



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

Laboratory Job ID: 320-68618-1

Laboratory Sample Delivery Group: 8049-00

Client Project/Site: INTERSTATE H1 CONGESTION

For:

GeoLabs Inc 94-429 Koaki Street Suite 200 Waipahu, Hawaii 96797

Attn: Steven Asato

Cesar C Cortes

Authorized for release by: 1/21/2021 11:07:09 AM

Cesar Cortes, Project Manager I (916)374-4316

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Laboratory Job ID: 320-68618-1 SDG: 8049-00

Table of Contents	
Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

Definitions/Glossary

Client: GeoLabs Inc Job ID: 320-68618-1

Project/Site: INTERSTATE H1 CONGESTION SDG: 8049-00

Qualifiers

1.00		110
HF	'LC	/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
Н	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

1/21/2021

Case Narrative

Client: GeoLabs Inc

Job ID: 320-68618-1 Project/Site: INTERSTATE H1 CONGESTION SDG: 8049-00

Job ID: 320-68618-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Receipt

The samples were received on 1/7/2021 10:30 AM. The temperature of the cooler at receipt was 13.2° C.

Receipt Exceptions

The samples were received at the laboratory outside the required temperature criteria (0 to 6° C.).

The samples were received/analyzed outside hold time.

Sample ID did not match (container versus Chain of Custody [COC], respectively: B8 RS3 5-6.5FT (320-68618-1) - B-8/RS-3 5'-6.5' versus B8 RS3 5-6.5FT B12 SPT1 2-3.42FT (320-68618-2) - B-8/RS-3 5'-6.5' versus B8 RS3 5-6.5FT Samples were logged in per COC.

Method 300.0

The following were diluted due to the nature of the sample matrix: B8 RS3 5-6.5FT (320-68618-1) and B12 SPT1 2-3.42FT (320-68618-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GeoLabs Inc
Project/Site: INTERSTATE H1 CONGESTION
Job ID: 320-68618-1
SDG: 8049-00

Client Sample ID: B8 RS3 5-6.5FT Lab Sample ID: 320-68618-1

No Detections.

Client Sample ID: B12 SPT1 2-3.42FT Lab Sample ID: 320-68618-2

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Sulfate	38 H H3	25	mg/Kg	5	300.0	Soluble

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Client Sample Results

Client: GeoLabs Inc
Project/Site: INTERSTATE H1 CONGESTION
Job ID: 320-68618-1
SDG: 8049-00

Client Sample ID: B8 RS3 5-6.5FT

Date Collected: 10/28/20 10:00 Date Received: 01/07/21 10:30 Lab Sample ID: 320-68618-1

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	H H3	25	mg/Kg			01/14/21 21:41	5
Sulfate	ND	H H3	25	mg/Kg			01/14/21 21:41	5

Client Sample ID: B12 SPT1 2-3.42FT Lab Sample ID: 320-68618-2

Date Collected: 10/27/20 10:00 Date Received: 01/07/21 10:30 Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Method: 300.0 - Amons, ion Chi	romatogra	ipny - Soluk	ne					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	H H3	25	mg/Kg			01/14/21 21:58	5
Sulfate	38	H H3	25	mg/Kg			01/14/21 21:58	5

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Client: GeoLabs Inc

Project/Site: INTERSTATE H1 CONGESTION

Job ID: 320-68618-1 SDG: 8049-00

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-451344/1-A

Matrix: Solid

Analysis Batch: 451873

Client Sampl	le ID	: M	etho	d Bl	lank
	Pre	T	ype:	Sol	uble

MB MB Unit Analyte **Result Qualifier** RL Prepared Analyzed Dil Fac 01/14/21 16:25 Chloride 5.0 ND mg/Kg Sulfate ND 5.0 mg/Kg 01/14/21 16:25

LCS LCS

35.8

33.6

Result Qualifier

mg/Kg

Lab Sample ID: LCS 320-451344/2-A

Matrix: Solid

Analyte

Chloride

Sulfate

Analysis Batch: 451873

Client Sample ID:	Lab	C	ontrol	Sample	
	Pre	n	Type:	Soluble	

%Rec. Unit D %Rec Limits mg/Kg 85 - 115 96

90

Lab Sample ID: 320-68623-A-1-B MS

Matrix: Solid

Analysis Batch: 451873

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

85 - 115

Prep Type: Soluble

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	36	F1	25.6	72.7	F1	mg/Kg		142	85 - 115	
Sulfate	36		25.6	63.3		mg/Kg		105	85 - 115	

Spike

Added

37.5

37.5

Lab Sample ID: 320-68623-A-2-B MS

Matrix: Solid

Analysis Batch: 451873

Analysis Daton. 401070	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	42		25.3	67.6		mg/Kg		101	85 - 115		_
Sulfate	44		25.3	68.5		mg/Kg		97	85 - 115		

Lab S

Matri

Analysis Batch: 451873

Sample ID: 320-68623-A-2-C MSD	Client Sample ID: Matrix Spike Duplicate
rix: Solid	Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	42		24.6	67.6		mg/Kg		104	85 - 115	0	15
Sulfate	44		24.6	68.0		mg/Kg		98	85 - 115	1	15

1/21/2021

QC Association Summary

Client: GeoLabs Inc
Project/Site: INTERSTATE H1 CONGESTION
Job ID: 320-68618-1
SDG: 8049-00

HPLC/IC

Leach Batch: 451344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68618-1	B8 RS3 5-6.5FT	Soluble	Solid	DI Leach	
320-68618-2	B12 SPT1 2-3.42FT	Soluble	Solid	DI Leach	
MB 320-451344/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 320-451344/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
320-68623-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
320-68623-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
320-68623-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 451873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68618-1	B8 RS3 5-6.5FT	Soluble	Solid	300.0	451344
320-68618-2	B12 SPT1 2-3.42FT	Soluble	Solid	300.0	451344
MB 320-451344/1-A	Method Blank	Soluble	Solid	300.0	451344
LCS 320-451344/2-A	Lab Control Sample	Soluble	Solid	300.0	451344
320-68623-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	451344
320-68623-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	451344
320-68623-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	451344

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Lab Chronicle

Client: GeoLabs Inc
Project/Site: INTERSTATE H1 CONGESTION
Job ID: 320-68618-1
SDG: 8049-00

Client Sample ID: B8 RS3 5-6.5FT Lab Sample ID: 320-68618-1

Date Collected: 10/28/20 10:00 Matrix: Solid

Date Received: 01/07/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared				
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst Lab			
Soluble	Leach	DI Leach			9.89 g	50 mL	451344	01/13/21 13:57	JCB	TAL SAC		
Soluble	Analysis	300.0		5	10 mL	10 mL	451873	01/14/21 21:41	Y1S	TAL SAC		

Client Sample ID: B12 SPT1 2-3.42FT

Date Collected: 10/27/20 10:00

Lab Sample ID: 320-68618-2

Matrix: Solid

Date Collected: 10/27/20 10:00 Date Received: 01/07/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			10.03 g	50 mL	451344	01/13/21 13:57	JCB	TAL SAC	
Soluble	Analysis	300.0		5	10 mL	10 mL	451873	01/14/21 21:58	Y1S	TAL SAC	

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Accreditation/Certification Summary

Client: GeoLabs Inc

Project/Site: INTERSTATE H1 CONGESTION

Job ID: 320-68618-1

SDG: 8049-00

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Hawaii		Program	Identification Number	Expiration Date
		State	<cert no.=""></cert>	01-29-21
the agency does not		•	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
300.0			0	

Method Summary

Client: GeoLabs Inc

Job ID: 320-68618-1 Project/Site: INTERSTATE H1 CONGESTION SDG: 8049-00

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL SAC
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL SAC

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: GeoLabs Inc

Project/Site: INTERSTATE H1 CONGESTION

Job ID: 320-68618-1

SDG: 8049-00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-68618-1	B8 RS3 5-6.5FT	Solid	10/28/20 10:00	01/07/21 10:30	
320-68618-2	B12 SPT1 2-3.42FT	Solid	10/27/20 10:00	01/07/21 10:30	

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Direct Line(916) 374-4344, Ph: (916) 373-5600

880 Riverside Parkway

West Sacamento, CA 95605

Chain of Custody Record

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Environment Testing TestAmerica

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Client Information	Phone:			E-M		IVI				\neg				Page	
Client Contact Steven Asato	Phone.			she	eri.fama	@tes	tamer	icainc.c	om					Page 1 of 1	_
Company								A	nalysis	Reque	sted				
GeoLabs Inc Address:	Due Date Request	ed:					П							Preservation Codes:	
94-411 KOAKI ST	TAT Requested (d	ouel.			1 10	1								A - HCL M - Hexane B - NaOH N - None	
City: WAIPAHU	TAT Requested (d.	ayəj.				ı								C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S	
State, Zip: HI, 96797						ı								E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4	
Phone: 808-841-5064(Tel)	PO# Purchase Order	not require	ed		No)	ı		\ ₁						H - Ascorbic Acid T - TSP Dode I - Ice U - Acetone	acahydrate
Email: Steven a@geolabs.net	8049-00				\$ or (0)		W	77					50	J - DI Water V - MCAA K - EDTA W - pH 4-5	
Project Name:	Project #				(Yes	804	0	*					container	L - EDA Z - other (spe	ecify)
INTERSTATE H1 CONGESTION	SSOW#:				mple (Ye	ű	1 11	(1)					200	Other:	
Site:					1 Sampl	28D	OR	7					er of		
Samples outSIDE TIME FRAME			Sample Type	Matrix (W=water, S=solid, O=wast=/oil, BT=Tissue, A=Air	Fleid Filtered Sample (Yes or	300_ORGFM_28D - CI, SO4	#	3					Total Number		
FRAME		Sample	(C=comp,	S=solid, O=waste/oil,	ple propri	9	0	VI					otal	Special Instructions/I	Note:
Sample Identification:	Sample Date	Time	G=grab)	ation Code:	A 40			200	100 00		HEST A		X	Special mod detrons.	
			THE RESERVE OF THE PARTY OF THE	S S	m	114	1	1	10000						
B8 RS3 5-6.5FT	10/28/20	10a	С		+	+		-		-	++	+	- 49		
B12 SPT1 2-3.42FT	10/27/20	10a	С	S			~	<u> </u>		\vdash	++	++-	LEE COM		
					\top								100		
320-68618 Chain of Custod	y	Ē													
					4	-	\vdash	_	+-	\vdash	++	++-			
					\coprod										
Possible Hazard Identification														ned longer than 1 month)	
Non-Hazard Flammable Skin Irritant Pois	on B Unkno	own \Box_F	Radiologica	1		LJ _F	Return	To Clie	nt Do Doguis		osal By I	ab	Arch	ive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial	Instru	ictions/	QC Requir	ements.					
Empty Kit Relinquished by:		Date:			Time				1		Method	of Shipment:			
Belint Dished by:	Date/Time:	100	n	Company	وط		eived b	7	11/1			Date/Time		Company Company	Seig
Relinquished by. Date/Time: Company															
Relinquished by:	Date/Time: Company		Company		Received by				Date/Time: Company						
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			No.		4		ler Tem		s) °C and O	her Rema	rks.	13.2		Ver: 01/16/	2019

Client: GeoLabs Inc

Job Number: 320-68618-1

SDG Number: 8049-00

Login Number: 68618 List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Thompson, Sarah W

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	