

250 SW Taylor Street Portland, OR 97204 503-226-4211 nwnatural.com

February 2, 2022

Angelica Greene Industrial Stormwater Permit Manager City of Portland Bureau of Environmental Services 6543 N. Burlington Avenue Portland, OR 97203

Re: 1200-Z Permit Second Quarter 2022–2023 Discharge Monitoring Report NW Natural Gasco Property DEQ File Number 62231

Dear Ms. Greene,

Attached please find the Discharge Monitoring Report for the NW Natural Gasco Property for the 1200-Z second quarter reporting period.

Two stormwater samples were collected during this quarter. All benchmarks and impairment concentrations were met for this quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is—to the best of my knowledge and belief—true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 122.22(d)).

If you have any questions about this package, please contact Kendra Skellenger with Anchor QEA, LLC, at 503-924-6179.

Very truly yours,

Kathryn Williams Vice President of Public Affairs NW Natural



Oregon Department of Environmental Quality Stormwater Program

Discharge Monitoring Report 1200-Z Permit

Updated 1/6/2022

Environmental Quality

National Pollutant Discharge Elimination System Permit Industrial Stormwater Discharge General Permit

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Instructions:

This report must be completed for each quarter and submitted by the 15th of February, May, August and November to the appropriate agent. The report must contain the results of all stormwater monitoring conducted during each quarter, and variance requests are due semiannually, in February and August. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

Facility Infor	mation				
Legal name:	Northwest Natural Gas C	company	DEQ File No:	62231	
Common name:	NW Natural		EPA #:	ORR706061	
Facility address:	7900 NW St. Helens Rd		Reporting Quarter:	☐ 1st 🗸 2nd 🗌 3rd 🗌 4th	*see table 7
Facility City, Zip:	Portland, OR 97210		Reporting Year:		
Geo-Region:	Portland Harbor	2nd Geo-Region:	Select		
Is your receiving	water impaired for pH'	? No		Administered by:	
				City of Portland	and the second
Monitoring Ir	SIC Code: 4925	Secondary SIC Code	:	City of Eugene	
Number of dischar			Number of monitoring) the
				mwater to industrial activities, or 2 id maintained. (See permit pg 23)) the
		ate on DEQ or Agent a			
1/25/2023					
			<u>Decesso</u>		
DMR Submit	tal Checklist	Please check all appl	cable documents are inc	cluded with you DMR submittal	:
Original Signa	ture 🔽 Laboratory Re	eports 🛛 🗹 Chain of Cu	stody QA/QC fo	rm Lab 🗸 pH field she	eets
Certification		CLEAR STREAM	A PROPERTY OF THE PARTY OF		Printer a
system designed t person or persons is, to the best of m	o assure that qualified per who manage the system, y knowledge and belief, to	rsonnel properly gather ar , or those persons directly rue, accurate, and comple	d evaluate the information responsible for gathering the	ection or supervision in accordance submitted. Based on my inquiry of ne information, the information sub re significant penalties for submitti 2.22(d)).	the mitted
Signature:	Katty M. Ul	ω	_ Date:	2/2/2023	
Printed Name:	Kathryn Williams	ed Representative		Vice President of Public Affair	rs
	Legally AutiOn2	eu nepresentative	Email:	kathryn.williams@nwnatural	.com
			Telephone :	503.220.2370	



Oregon Department of Environmental Quality Stormwater Program

Discharge Monitoring Report

1200-Z Permit

Updated	1/6/2022
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For official use only: Legal Name: DEQ File No:

Instructions:

This report must be completed for each quarter and submitted by the 15th of February, May, August and November electronically through Your DEQ Online. The report must contain the results of all stormwater monitoring conducted during each quarter, and variance requests are due semi-annually, in February and August. Sample for the pollutants specified in your monitoring table provided by your DEQ at monitoring point(s) identified in your SWPCP. You must upload the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

				F	Portland I	Harbor		
Monitoring Location(s)	Sample Date	pН	Total Copper	Total Lead	Total Zinc	Total Suspended Solids	E. coli	Total Iron
Mor Loca	2.2.2	s.u.	mg/L	mg/L	mg/L	mg/L	organisms/ 100 mL	mg/L
001	10.31.2022	7.6	0.00299	0.000496	0.0486	7	installing to	0.358
001	12.29.2022	7.7	0.00233	0.000469	0.0283	ND (5.00)		2.24
Geometri	c Mean		0.0026	0.00	0.04	4		1
Geometri	c Mean	P. A. B. A.			and the second second			12 213
Geometri	c Mean							
Geometri								1.200.000
	You must s	select if	your receiv	ing water i	s impaired	for pH in t	he 'Genera	al' tab
	hmarks	5.5-9.0	0.015	0.24	0.24	30		1. 1. 1.
303(d	l) Limits	OOPS	0.015	0.017	0.04	2412.6	406	10

			FIEL	DS	SAM	PLIN	G DATA	SHEE	Г		
V	ANCH QEA 2	HOR	a state to be added as a state of the state		6720 SV	the second s	m Ave, Suite 125, P				۶.
PROJECT NAME:			ater Monite	oring 0	00029-02.7	78	Location ID:	Outfall 1	07		
SITE ADDRESS:	7900 1	NW St H	Ielens Rd,	Portla	nd, OR						
					Eastin	ig: 7624	051.869				
WIND FROM:	N NE	Е	(SE)	s	L	N NW	LIGHT	MEDI		Col Station	HEAVY
WEATHER:	SUNNY	PRTLY	CLDY	CLC	DUDY	RAIN	No Wind		MPERA	TURE:	52 °I
	YSI	Calibi	ration				1		Water	Quality	Data
Date:	10/28	N.					s	ampling M			
Probe S/N:	(1997)	2001 201			-				_	1145	
	Gasco		F '		-			83	22	- 1829-187 - 187 - 188 	
Calibration Solution	Initi		Fina		~~~	perature		þ	H (SU):	7.6	(
pH 4.01	4.13		9.00			.0	-				
pH 7.0	7.0		7.0).7					
§ METHODS: (A) Grab (B) Compo	site (C) I	Disposable	Bailer			p (E) Waterra inertial R SAMPLING	l pump (F) O	ther		
Date: 10/28/22	Time	: 1144	5		Method (N DAMI LING				[√ if used]
Bottle Type				#	Volum	022	servative [circle]	Ice	Filter	pH	1
VOA Glass			-	3	40 ml	8	HCl	YES	NO		
Amber Glass				5	1L		None	YES	NO	10000	
Green Poly	17	-		1	125m	0	NaOH	YES	NO		
Red Poly-total	10/2	8/22	1145	0	250m		HNO3	TES	10		/
Red Poly-dissolved**				1	250m		HNO ₃	YES	YES		
White Poly**	10/2	8/22	1145		2 50 m	(11)	None	YES	NO	1222	~
Amber Glass*		-	-	2	1L	P	HCI	YES	NO		
Total Bottles (i	include d	uplicate	e count):	2			VOA Trij	p Blank (cii	cle if co	llected)	
BOTTLE TYPE			and a second second second	the second second	Ser Could Sea Provide	E (Circle a	applicable or write	non-standa	rd analy	sis below)
VOA vial - Glass			y EPA 62								
AMBER - Glass (Unpre	1. 1990 Da				Co. Namos Arrest	C-KTONN	des by EPA 608 (11	L)	PCBs b	by EPA 60)8 (1L)
AMBER - Glass (Preser		1992 - 19	Grease b			8. 389.3443				a	
GREEN - Poly	201800 DI:	-101 22	1932	- 20-	202020		Cyanide (SM 4500	-CN I) (1 x	125 mL	for both)	
RED DISSOLVED - Po	-	and the second second		-	and the second second	EPA 200.8	the second design of the secon		T (1)		
RED TOTAL - Poly WHITE - Poly	- []	27/11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	SM2540 I		'b, Zn) I	by EPA 20	0.8 (250 mL)		I otal I	Mercury E	by EPA 245.1 (250 mL)
Commente	K		-	- And							
Tarbidity = "	1.55 1	NTU	s Cle	ur/c	olorle	55					
SAMPLER: (OSC)	Mont	gome	5			ision	Matin-				



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Thursday, December 15, 2022 Kendra Skellenger Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

RE: A2J1002 - Gasco 1200Z Stormwater Sampling - 000029-02.78T-14.014E

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2J1002, which was received by the laboratory on 10/31/2022 at 8:02:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Cooler #1

(See Cooler Receipt Form for details) 2.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC	Project: Gasco 1200Z Stormwater Sampling	
6720 SW Macadam Ave. Suite 125	Project Number: 000029-02.78T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager: Kendra Skellenger	A2J1002 - 12 15 22 1033

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION											
Client Sample ID	Laboratory ID Matrix	Date Sampled Date Received									
0107-01-102822	A2J1002-01 Water	10/28/22 11:45 10/31/22 08:02									

Apex Laboratories

Darwin Thomas, Business Development Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219 Project:Gasco 1200Z Stormwater SamplingProject Number:000029-02.78T-14.014EProject Manager:Kendra Skellenger

<u>Report ID:</u> A2J1002 - 12 15 22 1033

ANALYTICAL SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)												
	Sample	Detection	Reporting	Date									
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
0107-01-102822 (A2J1002-01)		Matrix: Water											
Batch: 22K0410													
Copper	0.00299	0.00100	0.00200	mg/L	1	11/11/22 04:00	EPA 200.8						
Iron	0.358	0.0250	0.0500	mg/L	1	11/11/22 04:00	EPA 200.8						
Lead	0.000496	0.000100	0.000200	mg/L	1	11/11/22 04:00	EPA 200.8						
Zinc	0.0486	0.00200	0.00400	mg/L	1	11/11/22 04:00	EPA 200.8						

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC	Project:	Gasco 1200Z Stormwater Sampling	
6720 SW Macadam Ave. Suite 125	Project Number:	000029-02.78T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager:	Kendra Skellenger	A2J1002 - 12 15 22 1033

ANALYTICAL SAMPLE RESULTS

	Solid and Moisture Determinations											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
0107-01-102822 (A2J1002-01)				Matrix: W	ater							
Batch: 22K0123 Total Suspended Solids	7.00		5.00	mg/L	1	11/03/22 14:02	SM 2540 D	SL-1				

Apex Laboratories

Darwin Thomas, Business Development Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco 1200Z Stormwater Sampling

 Project Number:
 000029-02.78T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2J1002 - 12 15 22 1033

QUALITY CONTROL (QC) SAMPLE RESULTS

l			Total M	etais by	EPA 200.		5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
3atch 22K0410 - EPA 3015A							Wat	er				
Blank (22K0410-BLK1)			Prepared:	11/10/22	13:25 Anal	yzed: 11/11	/22 03:50					
EPA 200.8												
Copper	ND	0.00100	0.00200	mg/L	1							
ron	ND	0.0250	0.0500	mg/L	1							
Lead	ND	0.000100	0.000200	mg/L	1							
Zinc	ND	0.00200	0.00400	mg/L	1							
LCS (22K0410-BS1)			Prepared:	11/10/22	13:25 Anal	yzed: 11/11	/22 03:55					
EPA 200.8												
Copper	0.0531	0.00100	0.00200	mg/L	1	0.0556		96	85-115%			
ron	2.70	0.0250	0.0500	mg/L	1	2.78		97	85-115%			
Lead	0.0555	0.000100	0.000200	mg/L	1	0.0556		100	85-115%			
Zinc	0.0552	0.00200	0.00400	mg/L	1	0.0556		99	85-115%			
Duplicate (22K0410-DUP1)			Prepared:	11/10/22	13:25 Anal	yzed: 11/11	/22 04:05					
QC Source Sample: 0107-01-102822	2 (A2J1002-	<u>-01)</u>										
EPA 200.8				_								
Copper	0.00301	0.00100	0.00200	mg/L	1		0.00299			0.7	20%	
ron	0.370	0.0250	0.0500	mg/L	1		0.358			3	20%	
Lead	0.000517		0.000200	mg/L	1		0.000496			4	20%	
	0.0500		0.00400									
Zinc	0.0300	0.00200	0.00400	mg/L	1		0.0486			3	20%	
Zinc Matrix Spike (22K0410-MS1)	0.0300	0.00200			1 13:25 Anal					3	20%	
										3	20%	
Matrix Spike (22K0410-MS1)	2 (A2J1002-	- <u>01)</u>	Prepared:			yzed: 11/11	/22 04:11			3	20%	
Matrix Spike (22K0410-MS1) <u>QC Source Sample: 0107-01-10282</u> 2	2 (A2J1002- 0.0551	- <u>01)</u> 0.00100	Prepared: 0.00200			yzed: 11/11 0.0556	/22 04:11 0.00299	94	70-130%			
Matrix Spike (22K0410-MS1) <u>QC Source Sample: 0107-01-10282</u> <u>EPA 200.8</u> Copper	2 (A2J1002- 0.0551 2.97	-01) 0.00100 0.0250	Prepared: 0.00200 0.0500	11/10/22	13:25 Anal	yzed: 11/11 0.0556 2.78	/22 04:11 0.00299 0.358	94 94				
Matrix Spike (22K0410-MS1) <u>QC Source Sample: 0107-01-102822</u> EPA 200.8 Copper ron Lead	2 (A2J1002- 0.0551 2.97 0.0529	- <u>01)</u> 0.00100	Prepared: 0.00200	11/10/22 mg/L	13:25 Anal	yzed: 11/11 0.0556	/22 04:11 0.00299	94 94	70-130%			
Matrix Spike (22K0410-MS1) <u>QC Source Sample: 0107-01-102822</u> EPA 200.8 Copper ron Lead	2 (A2J1002- 0.0551 2.97	-01) 0.00100 0.0250	Prepared: 0.00200 0.0500	11/10/22 1 mg/L mg/L	13:25 Anal 1 1	yzed: 11/11 0.0556 2.78	/22 04:11 0.00299 0.358	94 94 94	70-130% 70-130%			
Matrix Spike (22K0410-MS1) QC Source Sample: 0107-01-102822 EPA 200.8 Copper ron Lead Zinc	2 (A2J1002- 0.0551 2.97 0.0529	-01) 0.00100 0.0250 0.000100	Prepared: 0.00200 0.0500 0.000200 0.00400	mg/L mg/L mg/L mg/L	13:25 Anal 1 1 1	yzed: 11/11 0.0556 2.78 0.0556 0.0556	/22 04:11 0.00299 0.358 0.000496 0.0486	94 94 94	70-130% 70-130% 70-130%			
Matrix Spike (22K0410-MS1) <u>QC Source Sample: 0107-01-102822</u> <u>EPA 200.8</u>	2 (A2J1002- 0.0551 2.97 0.0529 0.0981	-01) 0.00100 0.0250 0.000100	Prepared: 0.00200 0.0500 0.000200 0.00400	mg/L mg/L mg/L mg/L	13:25 Anal 1 1 1 1	yzed: 11/11 0.0556 2.78 0.0556 0.0556	/22 04:11 0.00299 0.358 0.000496 0.0486	94 94 94	70-130% 70-130% 70-130%			

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219
 Project:
 Gasco 1200Z Stormwater Sampling

 Project Number:
 000029-02.78T-14.014E

Project Number: 000029-02.781-14.014E Project Manager: Kendra Skellenger <u>Report ID:</u> A2J1002 - 12 15 22 1033

QUALITY CONTROL (QC) SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0410 - EPA 3015A							Wat	er				
Matrix Spike (22K0410-MS2)			Prepared	: 11/10/22	13:25 Anal	yzed: 11/11	/22 04:21					
QC Source Sample: Non-SDG (A2J	<u>1007-01)</u>											
Iron	3.34	0.0250	0.0500	mg/L	1	2.78	0.545	100	70-130%			
Lead	0.0552	0.000100	0.000200	mg/L	1	0.0556	0.00113	97	70-130%			
Zinc	0.118	0.00200	0.00400	mg/L	1	0.0556	0.0621	100	70-130%			

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125

Portland, OR 97219

 Project:
 Gasco 1200Z Stormwater Sampling

 Project Number:
 000029-02.78T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2J1002 - 12 15 22 1033

QUALITY CONTROL (QC) SAMPLE RESULTS

			Solid a	nd Moist	ture Dete	rmination	S					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0123 - Total Suspen	ded Solid	s					Wa	ter				
Blank (22K0123-BLK1)			Prepared	: 11/03/22	14:02 Ana	lyzed: 11/03	/22 14:02					
<u>SM 2540 D</u> Total Suspended Solids	ND		5.00	mg/L	1							
Duplicate (22K0123-DUP1)			Prepared	: 11/03/22	14:02 Ana	lyzed: 11/03	/22 14:02					
QC Source Sample: Non-SDG (A2	J1019-01)											
Total Suspended Solids	ND		5.00	mg/L	1		ND				10%	SL-
Duplicate (22K0123-DUP2)			Prepared	: 11/03/22	14:02 Ana	lyzed: 11/03	/22 14:02					
QC Source Sample: Non-SDG (A2	J1026-05)											
Total Suspended Solids	ND		5.00	mg/L	1		ND				10%	SL-
Reference (22K0123-SRM1)			Prepared	: 11/03/22	14:02 Ana	lyzed: 11/03	/22 14:02					
<u>SM 2540 D</u>												
Total Suspended Solids	851			mg/L	1	828		103	85-115%			

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC	Project: Gasco 1200Z Stormwater Sampling	
6720 SW Macadam Ave. Suite 125	Project Number: 000029-02.78T-14.014E	Report ID:
Portland, OR 97219	Project Manager: Kendra Skellenger	A2J1002 - 12 15 22 1033

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)								
Prep: EPA 3015A					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 22K0410								
A2J1002-01	1 Water EPA 200.8 10/28/22 11:45 11/10/2				5 45mL/50mL 45mL/50mL			
		So	lid and Moisture Dete	erminations				
Prep: Total Suspended Solids Sample Default						RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 22K0123								
A2J1002-01	Water	SM 2540 D	10/28/22 11:45	11/03/22 14:02			NA	

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029-02.78T-14.014E Project Manager: Kendra Skellenger <u>Report ID:</u> A2J1002 - 12 15 22 1033

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

SL-1 Result is considered an estimated value. Less than 1 liter of sample was used in analysis and the method minimum residue of 2.5 mg was not met. Reporting level adjusted based on sample volume used.

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029-02.78T-14.014E Project Manager: Kendra Skellenger <u>Report ID:</u> A2J1002 - 12 15 22 1033

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: <u>Gasco 1200Z Stormwater Sampling</u> Project Number: 000029-02.78T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2J1002 - 12 15 22 1033

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219 Project: <u>Gasco 1200Z Stormwater Sampling</u> Project Number: 000029-02.78T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2J1002 - 12 15 22 1033

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex	Laboratories	

Matrix	Analysis	TNI_ID Analyte	TNI_ID	Accreditation
		All reported analytes are included in Apex Laboratories' current ORELAP scope	e <u>.</u>	

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

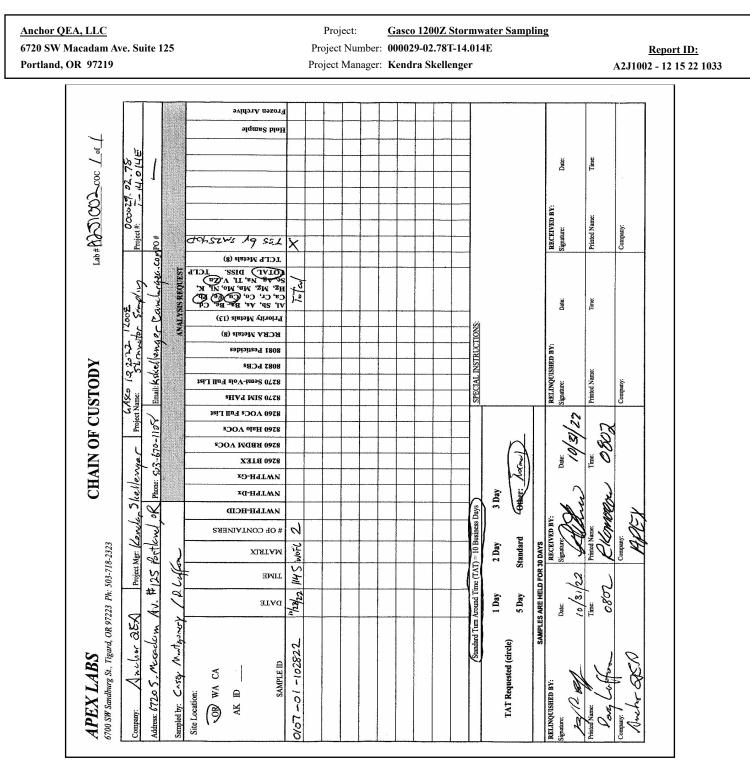
Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite I Portland, OR 97219		<u></u>	
Portland, OR 97219 Client: Project/Proj Delivery Infe Date/time rec Delivered by Cooler Inspe	Project Manager: Kendra Skelle APEX LABS COOLER RECEIPT FC $APEX LABS COOLER RECEIPT FC Author Elem et #: Gasco I 2022 2007 et #: Gasco I 2022 2007 et #: Gasco I R 2007 By: IIII et #: Gasco I R 2007 By: IIIII IIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	enger A2J1002 - 12 15 22 1033 DRM Lent WO#: A2 5.000 SPDMicoafe Saipling $27.07.78$ $T-14.014E5PMicoafe FKSenvoy SDS_OtherBy:KS? YesNo_X4 Cooler #5 Cooler #6 Cooler #7$	
Received on Temp. blanks Ice type: (Gei Condition (In Cooler out of Green dots ap Out of tempe <u>Sample Insp</u> All samples in	$\frac{y}{(Y/N)} = \frac{y}{(Y/N)}$	_ By: <u>Ггу</u>	
Containers/vo Do VOA vial Comments_	r discrepancies form initiated? Yes <u>No×</u> lumes received appropriate for analysis? Yes No <u>NA</u> have visible headspace? Yes <u>No</u> NA <u>X</u> :: pH checked: Yes <u>X</u> No NA pH appropriate? Yes <u>No</u> cormation:		
Labeled by:	Witness: C	Cooler Inspected by: Form Y-003 R-00 -	

Apex Laboratories

122_ 5434.910 HEAVY RE: 41 °
5434.910 HEAVY
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r 1



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Wednesday, January 25, 2023

Kendra Skellenger Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

RE: A2L1045 - Gasco 1200Z Stormwater Sampling - 000029.02.78 T-14.014E

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2L1045, which was received by the laboratory on 12/29/2022 at 4:28:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Default Cooler

(See Cooler Receipt Form for details) 1.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Anchor QEA, LLC	Project: Gasco 1200Z Stormwater Sampling	
6720 SW Macadam Ave. Suite 125	Project Number: 000029.02.78 T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager: Kendra Skellenger	A2L1045 - 01 25 23 1308

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION						
Client Sample ID	Laboratory ID Matrix	Date Sampled Date Received				
0107-02-122922	A2L1045-01 Water	12/29/22 07:30 12/29/22 16:28				

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Anchor QEA, LLC

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<u>Report ID:</u> A2L1045 - 01 25 23 1308

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
0107-02-122922 (A2L1045-01)				Matrix: Wa	ater			
Batch: 23A0388								
Copper	0.00233	0.00100	0.00200	mg/L	1	01/13/23 03:03	EPA 200.8	
Iron	2.24	0.0250	0.0500	mg/L	1	01/13/23 03:03	EPA 200.8	
Lead	0.000469	0.000100	0.000200	mg/L	1	01/13/23 03:03	EPA 200.8	
Zinc	0.0283	0.00200	0.00400	mg/L	1	01/13/23 03:03	EPA 200.8	

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Anchor QEA, LLC	Project:	Gasco 1200Z Stormwater Sampling	
6720 SW Macadam Ave. Suite 125	Project Number:	000029.02.78 T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager:	Kendra Skellenger	A2L1045 - 01 25 23 1308

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
0107-02-122922 (A2L1045-01)	Matrix: Water							
Batch: 23A0059 Total Suspended Solids	ND	5.00	5.00	mg/L	1	01/04/23 14:37	SM 2540 D	SL-1

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Portland, OR 97219

Project:Gasco 1200Z Stormwater SamplingProject Number:000029.02.78 T-14.014EProject Manager:Kendra Skellenger

<u>Report ID:</u> A2L1045 - 01 25 23 1308

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	.8 (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0388 - EPA 3015A							Wa	ter				
Blank (23A0388-BLK1)			Prepared:	01/12/23	08:14 Ana	yzed: 01/13	3/23 01:59					
EPA 200.8												
Copper	ND	0.00100	0.00200	mg/L	1							
Iron	ND	0.0250	0.0500	mg/L	1							
Zinc	ND	0.00200	0.00400	mg/L	1							
Blank (23A0388-BLK2)			Prepared:	01/12/23	08:14 Ana	yzed: 01/14	/23 00:55					
EPA 200.8												
Lead	ND	0.000100	0.000200	mg/L	1							Q-1
LCS (23A0388-BS1)			Prepared:	01/12/23	08:14 Ana	yzed: 01/13	3/23 02:04					
EPA 200.8												
Copper	0.0570	0.00100	0.00200	mg/L	1	0.0556		103	85-115%			
Iron	2.78	0.0250	0.0500	mg/L	1	2.78		100	85-115%			
Zinc	0.0573	0.00200	0.00400	mg/L	1	0.0556		103	85-115%			
LCS (23A0388-BS2)			Prepared:	01/12/23	08:14 Ana	yzed: 01/14	4/23 01:00					
<u>EPA 200.8</u> Lead	0.0584	0.000100	0.000200	mg/L	1	0.0556		105	85-115%			Q-1
Duplicate (23A0388-DUP1)			Prenared.	01/12/23	08:14 Ana	vzed: 01/13	3/23 02.14					
QC Source Sample: Non-SDG (A2	1 1020 01)		Troparea.	01/12/25		<u></u>						
<u>OC Source Sample: Non-SDG (A2</u> Copper	0.00522	0.00100	0.00200	mg/L	1		0.00501			4	20%	
Iron	0.00322	0.00100	0.0500	mg/L	1		0.00501			- 6	20%	
Zinc	0.0682	0.00200	0.00400	mg/L	1		0.954			6	20%	
Duplicate (23A0388-DUP3)			Prepared:	01/12/23	08:14 Ana	yzed: 01/16	5/23 18:42					
QC Source Sample: Non-SDG (A2	L1028-01RH	E1)				-						
Lead	0.00116	0.000100	0.000200	mg/L	1		0.00116			0.08	20%	Q-1
Matrix Spike (23A0388-MS1)			Prepared:	01/12/23	08:14 Ana	yzed: 01/13	3/23 02:24					
QC Source Sample: Non-SDG (A2 EPA 200.8	L1028-02)											
Copper	0.0573	0.00100	0.00200	mg/L	1	0.0556	0.00133	101	70-130%			
Apex Laboratories					The results	in this report	apply to the	samples analy	zed in accor	dance wit	h the chain	of

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6720 SW Macadam Ave. Suite 125 Portland, OR 97219
 Project:
 Gasco 1200Z Stormwater Sampling

 Project Number:
 000029.02.78 T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2L1045 - 01 25 23 1308

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 200	.8 (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0388 - EPA 3015A							Wat	ter				
Matrix Spike (23A0388-MS1)			Prepared:	01/12/23 (08:14 Anal	yzed: 01/13	/23 02:24					
QC Source Sample: Non-SDG (A2)	<u>.1028-02)</u>											
Iron	3.00	0.0250	0.0500	mg/L	1	2.78	0.180	101	70-130%			
Zinc	0.0772	0.00200	0.00400	mg/L	1	0.0556	0.0213	101	70-130%			
Matrix Spike (23A0388-MS2)			Prepared:	01/12/23 (08:14 Anal	yzed: 01/13	/23 02:58					
QC Source Sample: Non-SDG (A2)	.1043-01)											
<u>EPA 200.8</u>												
Copper	0.0688	0.00100	0.00200	mg/L	1	0.0556	0.00836	109	70-130%			
Iron	4.95	0.0250	0.0500	mg/L	1	2.78	1.99	107	70-130%			
Lead	0.0589	0.000100	0.000200	mg/L	1	0.0556	0.00109	104	70-130%			
Zinc	0.199	0.00200	0.00400	mg/L	1	0.0556	0.140	107	70-130%			
Matrix Spike (23A0388-MS4)			Prepared:	01/12/23 ()8:14 Anal	yzed: 01/16	/23 18:52					
QC Source Sample: Non-SDG (A2)	1028-02RF	22)										
EPA 200.8												
Lead	0.0571	0.000100	0.000200	mg/L	1	0.0556	0.000110	103	70-130%			Q-

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Portland, OR 97219

 Project:
 Gasco 1200Z Stormwater Sampling

 Project Number:
 000029.02.78 T-14.014E

Project Number: 000029.02.78 1-14.014E Project Manager: Kendra Skellenger <u>Report ID:</u> A2L1045 - 01 25 23 1308

QUALITY CONTROL (QC) SAMPLE RESULTS

	Solid and Moisture Determinations											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0059 - Total Suspen	ded Solid	s - 2022					Wat	ter				
Blank (23A0059-BLK1)			Prepared	: 01/04/23	14:37 Ana	lyzed: 01/04	/23 14:37					
<u>SM 2540 D</u> Total Suspended Solids	ND	5.00	5.00	mg/L	1							
Duplicate (23A0059-DUP1)			Prepared	: 01/04/23	14:37 Ana	lyzed: 01/04	/23 14:37					
QC Source Sample: Non-SDG (A2	2L1037-02)											
Total Suspended Solids	15.0	5.00	5.00	mg/L	1		16.0			6.45	10%	SL-
Duplicate (23A0059-DUP2)			Prepared	: 01/04/23	14:37 Ana	lyzed: 01/04	/23 14:37					
QC Source Sample: Non-SDG (A2	2L1081-01)											
Total Suspended Solids	70.0	5.00	5.00	mg/L	1		56.0			22.2	10%	Q-0
Reference (23A0059-SRM1)			Prepared	: 01/04/23	14:37 Ana	lyzed: 01/04	/23 14:37					
<u>SM 2540 D</u>												
Total Suspended Solids	823			mg/L	1	825		99.8	85-116%			

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6720 SW Macadam Ave. Suite 125	Project Number: 000029.02.78 T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager: Kendra Skellenger	A2L1045 - 01 25 23 1308

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)									
<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23A0388									
A2L1045-01	Water	EPA 200.8	12/29/22 07:30	01/12/23 08:14	45mL/50mL	45mL/50mL	1.00		
		So	lid and Moisture Dete	erminations					
Prep: Total Suspende	ed Solids - 2022				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23A0059									
Batch: 23A0059									

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Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029.02.78 T-14.014E Project Manager: Kendra Skellenger <u>Report ID:</u> A2L1045 - 01 25 23 1308

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16 Reanalysis of an original Batch QC sample.
- SL-1 Result is considered an estimated value. Less than 1 liter of sample was used in analysis and the method minimum residue of 2.5 mg was not met. Reporting level adjusted based on sample volume used.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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<u>Report ID:</u> A2L1045 - 01 25 23 1308

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

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Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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Soil and Sediment Samples:

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Project Number: 000029.02.78 T-14.014E

Project Manager: Kendra Skellenger

<u>Report ID:</u> A2L1045 - 01 25 23 1308

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

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Apex Laboratories									
Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation				
All reported analytes are included in Apex Laboratories' current ORELAP scope.									

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Field Testing Parameters

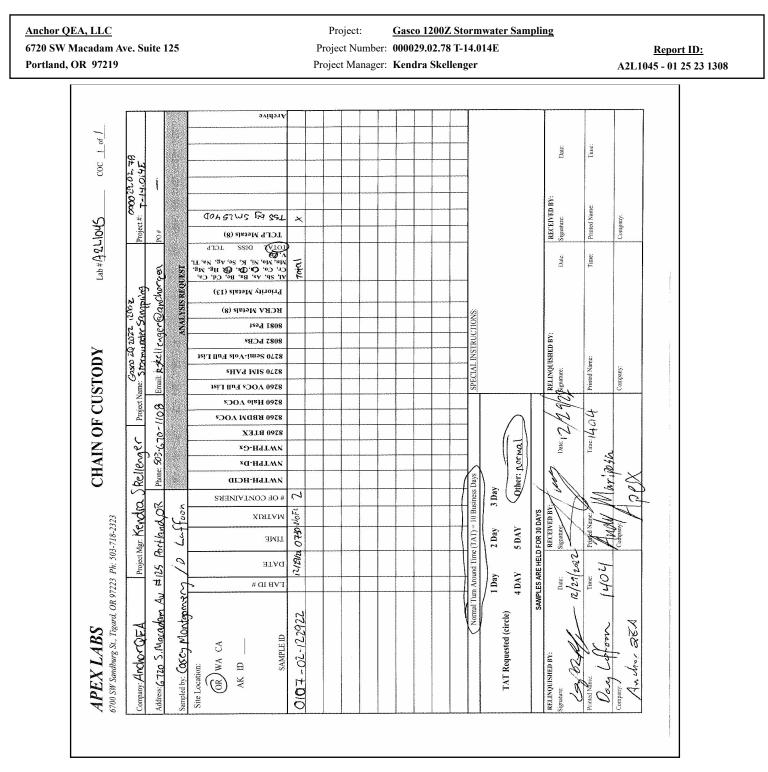
Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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6720 SW Macadam Ave. Suite 125	Project Number: 000029.02.78 T-14.014E	<u>Report ID:</u>
Portland, OR 97219	Project Manager: Kendra Skellenger	A2L1045 - 01 25 23 1308
Client: Another QEA Project/Project #: Gaseo 1 Delivery Info: Date/time received: 1/14/12(Delivered by: Apex_Client_ Cooler Inspection Date/time i Chain of Custody included? Ye Signed/dated by client? Ye Signed/dated by Apex? Yes Coole Temperature (°C) 1.8 Received on ice?(YN) Y Temp. blanks?(YN) Y Ice type: (Gel/Real/Other) Rea Cooler out of temp? (YN) Possible Green dots applied to out of temper	APEX LABS COOLER RECEIPT FORM Element WO#: $A2 \lfloor l0!$ Q 2022 12002 Stormwater Sampling @_:404 By: $A J M$	$\frac{45}{2000 19.02.78}$ T-14.014E
Out of temperature samples form in Sample Inspection: Date/time in	nitiated? Yes/No) Ispected: 12/29/22_@16:27By: <u>AAU</u>	
	Comments:	
Bottle labels/COCs agree? Yes <u>X</u>	No Comments:	
COC/container discrepancies form		
Containers/volumes received approp	priate for analysis? Yes 🗶 No Comments:	
Do VOA vials have visible headspa Comments	ce? Yes No NA 上	
Water samples: pH checked: Yes X Comments:	NoNA pH appropriate? Yes <u>↓</u> NoNA	
Additional information:		
Labeled by: AMW	Witness: Cooler Inspected by: A	₩ Form Y-003 R-00 -

Apex Laboratories