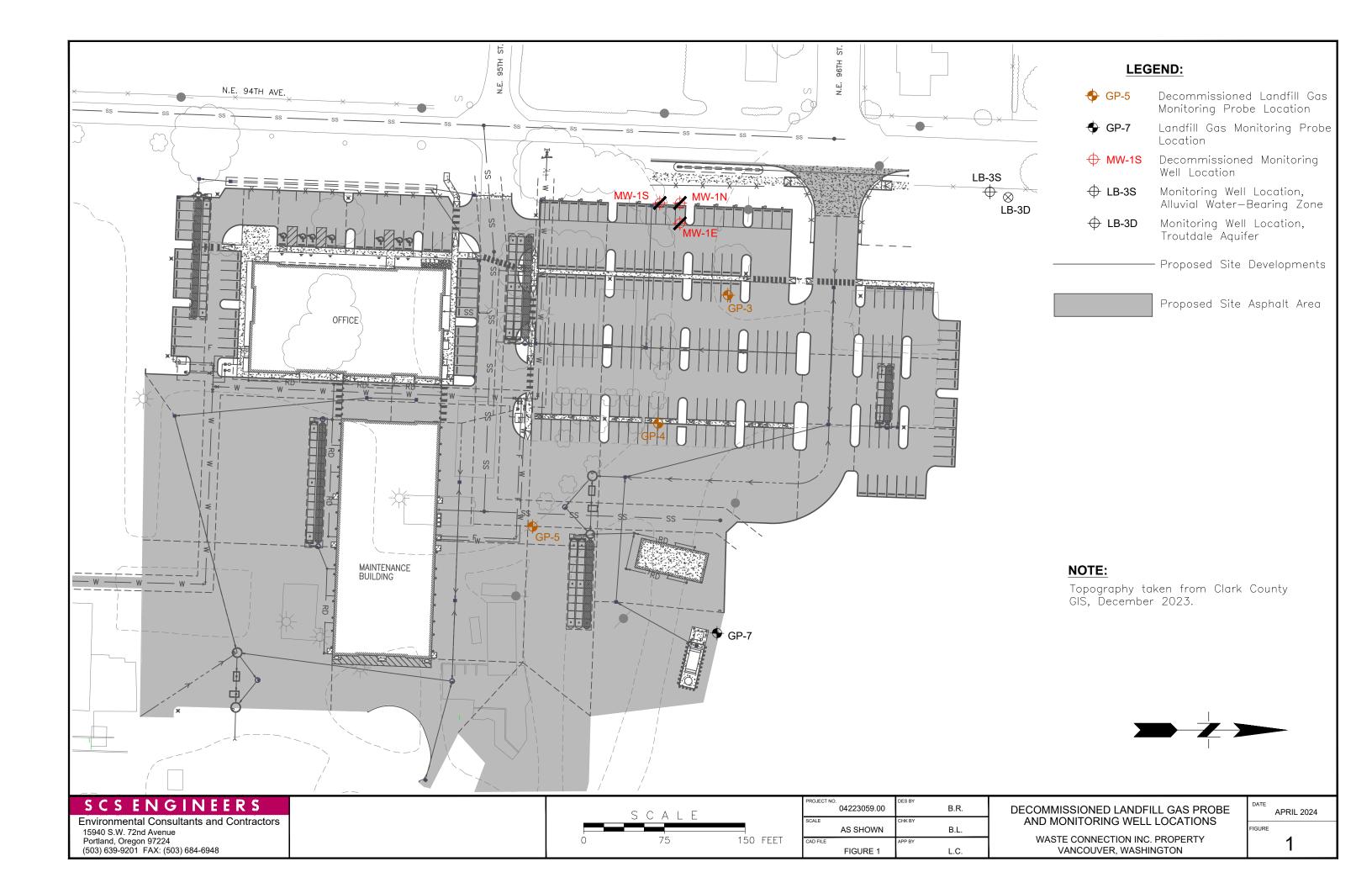
Louis Caruso, LG, LHG Project Director/Vice President SCS Engineers

Attachments: Figure 1 - Decommissioned Landfill Gas Probe and Monitoring Well Locations

Attachment 1 – Photographic Log

Attachment 2 - State of Washington Resource Protection Well Reports

cc: Yuta Naganuma and Derek Ranta, WCI.
Mike Davis and Tina Kendall, CCPH
Alan Melnick and Melissa Sutton, CCPH



Attachment 1

Photographic Log

Site Photographic Log 9411 NE 94th Street, Vancouver, Washington www.scsengineers.com



Photo 1: View looking at GP-3 during decommissioning. Metal above ground monument set into concrete is pulled using an excavator as Cascade Drilling supervises. Note, 1-inch PVC also coming up. Work done on January 29, 2024.



Photo 2: Each boring was over drilled using 8-inch outside diameter augers to total depth and then backfilled with hydrated bentonite chips. The above photo shows drilling out GP-3.



Photo 3: View of GP-3 when finished. Backfilled with bentonite chips and then gravel over the surface. Note all drill cuttings were placed into 55-gallon, labeled drums.

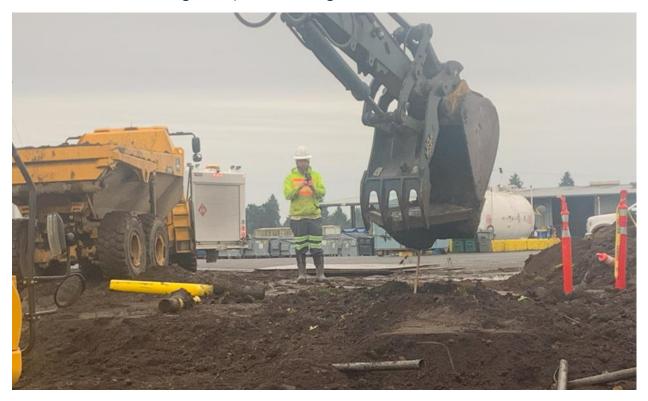


Photo 4: View of the flush monument and PVC pipe coming out of the ground for GP-05 using an excavator supervised by Cascade Drilling.



Photo 5: View of drill rig setup on GP-4, getting ready to over drill the boring to total depth (16.5 ft).

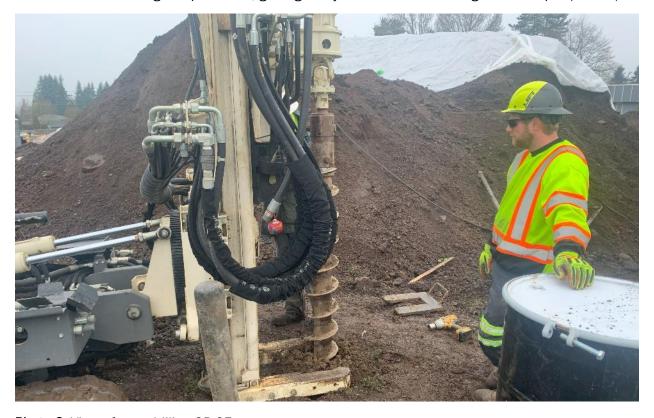


Photo 6: View of over drilling GP-05.



Photo 7: View of tracked auger drilling rig setup on MW-1N, 1S, and 1E (nested wells) to decommission them by Holt Drilling on March 6, 2024.



Photo 8: View of 12-inch diameter PVC outer casing being pulled out of the ground.



Photo 9: View of three nested wells in boring, each constructed using 4-inch PVC pipe.



Photo 10: View of the 4-inch PVC for the shallowest of the three wells (MW-1E) that could be pulled from the borehole. The other two well casings could not be removed. They were shredded during over drilling.



Photo 11: View of the area following well decommissioning.

Attachment 2

State of Washington Resource Protection Well Reports



Resource Protection Well Re		Notice of Intent No. AE	E81381	
Submit one well report per well installed. See page tw	vo for instructions.	Type of Well:		
Type of Work:			n Well Injection Point	
Construction	Original NOI	Remediation Well	Grounding Well	
■ Decommission ⇒ Original NOI No. No C		☐ Geotechnical Soil I☐ Environmental Bo		
Ecology Well ID Tag No.		Soil- Vapor		
Site Well Name GP-3		Duamanta Oranga Waste	e Connections of Washington Inc.	
Consulting Firm SCS Engineers		Well Street Address 94		
Was a variance approved for this well/boring?				
If yes, what was the variance for?		City Vancouver		
		Tax Parcel No. 199859	9000	
		Location (see instructio	ns): WWM □ or EWM ■	
WELL CONSTRUCTION CERTIFICATION:		NW 1/4-1/4 NW 1/4, S	ection 4 Town 2N Range 2E	
accept responsibility for construction of this well, and its co- Washington well construction standards. Materials used and		Latitude (Example: 47.12345) 45.68904829465135		
reported are true to my best knowledge and belief.			20.12345) -122.57331625337054	
■ Driller □ Trainee □ Engineer			S 84 Coordinate System)	
Name (Print Last, First Name) GALBRETH, RYA	W	,	5 inches Casing diameter inches	
Driller/Engineer/Trainee Signature		Company (1995) (C.E. C. S. C.		
License No. 2522		*	ft below top of casing Date	
Company Name CASCADE DRILLING	· · · · · · · · · · · · · · · · · · ·	☐ Above-ground comp	letion with bollards	
If trainee box is checked, sponsor's license num	ber:	Stick-up of top of v	vell casing ft above ground surface	
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Construction Design	l v	Vell Data	Driller's Log	
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			February 12, 2024	
			Department of Ecology	
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	Resource Protection Well Re	port	Notice of Intent No. Al	E81381		
Submit one well report per well installed. See page two for instructions.		Type of Well:				
	Type of Work: ☐ Construction ☐ Decommission ⇒ Original NOI No. No Original NOI		Resource Protection Well Injection Point			
			Remediation Well	Grounding Well		
			Geotechnical Soil Boring Ground Source Heat Pump			
	Ecology Well ID Tag No		☐ Environmental Boring ☐ Other			
	Site Well Name GP-4		Property Owner Waste Connections of Washington Inc.			
	Consulting Firm SCS Engineers					
Was a variance approved for this well/boring? ☐Yes ☑ No			Well Street Address 9411 NE 94th Ave. City Vancouver County Clark			
	If yes, what was the variance for?		•	•		
			Tax Parcel No. 199859	3000		
			Location (see instruction	·		
	WELL CONSTRUCTION CERTIFICATION:			ection 4 Town 2N Range 2E		
	accept responsibility for construction of this well, and its con- Washington well construction standards. Materials used and		Latitude (Example: 47.	12345) 45.68904829465135		
	reported are true to my best knowledge and belief.			120.12345) -122.57331625337054		
	■ Driller □ Trainee □ Engineer		•	S 84 Coordinate System)		
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Submit one well report per well installed. See page t	wo for instructions.	Type of Well:		
Type of Work:			on Well	
Construction	Original NOI	☐ Remediation Well	Grounding Well	
■ Decommission ⇒ Original NOI No. No.		Geotechnical Soil		
Ecology Well ID Tag No.		Environmental Bo	•	
Site Well Name GP-5		□ Soil- □ Vapor- □ Water-sampling Property Owner Waste Connections of Washington Inc. Well Street Address 9411 NE 94th Ave.		
Consulting Firm SCS Engineers				
Was a variance approved for this well/boring?				
If yes, what was the variance for?		City Vancouver		
		Tax Parcel No. 19985	9000	
		Location (see instruction	ons): WWM □ or EWM ■	
WELL CONSTRUCTION CERTIFICATION:		NW 1/4-1/4 NW 1/4, S	ection 4 Town 2N Range 2E	
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Company Name CASCADE DRILLING	*	_	letion with bollards	
If trainee box is checked, sponsor's license num	nber:	Stick-up of top of v	well casing ft above ground surface	
\$ponsor's signature		Start Date 2/12/2024	Completed Date 2/12/2024	
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Type of Work: ☐ Construction ☐ Decommission ➡ Original NOI No. UNKOWN Ecology Well ID Tag No. UNKNOWN Site Well Name Consulting Firm ☐ SCS EVILWOUS Was a variance approved for this well/boring? ☐ Yes ☑ No		Resource Protection Well					
					***************************************	City VANCOUVER	County CLARK
						Tax Parcel No. 1598	59000
						Location (see instruction	ns): WWM □ or EWM □
					nstructed and/or		ection 4 Town 2N Range 26
iance with all		• •					
information							
VL		84 Coordinate System)					
~	Borehole diameter 10	_ inches Casing diameter inches					
Driller/Engineer/Trainee Signature License No. 2989 Company Name Hour		Static water level ft below top of casing Date					
		etion with bollards					
:	Stick-up of top of w	rell casing ft above ground surface					
	Start Date 3/6/24	Completed Date $\frac{5}{k}/24$					
V	Vell Data	Driller's Log					
0-2	TOP SOIL) BENTONITO CHIPS	0-1 MONUMENT SAND PVC					
i i	Yes No Structed and/or ance with all information	Type of Well: Resource Protection Remediation Well Geotechnical Soil E Environmental Bori Yes No Well Street Address City UANCOUNK Tax Parcel No. 1898 Location (see instruction ance with all information Latitude (Example: 47.1 Longitude (Example: -1 (WGS) Borehole diameter 10 Static water level Above-ground comple: Stick-up of top of w					