

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91268-2

Client Project/Site: Foothill Expressway Operational Improvem

For:

County of Santa Clara
2310 N. First Street
San Jose, California 95131-1040

Attn: Chris Ellsbury



Authorized for release by:
3/1/2019 3:08:28 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

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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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Definitions/Glossary

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Job ID: 720-91268-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91268-2

Comments

No additional comments.

Receipt

The sample was received on 2/8/2019 12:25 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

Metals

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

General Chemistry

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

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Detection Summary

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Client Sample ID: FEME020719

Lab Sample ID: 720-91268-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.27		0.10		mg/L	1		6010B	STLC Citrate

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This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: County of Santa Clara
 Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Client Sample ID: FEME020719

Lab Sample ID: 720-91268-1

Date Collected: 02/07/19 13:00

Matrix: Solid

Date Received: 02/08/19 12:25

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		02/27/19 09:08	02/27/19 19:34	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.27		0.10		mg/L		03/01/19 08:21	03/01/19 11:37	1

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QC Sample Results

Client: County of Santa Clara
 Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-261047/1-A
Matrix: Solid
Analysis Batch: 261115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		02/27/19 09:08	02/27/19 18:06	1

Lab Sample ID: LCS 720-261047/2-A
Matrix: Solid
Analysis Batch: 261115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.988		mg/L		99	80 - 120

Lab Sample ID: MB 720-261184/1-A
Matrix: Solid
Analysis Batch: 261208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 261184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		03/01/19 08:21	03/01/19 10:58	1

Lab Sample ID: LCS 720-261184/2-A
Matrix: Solid
Analysis Batch: 261208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 261184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.919		mg/L		92	80 - 120

Lab Sample ID: LB 720-260878/1-B
Matrix: Solid
Analysis Batch: 261115

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 261047

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		02/27/19 09:08	02/27/19 18:15	1

Lab Sample ID: LB4 720-260978/1-B
Matrix: Solid
Analysis Batch: 261208

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 261184

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		03/01/19 08:21	03/01/19 11:07	1

QC Association Summary

Client: County of Santa Clara
 Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Metals

Leach Batch: 260878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	TCLP	Solid	1311	
LB 720-260878/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 260978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	STLC Citrate	Solid	CA WET Citrate	
LB4 720-260978/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 261047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	TCLP	Solid	3010A	260878
LB 720-260878/1-B	Method Blank	TCLP	Solid	3010A	260878
MB 720-261047/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 720-261047/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 261115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	TCLP	Solid	6010B	261047
LB 720-260878/1-B	Method Blank	TCLP	Solid	6010B	261047
MB 720-261047/1-A	Method Blank	Total/NA	Solid	6010B	261047
LCS 720-261047/2-A	Lab Control Sample	Total/NA	Solid	6010B	261047

Prep Batch: 261184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	STLC Citrate	Solid	3005A	260978
LB4 720-260978/1-B	Method Blank	STLC Citrate	Solid	3005A	260978
MB 720-261184/1-A	Method Blank	Total Recoverable	Solid	3005A	
LCS 720-261184/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	

Analysis Batch: 261208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91268-1	FEME020719	STLC Citrate	Solid	6010B	261184
LB4 720-260978/1-B	Method Blank	STLC Citrate	Solid	6010B	261184
MB 720-261184/1-A	Method Blank	Total Recoverable	Solid	6010B	261184
LCS 720-261184/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	261184

Lab Chronicle

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Client Sample ID: FEME020719

Lab Sample ID: 720-91268-1

Date Collected: 02/07/19 13:00

Matrix: Solid

Date Received: 02/08/19 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			260978	02/26/19 12:25	SUN	TAL PLS
STLC Citrate	Prep	3005A			261184	03/01/19 08:21	MAA	TAL PLS
STLC Citrate	Analysis	6010B		1	261208	03/01/19 11:37	OBI	TAL PLS
TCLP	Leach	1311			260878	02/26/19 16:08	GLL	TAL PLS
TCLP	Prep	3010A			261047	02/27/19 09:08	MAA	TAL PLS
TCLP	Analysis	6010B		1	261115	02/27/19 19:34	MAG	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Accreditation/Certification Summary

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
1311	TCLP Extraction	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3010A	Preparation, Total Metals	SW846	TAL PLS
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL PLS

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: County of Santa Clara
Project/Site: Foothill Expressway Operational Improvem

TestAmerica Job ID: 720-91268-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91268-1	FEME020719	Solid	02/07/19 13:00	02/08/19 12:25

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San Francisco
1220 Quarry Lane

Pleasanton, CA 94566
phone 925 484 1919 fax 925 600 3002

Client Contact
Santa Clara County Roads and Airports Department
1505 Schallenberger Road
San Jose, CA 95131
(408) 690-9190
(408) 297-0530

Project Name: Foothill Expressway Operational Improvements
Site: Foothill Expressway at San Antonio Road & El Monte Ave
P O # CW2227585 (Service Agreement #)

Project Manager: Ellsbury
Tel/Fax:

Analysis Turnaround Time
Calendar (C) or Work Days (W) 5 work days
TAT if different from below
 2 weeks
 1 week
 2 days
 1 day

Site Contact:
Lab Contact:

Filtered Sample
CAM 17 TTLC
VOCs
SVOCS
Pesticides
PCBs
TPH - m/diesel (with Sg cleanup)
TPH - Gasoline
pH
Ignitibility

Date: February 7, 2019
Carrier:

Job No.
SDG No.

COC No

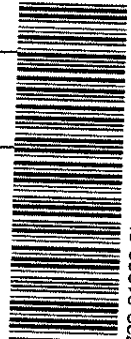
of
COCs

TestAmerica Laboratories, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-91268
Chain of Custody Record

198387

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes
FEME020719	2/7/2019	1:00 PM	Soil		2	If Lead or Chromium TTLC exceeds 50 mg/kg then run STL-C If Pb or Cr TTLC exceeds 100 mg/kg then run then run TCLP
 720-91268 Chain of Custody						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
Special Instructions/QC Requirements & Comments: Samples taken at depth of 12-13 inches
Medic - east of San Antonio Road. eastern (Monte)

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
<i>C. J. X</i>	RJA	2/8/19 11:20	<i>[Signature]</i>	TAAS	2/8/19 1400
<i>[Signature]</i>	TAAS	2/8/19 1435	<i>[Signature]</i>	JA-PLS	2/8/19 1225

1.50

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Login Sample Receipt Checklist

Client: County of Santa Clara

Job Number: 720-91268-2

Login Number: 91268

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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.	True	
Cooler Temperature is acceptable.	True	
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
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	

