

Laboratory Analysis Report

Client: Herrera Environmental Consultants
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Bellingham, WA 98225

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Invoice Number: 24-09453

PO Number: —
Project Name: Geneva HPBSM
Received Date: 6/3/2024

Approved By: 
Kent Oostra, CEO
Approved Date: 7/2/2024

Lab #: 32665		Sample: AS-IN- 202406031133					Collected Date: 6/3/2024 11:33		
Analyte	EPA #	Results	Result Units	PQL	MDL	Limit Units	Method	Analyst	Date Analyzed
Inorganic Chemistry									
Copper	23	3.88	ug/L	2.00	0.300	ug/L	EPA_200.8-Cu	PR	6/6/2024
Zinc	24	21.4	ug/L	6.00	2.92	ug/L	EPA_200.8-Zn	OS	6/19/2024
Dissolved Metals									
Copper, Dissolved	-	2.36	ug/L	2.00	0.300	ug/L	200.8_Cu-dis	PR	6/6/2024
Zinc, dissolved	-	5.98	ug/L	6.00	2.92	ug/L	200.8_Zn-Dis	OS	6/25/2024
State Regulated									
HARDNESS	15	42	mg/L	10	-	mg/L	SM_2340C	EC	6/4/2024
Anions									
Nitrite-N + Nitrate-N	-	0.229 *OT	mg/L	0.100	0.050	mg/L	EPA_300.0-N+N	KOH	6/18/2024
General Chemistry									
Orthophosphate-P		0.0070	mg/L	0.0040	0.0040	mg/L	SM_4500_PE-OPhos	OS	6/5/2024
Phosphorus, Total		0.0900	mg/L	0.0080	0.0080	mg/L	SM_4500_PE-TPhos	OS	6/12/2024
Total Suspended Solids (TSS)	-	27.5	mg/L	2.0	-	mg/L	SM_2540D	EC	6/4/2024
Physical Test									
Particle Size Distribution	-	See ETS Report	mg/L	-	-	None	ASTM D3977	OS	6/13/2024

Lab #: 32666		Sample: AS-OUT- 202406031140					Collected Date: 6/3/2024 11:40		
Analyte	EPA #	Results	Result Units	PQL	MDL	Limit Units	Method	Analyst	Date Analyzed
Inorganic Chemistry									
Copper	23	1.64 *JJ	ug/L	2.00	0.300	ug/L	EPA_200.8-Cu	PR	6/6/2024
Zinc	24	<2.92	ug/L	6.00	2.92	ug/L	EPA_200.8-Zn	OS	6/19/2024

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Lab #: 32666		Sample: AS-OUT- 202406031140					Collected Date: 6/3/2024 11:40		
Analyte	EPA #	Results	Result Units	PQL	MDL	Limit Units	Method	Analyst	Date Analyzed
Dissolved Metals									
Copper, Dissolved	-	1.45 *JJ	ug/L	2.00	0.300	ug/L	200.8_Cu-dis	PR	6/6/2024
Zinc, dissolved	-	<2.92	ug/L	6.00	2.92	ug/L	200.8_Zn-Dis	OS	6/25/2024
State Regulated									
HARDNESS	15	46	mg/L	10	-	mg/L	SM_2340C	EC	6/4/2024
Anions									
Nitrite-N + Nitrate-N	-	0.109 *OT	mg/L	0.100	0.050	mg/L	EPA_300.0-N+N	KOH	6/18/2024
General Chemistry									
Orthophosphate-P		0.0040	mg/L	0.0040	0.0040	mg/L	SM_4500_PE-OPhos	OS	6/25/2024
Phosphorus, Total		0.0120	mg/L	0.0080	0.0080	mg/L	SM_4500_PE-TPhos	OS	6/12/2024
Total Suspended Solids (TSS)	-	<2.5	mg/L	2.5	-	mg/L	SM_2540D	EC	6/4/2024
Physical Test									
Particle Size Distribution	-	See ETS Report	mg/L	-	-	None	ASTM D3977	OS	6/13/2024

Lab #: 32667		Sample: AS-IN-QA 202406031133					Collected Date: 6/3/2024 11:33		
Analyte	EPA #	Results	Result Units	PQL	MDL	Limit Units	Method	Analyst	Date Analyzed
Inorganic Chemistry									
Copper	23	3.87	ug/L	2.00	0.300	ug/L	EPA_200.8-Cu	PR	6/6/2024
Zinc	24	22.0	ug/L	6.00	2.92	ug/L	EPA_200.8-Zn	OS	6/19/2024
Dissolved Metals									
Copper, Dissolved	-	1.86 *JJ	ug/L	2.00	0.300	ug/L	200.8_Cu-dis	PR	6/6/2024
Zinc, dissolved	-	5.91	ug/L	6.00	2.92	ug/L	200.8_Zn-Dis	OS	6/25/2024
State Regulated									
HARDNESS	15	38	mg/L	10	-	mg/L	SM_2340C	EC	6/4/2024
Anions									
Nitrite-N + Nitrate-N	-	0.237 *OT	mg/L	0.100	0.050	mg/L	EPA_300.0-N+N	KOH	6/18/2024

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24-09453

Lab #: 32667		Sample: AS-IN-QA 202406031133					Collected Date: 6/3/2024 11:33		
Analyte	EPA #	Results	Result Units	PQL	MDL	Limit Units	Method	Analyst	Date Analyzed
General Chemistry									
Orthophosphate-P		0.0060	mg/L	0.0040	0.0040	mg/L	SM_4500_PE-OPhos	OS	6/25/2024
Phosphorus, Total		0.0820	mg/L	0.0080	0.0080	mg/L	SM_4500_PE-TPhos	OS	6/12/2024
Total Suspended Solids (TSS)	-	24.0	mg/L	2.0	-	mg/L	SM_2540D	EC	6/4/2024
Physical Test									
Particle Size Distribution	-	See ETS Report	mg/L	-	-	None	ASTM D3977	OS	6/13/2024

Quality Control Data			
Analyte	Recovery (%)	Limit (%)	DD (%)
Copper	106	85 - 115	1.0
Copper, Dissolved	106	85 - 115	1.0
Nitrite-N + Nitrate-N	96	90 - 110	0.1
Total Suspended Solids (TSS)	103	92 - 108	9.0
HARDNESS	100	90 - 110	2.4



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Stormwater Analysis Report

Client: Herrera Environmental Consultants
1329 N State Suite 200
Bellingham, WA 98225

Invoice Number: 24-09453

PO Number:

Project Name: Geneva HPBSM

Contact: Dylan Ahearn

Phone: 360-860-1960

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Date Received: 6/3/2024

Date Reported: 7/3/2024

Approved By:

Kelley Hees

Outsource Quality Control Data			
Analyte	Recovery (%)	Limit (%)	DD (%)
Orthophosphate	107	90 - 110	0.00
Total Phosphorus	109	90 - 110	NA
Zinc, Dissolved	104	80 - 120	NA
Zinc, Total	103	80 - 120	NA