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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-3052-1
Client Project/Site: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Rhonda Ridenhower

Authorized for release by:
7/31/2013 5:20:19 PM

Rhonda Ridenhower, Customer Service Manager
rhonda.ridenhower@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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Job ID: 160-3052-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-3052-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Per client request to report all analytical runs, analyses included in the package that were not used in the final report were re-analyzed due to QC failures in the analytical sequence

RECEIPT

The samples were received on 07/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples FIELD BLANK @ I-73 (160-3052-1), I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8), DUPLICATE 08 (160-3052-9) and TRIP BLANK (160-3052-10) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 07/23/2013 and 07/24/2013.

Analytical batch 62292

The continuing calibration verification (CCV) for Chloroethane associated with batch 62292 recovered above the upper control limit. The

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Laboratory: TestAmerica St. Louis (Continued)

samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 62292 were outside control limits for Chloroethane. The associated laboratory control sample (LCS) recovery met acceptance criteria.
No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)- Dissolved and Total
Samples I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8) and DUPLICATE 08 (160-3052-9) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/25/2013 and analyzed on 07/26/2013 and 07/29/2013..

Analytical batch 63280
The following samples were diluted to bring the concentration of target analytes (calcium, magnesium, sodium, and iron) within the calibration range. Magnesium also interferes with iron and iron interferes with arsenic, chromium, selenium, and zinc: (160-3052-2 SD), DUPLICATE 08 (160-3052-9), I-73 (160-3052-2), I-73 (160-3052-2 MS), I-73 (160-3052-2 MSD), PZ-102R-SS (160-3052-4), PZ-102-SS (160-3052-6), PZ-103-SS (160-3052-3), PZ-106-KS (160-3052-8), PZ-107-SS (160-3052-7), PZ-200-SS (160-3052-5). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 62880 were outside control limits for silver, manganese, zinc, and barium. The RPD was within method limits indicating a possible matrix interference. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of iron, magnesium, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for prep batch 62880 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Analytical batch 63435
The following samples were diluted to bring the concentration of target analytes (calcium) within the calibration range: (160-3052-2 SD), I-73 (160-3052-2), I-73 (160-3052-2 MS), I-73 (160-3052-2 MSD). Elevated reporting limits (RLs) are provided.

Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for prep batch 62880 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Analytical batch 63744
The following samples were diluted to bring the concentration of target analytes within the calibration range: (160-3052-2 SD), DUPLICATE 08 (160-3052-9), I-73 (160-3052-2), I-73 (160-3052-2 MS), I-73 (160-3052-2 MSD), PZ-102R-SS (160-3052-4), PZ-102-SS (160-3052-6), PZ-103-SS (160-3052-3), PZ-106-KS (160-3052-8), PZ-107-SS (160-3052-7), PZ-200-SS (160-3052-5). Elevated reporting limits (RLs) are provided.

The initial calibration verification (ICV) for prep batch 62879 was above the upper control limit for thallium indicating a potential high bias. The affected samples are ND for Thallium and the data have been qualified and reported.

Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for prep batch 62879 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Due to the high concentration of magnesium, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for prep batch 62879 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Analytical batch 63435 and 63744: The sample results for iron and magnesium. and were observed outside the dissolved verses total criteria. All other elements were within QC limits, indicating that this is an anomaly due to matrix interference.

Metals Observations
Method(s) 3010A: prep 62879
Samples were prepped at a dilution due to their matrix. Samples were light brown in color and had a strong odor.

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Job ID: 160-3052-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Method(s) 3010A: prep 62880
Samples were prepped at a dilution due to their matrix. Samples were light brown in color and had a strong odor.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)
Samples I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8) and DUPLICATE 08 (160-3052-9) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 07/24/2013.

Due to matrix interference, the matrix spike / matrix spike duplicate (MS/MSD) recoveries were below control limits. The RPD and associated laboratory control sample (LCS) recovery met acceptance criteria.
.
No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8) and DUPLICATE 08 (160-3052-9) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 07/24/2013.

Due to matrix interference, the matrix spike / matrix spike duplicate (MS/MSD) recoveries were below control limits. The RPD and associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

ANIONS
Samples I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8) and DUPLICATE 08 (160-3052-9) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 07/20/2013 and 07/24/2013.

The following samples were diluted to bring the concentrations of Chloride, Sulfate, and Bromide within the calibration range in IC batch 62889: DUPLICATE 08 (160-3052-9), I-73 (160-3052-2), PZ-102R-SS (160-3052-4), PZ-102-SS (160-3052-6), PZ-103-SS (160-3052-3), PZ-106-KS (160-3052-8), PZ-107-SS (160-3052-7), PZ-200-SS (160-3052-5). Elevated reporting limits (RLs) are provided.

The following sample was analyzed at dilution to start (2x), based on sample appearance and high conductivity. I-73 (160-3052-2) Nitrate is reported ND at dilution for this sample, as an undiluted analysis was inadvisable. An elevated Reporting Limit (RL) is provided.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ALKALINITY
Samples I-73 (160-3052-2), PZ-103-SS (160-3052-3), PZ-102R-SS (160-3052-4), PZ-200-SS (160-3052-5), PZ-102-SS (160-3052-6), PZ-107-SS (160-3052-7), PZ-106-KS (160-3052-8) and DUPLICATE 08 (160-3052-9) were analyzed for alkalinity in accordance with EPA Method 310.1. The samples were analyzed on 07/30/2013.

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (160-3052-2 DU), I-73 (160-3052-2 MS). Elevated reporting limits (RLs) are provided..

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Laboratory: TestAmerica St. Louis (Continued)

No other difficulties were encountered during the alkalinity analysis.

All other quality control parameters were within the acceptance limits.

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TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica

Client Information	Sampler: Herst & Associates, Inc.	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-499-253.1
Client Contact: Mr. Paul Rosasco	Phone: 636-939-9111	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 1 of 10
Company: Engineering Management Support, Inc.				Job #:
Address: 7220 W. Jefferson AVE Suite 406	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80235				
Phone:	PO #: Purchase Order not required			
Email: paulrosasco@emsidenver.com	WO #			
Project Name: West Lake Landfill- July	Project #: 16002280			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wastewater, Sediment, Solid, Oil/waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	310.1 - Alkalinity - 310.0	300 - Anions-	6010C, 7470A	8260C - VOA	8260C - Standard List	Dissolved - 6010C, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	D	A	A	D	X	
Field Blank @ I-73	7/19/13	0850	G	Water	X					X			3	* VOAs effervesced; sent unpreserved
I-73 *		0855	G	Water	X	X	X	X	X	X	X	X	10	
PZ-103-SS *		0945	G	Water	X		X	X	X	X	X	X	7	
PZ-102R-SS		1015	G	Water	X		X	X	X	X	X	X	7	
PZ-200-SS		1019	G	Water	X		X	X	X	X	X	X	7	
PZ-102-SS		1030	G	Water	X		X	X	X	X	X	X	7	
PZ-107-SS *		1210	G	Water	X		X	X	X	X	X	X	7	
PZ-106-SS		1309	G	Water	X		X	X	X	X	X	X	7	
Duplicate 08 *		—	G	Water	X		X	X	X	X	X	X	7	
Trip Blank	7/19/13	—	G	Water						X			3	
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Matt Stumpf	Date/Time: 7/19/13 1410	Company	Received by: David Hess	Date/Time: 7/19/13	Company 1410	
Relinquished by: David Hess	Date/Time: 7/19/13 1420	Company	Received by: Debra Hoadley	Date/Time: 7.19.13/1420	Company TA Hoadley	
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-3052-1

Login Number: 3052

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
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.	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.	True	
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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

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Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
310.1	Alkalinity	MCAWW	TAL SL

Protocol References:

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

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-3052-1	FIELD BLANK @ I-73	Water	07/19/13 08:50	07/19/13 14:10
160-3052-2	I-73	Water	07/19/13 08:55	07/19/13 14:10
160-3052-3	PZ-103-SS	Water	07/19/13 09:45	07/19/13 14:10
160-3052-4	PZ-102R-SS	Water	07/19/13 10:15	07/19/13 14:10
160-3052-5	PZ-200-SS	Water	07/19/13 10:19	07/19/13 14:10
160-3052-6	PZ-102-SS	Water	07/19/13 10:30	07/19/13 14:10
160-3052-7	PZ-107-SS	Water	07/19/13 12:10	07/19/13 14:10
160-3052-8	PZ-106-KS	Water	07/19/13 13:09	07/19/13 14:10
160-3052-9	DUPLICATE 08	Water	07/19/13 00:00	07/19/13 14:10
160-3052-10	TRIP BLANK	Water	07/19/13 00:00	07/19/13 14:10

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Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: FIELD BLANK @ I-73 — Lab Sample ID: 160-3052-1

No Detections.

Client Sample ID: I-73 — Lab Sample ID: 160-3052-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	90		20	6.7	ug/L	1		8260C	Total/NA
Benzene	57		5.0	0.25	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	82		20	0.39	ug/L	1		8260C	Total/NA
Chlorobenzene	42		5.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.5	J	5.0	0.16	ug/L	1		8260C	Total/NA
Ethylbenzene	2.8	J	5.0	0.30	ug/L	1		8260C	Total/NA
Isopropylbenzene	1.4	J	5.0	0.26	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	32		20	0.33	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.4	J	5.0	0.40	ug/L	1		8260C	Total/NA
Toluene	10		5.0	1.0	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.1	J	5.0	0.57	ug/L	1		8260C	Total/NA
o-Xylene	1.7	J	5.0	0.32	ug/L	1		8260C	Total/NA
Xylenes, Total	4.8	J	10	0.85	ug/L	1		8260C	Total/NA
Aluminum	9600		400	160	ug/L	1		6010C	Total/NA
Aluminum	9800		4000	1600	ug/L	10		6010C	Total/NA
Antimony	14	J	20	7.9	ug/L	1		6010C	Total/NA
Arsenic	130		20	3.9	ug/L	1		6010C	Total/NA
Arsenic	110	J	200	39	ug/L	10		6010C	Total/NA
Barium	3100		100	7.9	ug/L	1		6010C	Total/NA
Barium	3100		1000	79	ug/L	10		6010C	Total/NA
Calcium	730000	E	2000	210	ug/L	1		6010C	Total/NA
Calcium	1000000	E	20000	2100	ug/L	10		6010C	Total/NA
Calcium	1200000		100000	11000	ug/L	50		6010C	Total/NA
Chromium	12	J	20	6.3	ug/L	1		6010C	Total/NA
Chromium	100	J	200	63	ug/L	10		6010C	Total/NA
Cobalt	87	J	100	7.9	ug/L	1		6010C	Total/NA
Cobalt	190	J	1000	79	ug/L	10		6010C	Total/NA
Copper	32	J	50	9.1	ug/L	1		6010C	Total/NA
Iron	150000		200	56	ug/L	1		6010C	Total/NA
Iron	150000		2000	560	ug/L	10		6010C	Total/NA
Lead	58		20	3.0	ug/L	1		6010C	Total/NA
Lead	88	J	200	30	ug/L	10		6010C	Total/NA
Magnesium	260000	E	2000	260	ug/L	1		6010C	Total/NA
Magnesium	270000		20000	2600	ug/L	10		6010C	Total/NA
Manganese	3700		30	6.6	ug/L	1		6010C	Total/NA
Manganese	3800		300	66	ug/L	10		6010C	Total/NA
Nickel	360		80	27	ug/L	1		6010C	Total/NA
Nickel	420	J	800	270	ug/L	10		6010C	Total/NA
Potassium	22000		10000	3300	ug/L	1		6010C	Total/NA
Selenium	15	J	30	5.3	ug/L	1		6010C	Total/NA
Sodium	690000	E	2000	650	ug/L	1		6010C	Total/NA
Sodium	690000		20000	6500	ug/L	10		6010C	Total/NA
Vanadium	25	J	100	8.1	ug/L	1		6010C	Total/NA
Zinc	4700		40	10	ug/L	1		6010C	Total/NA
Zinc	5100		400	100	ug/L	10		6010C	Total/NA
Antimony	13	J	20	7.9	ug/L	1		6010C	Dissolved
Arsenic	130		20	3.9	ug/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample ID: I-73 (Continued)

Lab Sample ID: 160-3052-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	130	J	200	39	ug/L	10		6010C	Dissolved
Barium	3100		100	7.9	ug/L	1		6010C	Dissolved
Barium	3200		1000	79	ug/L	10		6010C	Dissolved
Calcium	720000	E	2000	210	ug/L	1		6010C	Dissolved
Calcium	1000000		20000	2100	ug/L	10		6010C	Dissolved
Calcium	1100000		100000	11000	ug/L	50		6010C	Dissolved
Cobalt	82	J	100	7.9	ug/L	1		6010C	Dissolved
Cobalt	190	J	1000	79	ug/L	10		6010C	Dissolved
Iron	140000		200	56	ug/L	1		6010C	Dissolved
Iron	140000		2000	560	ug/L	10		6010C	Dissolved
Lead	10	J	20	3.0	ug/L	1		6010C	Dissolved
Lead	38	J	200	30	ug/L	10		6010C	Dissolved
Magnesium	270000	E	2000	260	ug/L	1		6010C	Dissolved
Magnesium	280000		20000	2600	ug/L	10		6010C	Dissolved
Manganese	3600	B	30	6.6	ug/L	1		6010C	Dissolved
Manganese	3800	B	300	66	ug/L	10		6010C	Dissolved
Nickel	340		80	27	ug/L	1		6010C	Dissolved
Nickel	390	J	800	270	ug/L	10		6010C	Dissolved
Potassium	20000		10000	3300	ug/L	1		6010C	Dissolved
Selenium	11	J	30	5.3	ug/L	1		6010C	Dissolved
Sodium	700000	E	2000	650	ug/L	1		6010C	Dissolved
Sodium	700000		20000	6500	ug/L	10		6010C	Dissolved
Vanadium	12	J	100	8.1	ug/L	1		6010C	Dissolved
Zinc	1100	B	40	10	ug/L	1		6010C	Dissolved
Zinc	1200	B	400	100	ug/L	10		6010C	Dissolved
Iodide	11		1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity	2500	B	25	2.7	mg/L	5		310.1	Total/NA
Nitrate as N - DL	0.010	J	0.040	0.0080	mg/L	2		300.0	Total/NA
Sulfate - DL	1.1		1.0	0.10	mg/L	2		300.0	Total/NA
Bromide - DL2	11		5.0	0.50	mg/L	20		300.0	Total/NA
Chloride - DL4	1700		400	40	mg/L	2000		300.0	Total/NA

Client Sample ID: PZ-103-SS

Lab Sample ID: 160-3052-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		5.0	0.25	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	9.8		5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	7.9		5.0	0.30	ug/L	1		8260C	Total/NA
Isopropylbenzene	1.3	J	5.0	0.26	ug/L	1		8260C	Total/NA
Styrene	0.98	J	5.0	0.35	ug/L	1		8260C	Total/NA
Toluene	17		5.0	1.0	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	16		5.0	0.57	ug/L	1		8260C	Total/NA
o-Xylene	8.8		5.0	0.32	ug/L	1		8260C	Total/NA
Xylenes, Total	25		10	0.85	ug/L	1		8260C	Total/NA
Aluminum	21000		200	80	ug/L	1		6010C	Total/NA
Antimony	5.7	J	10	4.0	ug/L	1		6010C	Total/NA
Arsenic	12		10	2.0	ug/L	1		6010C	Total/NA
Barium	610		50	4.0	ug/L	1		6010C	Total/NA
Beryllium	1.3	J	5.0	0.61	ug/L	1		6010C	Total/NA
Cadmium	3.3	J	5.0	0.91	ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: PZ-103-SS (Continued)

Lab Sample ID: 160-3052-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	170000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	210000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	40		10	3.1	ug/L	1		6010C	Total/NA
Cobalt	15	J	50	4.0	ug/L	1		6010C	Total/NA
Copper	21	J	25	4.6	ug/L	1		6010C	Total/NA
Iron	40000		100	28	ug/L	1		6010C	Total/NA
Iron	39000		1000	280	ug/L	10		6010C	Total/NA
Lead	23		10	1.5	ug/L	1		6010C	Total/NA
Magnesium	58000	E	1000	130	ug/L	1		6010C	Total/NA
Magnesium	57000		10000	1300	ug/L	10		6010C	Total/NA
Manganese	470		15	3.3	ug/L	1		6010C	Total/NA
Nickel	81		40	13	ug/L	1		6010C	Total/NA
Potassium	8300		5000	1700	ug/L	1		6010C	Total/NA
Silver	6.2	J	10	6.0	ug/L	1		6010C	Total/NA
Sodium	77000		1000	320	ug/L	1		6010C	Total/NA
Vanadium	72		50	4.1	ug/L	1		6010C	Total/NA
Zinc	340		20	5.2	ug/L	1		6010C	Total/NA
Arsenic	2.1	J	10	2.0	ug/L	1		6010C	Dissolved
Barium	400		50	4.0	ug/L	1		6010C	Dissolved
Calcium	95000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	110000		10000	1100	ug/L	10		6010C	Dissolved
Iron	11000		100	28	ug/L	1		6010C	Dissolved
Iron	11000		1000	280	ug/L	10		6010C	Dissolved
Lead	2.7	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	56000	E	1000	130	ug/L	1		6010C	Dissolved
Magnesium	58000		10000	1300	ug/L	10		6010C	Dissolved
Manganese	270	B	15	3.3	ug/L	1		6010C	Dissolved
Potassium	4500	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	91000		1000	320	ug/L	1		6010C	Dissolved
Mercury	0.067	J	0.20	0.060	ug/L	1		7470A	Total/NA
Bromide	0.037	J	0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	16		0.50	0.050	mg/L	1		300.0	Total/NA
Alkalinity	690	B	5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	7.7		4.0	0.40	mg/L	20		300.0	Total/NA

Client Sample ID: PZ-102R-SS

Lab Sample ID: 160-3052-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2400		200	80	ug/L	1		6010C	Total/NA
Barium	76		50	4.0	ug/L	1		6010C	Total/NA
Calcium	110000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	130000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	4.1	J	10	3.1	ug/L	1		6010C	Total/NA
Cobalt	4.0	J	50	4.0	ug/L	1		6010C	Total/NA
Iron	1800		100	28	ug/L	1		6010C	Total/NA
Lead	3.7	J	10	1.5	ug/L	1		6010C	Total/NA
Magnesium	41000		1000	130	ug/L	1		6010C	Total/NA
Manganese	39		15	3.3	ug/L	1		6010C	Total/NA
Potassium	3600	J	5000	1700	ug/L	1		6010C	Total/NA
Sodium	26000		1000	320	ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

US EPA ARCHIVE DOCUMENT

Client Sample ID: PZ-102R-SS (Continued)

Lab Sample ID: 160-3052-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	29		20	5.2	ug/L	1		6010C	Total/NA
Barium	73		50	4.0	ug/L	1		6010C	Dissolved
Calcium	110000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	120000		10000	1100	ug/L	10		6010C	Dissolved
Magnesium	42000		1000	130	ug/L	1		6010C	Dissolved
Manganese	23	B	15	3.3	ug/L	1		6010C	Dissolved
Potassium	3500	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	26000		1000	320	ug/L	1		6010C	Dissolved
Zinc	14	J B	20	5.2	ug/L	1		6010C	Dissolved
Nitrate as N	0.10		0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	0.031	J	0.25	0.025	mg/L	1		300.0	Total/NA
Alkalinity	450	B	5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	7.3		4.0	0.40	mg/L	20		300.0	Total/NA
Sulfate - DL	65		10	1.0	mg/L	20		300.0	Total/NA

Client Sample ID: PZ-200-SS

Lab Sample ID: 160-3052-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	830		200	80	ug/L	1		6010C	Total/NA
Antimony	5.2	J	10	4.0	ug/L	1		6010C	Total/NA
Arsenic	27		10	2.0	ug/L	1		6010C	Total/NA
Barium	880		50	4.0	ug/L	1		6010C	Total/NA
Calcium	180000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	230000		10000	1100	ug/L	10		6010C	Total/NA
Cobalt	29	J	50	4.0	ug/L	1		6010C	Total/NA
Copper	13	J	25	4.6	ug/L	1		6010C	Total/NA
Iron	31000		100	28	ug/L	1		6010C	Total/NA
Iron	32000		1000	280	ug/L	10		6010C	Total/NA
Lead	6.0	J	10	1.5	ug/L	1		6010C	Total/NA
Magnesium	99000	E	1000	130	ug/L	1		6010C	Total/NA
Magnesium	100000		10000	1300	ug/L	10		6010C	Total/NA
Manganese	7300		15	3.3	ug/L	1		6010C	Total/NA
Nickel	140		40	13	ug/L	1		6010C	Total/NA
Potassium	2100	J	5000	1700	ug/L	1		6010C	Total/NA
Selenium	7.1	J	15	2.7	ug/L	1		6010C	Total/NA
Sodium	18000		1000	320	ug/L	1		6010C	Total/NA
Thallium	7.3	J	20	4.0	ug/L	1		6010C	Total/NA
Vanadium	9.5	J	50	4.1	ug/L	1		6010C	Total/NA
Zinc	24		20	5.2	ug/L	1		6010C	Total/NA
Antimony	4.9	J	10	4.0	ug/L	1		6010C	Dissolved
Arsenic	3.8	J	10	2.0	ug/L	1		6010C	Dissolved
Barium	850		50	4.0	ug/L	1		6010C	Dissolved
Calcium	180000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	210000		10000	1100	ug/L	10		6010C	Dissolved
Iron	7200		100	28	ug/L	1		6010C	Dissolved
Iron	7300		1000	280	ug/L	10		6010C	Dissolved
Lead	3.9	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	99000	E	1000	130	ug/L	1		6010C	Dissolved
Magnesium	98000		10000	1300	ug/L	10		6010C	Dissolved
Manganese	6800	B	15	3.3	ug/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample ID: PZ-200-SS (Continued)

Lab Sample ID: 160-3052-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1900	J	5000	1700	ug/L	1		6010C	Dissolved
Selenium	5.0	J	15	2.7	ug/L	1		6010C	Dissolved
Sodium	18000		1000	320	ug/L	1		6010C	Dissolved
Thallium	5.9	J ^	20	4.0	ug/L	1		6010C	Dissolved
Bromide	0.16	J	0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	17		0.50	0.050	mg/L	1		300.0	Total/NA
Alkalinity	820	B	5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL2	110		20	2.0	mg/L	100		300.0	Total/NA

Client Sample ID: PZ-102-SS

Lab Sample ID: 160-3052-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	21000		200	80	ug/L	1		6010C	Total/NA
Antimony	5.9	J	10	4.0	ug/L	1		6010C	Total/NA
Arsenic	14		10	2.0	ug/L	1		6010C	Total/NA
Barium	790		50	4.0	ug/L	1		6010C	Total/NA
Beryllium	1.1	J	5.0	0.61	ug/L	1		6010C	Total/NA
Calcium	130000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	170000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	25		10	3.1	ug/L	1		6010C	Total/NA
Cobalt	16	J	50	4.0	ug/L	1		6010C	Total/NA
Copper	17	J	25	4.6	ug/L	1		6010C	Total/NA
Iron	27000		100	28	ug/L	1		6010C	Total/NA
Iron	30000		1000	280	ug/L	10		6010C	Total/NA
Lead	23		10	1.5	ug/L	1		6010C	Total/NA
Magnesium	54000	E	1000	130	ug/L	1		6010C	Total/NA
Magnesium	58000		10000	1300	ug/L	10		6010C	Total/NA
Manganese	1200		15	3.3	ug/L	1		6010C	Total/NA
Nickel	57		40	13	ug/L	1		6010C	Total/NA
Potassium	8100		5000	1700	ug/L	1		6010C	Total/NA
Selenium	3.4	J	15	2.7	ug/L	1		6010C	Total/NA
Sodium	29000		1000	320	ug/L	1		6010C	Total/NA
Vanadium	47	J	50	4.1	ug/L	1		6010C	Total/NA
Zinc	100		20	5.2	ug/L	1		6010C	Total/NA
Antimony	5.5	J	10	4.0	ug/L	1		6010C	Dissolved
Arsenic	4.0	J	10	2.0	ug/L	1		6010C	Dissolved
Barium	360		50	4.0	ug/L	1		6010C	Dissolved
Calcium	100000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	110000		10000	1100	ug/L	10		6010C	Dissolved
Iron	1700		100	28	ug/L	1		6010C	Dissolved
Lead	2.5	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	40000		1000	130	ug/L	1		6010C	Dissolved
Manganese	190	B	15	3.3	ug/L	1		6010C	Dissolved
Potassium	3300	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	27000		1000	320	ug/L	1		6010C	Dissolved
Nitrate as N	0.031		0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	0.032	J	0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	20		0.50	0.050	mg/L	1		300.0	Total/NA
Alkalinity	520	B	5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	4.7		4.0	0.40	mg/L	20		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

US EPA ARCHIVE DOCUMENT

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-107-SS

Lab Sample ID: 160-3052-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.95	J	5.0	0.25	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	14		10	0.45	ug/L	1		8260C	Total/NA
Methylene Chloride	2.5	J	5.0	1.7	ug/L	1		8260C	Total/NA
Aluminum	15000		200	80	ug/L	1		6010C	Total/NA
Antimony	4.9	J	10	4.0	ug/L	1		6010C	Total/NA
Arsenic	6.5	J	10	2.0	ug/L	1		6010C	Total/NA
Barium	720		50	4.0	ug/L	1		6010C	Total/NA
Beryllium	1.0	J	5.0	0.61	ug/L	1		6010C	Total/NA
Calcium	210000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	270000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	15		10	3.1	ug/L	1		6010C	Total/NA
Cobalt	4.1	J	50	4.0	ug/L	1		6010C	Total/NA
Copper	9.3	J	25	4.6	ug/L	1		6010C	Total/NA
Iron	10000		100	28	ug/L	1		6010C	Total/NA
Iron	11000		1000	280	ug/L	10		6010C	Total/NA
Lead	18		10	1.5	ug/L	1		6010C	Total/NA
Magnesium	120000	E	1000	130	ug/L	1		6010C	Total/NA
Magnesium	120000		10000	1300	ug/L	10		6010C	Total/NA
Manganese	240		15	3.3	ug/L	1		6010C	Total/NA
Nickel	52		40	13	ug/L	1		6010C	Total/NA
Potassium	4900	J	5000	1700	ug/L	1		6010C	Total/NA
Selenium	2.7	J	15	2.7	ug/L	1		6010C	Total/NA
Sodium	110000	E	1000	320	ug/L	1		6010C	Total/NA
Sodium	110000		10000	3200	ug/L	10		6010C	Total/NA
Vanadium	18	J	50	4.1	ug/L	1		6010C	Total/NA
Zinc	130		20	5.2	ug/L	1		6010C	Total/NA
Arsenic	3.2	J	10	2.0	ug/L	1		6010C	Dissolved
Barium	620		50	4.0	ug/L	1		6010C	Dissolved
Calcium	190000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	240000		10000	1100	ug/L	10		6010C	Dissolved
Iron	1400		100	28	ug/L	1		6010C	Dissolved
Iron	1500		1000	280	ug/L	10		6010C	Dissolved
Lead	2.8	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	110000	E	1000	130	ug/L	1		6010C	Dissolved
Magnesium	120000		10000	1300	ug/L	10		6010C	Dissolved
Manganese	170	B	15	3.3	ug/L	1		6010C	Dissolved
Nickel	41		40	13	ug/L	1		6010C	Dissolved
Potassium	4100	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	110000	E	1000	320	ug/L	1		6010C	Dissolved
Sodium	120000		10000	3200	ug/L	10		6010C	Dissolved
Vanadium	4.5	J	50	4.1	ug/L	1		6010C	Dissolved
Zinc	11	J B	20	5.2	ug/L	1		6010C	Dissolved
Mercury	0.11	J	0.20	0.060	ug/L	1		7470A	Total/NA
Nitrate as N	0.020		0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	2.1		0.25	0.025	mg/L	1		300.0	Total/NA
Iodide	0.65	J	1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity	840	B	5.0	0.54	mg/L	1		310.1	Total/NA
Sulfate - DL	51		10	1.0	mg/L	20		300.0	Total/NA
Chloride - DL2	300		20	2.0	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

US EPA ARCHIVE DOCUMENT

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-106-KS — Lab Sample ID: 160-3052-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	46	J	50	4.0	ug/L	1		6010C	Total/NA
Calcium	58000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	62000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	5.7	J	10	3.1	ug/L	1		6010C	Total/NA
Iron	250		100	28	ug/L	1		6010C	Total/NA
Magnesium	37000		1000	130	ug/L	1		6010C	Total/NA
Manganese	5.0	J	15	3.3	ug/L	1		6010C	Total/NA
Potassium	2100	J	5000	1700	ug/L	1		6010C	Total/NA
Sodium	64000		1000	320	ug/L	1		6010C	Total/NA
Zinc	7.8	J	20	5.2	ug/L	1		6010C	Total/NA
Barium	44	J	50	4.0	ug/L	1		6010C	Dissolved
Calcium	53000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	56000		10000	1100	ug/L	10		6010C	Dissolved
Cobalt	4.6	J	50	4.0	ug/L	1		6010C	Dissolved
Iron	220		100	28	ug/L	1		6010C	Dissolved
Lead	2.1	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	36000		1000	130	ug/L	1		6010C	Dissolved
Manganese	4.1	J B	15	3.3	ug/L	1		6010C	Dissolved
Potassium	2000	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	61000		1000	320	ug/L	1		6010C	Dissolved
Nitrate as N	0.0092	J	0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	0.056	J	0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	12		0.50	0.050	mg/L	1		300.0	Total/NA
Alkalinity	410	B	5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	14		4.0	0.40	mg/L	20		300.0	Total/NA

Client Sample ID: DUPLICATE 08 — Lab Sample ID: 160-3052-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	15		10	0.45	ug/L	1		8260C	Total/NA
Aluminum	16000		200	80	ug/L	1		6010C	Total/NA
Antimony	4.4	J	10	4.0	ug/L	1		6010C	Total/NA
Arsenic	6.2	J	10	2.0	ug/L	1		6010C	Total/NA
Barium	730		50	4.0	ug/L	1		6010C	Total/NA
Beryllium	1.0	J	5.0	0.61	ug/L	1		6010C	Total/NA
Calcium	210000	E	1000	110	ug/L	1		6010C	Total/NA
Calcium	260000		10000	1100	ug/L	10		6010C	Total/NA
Chromium	13		10	3.1	ug/L	1		6010C	Total/NA
Copper	8.1	J	25	4.6	ug/L	1		6010C	Total/NA
Iron	11000		100	28	ug/L	1		6010C	Total/NA
Iron	11000		1000	280	ug/L	10		6010C	Total/NA
Lead	18		10	1.5	ug/L	1		6010C	Total/NA
Magnesium	120000	E	1000	130	ug/L	1		6010C	Total/NA
Magnesium	120000		10000	1300	ug/L	10		6010C	Total/NA
Manganese	240		15	3.3	ug/L	1		6010C	Total/NA
Nickel	50		40	13	ug/L	1		6010C	Total/NA
Potassium	4900	J	5000	1700	ug/L	1		6010C	Total/NA
Selenium	2.8	J	15	2.7	ug/L	1		6010C	Total/NA
Sodium	110000	E	1000	320	ug/L	1		6010C	Total/NA
Sodium	110000		10000	3200	ug/L	10		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

US EPA ARCHIVE DOCUMENT

Client Sample ID: DUPLICATE 08 (Continued)

Lab Sample ID: 160-3052-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	18	J	50	4.1	ug/L	1		6010C	Total/NA
Zinc	120		20	5.2	ug/L	1		6010C	Total/NA
Antimony	4.1	J	10	4.0	ug/L	1		6010C	Dissolved
Arsenic	2.6	J	10	2.0	ug/L	1		6010C	Dissolved
Barium	640		50	4.0	ug/L	1		6010C	Dissolved
Calcium	190000	E	1000	110	ug/L	1		6010C	Dissolved
Calcium	250000		10000	1100	ug/L	10		6010C	Dissolved
Chromium	3.1	J	10	3.1	ug/L	1		6010C	Dissolved
Iron	1400		100	28	ug/L	1		6010C	Dissolved
Iron	1500		1000	280	ug/L	10		6010C	Dissolved
Lead	2.8	J	10	1.5	ug/L	1		6010C	Dissolved
Magnesium	120000	E	1000	130	ug/L	1		6010C	Dissolved
Magnesium	120000		10000	1300	ug/L	10		6010C	Dissolved
Manganese	170	B	15	3.3	ug/L	1		6010C	Dissolved
Nickel	42		40	13	ug/L	1		6010C	Dissolved
Potassium	4200	J	5000	1700	ug/L	1		6010C	Dissolved
Sodium	120000	E	1000	320	ug/L	1		6010C	Dissolved
Sodium	120000		10000	3200	ug/L	10		6010C	Dissolved
Vanadium	6.1	J	50	4.1	ug/L	1		6010C	Dissolved
Zinc	9.4	J B	20	5.2	ug/L	1		6010C	Dissolved
Mercury	0.078	J	0.20	0.060	ug/L	1		7470A	Total/NA
Nitrate as N	0.012	J	0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	2.1		0.25	0.025	mg/L	1		300.0	Total/NA
Iodide	0.64	J	1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity	830	B	5.0	0.54	mg/L	1		310.1	Total/NA
Sulfate - DL	52		10	1.0	mg/L	20		300.0	Total/NA
Chloride - DL2	300		20	2.0	mg/L	100		300.0	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-3052-10

No Detections.

This Detection Summary does not include radiochemical test results.

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: FIELD BLANK @ I-73
Date Collected: 07/19/13 08:50
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/23/13 19:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/23/13 19:42	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/23/13 19:42	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/23/13 19:42	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/23/13 19:42	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/23/13 19:42	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/23/13 19:42	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/23/13 19:42	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/23/13 19:42	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/23/13 19:42	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/23/13 19:42	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/23/13 19:42	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/23/13 19:42	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/23/13 19:42	1
2-Hexanone	ND		20	0.59	ug/L			07/23/13 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/23/13 19:42	1
Acetone	ND		20	6.7	ug/L			07/23/13 19:42	1
Benzene	ND		5.0	0.25	ug/L			07/23/13 19:42	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/23/13 19:42	1
Bromoform	ND		5.0	0.37	ug/L			07/23/13 19:42	1
Bromomethane	ND		10	0.40	ug/L			07/23/13 19:42	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/23/13 19:42	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/23/13 19:42	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/23/13 19:42	1
Chloroethane	ND		10	0.38	ug/L			07/23/13 19:42	1
Chloroform	ND		5.0	0.15	ug/L			07/23/13 19:42	1
Chloromethane	ND		10	0.55	ug/L			07/23/13 19:42	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/23/13 19:42	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/23/13 19:42	1
Cyclohexane	ND		10	0.36	ug/L			07/23/13 19:42	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/23/13 19:42	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/23/13 19:42	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/23/13 19:42	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/23/13 19:42	1
Methyl acetate	ND		25	2.3	ug/L			07/23/13 19:42	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/23/13 19:42	1
Methylcyclohexane	ND		10	0.26	ug/L			07/23/13 19:42	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/23/13 19:42	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/23/13 19:42	1
o-Xylene	ND		5.0	0.32	ug/L			07/23/13 19:42	1
Styrene	ND		5.0	0.35	ug/L			07/23/13 19:42	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/23/13 19:42	1
Toluene	ND		5.0	1.0	ug/L			07/23/13 19:42	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/23/13 19:42	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/23/13 19:42	1
Trichloroethene	ND		5.0	0.29	ug/L			07/23/13 19:42	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/23/13 19:42	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/23/13 19:42	1
Xylenes, Total	ND		10	0.85	ug/L			07/23/13 19:42	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: FIELD BLANK @ I-73

Lab Sample ID: 160-3052-1

Date Collected: 07/19/13 08:50

Matrix: Water

Date Received: 07/19/13 14:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		82 - 132		07/23/13 19:42	1
4-Bromofluorobenzene (Surr)	90		82 - 121		07/23/13 19:42	1
Dibromofluoromethane (Surr)	101		85 - 119		07/23/13 19:42	1
Toluene-d8 (Surr)	103		85 - 115		07/23/13 19:42	1

Client Sample ID: I-73

Lab Sample ID: 160-3052-2

Date Collected: 07/19/13 08:55

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**90**		20	6.7	ug/L			07/23/13 20:56	1
Benzene	**57**		5.0	0.25	ug/L			07/23/13 20:56	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/23/13 20:56	1
Bromoform	ND		5.0	0.37	ug/L			07/23/13 20:56	1
Bromomethane	ND		10	0.40	ug/L			07/23/13 20:56	1
2-Butanone (MEK)	**82**		20	0.39	ug/L			07/23/13 20:56	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/23/13 20:56	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/23/13 20:56	1
Chlorobenzene	**42**		5.0	0.38	ug/L			07/23/13 20:56	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/23/13 20:56	1
Chloroethane	ND		10	0.38	ug/L			07/23/13 20:56	1
Chloroform	ND		5.0	0.15	ug/L			07/23/13 20:56	1
Chloromethane	ND		10	0.55	ug/L			07/23/13 20:56	1
Cyclohexane	ND		10	0.36	ug/L			07/23/13 20:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/23/13 20:56	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/23/13 20:56	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/23/13 20:56	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/23/13 20:56	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/23/13 20:56	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/23/13 20:56	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/23/13 20:56	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/23/13 20:56	1
cis-1,2-Dichloroethene	**2.5**	**J**	5.0	0.16	ug/L			07/23/13 20:56	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/23/13 20:56	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/23/13 20:56	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/23/13 20:56	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/23/13 20:56	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/23/13 20:56	1
Ethylbenzene	**2.8**	**J**	5.0	0.30	ug/L			07/23/13 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.25	ug/L			07/23/13 20:56	1
2-Hexanone	ND		20	0.59	ug/L			07/23/13 20:56	1
Isopropylbenzene	**1.4**	**J**	5.0	0.26	ug/L			07/23/13 20:56	1
Methyl acetate	ND		25	2.3	ug/L			07/23/13 20:56	1
Methylcyclohexane	ND		10	0.26	ug/L			07/23/13 20:56	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/23/13 20:56	1
4-Methyl-2-pentanone (MIBK)	**32**		20	0.33	ug/L			07/23/13 20:56	1
Methyl tert-butyl ether	**1.4**	**J**	5.0	0.40	ug/L			07/23/13 20:56	1
Styrene	ND		5.0	0.35	ug/L			07/23/13 20:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/23/13 20:56	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: I-73
Date Collected: 07/19/13 08:55
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.28	ug/L			07/23/13 20:56	1
Toluene	**10**		5.0	1.0	ug/L			07/23/13 20:56	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/23/13 20:56	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/23/13 20:56	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/23/13 20:56	1
Trichloroethene	ND		5.0	0.29	ug/L			07/23/13 20:56	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/23/13 20:56	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/23/13 20:56	1
m-Xylene & p-Xylene	**3.1**	**J**	5.0	0.57	ug/L			07/23/13 20:56	1
o-Xylene	**1.7**	**J**	5.0	0.32	ug/L			07/23/13 20:56	1
Xylenes, Total	**4.8**	**J**	10	0.85	ug/L			07/23/13 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*82 - 121*		*07/23/13 20:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*82 - 132*		*07/23/13 20:56*	*1*
Toluene-d8 (Surr)	*103*		*85 - 115*		*07/23/13 20:56*	*1*
Dibromofluoromethane (Surr)	*103*		*85 - 119*		*07/23/13 20:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9600**		400	160	ug/L		07/25/13 11:42	07/26/13 17:51	1
Aluminum	**9800**		4000	1600	ug/L		07/25/13 11:42	07/26/13 19:31	10
Antimony	**14**	**J**	20	7.9	ug/L		07/25/13 11:42	07/26/13 17:51	1
Antimony	ND		200	79	ug/L		07/25/13 11:42	07/26/13 19:31	10
Arsenic	**130**		20	3.9	ug/L		07/25/13 11:42	07/26/13 17:51	1
Arsenic	**110**	**J**	200	39	ug/L		07/25/13 11:42	07/26/13 19:31	10
Barium	**3100**		100	7.9	ug/L		07/25/13 11:42	07/26/13 17:51	1
Barium	**3100**		1000	79	ug/L		07/25/13 11:42	07/26/13 19:31	10
Beryllium	ND		10	1.2	ug/L		07/25/13 11:42	07/26/13 17:51	1
Beryllium	ND		100	12	ug/L		07/25/13 11:42	07/26/13 19:31	10
Cadmium	ND		10	1.8	ug/L		07/25/13 11:42	07/26/13 17:51	1
Cadmium	ND		100	18	ug/L		07/25/13 11:42	07/26/13 19:31	10
Calcium	**730000**	**E**	2000	210	ug/L		07/25/13 11:42	07/26/13 17:51	1
Calcium	**1000000**	**E**	20000	2100	ug/L		07/25/13 11:42	07/26/13 19:31	10
Calcium	**1200000**		100000	11000	ug/L		07/25/13 11:42	07/29/13 12:31	50
Chromium	**12**	**J**	20	6.3	ug/L		07/25/13 11:42	07/26/13 17:51	1
Chromium	**100**	**J**	200	63	ug/L		07/25/13 11:42	07/26/13 19:31	10
Cobalt	**87**	**J**	100	7.9	ug/L		07/25/13 11:42	07/26/13 17:51	1
Cobalt	**190**	**J**	1000	79	ug/L		07/25/13 11:42	07/26/13 19:31	10
Copper	**32**	**J**	50	9.1	ug/L		07/25/13 11:42	07/26/13 17:51	1
Copper	ND		500	91	ug/L		07/25/13 11:42	07/26/13 19:31	10
Iron	**150000**		200	56	ug/L		07/25/13 11:42	07/26/13 17:51	1
Iron	**150000**		2000	560	ug/L		07/25/13 11:42	07/26/13 19:31	10
Lead	**58**		20	3.0	ug/L		07/25/13 11:42	07/26/13 17:51	1
Lead	**88**	**J**	200	30	ug/L		07/25/13 11:42	07/26/13 19:31	10
Magnesium	**260000**	**E**	2000	260	ug/L		07/25/13 11:42	07/26/13 17:51	1
Magnesium	**270000**		20000	2600	ug/L		07/25/13 11:42	07/26/13 19:31	10
Manganese	**3700**		30	6.6	ug/L		07/25/13 11:42	07/26/13 17:51	1
Manganese	**3800**		300	66	ug/L		07/25/13 11:42	07/26/13 19:31	10
Nickel	**360**		80	27	ug/L		07/25/13 11:42	07/26/13 17:51	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: I-73
Date Collected: 07/19/13 08:55
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-2
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**420**	**J**	800	270	ug/L		07/25/13 11:42	07/26/13 19:31	10
Potassium	**22000**		10000	3300	ug/L		07/25/13 11:42	07/26/13 17:51	1
Potassium	ND		100000	33000	ug/L		07/25/13 11:42	07/26/13 19:31	10
Selenium	**15**	**J**	30	5.3	ug/L		07/25/13 11:42	07/26/13 17:51	1
Selenium	ND		300	53	ug/L		07/25/13 11:42	07/26/13 19:31	10
Silver	ND		20	12	ug/L		07/25/13 11:42	07/26/13 17:51	1
Silver	ND		200	120	ug/L		07/25/13 11:42	07/26/13 19:31	10
Sodium	**690000**	**E**	2000	650	ug/L		07/25/13 11:42	07/26/13 17:51	1
Sodium	**690000**		20000	6500	ug/L		07/25/13 11:42	07/26/13 19:31	10
Thallium	ND		40	7.9	ug/L		07/25/13 11:42	07/26/13 17:51	1
Thallium	ND		400	79	ug/L		07/25/13 11:42	07/26/13 19:31	10
Vanadium	**25**	**J**	100	8.1	ug/L		07/25/13 11:42	07/26/13 17:51	1
Vanadium	ND		1000	81	ug/L		07/25/13 11:42	07/26/13 19:31	10
Zinc	**4700**		40	10	ug/L		07/25/13 11:42	07/26/13 17:51	1
Zinc	**5100**		400	100	ug/L		07/25/13 11:42	07/26/13 19:31	10

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		400	160	ug/L		07/25/13 11:37	07/29/13 21:22	1
Aluminum	ND		4000	1600	ug/L		07/25/13 11:37	07/29/13 23:01	10
Antimony	**13**	**J**	20	7.9	ug/L		07/25/13 11:37	07/29/13 21:22	1
Antimony	ND		200	79	ug/L		07/25/13 11:37	07/29/13 23:01	10
Arsenic	**130**		20	3.9	ug/L		07/25/13 11:37	07/29/13 21:22	1
Arsenic	**130**	**J**	200	39	ug/L		07/25/13 11:37	07/29/13 23:01	10
Barium	**3100**		100	7.9	ug/L		07/25/13 11:37	07/29/13 21:22	1
Barium	**3200**		1000	79	ug/L		07/25/13 11:37	07/29/13 23:01	10
Beryllium	ND		10	1.2	ug/L		07/25/13 11:37	07/29/13 21:22	1
Beryllium	ND		100	12	ug/L		07/25/13 11:37	07/29/13 23:01	10
Cadmium	ND		10	1.8	ug/L		07/25/13 11:37	07/29/13 21:22	1
Cadmium	ND		100	18	ug/L		07/25/13 11:37	07/29/13 23:01	10
Calcium	**720000**	**E**	2000	210	ug/L		07/25/13 11:37	07/29/13 21:22	1
Calcium	**1000000**		20000	2100	ug/L		07/25/13 11:37	07/29/13 23:01	10
Calcium	**1100000**		100000	11000	ug/L		07/25/13 11:37	07/29/13 23:59	50
Chromium	ND		20	6.3	ug/L		07/25/13 11:37	07/29/13 21:22	1
Chromium	ND		200	63	ug/L		07/25/13 11:37	07/29/13 23:01	10
Cobalt	**82**	**J**	100	7.9	ug/L		07/25/13 11:37	07/29/13 21:22	1
Cobalt	**190**	**J**	1000	79	ug/L		07/25/13 11:37	07/29/13 23:01	10
Copper	ND		50	9.1	ug/L		07/25/13 11:37	07/29/13 21:22	1
Copper	ND		500	91	ug/L		07/25/13 11:37	07/29/13 23:01	10
Iron	**140000**		200	56	ug/L		07/25/13 11:37	07/29/13 21:22	1
Iron	**140000**		2000	560	ug/L		07/25/13 11:37	07/29/13 23:01	10
Lead	**10**	**J**	20	3.0	ug/L		07/25/13 11:37	07/29/13 21:22	1
Lead	**38**	**J**	200	30	ug/L		07/25/13 11:37	07/29/13 23:01	10
Magnesium	**270000**	**E**	2000	260	ug/L		07/25/13 11:37	07/29/13 21:22	1
Magnesium	**280000**		20000	2600	ug/L		07/25/13 11:37	07/29/13 23:01	10
Manganese	**3600**	**B**	30	6.6	ug/L		07/25/13 11:37	07/29/13 21:22	1
Manganese	**3800**	**B**	300	66	ug/L		07/25/13 11:37	07/29/13 23:01	10
Nickel	**340**		80	27	ug/L		07/25/13 11:37	07/29/13 21:22	1
Nickel	**390**	**J**	800	270	ug/L		07/25/13 11:37	07/29/13 23:01	10
Potassium	**20000**		10000	3300	ug/L		07/25/13 11:37	07/29/13 21:22	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: I-73

Lab Sample ID: 160-3052-2

Date Collected: 07/19/13 08:55

Matrix: Water

Date Received: 07/19/13 14:10

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		100000	33000	ug/L		07/25/13 11:37	07/29/13 23:01	10
Selenium	**11**	**J**	30	5.3	ug/L		07/25/13 11:37	07/29/13 21:22	1
Selenium	ND		300	53	ug/L		07/25/13 11:37	07/29/13 23:01	10
Silver	ND		20	12	ug/L		07/25/13 11:37	07/29/13 21:22	1
Silver	ND		200	120	ug/L		07/25/13 11:37	07/29/13 23:01	10
Sodium	**700000**	**E**	2000	650	ug/L		07/25/13 11:37	07/29/13 21:22	1
Sodium	**700000**		20000	6500	ug/L		07/25/13 11:37	07/29/13 23:01	10
Thallium	ND	^	40	7.9	ug/L		07/25/13 11:37	07/29/13 21:22	1
Thallium	ND	^	400	79	ug/L		07/25/13 11:37	07/29/13 23:01	10
Vanadium	**12**	**J**	100	8.1	ug/L		07/25/13 11:37	07/29/13 21:22	1
Vanadium	ND		1000	81	ug/L		07/25/13 11:37	07/29/13 23:01	10
Zinc	**1100**	**B**	40	10	ug/L		07/25/13 11:37	07/29/13 21:22	1
Zinc	**1200**	**B**	400	100	ug/L		07/25/13 11:37	07/29/13 23:01	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:16	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**11**		1.0	0.10	mg/L			07/24/13 16:48	1
Alkalinity	**2500**	**B**	25	2.7	mg/L			07/30/13 09:42	5

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.010**	**J**	0.040	0.0080	mg/L			07/20/13 01:30	2
Sulfate	**1.1**		1.0	0.10	mg/L			07/20/13 01:30	2

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**11**		5.0	0.50	mg/L			07/20/13 01:47	20

General Chemistry - DL4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		400	40	mg/L			07/20/13 02:21	2000

Client Sample ID: PZ-103-SS

Lab Sample ID: 160-3052-3

Date Collected: 07/19/13 09:45

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			07/23/13 23:49	1
Benzene	**140**		5.0	0.25	ug/L			07/23/13 23:49	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/23/13 23:49	1
Bromoform	ND		5.0	0.37	ug/L			07/23/13 23:49	1
Bromomethane	ND		10	0.40	ug/L			07/23/13 23:49	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-103-SS
Date Collected: 07/19/13 09:45
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		20	0.39	ug/L			07/23/13 23:49	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/23/13 23:49	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/23/13 23:49	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/23/13 23:49	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/23/13 23:49	1
Chloroethane	ND		10	0.38	ug/L			07/23/13 23:49	1
Chloroform	ND		5.0	0.15	ug/L			07/23/13 23:49	1
Chloromethane	ND		10	0.55	ug/L			07/23/13 23:49	1
Cyclohexane	ND		10	0.36	ug/L			07/23/13 23:49	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/23/13 23:49	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/23/13 23:49	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/23/13 23:49	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/23/13 23:49	1
1,4-Dichlorobenzene	**9.8**		5.0	0.35	ug/L			07/23/13 23:49	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/23/13 23:49	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/23/13 23:49	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/23/13 23:49	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/23/13 23:49	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/23/13 23:49	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/23/13 23:49	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/23/13 23:49	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/23/13 23:49	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/23/13 23:49	1
Ethylbenzene	**7.9**		5.0	0.30	ug/L			07/23/13 23:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.25	ug/L			07/23/13 23:49	1
2-Hexanone	ND		20	0.59	ug/L			07/23/13 23:49	1
Isopropylbenzene	**1.3**	**J**	5.0	0.26	ug/L			07/23/13 23:49	1
Methyl acetate	ND		25	2.3	ug/L			07/23/13 23:49	1
Methylcyclohexane	ND		10	0.26	ug/L			07/23/13 23:49	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/23/13 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/23/13 23:49	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/23/13 23:49	1
Styrene	**0.98**	**J**	5.0	0.35	ug/L			07/23/13 23:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/23/13 23:49	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/23/13 23:49	1
Toluene	**17**		5.0	1.0	ug/L			07/23/13 23:49	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/23/13 23:49	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/23/13 23:49	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/23/13 23:49	1
Trichloroethene	ND		5.0	0.29	ug/L			07/23/13 23:49	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/23/13 23:49	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/23/13 23:49	1
m-Xylene & p-Xylene	**16**		5.0	0.57	ug/L			07/23/13 23:49	1
o-Xylene	**8.8**		5.0	0.32	ug/L			07/23/13 23:49	1
Xylenes, Total	**25**		10	0.85	ug/L			07/23/13 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*82 - 121*		*07/23/13 23:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*82 - 132*		*07/23/13 23:49*	*1*
Toluene-d8 (Surr)	*108*		*85 - 115*		*07/23/13 23:49*	*1*

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-103-SS
Date Collected: 07/19/13 09:45
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*103*		*85 - 119*		*07/23/13 23:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		200	80	ug/L		07/25/13 11:42	07/26/13 18:14	1
Antimony	**5.7**	**J**	10	4.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Arsenic	**12**		10	2.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Barium	**610**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Beryllium	**1.3**	**J**	5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:14	1
Cadmium	**3.3**	**J**	5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:14	1
Calcium	**170000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:14	1
Calcium	**210000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 19:53	10
Chromium	**40**		10	3.1	ug/L		07/25/13 11:42	07/26/13 18:14	1
Cobalt	**15**	**J**	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Copper	**21**	**J**	25	4.6	ug/L		07/25/13 11:42	07/26/13 18:14	1
Iron	**40000**		100	28	ug/L		07/25/13 11:42	07/26/13 18:14	1
Iron	**39000**		1000	280	ug/L		07/25/13 11:42	07/26/13 19:53	10
Lead	**23**		10	1.5	ug/L		07/25/13 11:42	07/26/13 18:14	1
Magnesium	**58000**	**E**	1000	130	ug/L		07/25/13 11:42	07/26/13 18:14	1
Magnesium	**57000**		10000	1300	ug/L		07/25/13 11:42	07/26/13 19:53	10
Manganese	**470**		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:14	1
Nickel	**81**		40	13	ug/L		07/25/13 11:42	07/26/13 18:14	1
Potassium	**8300**		5000	1700	ug/L		07/25/13 11:42	07/26/13 18:14	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:42	07/26/13 18:14	1
Silver	**6.2**	**J**	10	6.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Sodium	**77000**		1000	320	ug/L		07/25/13 11:42	07/26/13 18:14	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:14	1
Vanadium	**72**		50	4.1	ug/L		07/25/13 11:42	07/26/13 18:14	1
Zinc	**340**		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 21:37	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Arsenic	**2.1**	**J**	10	2.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Barium	**400**		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 21:37	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 21:37	1
Calcium	**95000**	**E**	1000	110	ug/L		07/25/13 11:37	07/29/13 21:37	1
Calcium	**110000**		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:16	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 21:37	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 21:37	1
Iron	**11000**		100	28	ug/L		07/25/13 11:37	07/29/13 21:37	1
Iron	**11000**		1000	280	ug/L		07/25/13 11:37	07/29/13 23:16	10
Lead	**2.7**	**J**	10	1.5	ug/L		07/25/13 11:37	07/29/13 21:37	1
Magnesium	**56000**	**E**	1000	130	ug/L		07/25/13 11:37	07/29/13 21:37	1
Magnesium	**58000**		10000	1300	ug/L		07/25/13 11:37	07/29/13 23:16	10
Manganese	**270**	**B**	15	3.3	ug/L		07/25/13 11:37	07/29/13 21:37	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-103-SS

Lab Sample ID: 160-3052-3

Date Collected: 07/19/13 09:45

Matrix: Water

Date Received: 07/19/13 14:10

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 21:37	1
Potassium	**4500**	**J**	5000	1700	ug/L		07/25/13 11:37	07/29/13 21:37	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 21:37	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Sodium	**91000**		1000	320	ug/L		07/25/13 11:37	07/29/13 21:37	1
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 21:37	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 21:37	1
Zinc	ND		20	5.2	ug/L		07/25/13 11:37	07/29/13 21:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**	**J**	0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			07/20/13 02:38	1
Bromide	**0.037**	**J**	0.25	0.025	mg/L			07/20/13 02:38	1
Sulfate	**16**		0.50	0.050	mg/L			07/20/13 02:38	1
Iodide	ND		1.0	0.10	mg/L			07/24/13 17:33	1
Alkalinity	**690**	**B**	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.7**		4.0	0.40	mg/L			07/20/13 02:55	20

Client Sample ID: PZ-102R-SS

Lab Sample ID: 160-3052-4

Date Collected: 07/19/13 10:15

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 00:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 00:13	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 00:13	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 00:13	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 00:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 00:13	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 00:13	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 00:13	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 00:13	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 00:13	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 00:13	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 00:13	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 00:13	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 00:13	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 00:13	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 00:13	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102R-SS
Date Collected: 07/19/13 10:15
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			07/24/13 00:13	1
Benzene	ND		5.0	0.25	ug/L			07/24/13 00:13	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 00:13	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 00:13	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 00:13	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 00:13	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 00:13	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 00:13	1
Chloroethane	ND		10	0.38	ug/L			07/24/13 00:13	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 00:13	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 00:13	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 00:13	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 00:13	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 00:13	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 00:13	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/24/13 00:13	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 00:13	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 00:13	1
Methyl acetate	ND		25	2.3	ug/L			07/24/13 00:13	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 00:13	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 00:13	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/24/13 00:13	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 00:13	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 00:13	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 00:13	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 00:13	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 00:13	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 00:13	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 00:13	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 00:13	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 00:13	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 00:13	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*82 - 132*		*07/24/13 00:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*82 - 121*		*07/24/13 00:13*	*1*
Dibromofluoromethane (Surr)	*103*		*85 - 119*		*07/24/13 00:13*	*1*
Toluene-d8 (Surr)	*104*		*85 - 115*		*07/24/13 00:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2400**		200	80	ug/L		07/25/13 11:42	07/26/13 18:18	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Barium	**76**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:18	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:18	1
Calcium	**110000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:18	1
Calcium	**130000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 19:57	10

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102R-SS
Date Collected: 07/19/13 10:15
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-4
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4.1	J	10	3.1	ug/L		07/25/13 11:42	07/26/13 18:18	1
Cobalt	4.0	J	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Copper	ND		25	4.6	ug/L		07/25/13 11:42	07/26/13 18:18	1
Iron	1800		100	28	ug/L		07/25/13 11:42	07/26/13 18:18	1
Lead	3.7	J	10	1.5	ug/L		07/25/13 11:42	07/26/13 18:18	1
Magnesium	41000		1000	130	ug/L		07/25/13 11:42	07/26/13 18:18	1
Manganese	39		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:18	1
Nickel	ND		40	13	ug/L		07/25/13 11:42	07/26/13 18:18	1
Potassium	3600	J	5000	1700	ug/L		07/25/13 11:42	07/26/13 18:18	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:42	07/26/13 18:18	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Sodium	26000		1000	320	ug/L		07/25/13 11:42	07/26/13 18:18	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:18	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:42	07/26/13 18:18	1
Zinc	29		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 21:41	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Barium	73		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 21:41	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 21:41	1
Calcium	110000	E	1000	110	ug/L		07/25/13 11:37	07/29/13 21:41	1
Calcium	120000		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:28	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 21:41	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 21:41	1
Iron	ND		100	28	ug/L		07/25/13 11:37	07/29/13 21:41	1
Lead	ND		10	1.5	ug/L		07/25/13 11:37	07/29/13 21:41	1
Magnesium	42000		1000	130	ug/L		07/25/13 11:37	07/29/13 21:41	1
Manganese	23	B	15	3.3	ug/L		07/25/13 11:37	07/29/13 21:41	1
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 21:41	1
Potassium	3500	J	5000	1700	ug/L		07/25/13 11:37	07/29/13 21:41	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 21:41	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Sodium	26000		1000	320	ug/L		07/25/13 11:37	07/29/13 21:41	1
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 21:41	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 21:41	1
Zinc	14	J B	20	5.2	ug/L		07/25/13 11:37	07/29/13 21:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:16	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102R-SS

Lab Sample ID: 160-3052-4

Date Collected: 07/19/13 10:15

Matrix: Water

Date Received: 07/19/13 14:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10		0.020	0.0040	mg/L			07/20/13 04:36	1
Bromide	0.031	J	0.25	0.025	mg/L			07/20/13 04:36	1
Iodide	ND		1.0	0.10	mg/L			07/24/13 17:48	1
Alkalinity	450	B	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		4.0	0.40	mg/L			07/20/13 04:53	20
Sulfate	65		10	1.0	mg/L			07/20/13 04:53	20

Client Sample ID: PZ-200-SS

Lab Sample ID: 160-3052-5

Date Collected: 07/19/13 10:19

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 00:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 00:38	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 00:38	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 00:38	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 00:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 00:38	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 00:38	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 00:38	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 00:38	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 00:38	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 00:38	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 00:38	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 00:38	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 00:38	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 00:38	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 00:38	1
Acetone	ND		20	6.7	ug/L			07/24/13 00:38	1
Benzene	ND		5.0	0.25	ug/L			07/24/13 00:38	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 00:38	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 00:38	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 00:38	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 00:38	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 00:38	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 00:38	1
Chloroethane	ND		10	0.38	ug/L			07/24/13 00:38	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 00:38	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 00:38	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 00:38	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 00:38	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 00:38	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 00:38	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/24/13 00:38	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 00:38	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 00:38	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-200-SS
Date Collected: 07/19/13 10:19
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		25	2.3	ug/L			07/24/13 00:38	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 00:38	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 00:38	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/24/13 00:38	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 00:38	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 00:38	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 00:38	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 00:38	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 00:38	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 00:38	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 00:38	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 00:38	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 00:38	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 00:38	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*82 - 132*		*07/24/13 00:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*82 - 121*		*07/24/13 00:38*	*1*
Dibromofluoromethane (Surr)	*107*		*85 - 119*		*07/24/13 00:38*	*1*
Toluene-d8 (Surr)	*104*		*85 - 115*		*07/24/13 00:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**830**		200	80	ug/L		07/25/13 11:42	07/26/13 18:22	1
Antimony	**5.2**	**J**	10	4.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Arsenic	**27**		10	2.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Barium	**880**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:22	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:22	1
Calcium	**180000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:22	1
Calcium	**230000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 20:01	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:42	07/26/13 18:22	1
Cobalt	**29**	**J**	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Copper	**13**	**J**	25	4.6	ug/L		07/25/13 11:42	07/26/13 18:22	1
Iron	**31000**		100	28	ug/L		07/25/13 11:42	07/26/13 18:22	1
Iron	**32000**		1000	280	ug/L		07/25/13 11:42	07/26/13 20:01	10
Lead	**6.0**	**J**	10	1.5	ug/L		07/25/13 11:42	07/26/13 18:22	1
Magnesium	**99000**	**E**	1000	130	ug/L		07/25/13 11:42	07/26/13 18:22	1
Magnesium	**100000**		10000	1300	ug/L		07/25/13 11:42	07/26/13 20:01	10
Manganese	**7300**		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:22	1
Nickel	**140**		40	13	ug/L		07/25/13 11:42	07/26/13 18:22	1
Potassium	**2100**	**J**	5000	1700	ug/L		07/25/13 11:42	07/26/13 18:22	1
Selenium	**7.1**	**J**	15	2.7	ug/L		07/25/13 11:42	07/26/13 18:22	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Sodium	**18000**		1000	320	ug/L		07/25/13 11:42	07/26/13 18:22	1
Thallium	**7.3**	**J**	20	4.0	ug/L		07/25/13 11:42	07/26/13 18:22	1
Vanadium	**9.5**	**J**	50	4.1	ug/L		07/25/13 11:42	07/26/13 18:22	1
Zinc	**24**		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:22	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-200-SS
Date Collected: 07/19/13 10:19
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-5
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 21:45	1
Antimony	**4.9**	**J**	10	4.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Arsenic	**3.8**	**J**	10	2.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Barium	**850**		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 21:45	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 21:45	1
Calcium	**180000**	**E**	1000	110	ug/L		07/25/13 11:37	07/29/13 21:45	1
Calcium	**210000**		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:32	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 21:45	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 21:45	1
Iron	**7200**		100	28	ug/L		07/25/13 11:37	07/29/13 21:45	1
Iron	**7300**		1000	280	ug/L		07/25/13 11:37	07/29/13 23:32	10
Lead	**3.9**	**J**	10	1.5	ug/L		07/25/13 11:37	07/29/13 21:45	1
Magnesium	**99000**	**E**	1000	130	ug/L		07/25/13 11:37	07/29/13 21:45	1
Magnesium	**98000**		10000	1300	ug/L		07/25/13 11:37	07/29/13 23:32	10
Manganese	**6800**	**B**	15	3.3	ug/L		07/25/13 11:37	07/29/13 21:45	1
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 21:45	1
Potassium	**1900**	**J**	5000	1700	ug/L		07/25/13 11:37	07/29/13 21:45	1
Selenium	**5.0**	**J**	15	2.7	ug/L		07/25/13 11:37	07/29/13 21:45	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Sodium	**18000**		1000	320	ug/L		07/25/13 11:37	07/29/13 21:45	1
Thallium	**5.9**	**J ^**	20	4.0	ug/L		07/25/13 11:37	07/29/13 21:45	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 21:45	1
Zinc	ND		20	5.2	ug/L		07/25/13 11:37	07/29/13 21:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:26	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			07/20/13 03:11	1
Bromide	**0.16**	**J**	0.25	0.025	mg/L			07/20/13 03:11	1
Sulfate	**17**		0.50	0.050	mg/L			07/20/13 03:11	1
Iodide	ND		1.0	0.10	mg/L			07/24/13 18:33	1
Alkalinity	**820**	**B**	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		20	2.0	mg/L			07/20/13 03:45	100

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102-SS
Date Collected: 07/19/13 10:30
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 01:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 01:03	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 01:03	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 01:03	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 01:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 01:03	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 01:03	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 01:03	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 01:03	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 01:03	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 01:03	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 01:03	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 01:03	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 01:03	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 01:03	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 01:03	1
Acetone	ND		20	6.7	ug/L			07/24/13 01:03	1
Benzene	ND		5.0	0.25	ug/L			07/24/13 01:03	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 01:03	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 01:03	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 01:03	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 01:03	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 01:03	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 01:03	1
Chloroethane	ND		10	0.38	ug/L			07/24/13 01:03	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 01:03	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 01:03	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 01:03	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 01:03	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 01:03	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 01:03	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/24/13 01:03	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 01:03	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 01:03	1
Methyl acetate	ND		25	2.3	ug/L			07/24/13 01:03	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 01:03	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 01:03	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/24/13 01:03	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 01:03	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 01:03	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 01:03	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 01:03	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 01:03	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 01:03	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 01:03	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 01:03	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 01:03	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 01:03	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 01:03	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102-SS
Date Collected: 07/19/13 10:30
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		82 - 132		07/24/13 01:03	1
4-Bromofluorobenzene (Surr)	95		82 - 121		07/24/13 01:03	1
Dibromofluoromethane (Surr)	99		85 - 119		07/24/13 01:03	1
Toluene-d8 (Surr)	101		85 - 115		07/24/13 01:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		200	80	ug/L		07/25/13 11:42	07/26/13 18:26	1
Antimony	**5.9**	**J**	10	4.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Arsenic	**14**		10	2.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Barium	**790**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Beryllium	**1.1**	**J**	5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:26	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:26	1
Calcium	**130000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:26	1
Calcium	**170000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 20:05	10
Chromium	**25**		10	3.1	ug/L		07/25/13 11:42	07/26/13 18:26	1
Cobalt	**16**	**J**	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Copper	**17**	**J**	25	4.6	ug/L		07/25/13 11:42	07/26/13 18:26	1
Iron	**27000**		100	28	ug/L		07/25/13 11:42	07/26/13 18:26	1
Iron	**30000**		1000	280	ug/L		07/25/13 11:42	07/26/13 20:05	10
Lead	**23**		10	1.5	ug/L		07/25/13 11:42	07/26/13 18:26	1
Magnesium	**54000**	**E**	1000	130	ug/L		07/25/13 11:42	07/26/13 18:26	1
Magnesium	**58000**		10000	1300	ug/L		07/25/13 11:42	07/26/13 20:05	10
Manganese	**1200**		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:26	1
Nickel	**57**		40	13	ug/L		07/25/13 11:42	07/26/13 18:26	1
Potassium	**8100**		5000	1700	ug/L		07/25/13 11:42	07/26/13 18:26	1
Selenium	**3.4**	**J**	15	2.7	ug/L		07/25/13 11:42	07/26/13 18:26	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Sodium	**29000**		1000	320	ug/L		07/25/13 11:42	07/26/13 18:26	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:26	1
Vanadium	**47**	**J**	50	4.1	ug/L		07/25/13 11:42	07/26/13 18:26	1
Zinc	**100**		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:26	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 21:56	1
Antimony	**5.5**	**J**	10	4.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Arsenic	**4.0**	**J**	10	2.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Barium	**360**		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 21:56	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 21:56	1
Calcium	**100000**	**E**	1000	110	ug/L		07/25/13 11:37	07/29/13 21:56	1
Calcium	**110000**		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:35	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 21:56	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 21:56	1
Iron	**1700**		100	28	ug/L		07/25/13 11:37	07/29/13 21:56	1
Lead	**2.5**	**J**	10	1.5	ug/L		07/25/13 11:37	07/29/13 21:56	1
Magnesium	**40000**		1000	130	ug/L		07/25/13 11:37	07/29/13 21:56	1
Manganese	**190**	**B**	15	3.3	ug/L		07/25/13 11:37	07/29/13 21:56	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-102-SS

Lab Sample ID: 160-3052-6

Date Collected: 07/19/13 10:30

Matrix: Water

Date Received: 07/19/13 14:10

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 21:56	1
Potassium	**3300**	**J**	5000	1700	ug/L		07/25/13 11:37	07/29/13 21:56	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 21:56	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Sodium	**27000**		1000	320	ug/L		07/25/13 11:37	07/29/13 21:56	1
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 21:56	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 21:56	1
Zinc	ND		20	5.2	ug/L		07/25/13 11:37	07/29/13 21:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.031**		0.020	0.0040	mg/L			07/20/13 06:18	1
Bromide	**0.032**	**J**	0.25	0.025	mg/L			07/20/13 06:18	1
Sulfate	**20**		0.50	0.050	mg/L			07/20/13 06:18	1
Iodide	ND		1.0	0.10	mg/L			07/24/13 19:17	1
Alkalinity	**520**	**B**	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.7**		4.0	0.40	mg/L			07/20/13 06:35	20

Client Sample ID: PZ-107-SS

Lab Sample ID: 160-3052-7

Date Collected: 07/19/13 12:10

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			07/24/13 01:27	1
Benzene	**0.95**	**J**	5.0	0.25	ug/L			07/24/13 01:27	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 01:27	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 01:27	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 01:27	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 01:27	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 01:27	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 01:27	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 01:27	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 01:27	1
Chloroethane	ND		10	0.38	ug/L			07/24/13 01:27	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 01:27	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 01:27	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 01:27	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 01:27	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 01:27	1

US EPA ARCHIVE DOCUMENT

Client Sample ID: PZ-107-SS
Date Collected: 07/19/13 12:10
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 01:27	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 01:27	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 01:27	1
Dichlorodifluoromethane	**14**		10	0.45	ug/L			07/24/13 01:27	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 01:27	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 01:27	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 01:27	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 01:27	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 01:27	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 01:27	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 01:27	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 01:27	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.25	ug/L			07/24/13 01:27	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 01:27	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 01:27	1
Methyl acetate	ND		25	2.3	ug/L			07/24/13 01:27	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 01:27	1
Methylene Chloride	**2.5**	**J**	5.0	1.7	ug/L			07/24/13 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 01:27	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 01:27	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 01:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 01:27	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 01:27	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 01:27	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 01:27	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 01:27	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 01:27	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 01:27	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 01:27	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 01:27	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 01:27	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 01:27	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*82 - 121*		*07/24/13 01:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*82 - 132*		*07/24/13 01:27*	*1*
Toluene-d8 (Surr)	*102*		*85 - 115*		*07/24/13 01:27*	*1*
Dibromofluoromethane (Surr)	*100*		*85 - 119*		*07/24/13 01:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		200	80	ug/L		07/25/13 11:42	07/26/13 18:29	1
Antimony	**4.9**	**J**	10	4.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Arsenic	**6.5**	**J**	10	2.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Barium	**720**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Beryllium	**1.0**	**J**	5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:29	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:29	1
Calcium	**210000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:29	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-107-SS
Date Collected: 07/19/13 12:10
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-7
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270000		10000	1100	ug/L		07/25/13 11:42	07/26/13 20:09	10
Chromium	15		10	3.1	ug/L		07/25/13 11:42	07/26/13 18:29	1
Cobalt	4.1	J	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Copper	9.3	J	25	4.6	ug/L		07/25/13 11:42	07/26/13 18:29	1
Iron	10000		100	28	ug/L		07/25/13 11:42	07/26/13 18:29	1
Iron	11000		1000	280	ug/L		07/25/13 11:42	07/26/13 20:09	10
Lead	18		10	1.5	ug/L		07/25/13 11:42	07/26/13 18:29	1
Magnesium	120000	E	1000	130	ug/L		07/25/13 11:42	07/26/13 18:29	1
Magnesium	120000		10000	1300	ug/L		07/25/13 11:42	07/26/13 20:09	10
Manganese	240		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:29	1
Nickel	52		40	13	ug/L		07/25/13 11:42	07/26/13 18:29	1
Potassium	4900	J	5000	1700	ug/L		07/25/13 11:42	07/26/13 18:29	1
Selenium	2.7	J	15	2.7	ug/L		07/25/13 11:42	07/26/13 18:29	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Sodium	110000	E	1000	320	ug/L		07/25/13 11:42	07/26/13 18:29	1
Sodium	110000		10000	3200	ug/L		07/25/13 11:42	07/26/13 20:09	10
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:29	1
Vanadium	18	J	50	4.1	ug/L		07/25/13 11:42	07/26/13 18:29	1
Zinc	130		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:29	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 22:00	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Arsenic	3.2	J	10	2.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Barium	620		50	4.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 22:00	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 22:00	1
Calcium	190000	E	1000	110	ug/L		07/25/13 11:37	07/29/13 22:00	1
Calcium	240000		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:39	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 22:00	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 22:00	1
Iron	1400		100	28	ug/L		07/25/13 11:37	07/29/13 22:00	1
Iron	1500		1000	280	ug/L		07/25/13 11:37	07/29/13 23:39	10
Lead	2.8	J	10	1.5	ug/L		07/25/13 11:37	07/29/13 22:00	1
Magnesium	110000	E	1000	130	ug/L		07/25/13 11:37	07/29/13 22:00	1
Magnesium	120000		10000	1300	ug/L		07/25/13 11:37	07/29/13 23:39	10
Manganese	170	B	15	3.3	ug/L		07/25/13 11:37	07/29/13 22:00	1
Nickel	41		40	13	ug/L		07/25/13 11:37	07/29/13 22:00	1
Potassium	4100	J	5000	1700	ug/L		07/25/13 11:37	07/29/13 22:00	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 22:00	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Sodium	110000	E	1000	320	ug/L		07/25/13 11:37	07/29/13 22:00	1
Sodium	120000		10000	3200	ug/L		07/25/13 11:37	07/29/13 23:39	10
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 22:00	1
Vanadium	4.5	J	50	4.1	ug/L		07/25/13 11:37	07/29/13 22:00	1
Zinc	11	J B	20	5.2	ug/L		07/25/13 11:37	07/29/13 22:00	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-107-SS

Lab Sample ID: 160-3052-7

Date Collected: 07/19/13 12:10

Matrix: Water

Date Received: 07/19/13 14:10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**J**	0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.020**		0.020	0.0040	mg/L			07/20/13 07:25	1
Bromide	**2.1**		0.25	0.025	mg/L			07/20/13 07:25	1
Iodide	**0.65**	**J**	1.0	0.10	mg/L			07/24/13 19:32	1
Alkalinity	**840**	**B**	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**51**		10	1.0	mg/L			07/20/13 07:42	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		20	2.0	mg/L			07/20/13 07:59	100

Client Sample ID: PZ-106-KS

Lab Sample ID: 160-3052-8

Date Collected: 07/19/13 13:09

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 01:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 01:52	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 01:52	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 01:52	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 01:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 01:52	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 01:52	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 01:52	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 01:52	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 01:52	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 01:52	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 01:52	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 01:52	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 01:52	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 01:52	1
Acetone	ND		20	6.7	ug/L			07/24/13 01:52	1
Benzene	ND		5.0	0.25	ug/L			07/24/13 01:52	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 01:52	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 01:52	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 01:52	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 01:52	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 01:52	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 01:52	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-106-KS
Date Collected: 07/19/13 13:09
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10	0.38	ug/L			07/24/13 01:52	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 01:52	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 01:52	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 01:52	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 01:52	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 01:52	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 01:52	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/24/13 01:52	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 01:52	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 01:52	1
Methyl acetate	ND		25	2.3	ug/L			07/24/13 01:52	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 01:52	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 01:52	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/24/13 01:52	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 01:52	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 01:52	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 01:52	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 01:52	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 01:52	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 01:52	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 01:52	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 01:52	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 01:52	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 01:52	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*82 - 132*		*07/24/13 01:52*	*1*
4-Bromofluorobenzene (Surr)	*89*		*82 - 121*		*07/24/13 01:52*	*1*
Dibromofluoromethane (Surr)	*102*		*85 - 119*		*07/24/13 01:52*	*1*
Toluene-d8 (Surr)	*106*		*85 - 115*		*07/24/13 01:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:42	07/26/13 18:33	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Barium	**46**	**J**	50	4.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:33	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:33	1
Calcium	**58000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:33	1
Calcium	**62000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 20:12	10
Chromium	**5.7**	**J**	10	3.1	ug/L		07/25/13 11:42	07/26/13 18:33	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Copper	ND		25	4.6	ug/L		07/25/13 11:42	07/26/13 18:33	1
Iron	**250**		100	28	ug/L		07/25/13 11:42	07/26/13 18:33	1
Lead	ND		10	1.5	ug/L		07/25/13 11:42	07/26/13 18:33	1
Magnesium	**37000**		1000	130	ug/L		07/25/13 11:42	07/26/13 18:33	1
Manganese	**5.0**	**J**	15	3.3	ug/L		07/25/13 11:42	07/26/13 18:33	1
Nickel	ND		40	13	ug/L		07/25/13 11:42	07/26/13 18:33	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-106-KS
Date Collected: 07/19/13 13:09
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-8
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**2100**	**J**	5000	1700	ug/L		07/25/13 11:42	07/26/13 18:33	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:42	07/26/13 18:33	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Sodium	**64000**		1000	320	ug/L		07/25/13 11:42	07/26/13 18:33	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:33	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:42	07/26/13 18:33	1
Zinc	**7.8**	**J**	20	5.2	ug/L		07/25/13 11:42	07/26/13 18:33	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 22:04	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Barium	**44**	**J**	50	4.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 22:04	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 22:04	1
Calcium	**53000**	**E**	1000	110	ug/L		07/25/13 11:37	07/29/13 22:04	1
Calcium	**56000**		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:43	10
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 22:04	1
Cobalt	**4.6**	**J**	50	4.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 22:04	1
Iron	**220**		100	28	ug/L		07/25/13 11:37	07/29/13 22:04	1
Lead	**2.1**	**J**	10	1.5	ug/L		07/25/13 11:37	07/29/13 22:04	1
Magnesium	**36000**		1000	130	ug/L		07/25/13 11:37	07/29/13 22:04	1
Manganese	**4.1**	**J B**	15	3.3	ug/L		07/25/13 11:37	07/29/13 22:04	1
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 22:04	1
Potassium	**2000**	**J**	5000	1700	ug/L		07/25/13 11:37	07/29/13 22:04	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 22:04	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Sodium	**61000**		1000	320	ug/L		07/25/13 11:37	07/29/13 22:04	1
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 22:04	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 22:04	1
Zinc	ND		20	5.2	ug/L		07/25/13 11:37	07/29/13 22:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:34	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.0092**	**J**	0.020	0.0040	mg/L			07/20/13 08:16	1
Bromide	**0.056**	**J**	0.25	0.025	mg/L			07/20/13 08:16	1
Sulfate	**12**		0.50	0.050	mg/L			07/20/13 08:16	1
Iodide	ND		1.0	0.10	mg/L			07/24/13 19:47	1
Alkalinity	**410**	**B**	5.0	0.54	mg/L			07/30/13 09:42	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: PZ-106-KS

Lab Sample ID: 160-3052-8

Date Collected: 07/19/13 13:09

Matrix: Water

Date Received: 07/19/13 14:10

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		4.0	0.40	mg/L			07/20/13 08:33	20

Client Sample ID: DUPLICATE 08

Lab Sample ID: 160-3052-9

Date Collected: 07/19/13 00:00

Matrix: Water

Date Received: 07/19/13 14:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			07/24/13 02:17	1
Benzene	ND		5.0	0.25	ug/L			07/24/13 02:17	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/24/13 02:17	1
Bromoform	ND		5.0	0.37	ug/L			07/24/13 02:17	1
Bromomethane	ND		10	0.40	ug/L			07/24/13 02:17	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/24/13 02:17	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/24/13 02:17	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/24/13 02:17	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/24/13 02:17	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/24/13 02:17	1
Chloroethane	ND		10	0.38	ug/L			07/24/13 02:17	1
Chloroform	ND		5.0	0.15	ug/L			07/24/13 02:17	1
Chloromethane	ND		10	0.55	ug/L			07/24/13 02:17	1
Cyclohexane	ND		10	0.36	ug/L			07/24/13 02:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/24/13 02:17	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/24/13 02:17	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/24/13 02:17	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/24/13 02:17	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/24/13 02:17	1
Dichlorodifluoromethane	**15**		10	0.45	ug/L			07/24/13 02:17	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/24/13 02:17	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/24/13 02:17	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/24/13 02:17	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/24/13 02:17	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/24/13 02:17	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/24/13 02:17	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/24/13 02:17	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/24/13 02:17	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/24/13 02:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.25	ug/L			07/24/13 02:17	1
2-Hexanone	ND		20	0.59	ug/L			07/24/13 02:17	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/24/13 02:17	1
Methyl acetate	ND		25	2.3	ug/L			07/24/13 02:17	1
Methylcyclohexane	ND		10	0.26	ug/L			07/24/13 02:17	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/24/13 02:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/24/13 02:17	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/24/13 02:17	1
Styrene	ND		5.0	0.35	ug/L			07/24/13 02:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/24/13 02:17	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/24/13 02:17	1
Toluene	ND		5.0	1.0	ug/L			07/24/13 02:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/24/13 02:17	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: DUPLICATE 08
Date Collected: 07/19/13 00:00
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/24/13 02:17	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/24/13 02:17	1
Trichloroethene	ND		5.0	0.29	ug/L			07/24/13 02:17	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/24/13 02:17	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/24/13 02:17	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/24/13 02:17	1
o-Xylene	ND		5.0	0.32	ug/L			07/24/13 02:17	1
Xylenes, Total	ND		10	0.85	ug/L			07/24/13 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*82 - 121*		*07/24/13 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*82 - 132*		*07/24/13 02:17*	*1*
Toluene-d8 (Surr)	*107*		*85 - 115*		*07/24/13 02:17*	*1*
Dibromofluoromethane (Surr)	*105*		*85 - 119*		*07/24/13 02:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		200	80	ug/L		07/25/13 11:42	07/26/13 18:37	1
Antimony	**4.4**	**J**	10	4.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Arsenic	**6.2**	**J**	10	2.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Barium	**730**		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Beryllium	**1.0**	**J**	5.0	0.61	ug/L		07/25/13 11:42	07/26/13 18:37	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 18:37	1
Calcium	**210000**	**E**	1000	110	ug/L		07/25/13 11:42	07/26/13 18:37	1
Calcium	**260000**		10000	1100	ug/L		07/25/13 11:42	07/26/13 20:16	10
Chromium	**13**		10	3.1	ug/L		07/25/13 11:42	07/26/13 18:37	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Copper	**8.1**	**J**	25	4.6	ug/L		07/25/13 11:42	07/26/13 18:37	1
Iron	**11000**		100	28	ug/L		07/25/13 11:42	07/26/13 18:37	1
Iron	**11000**		1000	280	ug/L		07/25/13 11:42	07/26/13 20:16	10
Lead	**18**		10	1.5	ug/L		07/25/13 11:42	07/26/13 18:37	1
Magnesium	**120000**	**E**	1000	130	ug/L		07/25/13 11:42	07/26/13 18:37	1
Magnesium	**120000**		10000	1300	ug/L		07/25/13 11:42	07/26/13 20:16	10
Manganese	**240**		15	3.3	ug/L		07/25/13 11:42	07/26/13 18:37	1
Nickel	**50**		40	13	ug/L		07/25/13 11:42	07/26/13 18:37	1
Potassium	**4900**	**J**	5000	1700	ug/L		07/25/13 11:42	07/26/13 18:37	1
Selenium	**2.8**	**J**	15	2.7	ug/L		07/25/13 11:42	07/26/13 18:37	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Sodium	**110000**	**E**	1000	320	ug/L		07/25/13 11:42	07/26/13 18:37	1
Sodium	**110000**		10000	3200	ug/L		07/25/13 11:42	07/26/13 20:16	10
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 18:37	1
Vanadium	**18**	**J**	50	4.1	ug/L		07/25/13 11:42	07/26/13 18:37	1
Zinc	**120**		20	5.2	ug/L		07/25/13 11:42	07/26/13 18:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 22:08	1
Antimony	**4.1**	**J**	10	4.0	ug/L		07/25/13 11:37	07/29/13 22:08	1
Arsenic	**2.6**	**J**	10	2.0	ug/L		07/25/13 11:37	07/29/13 22:08	1
Barium	**640**		50	4.0	ug/L		07/25/13 11:37	07/29/13 22:08	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: DUPLICATE 08
Date Collected: 07/19/13 00:00
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-9
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 22:08	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 22:08	1
Calcium	190000	E	1000	110	ug/L		07/25/13 11:37	07/29/13 22:08	1
Calcium	250000		10000	1100	ug/L		07/25/13 11:37	07/29/13 23:47	10
Chromium	3.1	J	10	3.1	ug/L		07/25/13 11:37	07/29/13 22:08	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 22:08	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 22:08	1
Iron	1400		100	28	ug/L		07/25/13 11:37	07/29/13 22:08	1
Iron	1500		1000	280	ug/L		07/25/13 11:37	07/29/13 23:47	10
Lead	2.8	J	10	1.5	ug/L		07/25/13 11:37	07/29/13 22:08	1
Magnesium	120000	E	1000	130	ug/L		07/25/13 11:37	07/29/13 22:08	1
Magnesium	120000		10000	1300	ug/L		07/25/13 11:37	07/29/13 23:47	10
Manganese	170	B	15	3.3	ug/L		07/25/13 11:37	07/29/13 22:08	1
Nickel	42		40	13	ug/L		07/25/13 11:37	07/29/13 22:08	1
Potassium	4200	J	5000	1700	ug/L		07/25/13 11:37	07/29/13 22:08	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 22:08	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 22:08	1
Sodium	120000	E	1000	320	ug/L		07/25/13 11:37	07/29/13 22:08	1
Sodium	120000		10000	3200	ug/L		07/25/13 11:37	07/29/13 23:47	10
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 22:08	1
Vanadium	6.1	J	50	4.1	ug/L		07/25/13 11:37	07/29/13 22:08	1
Zinc	9.4	J B	20	5.2	ug/L		07/25/13 11:37	07/29/13 22:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078	J	0.20	0.060	ug/L		07/24/13 10:11	07/24/13 16:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.012	J	0.020	0.0040	mg/L			07/20/13 08:50	1
Bromide	2.1		0.25	0.025	mg/L			07/20/13 08:50	1
Iodide	0.64	J	1.0	0.10	mg/L			07/24/13 20:02	1
Alkalinity	830	B	5.0	0.54	mg/L			07/30/13 09:42	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	52		10	1.0	mg/L			07/20/13 09:07	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		20	2.0	mg/L			07/20/13 09:24	100

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: TRIP BLANK
Date Collected: 07/19/13 00:00
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/23/13 19:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/23/13 19:17	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/23/13 19:17	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/23/13 19:17	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/23/13 19:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/23/13 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/23/13 19:17	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/23/13 19:17	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/23/13 19:17	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/23/13 19:17	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/23/13 19:17	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/23/13 19:17	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/23/13 19:17	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/23/13 19:17	1
2-Hexanone	ND		20	0.59	ug/L			07/23/13 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/23/13 19:17	1
Acetone	ND		20	6.7	ug/L			07/23/13 19:17	1
Benzene	ND		5.0	0.25	ug/L			07/23/13 19:17	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/23/13 19:17	1
Bromoform	ND		5.0	0.37	ug/L			07/23/13 19:17	1
Bromomethane	ND		10	0.40	ug/L			07/23/13 19:17	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/23/13 19:17	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/23/13 19:17	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/23/13 19:17	1
Chloroethane	ND		10	0.38	ug/L			07/23/13 19:17	1
Chloroform	ND		5.0	0.15	ug/L			07/23/13 19:17	1
Chloromethane	ND		10	0.55	ug/L			07/23/13 19:17	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/23/13 19:17	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/23/13 19:17	1
Cyclohexane	ND		10	0.36	ug/L			07/23/13 19:17	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/23/13 19:17	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/23/13 19:17	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/23/13 19:17	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/23/13 19:17	1
Methyl acetate	ND		25	2.3	ug/L			07/23/13 19:17	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/23/13 19:17	1
Methylcyclohexane	ND		10	0.26	ug/L			07/23/13 19:17	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/23/13 19:17	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/23/13 19:17	1
o-Xylene	ND		5.0	0.32	ug/L			07/23/13 19:17	1
Styrene	ND		5.0	0.35	ug/L			07/23/13 19:17	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/23/13 19:17	1
Toluene	ND		5.0	1.0	ug/L			07/23/13 19:17	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/23/13 19:17	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/23/13 19:17	1
Trichloroethene	ND		5.0	0.29	ug/L			07/23/13 19:17	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/23/13 19:17	1
Vinyl chloride	ND		5.0	0.43	ug/L			07/23/13 19:17	1
Xylenes, Total	ND		10	0.85	ug/L			07/23/13 19:17	1

US EPA ARCHIVE DOCUMENT

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Client Sample ID: TRIP BLANK
Date Collected: 07/19/13 00:00
Date Received: 07/19/13 14:10

Lab Sample ID: 160-3052-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		82 - 132		07/23/13 19:17	1
4-Bromofluorobenzene (Surr)	88		82 - 121		07/23/13 19:17	1
Dibromofluoromethane (Surr)	99		85 - 119		07/23/13 19:17	1
Toluene-d8 (Surr)	99		85 - 115		07/23/13 19:17	1

US EPA ARCHIVE DOCUMENT

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-62292/3-A
Matrix: Water
Analysis Batch: 62292

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			07/23/13 18:28	1
2-Butanone (MEK)	ND		20	0.39	ug/L			07/23/13 18:28	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			07/23/13 18:28	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			07/23/13 18:28	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			07/23/13 18:28	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			07/23/13 18:28	1
Acetone	ND		20	6.7	ug/L			07/23/13 18:28	1
Benzene	ND		5.0	0.25	ug/L			07/23/13 18:28	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			07/23/13 18:28	1
Bromodichloromethane	ND		5.0	0.25	ug/L			07/23/13 18:28	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			07/23/13 18:28	1
Bromoform	ND		5.0	0.37	ug/L			07/23/13 18:28	1
Bromomethane	ND		10	0.40	ug/L			07/23/13 18:28	1
Carbon disulfide	ND		5.0	0.37	ug/L			07/23/13 18:28	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			07/23/13 18:28	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			07/23/13 18:28	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			07/23/13 18:28	1
Chlorobenzene	ND		5.0	0.38	ug/L			07/23/13 18:28	1
Chloroethane	ND		10	0.38	ug/L			07/23/13 18:28	1
Chloroform	ND		5.0	0.15	ug/L			07/23/13 18:28	1
Chloromethane	ND		10	0.55	ug/L			07/23/13 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.25	ug/L			07/23/13 18:28	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			07/23/13 18:28	1
2-Hexanone	ND		20	0.59	ug/L			07/23/13 18:28	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			07/23/13 18:28	1
Cyclohexane	ND		10	0.36	ug/L			07/23/13 18:28	1
Dibromochloromethane	ND		5.0	0.33	ug/L			07/23/13 18:28	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			07/23/13 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			07/23/13 18:28	1
Ethylbenzene	ND		5.0	0.30	ug/L			07/23/13 18:28	1
Isopropylbenzene	ND		5.0	0.26	ug/L			07/23/13 18:28	1
Methyl acetate	ND		25	2.3	ug/L			07/23/13 18:28	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			07/23/13 18:28	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			07/23/13 18:28	1
Methylcyclohexane	ND		10	0.26	ug/L			07/23/13 18:28	1
Methylene Chloride	ND		5.0	1.7	ug/L			07/23/13 18:28	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			07/23/13 18:28	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			07/23/13 18:28	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			07/23/13 18:28	1
Styrene	ND		5.0	0.35	ug/L			07/23/13 18:28	1
Tetrachloroethene	ND		5.0	0.28	ug/L			07/23/13 18:28	1
Toluene	ND		5.0	1.0	ug/L			07/23/13 18:28	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			07/23/13 18:28	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			07/23/13 18:28	1
o-Xylene	ND		5.0	0.32	ug/L			07/23/13 18:28	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			07/23/13 18:28	1
Trichloroethene	ND		5.0	0.29	ug/L			07/23/13 18:28	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			07/23/13 18:28	1

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-62292/3-A
Matrix: Water
Analysis Batch: 62292

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5.0	0.43	ug/L			07/23/13 18:28	1
Xylenes, Total	ND		10	0.85	ug/L			07/23/13 18:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*82 - 121*		*07/23/13 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*82 - 132*		*07/23/13 18:28*	*1*
Toluene-d8 (Surr)	*104*		*85 - 115*		*07/23/13 18:28*	*1*
Dibromofluoromethane (Surr)	*101*		*85 - 119*		*07/23/13 18:28*	*1*

Lab Sample ID: LCS 160-62292/4-A
Matrix: Water
Analysis Batch: 62292

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	57.5		ug/L		115	71 - 123
2-Butanone (MEK)	50.0	60.6		ug/L		121	71 - 123
1,2-Dibromoethane (EDB)	50.0	52.2		ug/L		104	85 - 115
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	85 - 115
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	85 - 115
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	85 - 115
Acetone	50.0	48.5		ug/L		97	51 - 140
Benzene	50.0	50.2		ug/L		100	85 - 115
1,1-Dichloroethane	50.0	50.4		ug/L		101	85 - 115
Bromodichloromethane	50.0	52.5		ug/L		105	85 - 117
1,2-Dichloroethane	50.0	50.6		ug/L		101	79 - 122
Bromoform	50.0	44.3		ug/L		89	85 - 115
Bromomethane	50.0	50.2		ug/L		100	70 - 135
Carbon disulfide	50.0	48.9		ug/L		98	85 - 123
1,1-Dichloroethene	50.0	47.8		ug/L		96	85 - 118
Carbon tetrachloride	50.0	48.2		ug/L		96	85 - 118
1,2-Dichloropropane	50.0	53.2		ug/L		106	85 - 115
Chlorobenzene	50.0	52.5		ug/L		105	85 - 115
Chloroethane	50.0	59.0		ug/L		118	75 - 125
Chloroform	50.0	47.7		ug/L		95	85 - 115
Chloromethane	50.0	49.1		ug/L		98	73 - 132
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	85 - 115
2-Hexanone	50.0	59.4		ug/L		119	66 - 121
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	85 - 127
Cyclohexane	50.0	49.5		ug/L		99	73 - 115
Dibromochloromethane	50.0	51.3		ug/L		103	85 - 115
Dichlorodifluoromethane	50.0	45.2		ug/L		90	62 - 115
4-Methyl-2-pentanone (MIBK)	50.0	58.0		ug/L		116	74 - 123
Ethylbenzene	50.0	46.9		ug/L		94	85 - 115
Isopropylbenzene	50.0	49.3		ug/L		99	85 - 124
Methyl acetate	250	292		ug/L		117	73 - 135
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	84 - 115
Methyl tert-butyl ether	50.0	52.7		ug/L		105	73 - 115
Methylcyclohexane	50.0	51.9		ug/L		104	85 - 134

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-62292/4-A
Matrix: Water
Analysis Batch: 62292

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	49.2		ug/L		98	84 - 115
1,2,4-Trichlorobenzene	50.0	46.5		ug/L		93	75 - 124
1,1,1-Trichloroethane	50.0	47.1		ug/L		94	85 - 115
1,1,2-Trichloroethane	50.0	55.6		ug/L		111	85 - 115
Styrene	50.0	51.8		ug/L		104	85 - 115
Tetrachloroethene	50.0	49.9		ug/L		100	85 - 115
Toluene	50.0	50.4		ug/L		101	85 - 115
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	85 - 115
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	85 - 115
o-Xylene	50.0	49.3		ug/L		99	85 - 115
trans-1,3-Dichloropropene	50.0	54.0		ug/L		108	85 - 123
Trichloroethene	50.0	49.4		ug/L		99	85 - 115
Trichlorofluoromethane	50.0	48.1		ug/L		96	85 - 116
Vinyl chloride	50.0	49.7		ug/L		99	68 - 133
Xylenes, Total	100	99.6		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*82 - 121*
1,2-Dichloroethane-d4 (Surr)	*105*		*82 - 132*
Toluene-d8 (Surr)	*102*		*85 - 115*
Dibromofluoromethane (Surr)	*103*		*85 - 119*

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 62292

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	90		50.0	142		ug/L		105	38 - 150
Benzene	57		50.0	108		ug/L		102	85 - 115
Bromodichloromethane	ND		50.0	50.5		ug/L		101	56 - 119
Bromoform	ND		50.0	42.8		ug/L		86	84 - 116
Bromomethane	ND		50.0	60.0		ug/L		120	70 - 135
2-Butanone (MEK)	82		50.0	135		ug/L		105	73 - 133
Carbon disulfide	ND		50.0	50.1		ug/L		100	85 - 127
Carbon tetrachloride	ND		50.0	48.6		ug/L		97	85 - 121
Chlorobenzene	42		50.0	94.4		ug/L		104	85 - 115
Dibromochloromethane	ND		50.0	45.1		ug/L		90	85 - 115
Chloroethane	ND		50.0	82.0	F	ug/L		164	73 - 123
Chloroform	ND		50.0	49.7		ug/L		99	85 - 115
Chloromethane	ND		50.0	51.2		ug/L		102	67 - 130
Cyclohexane	ND		50.0	53.5		ug/L		107	73 - 115
1,2-Dibromo-3-Chloropropane	ND		50.0	45.3		ug/L		91	71 - 123
1,2-Dibromoethane (EDB)	ND		50.0	48.0		ug/L		96	85 - 115
1,2-Dichlorobenzene	ND		50.0	50.0		ug/L		100	84 - 115
1,3-Dichlorobenzene	ND		50.0	52.4		ug/L		105	84 - 115
1,4-Dichlorobenzene	ND		50.0	51.6		ug/L		103	85 - 115
Dichlorodifluoromethane	ND		50.0	46.5		ug/L		93	85 - 119
1,1-Dichloroethane	ND		50.0	53.8		ug/L		108	85 - 115

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 62292

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		50.0	49.6		ug/L		99	80 - 125
cis-1,2-Dichloroethene	2.5	J	50.0	53.6		ug/L		102	80 - 116
trans-1,2-Dichloroethene	ND		50.0	48.4		ug/L		97	84 - 115
1,1-Dichloroethene	ND		50.0	47.6		ug/L		95	85 - 118
1,2-Dichloropropane	ND		50.0	56.0		ug/L		112	85 - 117
cis-1,3-Dichloropropene	ND		50.0	53.9		ug/L		108	85 - 124
trans-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	85 - 127
Ethylbenzene	2.8	J	50.0	51.8		ug/L		98	85 - 115
2-Hexanone	ND		50.0	52.9		ug/L		106	66 - 121
Isopropylbenzene	1.4	J	50.0	53.9		ug/L		105	85 - 124
Methyl acetate	ND		250	255		ug/L		102	49 - 150
Methylcyclohexane	ND		50.0	56.2		ug/L		112	85 - 137
Methylene Chloride	ND		50.0	50.3		ug/L		101	85 - 115
4-Methyl-2-pentanone (MIBK)	32		50.0	95.4		ug/L		126	77 - 134
Methyl tert-butyl ether	1.4	J	50.0	51.8		ug/L		101	75 - 115
Styrene	ND		50.0	56.5		ug/L		113	85 - 115
1,1,2,2-Tetrachloroethane	ND		50.0	50.1		ug/L		100	85 - 116
Tetrachloroethene	ND		50.0	49.8		ug/L		100	85 - 118
Toluene	10		50.0	63.4		ug/L		106	85 - 118
1,2,4-Trichlorobenzene	ND		50.0	39.7		ug/L		79	75 - 124
1,1,1-Trichloroethane	ND		50.0	48.5		ug/L		97	85 - 118
1,1,2-Trichloroethane	ND		50.0	55.9		ug/L		112	85 - 115
Trichloroethene	ND		50.0	51.7		ug/L		103	85 - 115
Trichlorofluoromethane	ND		50.0	47.6		ug/L		95	85 - 115
Vinyl chloride	ND		50.0	57.2		ug/L		114	63 - 129
m-Xylene & p-Xylene	3.1	J	50.0	57.0		ug/L		108	85 - 115
o-Xylene	1.7	J	50.0	57.6		ug/L		112	85 - 118
Xylenes, Total	4.8	J	100	115		ug/L		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*82 - 121*
1,2-Dichloroethane-d4 (Surr)	*99*		*82 - 132*
Toluene-d8 (Surr)	*103*		*85 - 115*
Dibromofluoromethane (Surr)	*102*		*85 - 119*

Lab Sample ID: 160-3052-2 MSD
Matrix: Water
Analysis Batch: 62292

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	90		50.0	139		ug/L		99	38 - 150	2	20
Benzene	57		50.0	108		ug/L		102	85 - 115	0	20
Bromodichloromethane	ND		50.0	52.5		ug/L		105	56 - 119	4	20
Bromoform	ND		50.0	42.6		ug/L		85	84 - 116	1	20
Bromomethane	ND		50.0	55.0		ug/L		110	70 - 135	9	20
2-Butanone (MEK)	82		50.0	140		ug/L		115	73 - 133	4	20
Carbon disulfide	ND		50.0	50.1		ug/L		100	85 - 127	0	20
Carbon tetrachloride	ND		50.0	48.9		ug/L		98	85 - 121	1	20

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-3052-2 MSD
Matrix: Water
Analysis Batch: 62292

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	42		50.0	95.0		ug/L		105	85 - 115	1	20
Dibromochloromethane	ND		50.0	47.3		ug/L		95	85 - 115	5	20
Chloroethane	ND		50.0	71.2	F	ug/L		142	73 - 123	14	20
Chloroform	ND		50.0	50.2		ug/L		100	85 - 115	1	20
Chloromethane	ND		50.0	50.1		ug/L		100	67 - 130	2	20
Cyclohexane	ND		50.0	53.5		ug/L		107	73 - 115	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	46.4		ug/L		93	71 - 123	2	20
1,2-Dibromoethane (EDB)	ND		50.0	48.8		ug/L		98	85 - 115	2	20
1,2-Dichlorobenzene	ND		50.0	51.5		ug/L		103	84 - 115	3	20
1,3-Dichlorobenzene	ND		50.0	53.6		ug/L		107	84 - 115	2	20
1,4-Dichlorobenzene	ND		50.0	52.7		ug/L		105	85 - 115	2	20
Dichlorodifluoromethane	ND		50.0	46.4		ug/L		93	85 - 119	0	20
1,1-Dichloroethane	ND		50.0	53.1		ug/L		106	85 - 115	1	20
1,2-Dichloroethane	ND		50.0	49.5		ug/L		99	80 - 125	0	20
cis-1,2-Dichloroethene	2.5	J	50.0	54.1		ug/L		103	80 - 116	1	20
trans-1,2-Dichloroethene	ND		50.0	49.4		ug/L		99	84 - 115	2	20
1,1-Dichloroethene	ND		50.0	48.6		ug/L		97	85 - 118	2	20
1,2-Dichloropropane	ND		50.0	55.7		ug/L		111	85 - 117	0	20
cis-1,3-Dichloropropene	ND		50.0	54.9		ug/L		110	85 - 124	2	20
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	85 - 127	3	20
Ethylbenzene	2.8	J	50.0	52.5		ug/L		99	85 - 115	1	20
2-Hexanone	ND		50.0	53.2		ug/L		106	66 - 121	1	20
Isopropylbenzene	1.4	J	50.0	54.8		ug/L		107	85 - 124	2	20
Methyl acetate	ND		250	255		ug/L		102	49 - 150	0	20
Methylcyclohexane	ND		50.0	54.7		ug/L		109	85 - 137	3	20
Methylene Chloride	ND		50.0	51.1		ug/L		102	85 - 115	2	20
4-Methyl-2-pentanone (MIBK)	32		50.0	93.1		ug/L		121	77 - 134	2	20
Methyl tert-butyl ether	1.4	J	50.0	52.0		ug/L		101	75 - 115	0	20
Styrene	ND		50.0	56.1		ug/L		112	85 - 115	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	48.9		ug/L		98	85 - 116	2	20
Tetrachloroethene	ND		50.0	47.9		ug/L		96	85 - 118	4	20
Toluene	10		50.0	61.7		ug/L		103	85 - 118	3	20
1,2,4-Trichlorobenzene	ND		50.0	44.8		ug/L		90	75 - 124	12	20
1,1,1-Trichloroethane	ND		50.0	49.9		ug/L		100	85 - 118	3	20
1,1,2-Trichloroethane	ND		50.0	56.4		ug/L		113	85 - 115	1	20
Trichloroethene	ND		50.0	52.2		ug/L		104	85 - 115	1	20
Trichlorofluoromethane	ND		50.0	49.4		ug/L		99	85 - 115	4	20
Vinyl chloride	ND		50.0	53.5		ug/L		107	63 - 129	7	20
m-Xylene & p-Xylene	3.1	J	50.0	57.5		ug/L		109	85 - 115	1	20
o-Xylene	1.7	J	50.0	57.9		ug/L		112	85 - 118	1	20
Xylenes, Total	4.8	J	100	115		ug/L		111	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*82 - 121*
1,2-Dichloroethane-d4 (Surr)	*104*		*82 - 132*
Toluene-d8 (Surr)	*103*		*85 - 115*
Dibromofluoromethane (Surr)	*104*		*85 - 119*

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Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-62879/1-A
Matrix: Water
Analysis Batch: 63744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/29/13 20:32	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Barium	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/29/13 20:32	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/29/13 20:32	1
Calcium	ND		1000	110	ug/L		07/25/13 11:37	07/29/13 20:32	1
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/29/13 20:32	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/29/13 20:32	1
Iron	ND		100	28	ug/L		07/25/13 11:37	07/29/13 20:32	1
Lead	ND		10	1.5	ug/L		07/25/13 11:37	07/29/13 20:32	1
Magnesium	ND		1000	130	ug/L		07/25/13 11:37	07/29/13 20:32	1
Manganese	15.7		15	3.3	ug/L		07/25/13 11:37	07/29/13 20:32	1
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/29/13 20:32	1
Potassium	ND		5000	1700	ug/L		07/25/13 11:37	07/29/13 20:32	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/29/13 20:32	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Sodium	ND		1000	320	ug/L		07/25/13 11:37	07/29/13 20:32	1
Thallium	ND	^	20	4.0	ug/L		07/25/13 11:37	07/29/13 20:32	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/29/13 20:32	1
Zinc	5.20	J	20	5.2	ug/L		07/25/13 11:37	07/29/13 20:32	1

Lab Sample ID: MB 160-62879/1-A
Matrix: Water
Analysis Batch: 63920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:37	07/30/13 15:40	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:37	07/30/13 15:40	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:37	07/30/13 15:40	1
Barium	ND		50	4.0	ug/L		07/25/13 11:37	07/30/13 15:40	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:37	07/30/13 15:40	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:37	07/30/13 15:40	1
Calcium	ND		1000	110	ug/L		07/25/13 11:37	07/30/13 15:40	1
Chromium	ND		10	3.1	ug/L		07/25/13 11:37	07/30/13 15:40	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:37	07/30/13 15:40	1
Copper	ND		25	4.6	ug/L		07/25/13 11:37	07/30/13 15:40	1
Iron	ND		100	28	ug/L		07/25/13 11:37	07/30/13 15:40	1
Lead	ND		10	1.5	ug/L		07/25/13 11:37	07/30/13 15:40	1
Magnesium	ND		1000	130	ug/L		07/25/13 11:37	07/30/13 15:40	1
Manganese	11.4	J	15	3.3	ug/L		07/25/13 11:37	07/30/13 15:40	1
Nickel	ND		40	13	ug/L		07/25/13 11:37	07/30/13 15:40	1
Potassium	ND		5000	1700	ug/L		07/25/13 11:37	07/30/13 15:40	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:37	07/30/13 15:40	1
Silver	ND		10	6.0	ug/L		07/25/13 11:37	07/30/13 15:40	1
Sodium	ND		1000	320	ug/L		07/25/13 11:37	07/30/13 15:40	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:37	07/30/13 15:40	1

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-62879/1-A
Matrix: Water
Analysis Batch: 63920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		50	4.1	ug/L		07/25/13 11:37	07/30/13 15:40	1
Zinc	7.40	J	20	5.2	ug/L		07/25/13 11:37	07/30/13 15:40	1

Lab Sample ID: LCS 160-62879/2-A
Matrix: Water
Analysis Batch: 63744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9890		ug/L		99	80 - 120
Antimony	500	501		ug/L		100	80 - 120
Arsenic	1000	969		ug/L		97	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1020		ug/L		102	80 - 120
Cadmium	1000	990		ug/L		99	80 - 120
Calcium	10000	9900		ug/L		99	80 - 120
Chromium	1000	987		ug/L		99	80 - 120
Cobalt	1000	1010		ug/L		101	80 - 120
Copper	1000	1020		ug/L		102	80 - 120
Iron	10000	10200		ug/L		102	80 - 120
Lead	1000	1010		ug/L		101	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120
Manganese	1000	1030		ug/L		103	80 - 120
Nickel	1000	1000		ug/L		100	80 - 120
Potassium	10000	9950		ug/L		99	80 - 120
Selenium	1000	1010		ug/L		101	80 - 120
Silver	100	83.5		ug/L		84	80 - 120
Sodium	10000	9940		ug/L		99	80 - 120
Thallium	200	220	^	ug/L		110	80 - 120
Vanadium	1000	1000		ug/L		100	80 - 120
Zinc	1000	989		ug/L		99	80 - 120

Lab Sample ID: MB 160-62880/1-A
Matrix: Water
Analysis Batch: 63280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	80	ug/L		07/25/13 11:42	07/26/13 17:02	1
Antimony	ND		10	4.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Arsenic	ND		10	2.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Barium	ND		50	4.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Beryllium	ND		5.0	0.61	ug/L		07/25/13 11:42	07/26/13 17:02	1
Cadmium	ND		5.0	0.91	ug/L		07/25/13 11:42	07/26/13 17:02	1
Calcium	ND		1000	110	ug/L		07/25/13 11:42	07/26/13 17:02	1
Chromium	ND		10	3.1	ug/L		07/25/13 11:42	07/26/13 17:02	1
Cobalt	ND		50	4.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Copper	ND		25	4.6	ug/L		07/25/13 11:42	07/26/13 17:02	1
Iron	ND		100	28	ug/L		07/25/13 11:42	07/26/13 17:02	1
Lead	ND		10	1.5	ug/L		07/25/13 11:42	07/26/13 17:02	1
Magnesium	ND		1000	130	ug/L		07/25/13 11:42	07/26/13 17:02	1

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-62880/1-A
Matrix: Water
Analysis Batch: 63280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		15	3.3	ug/L		07/25/13 11:42	07/26/13 17:02	1
Nickel	ND		40	13	ug/L		07/25/13 11:42	07/26/13 17:02	1
Potassium	ND		5000	1700	ug/L		07/25/13 11:42	07/26/13 17:02	1
Selenium	ND		15	2.7	ug/L		07/25/13 11:42	07/26/13 17:02	1
Silver	ND		10	6.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Sodium	ND		1000	320	ug/L		07/25/13 11:42	07/26/13 17:02	1
Thallium	ND		20	4.0	ug/L		07/25/13 11:42	07/26/13 17:02	1
Vanadium	ND		50	4.1	ug/L		07/25/13 11:42	07/26/13 17:02	1
Zinc	ND		20	5.2	ug/L		07/25/13 11:42	07/26/13 17:02	1

Lab Sample ID: LCS 160-62880/2-A
Matrix: Water
Analysis Batch: 63280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10100		ug/L		101	80 - 120
Antimony	500	528		ug/L		106	80 - 120
Arsenic	1000	1040		ug/L		104	80 - 120
Barium	1000	1050		ug/L		105	80 - 120
Beryllium	1000	1040		ug/L		104	80 - 120
Cadmium	1000	1050		ug/L		105	80 - 120
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1080		ug/L		108	80 - 120
Cobalt	1000	1090		ug/L		109	80 - 120
Copper	1000	1060		ug/L		106	80 - 120
Iron	10000	10400		ug/L		104	80 - 120
Lead	1000	1100		ug/L		110	80 - 120
Magnesium	10000	10400		ug/L		104	80 - 120
Manganese	1000	1050		ug/L		105	80 - 120
Nickel	1000	1090		ug/L		109	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	1000	1060		ug/L		106	80 - 120
Silver	100	88.7		ug/L		89	80 - 120
Sodium	10000	10200		ug/L		102	80 - 120
Thallium	200	233		ug/L		117	80 - 120
Vanadium	1000	1020		ug/L		102	80 - 120
Zinc	1000	1060		ug/L		106	80 - 120

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 63280

Client Sample ID: I-73
Prep Type: Total/NA
Prep Batch: 62880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9600		20000	ND	F	ug/L		0	75 - 125
Antimony	14	J	1000	ND	F	ug/L		0	75 - 125
Arsenic	130		2000	ND	F	ug/L		0	75 - 125
Barium	3100		2000	ND	F	ug/L		0	75 - 125
Beryllium	ND		2000	ND	F	ug/L		0	75 - 125
Cadmium	ND		2000	ND	F	ug/L		0	75 - 125

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-3052-2 MS | **Client Sample ID: I-73**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 63280 | **Prep Batch: 62880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	730000	E	20000	ND	4	ug/L		0	75 - 125
Chromium	12	J	2000	ND	F	ug/L		0	75 - 125
Cobalt	87	J	2000	ND	F	ug/L		0	75 - 125
Copper	32	J	2000	ND	F	ug/L		0	75 - 125
Iron	150000		20000	ND	4	ug/L		0	75 - 125
Lead	58		2000	ND	F	ug/L		0	75 - 125
Magnesium	260000	E	20000	ND	4	ug/L		0	75 - 125
Manganese	3700		2000	ND	F	ug/L		0	75 - 125
Nickel	360		2000	ND	F	ug/L		0	75 - 125
Potassium	22000		20000	ND	F	ug/L		0	75 - 125
Selenium	15	J	2000	ND	F	ug/L		0	75 - 125
Silver	ND		200	ND	F	ug/L		0	75 - 125
Sodium	690000	E	20000	ND	4	ug/L		0	75 - 125
Thallium	ND		400	ND	F	ug/L		0	75 - 125
Vanadium	25	J	2000	ND	F	ug/L		0	75 - 125
Zinc	4700		2000	ND	F	ug/L		0	75 - 125

Lab Sample ID: 160-3052-2 MS | **Client Sample ID: I-73**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 63280 | **Prep Batch: 62880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9800		20000	32300		ug/L		112	75 - 125
Antimony	ND		1000	1000		ug/L		100	75 - 125
Arsenic	110	J	2000	1960		ug/L		92	75 - 125
Barium	3100		2000	4640		ug/L		75	75 - 125
Beryllium	ND		2000	1840		ug/L		92	75 - 125
Cadmium	ND		2000	1850		ug/L		93	75 - 125
Calcium	1000000	E	20000	925000	4	ug/L		-480	75 - 125
Chromium	100	J	2000	1910		ug/L		91	75 - 125
Cobalt	190	J	2000	2010		ug/L		91	75 - 125
Copper	ND		2000	1870		ug/L		93	75 - 125
Iron	150000		20000	149000	4	ug/L		-11	75 - 125
Lead	88	J	2000	1970		ug/L		94	75 - 125
Magnesium	270000		20000	252000	4	ug/L		-89	75 - 125
Manganese	3800		2000	5120	F	ug/L		66	75 - 125
Nickel	420	J	2000	2260		ug/L		92	75 - 125
Potassium	ND		20000	38000	J	ug/L		NC	75 - 125
Selenium	ND		2000	1900		ug/L		95	75 - 125
Silver	ND		200	146	J F	ug/L		73	75 - 125
Sodium	690000		20000	620000	4	ug/L		-342	75 - 125
Thallium	ND		400	428		ug/L		107	75 - 125
Vanadium	ND		2000	1880		ug/L		94	75 - 125
Zinc	5100		2000	6410	F	ug/L		63	75 - 125

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 63435

Client Sample ID: I-73
Prep Type: Total/NA
Prep Batch: 62880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	1200000		20000	1180000	4	ug/L		-70	75 - 125

Lab Sample ID: 160-3052-2 MSD
Matrix: Water
Analysis Batch: 63280

Client Sample ID: I-73
Prep Type: Total/NA
Prep Batch: 62880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9600		20000	35500	F	ug/L		129	75 - 125	NC	20
Antimony	14	J	1000	1010		ug/L		100	75 - 125	NC	20
Arsenic	130		2000	2140		ug/L		101	75 - 125	NC	20
Barium	3100		2000	5110		ug/L		99	75 - 125	NC	20
Beryllium	ND		2000	2040		ug/L		102	75 - 125	NC	20
Cadmium	ND		2000	1980		ug/L		99	75 - 125	NC	20
Calcium	730000	E	20000	762000	E 4	ug/L		138	75 - 125	NC	20
Chromium	12	J	2000	1920		ug/L		95	75 - 125	NC	20
Cobalt	87	J	2000	1960		ug/L		94	75 - 125	NC	20
Copper	32	J	2000	1980		ug/L		98	75 - 125	NC	20
Iron	150000		20000	162000	4	ug/L		72	75 - 125	NC	20
Lead	58		2000	1900		ug/L		92	75 - 125	NC	20
Magnesium	260000	E	20000	278000	E 4	ug/L		69	75 - 125	NC	20
Manganese	3700		2000	5530		ug/L		92	75 - 125	NC	20
Nickel	360		2000	2220		ug/L		93	75 - 125	NC	20
Potassium	22000		20000	43800		ug/L		109	75 - 125	NC	20
Selenium	15	J	2000	2060		ug/L		102	75 - 125	NC	20
Silver	ND		200	170		ug/L		85	75 - 125	NC	20
Sodium	690000	E	20000	686000	E 4	ug/L		-45	75 - 125	NC	20
Thallium	ND		400	371		ug/L		93	75 - 125	NC	20
Vanadium	25	J	2000	2000		ug/L		99	75 - 125	NC	20
Zinc	4700		2000	6770		ug/L		103	75 - 125	NC	20

Lab Sample ID: 160-3052-2 MSD
Matrix: Water
Analysis Batch: 63280

Client Sample ID: I-73
Prep Type: Total/NA
Prep Batch: 62880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9800		20000	28800		ug/L		95	75 - 125	12	20
Antimony	ND		1000	896		ug/L		90	75 - 125	11	20
Arsenic	110	J	2000	1780		ug/L		83	75 - 125	10	20
Barium	3100		2000	4190	F	ug/L		53	75 - 125	10	20
Beryllium	ND		2000	1680		ug/L		84	75 - 125	9	20
Cadmium	ND		2000	1700		ug/L		85	75 - 125	9	20
Calcium	1000000	E	20000	845000	4	ug/L		-880	75 - 125	9	20
Chromium	100	J	2000	1770		ug/L		84	75 - 125	8	20
Cobalt	190	J	2000	1810		ug/L		81	75 - 125	10	20
Copper	ND		2000	1710		ug/L		85	75 - 125	9	20
Iron	150000		20000	135000	4	ug/L		-84	75 - 125	10	20
Lead	88	J	2000	1820		ug/L		87	75 - 125	8	20
Magnesium	270000		20000	228000	4	ug/L		-210	75 - 125	10	20

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 63280 — **Prep Batch: 62880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	3800		2000	4650	F	ug/L		42	75 - 125	10	20
Nickel	420	J	2000	2080		ug/L		83	75 - 125	8	20
Potassium	ND		20000	34200	J	ug/L		NC	75 - 125	11	20
Selenium	ND		2000	1740		ug/L		87	75 - 125	8	20
Silver	ND		200	142	J F	ug/L		71	75 - 125	3	20
Sodium	690000		20000	557000	4	ug/L		-657	75 - 125	11	20
Thallium	ND		400	376	J	ug/L		94	75 - 125	13	20
Vanadium	ND		2000	1650		ug/L		82	75 - 125	13	20
Zinc	5100		2000	5850	F	ug/L		36	75 - 125	9	20

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 63435 — **Prep Batch: 62880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	1200000		20000	1140000	4	ug/L		-265	75 - 125	3	20

Lab Sample ID: 160-3052-2 MS — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 63744 — **Prep Batch: 62879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		20000	OVER	E	ppm			75 - 125
Antimony	13	J	1000	948		ug/L		94	75 - 125
Arsenic	130		2000	1960		ug/L		92	75 - 125
Barium	3100		2000	OVER	E	ppm			75 - 125
Beryllium	ND		2000	OVER	E	ppm			75 - 125
Cadmium	ND		2000	1830		ug/L		92	75 - 125
Calcium	720000	E	20000	682000	E 4	ug/L		-180	75 - 125
Chromium	ND		2000	1780		ug/L		89	75 - 125
Cobalt	82	J	2000	1760		ug/L		84	75 - 125
Copper	ND		2000	1830		ug/L		91	75 - 125
Iron	140000		20000	OVER	E 4	ppm			75 - 125
Lead	10	J	2000	1650		ug/L		82	75 - 125
Magnesium	270000	E	20000	OVER	E 4	ppm			75 - 125
Manganese	3600	B	2000	OVER	E	ppm			75 - 125
Nickel	340		2000	1970		ug/L		82	75 - 125
Potassium	20000		20000	OVER	E	ppm			75 - 125
Selenium	11	J	2000	1890		ug/L		94	75 - 125
Silver	ND		200	160		ug/L		80	75 - 125
Sodium	700000	E	20000	OVER	E 4	ppm			75 - 125
Thallium	ND	^	400	333	^	ug/L		83	75 - 125
Vanadium	12	J	2000	1850		ug/L		92	75 - 125
Zinc	1100	B	2000	2880		ug/L		87	75 - 125

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 63744

Client Sample ID: I-73
Prep Type: Dissolved
Prep Batch: 62879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		20000	20300		ug/L		102	75 - 125
Antimony	ND		1000	1090		ug/L		109	75 - 125
Arsenic	130	J	2000	2130		ug/L		100	75 - 125
Barium	3200		2000	5100		ug/L		98	75 - 125
Beryllium	ND		2000	2070		ug/L		104	75 - 125
Cadmium	ND		2000	2040		ug/L		102	75 - 125
Calcium	1000000		20000	1000000	E 4	ug/L		22	75 - 125
Chromium	ND		2000	2040		ug/L		102	75 - 125
Cobalt	190	J	2000	2150		ug/L		98	75 - 125
Copper	ND		2000	2080		ug/L		104	75 - 125
Iron	140000		20000	156000	4	ug/L		77	75 - 125
Lead	38	J	2000	2080		ug/L		102	75 - 125
Magnesium	280000		20000	288000	4	ug/L		45	75 - 125
Manganese	3800	B	2000	5730		ug/L		95	75 - 125
Nickel	390	J	2000	2390		ug/L		100	75 - 125
Potassium	ND		20000	39200	J	ug/L		NC	75 - 125
Selenium	ND		2000	2090		ug/L		104	75 - 125
Silver	ND		200	168	J	ug/L		84	75 - 125
Sodium	700000		20000	694000	4	ug/L		-50	75 - 125
Thallium	ND	^	400	452	^	ug/L		113	75 - 125
Vanadium	ND		2000	2080		ug/L		104	75 - 125
Zinc	1200	B	2000	3200		ug/L		99	75 - 125

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 63744

Client Sample ID: I-73
Prep Type: Dissolved
Prep Batch: 62879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	1100000		20000	1110000	4	ug/L		-15	75 - 125

Lab Sample ID: 160-3052-2 MSD
Matrix: Water
Analysis Batch: 63744

Client Sample ID: I-73
Prep Type: Dissolved
Prep Batch: 62879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		20000	19900		ug/L		100	75 - 125	NC	20
Antimony	13	J	1000	963		ug/L		95	75 - 125	2	20
Arsenic	130		2000	2010		ug/L		94	75 - 125	2	20
Barium	3100		2000	5120		ug/L		100	75 - 125	NC	20
Beryllium	ND		2000	2010		ug/L		100	75 - 125	NC	20
Cadmium	ND		2000	1860		ug/L		93	75 - 125	2	20
Calcium	720000	E	20000	711000	E 4	ug/L		-37	75 - 125	4	20
Chromium	ND		2000	1740		ug/L		87	75 - 125	2	20
Cobalt	82	J	2000	1790		ug/L		85	75 - 125	2	20
Copper	ND		2000	1860		ug/L		93	75 - 125	2	20
Iron	140000		20000	152000	4	ug/L		82	75 - 125	NC	20
Lead	10	J	2000	1680		ug/L		84	75 - 125	2	20
Magnesium	270000	E	20000	281000	E 4	ug/L		61	75 - 125	NC	20

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Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 63744 — **Prep Batch: 62879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	3600	B	2000	5480		ug/L		93	75 - 125	NC	20
Nickel	340		2000	2010		ug/L		84	75 - 125	2	20
Potassium	20000		20000	40800		ug/L		102	75 - 125	NC	20
Selenium	11	J	2000	1940		ug/L		97	75 - 125	3	20
Silver	ND		200	162		ug/L		81	75 - 125	2	20
Sodium	700000	E	20000	696000	E 4	ug/L		-22	75 - 125	NC	20
Thallium	ND	^	400	341	^	ug/L		85	75 - 125	2	20
Vanadium	12	J	2000	1980		ug/L		99	75 - 125	7	20
Zinc	1100	B	2000	2960		ug/L		90	75 - 125	3	20

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 63744 — **Prep Batch: 62879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		20000	20000		ug/L		100	75 - 125	1	20
Antimony	ND		1000	1110		ug/L		111	75 - 125	2	20
Arsenic	130	J	2000	2150		ug/L		101	75 - 125	1	20
Barium	3200		2000	5140		ug/L		99	75 - 125	1	20
Beryllium	ND		2000	2060		ug/L		103	75 - 125	1	20
Cadmium	ND		2000	2030		ug/L		102	75 - 125	0	20
Calcium	1000000		20000	1020000	E 4	ug/L		122	75 - 125	2	20
Chromium	ND		2000	2000		ug/L		100	75 - 125	2	20
Cobalt	190	J	2000	2200		ug/L		100	75 - 125	2	20
Copper	ND		2000	2060		ug/L		103	75 - 125	1	20
Iron	140000		20000	159000	4	ug/L		90	75 - 125	2	20
Lead	38	J	2000	2090		ug/L		103	75 - 125	0	20
Magnesium	280000		20000	292000	4	ug/L		63	75 - 125	1	20
Manganese	3800	B	2000	5780		ug/L		97	75 - 125	1	20
Nickel	390	J	2000	2400		ug/L		101	75 - 125	1	20
Potassium	ND		20000	39100	J	ug/L		NC	75 - 125	0	20
Selenium	ND		2000	2090		ug/L		105	75 - 125	0	20
Silver	ND		200	160	J	ug/L		80	75 - 125	5	20
Sodium	700000		20000	699000	4	ug/L		-25	75 - 125	1	20
Thallium	ND	^	400	450	^	ug/L		113	75 - 125	0	20
Vanadium	ND		2000	2060		ug/L		103	75 - 125	1	20
Zinc	1200	B	2000	3240		ug/L		101	75 - 125	1	20

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 63744 — **Prep Batch: 62879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	1100000		20000	1110000	4	ug/L		-30	75 - 125	0	20

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Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-62431/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62431**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:11	07/24/13 15:53	1

Lab Sample ID: LCS 160-62431/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62431**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.64		ug/L		113	80 - 120

Lab Sample ID: 160-3052-2 MS — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62431**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	1.84	F	ug/L		37	80 - 120

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62431**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	1.67	F	ug/L		33	80 - 120	10	20

Lab Sample ID: MB 160-62433/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62433**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		07/24/13 10:13	07/24/13 16:41	1

Lab Sample ID: LCS 160-62433/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62861 — **Prep Batch: 62433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.54		ug/L		111	80 - 120

Lab Sample ID: 160-3052-2 MS — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 62861 — **Prep Batch: 62433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	1.70	F	ug/L		34	80 - 120

Lab Sample ID: 160-3052-2 MSD — **Client Sample ID: I-73**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 62861 — **Prep Batch: 62433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	1.67	F	ug/L		33	80 - 120	2	20

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Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-62889/9
Matrix: Water
Analysis Batch: 62889

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			07/19/13 13:39	1
Chloride	ND		0.20	0.020	mg/L			07/19/13 13:39	1
Bromide	ND		0.25	0.025	mg/L			07/19/13 13:39	1
Sulfate	ND		0.50	0.050	mg/L			07/19/13 13:39	1

Lab Sample ID: LCS 160-62889/10
Matrix: Water
Analysis Batch: 62889

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.379		mg/L		95	90 - 110
Chloride	2.00	1.85		mg/L		92	90 - 110
Bromide	2.00	1.90		mg/L		95	90 - 110
Sulfate	8.00	7.53		mg/L		94	90 - 110

Lab Sample ID: 160-3052-4 MS
Matrix: Water
Analysis Batch: 62889

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.10		0.400	0.495		mg/L		97	90 - 110
Bromide	0.031	J	2.00	1.97		mg/L		97	90 - 110

Lab Sample ID: 160-3052-4 DU
Matrix: Water
Analysis Batch: 62889

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.10		0.104		mg/L		1	20
Bromide	0.031	J	0.0292	J	mg/L		4	20

Lab Sample ID: MB 160-62933/9
Matrix: Water
Analysis Batch: 62933

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			07/24/13 16:18	1

Lab Sample ID: LCS 160-62933/10
Matrix: Water
Analysis Batch: 62933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	4.04		mg/L		101	90 - 110

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Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-3052-4 MS
Matrix: Water
Analysis Batch: 62933

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iodide	ND		4.00	3.82		mg/L		95	90 - 110		

Lab Sample ID: 160-3052-4 DU
Matrix: Water
Analysis Batch: 62933

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Iodide	ND			ND		mg/L				NC	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-3052-4 MS
Matrix: Water
Analysis Batch: 62889

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride - DL	7.3		40.0	46.8		mg/L		99	90 - 110		
Sulfate - DL	65		80.0	142		mg/L		96	90 - 110		

Lab Sample ID: 160-3052-4 DU
Matrix: Water
Analysis Batch: 62889

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride - DL	7.3			7.31		mg/L				0.09	20
Sulfate - DL	65			64.8		mg/L				0.6	20

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-63730/1
Matrix: Water
Analysis Batch: 63730

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	0.250	J	1.3	0.14	mg/L			07/30/13 09:42	1

Lab Sample ID: LCS 160-63730/3
Matrix: Water
Analysis Batch: 63730

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	376		mg/L		94	90 - 110
Bicarbonate Alkalinity as CaCO3	400	376		mg/L		94	90 - 110
Carbonate Alkalinity as CaCO3	400	ND	*	mg/L		0	90 - 110
Hydroxide Alkalinity	400	ND	*	mg/L		0	90 - 110
Phenolphthalein Alkalinity	400	ND	*	mg/L		0	90 - 110

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Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: LLCS 160-63730/2
Matrix: Water
Analysis Batch: 63730

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	189		mg/L		95	90 - 110
Bicarbonate Alkalinity as CaCO3	200	189		mg/L		95	90 - 110
Carbonate Alkalinity as CaCO3	200	ND	*	mg/L		0	90 - 110
Hydroxide Alkalinity	200	ND	*	mg/L		0	90 - 110
Phenolphthalein Alkalinity	200	ND	*	mg/L		0	90 - 110

Lab Sample ID: 160-3052-2 MS
Matrix: Water
Analysis Batch: 63730

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2500	B	100	2560	4	mg/L		95	80 - 120
Bicarbonate Alkalinity as CaCO3	2500		100	2560	4	mg/L		95	80 - 120
Carbonate Alkalinity as CaCO3	ND		100	ND	F	mg/L		0	80 - 120
Hydroxide Alkalinity	ND		100	ND	F	mg/L		0	80 - 120
Phenolphthalein Alkalinity	ND		100	ND	F	mg/L		0	80 - 120

Lab Sample ID: 160-3052-2 DU
Matrix: Water
Analysis Batch: 63730

Client Sample ID: I-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	2500	B	2470		mg/L		0.2	20

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GC/MS VOA

Analysis Batch: 62292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-1	FIELD BLANK @ I-73	Total/NA	Water	8260C	
160-3052-2	I-73	Total/NA	Water	8260C	
160-3052-2 MS	I-73	Total/NA	Water	8260C	
160-3052-2 MSD	I-73	Total/NA	Water	8260C	
160-3052-3	PZ-103-SS	Total/NA	Water	8260C	
160-3052-4	PZ-102R-SS	Total/NA	Water	8260C	
160-3052-5	PZ-200-SS	Total/NA	Water	8260C	
160-3052-6	PZ-102-SS	Total/NA	Water	8260C	
160-3052-7	PZ-107-SS	Total/NA	Water	8260C	
160-3052-8	PZ-106-KS	Total/NA	Water	8260C	
160-3052-9	DUPLICATE 08	Total/NA	Water	8260C	
160-3052-10	TRIP BLANK	Total/NA	Water	8260C	
LCS 160-62292/4-A	Lab Control Sample	Total/NA	Water	8260C	
MB 160-62292/3-A	Method Blank	Total/NA	Water	8260C	

Metals

Prep Batch: 62431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	7470A	
160-3052-2 MS	I-73	Total/NA	Water	7470A	
160-3052-2 MSD	I-73	Total/NA	Water	7470A	
160-3052-3	PZ-103-SS	Total/NA	Water	7470A	
160-3052-4	PZ-102R-SS	Total/NA	Water	7470A	
160-3052-5	PZ-200-SS	Total/NA	Water	7470A	
160-3052-6	PZ-102-SS	Total/NA	Water	7470A	
160-3052-7	PZ-107-SS	Total/NA	Water	7470A	
160-3052-8	PZ-106-KS	Total/NA	Water	7470A	
160-3052-9	DUPLICATE 08	Total/NA	Water	7470A	
LCS 160-62431/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-62431/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 62433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Dissolved	Water	7470A	
160-3052-2 MS	I-73	Dissolved	Water	7470A	
160-3052-2 MSD	I-73	Dissolved	Water	7470A	
160-3052-3	PZ-103-SS	Dissolved	Water	7470A	
160-3052-4	PZ-102R-SS	Dissolved	Water	7470A	
160-3052-5	PZ-200-SS	Dissolved	Water	7470A	
160-3052-6	PZ-102-SS	Dissolved	Water	7470A	
160-3052-7	PZ-107-SS	Dissolved	Water	7470A	
160-3052-8	PZ-106-KS	Dissolved	Water	7470A	
160-3052-9	DUPLICATE 08	Dissolved	Water	7470A	
LCS 160-62433/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-62433/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 62861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Dissolved	Water	7470A	62433

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Metals (Continued)

Analysis Batch: 62861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	7470A	62431
160-3052-2 MS	I-73	Dissolved	Water	7470A	62433
160-3052-2 MS	I-73	Total/NA	Water	7470A	62431
160-3052-2 MSD	I-73	Dissolved	Water	7470A	62433
160-3052-2 MSD	I-73	Total/NA	Water	7470A	62431
160-3052-3	PZ-103-SS	Dissolved	Water	7470A	62433
160-3052-3	PZ-103-SS	Total/NA	Water	7470A	62431
160-3052-4	PZ-102R-SS	Dissolved	Water	7470A	62433
160-3052-4	PZ-102R-SS	Total/NA	Water	7470A	62431
160-3052-5	PZ-200-SS	Dissolved	Water	7470A	62433
160-3052-5	PZ-200-SS	Total/NA	Water	7470A	62431
160-3052-6	PZ-102-SS	Dissolved	Water	7470A	62433
160-3052-6	PZ-102-SS	Total/NA	Water	7470A	62431
160-3052-7	PZ-107-SS	Dissolved	Water	7470A	62433
160-3052-7	PZ-107-SS	Total/NA	Water	7470A	62431
160-3052-8	PZ-106-KS	Dissolved	Water	7470A	62433
160-3052-8	PZ-106-KS	Total/NA	Water	7470A	62431
160-3052-9	DUPLICATE 08	Dissolved	Water	7470A	62433
160-3052-9	DUPLICATE 08	Total/NA	Water	7470A	62431
LCS 160-62431/2-A	Lab Control Sample	Total/NA	Water	7470A	62431
LCS 160-62433/2-A	Lab Control Sample	Total/NA	Water	7470A	62433
MB 160-62431/1-A	Method Blank	Total/NA	Water	7470A	62431
MB 160-62433/1-A	Method Blank	Total/NA	Water	7470A	62433

Prep Batch: 62879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Dissolved	Water	3010A	
160-3052-2 MS	I-73	Dissolved	Water	3010A	
160-3052-2 MSD	I-73	Dissolved	Water	3010A	
160-3052-3	PZ-103-SS	Dissolved	Water	3010A	
160-3052-4	PZ-102R-SS	Dissolved	Water	3010A	
160-3052-5	PZ-200-SS	Dissolved	Water	3010A	
160-3052-6	PZ-102-SS	Dissolved	Water	3010A	
160-3052-7	PZ-107-SS	Dissolved	Water	3010A	
160-3052-8	PZ-106-KS	Dissolved	Water	3010A	
160-3052-9	DUPLICATE 08	Dissolved	Water	3010A	
LCS 160-62879/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-62879/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 62880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	3010A	
160-3052-2 MS	I-73	Total/NA	Water	3010A	
160-3052-2 MSD	I-73	Total/NA	Water	3010A	
160-3052-3	PZ-103-SS	Total/NA	Water	3010A	
160-3052-4	PZ-102R-SS	Total/NA	Water	3010A	
160-3052-5	PZ-200-SS	Total/NA	Water	3010A	
160-3052-6	PZ-102-SS	Total/NA	Water	3010A	
160-3052-7	PZ-107-SS	Total/NA	Water	3010A	
160-3052-8	PZ-106-KS	Total/NA	Water	3010A	
160-3052-9	DUPLICATE 08	Total/NA	Water	3010A	

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Metals (Continued)

Prep Batch: 62880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-62880/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-62880/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 63280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	6010C	62880
160-3052-2	I-73	Total/NA	Water	6010C	62880
160-3052-2 MS	I-73	Total/NA	Water	6010C	62880
160-3052-2 MS	I-73	Total/NA	Water	6010C	62880
160-3052-2 MSD	I-73	Total/NA	Water	6010C	62880
160-3052-2 MSD	I-73	Total/NA	Water	6010C	62880
160-3052-3	PZ-103-SS	Total/NA	Water	6010C	62880
160-3052-3	PZ-103-SS	Total/NA	Water	6010C	62880
160-3052-4	PZ-102R-SS	Total/NA	Water	6010C	62880
160-3052-4	PZ-102R-SS	Total/NA	Water	6010C	62880
160-3052-5	PZ-200-SS	Total/NA	Water	6010C	62880
160-3052-5	PZ-200-SS	Total/NA	Water	6010C	62880
160-3052-6	PZ-102-SS	Total/NA	Water	6010C	62880
160-3052-6	PZ-102-SS	Total/NA	Water	6010C	62880
160-3052-7	PZ-107-SS	Total/NA	Water	6010C	62880
160-3052-7	PZ-107-SS	Total/NA	Water	6010C	62880
160-3052-8	PZ-106-KS	Total/NA	Water	6010C	62880
160-3052-8	PZ-106-KS	Total/NA	Water	6010C	62880
160-3052-9	DUPLICATE 08	Total/NA	Water	6010C	62880
160-3052-9	DUPLICATE 08	Total/NA	Water	6010C	62880
LCS 160-62880/2-A	Lab Control Sample	Total/NA	Water	6010C	62880
MB 160-62880/1-A	Method Blank	Total/NA	Water	6010C	62880

Analysis Batch: 63435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	6010C	62880
160-3052-2 MS	I-73	Total/NA	Water	6010C	62880
160-3052-2 MSD	I-73	Total/NA	Water	6010C	62880

Analysis Batch: 63744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Dissolved	Water	6010C	62879
160-3052-2	I-73	Dissolved	Water	6010C	62879
160-3052-2	I-73	Dissolved	Water	6010C	62879
160-3052-2 MS	I-73	Dissolved	Water	6010C	62879
160-3052-2 MS	I-73	Dissolved	Water	6010C	62879
160-3052-2 MS	I-73	Dissolved	Water	6010C	62879
160-3052-2 MSD	I-73	Dissolved	Water	6010C	62879
160-3052-2 MSD	I-73	Dissolved	Water	6010C	62879
160-3052-2 MSD	I-73	Dissolved	Water	6010C	62879
160-3052-3	PZ-103-SS	Dissolved	Water	6010C	62879
160-3052-3	PZ-103-SS	Dissolved	Water	6010C	62879
160-3052-4	PZ-102R-SS	Dissolved	Water	6010C	62879
160-3052-4	PZ-102R-SS	Dissolved	Water	6010C	62879
160-3052-5	PZ-200-SS	Dissolved	Water	6010C	62879
160-3052-5	PZ-200-SS	Dissolved	Water	6010C	62879

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Metals (Continued)

Analysis Batch: 63744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-6	PZ-102-SS	Dissolved	Water	6010C	62879
160-3052-6	PZ-102-SS	Dissolved	Water	6010C	62879
160-3052-7	PZ-107-SS	Dissolved	Water	6010C	62879
160-3052-7	PZ-107-SS	Dissolved	Water	6010C	62879
160-3052-8	PZ-106-KS	Dissolved	Water	6010C	62879
160-3052-8	PZ-106-KS	Dissolved	Water	6010C	62879
160-3052-9	DUPLICATE 08	Dissolved	Water	6010C	62879
160-3052-9	DUPLICATE 08	Dissolved	Water	6010C	62879
LCS 160-62879/2-A	Lab Control Sample	Total/NA	Water	6010C	62879
MB 160-62879/1-A	Method Blank	Total/NA	Water	6010C	62879

Analysis Batch: 63920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-62879/1-A	Method Blank	Total/NA	Water	6010C	62879

General Chemistry

Analysis Batch: 62889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2 - DL	I-73	Total/NA	Water	300.0	
160-3052-2 - DL2	I-73	Total/NA	Water	300.0	
160-3052-2 - DL4	I-73	Total/NA	Water	300.0	
160-3052-3	PZ-103-SS	Total/NA	Water	300.0	
160-3052-3 - DL	PZ-103-SS	Total/NA	Water	300.0	
160-3052-4	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 - DL	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 DU	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 DU - DL	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 MS	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 MS - DL	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-5	PZ-200-SS	Total/NA	Water	300.0	
160-3052-5 - DL2	PZ-200-SS	Total/NA	Water	300.0	
160-3052-6	PZ-102-SS	Total/NA	Water	300.0	
160-3052-6 - DL	PZ-102-SS	Total/NA	Water	300.0	
160-3052-7	PZ-107-SS	Total/NA	Water	300.0	
160-3052-7 - DL	PZ-107-SS	Total/NA	Water	300.0	
160-3052-7 - DL2	PZ-107-SS	Total/NA	Water	300.0	
160-3052-8	PZ-106-KS	Total/NA	Water	300.0	
160-3052-8 - DL	PZ-106-KS	Total/NA	Water	300.0	
160-3052-9	DUPLICATE 08	Total/NA	Water	300.0	
160-3052-9 - DL	DUPLICATE 08	Total/NA	Water	300.0	
160-3052-9 - DL2	DUPLICATE 08	Total/NA	Water	300.0	
LCS 160-62889/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-62889/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 62933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	300.0	
160-3052-3	PZ-103-SS	Total/NA	Water	300.0	
160-3052-4	PZ-102R-SS	Total/NA	Water	300.0	

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General Chemistry (Continued)

Analysis Batch: 62933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-4 DU	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-4 MS	PZ-102R-SS	Total/NA	Water	300.0	
160-3052-5	PZ-200-SS	Total/NA	Water	300.0	
160-3052-6	PZ-102-SS	Total/NA	Water	300.0	
160-3052-7	PZ-107-SS	Total/NA	Water	300.0	
160-3052-8	PZ-106-KS	Total/NA	Water	300.0	
160-3052-9	DUPLICATE 08	Total/NA	Water	300.0	
LCS 160-62933/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-62933/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 63730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-3052-2	I-73	Total/NA	Water	310.1	
160-3052-2 DU	I-73	Total/NA	Water	310.1	
160-3052-2 MS	I-73	Total/NA	Water	310.1	
160-3052-3	PZ-103-SS	Total/NA	Water	310.1	
160-3052-4	PZ-102R-SS	Total/NA	Water	310.1	
160-3052-5	PZ-200-SS	Total/NA	Water	310.1	
160-3052-6	PZ-102-SS	Total/NA	Water	310.1	
160-3052-7	PZ-107-SS	Total/NA	Water	310.1	
160-3052-8	PZ-106-KS	Total/NA	Water	310.1	
160-3052-9	DUPLICATE 08	Total/NA	Water	310.1	
LCS 160-63730/3	Lab Control Sample	Total/NA	Water	310.1	
LLCS 160-63730/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-63730/1	Method Blank	Total/NA	Water	310.1	

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Surrogate Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-3052-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(82-132)	(82-121)	(85-119)	(85-115)
160-3052-1	FIELD BLANK @ I-73	101	90	101	103
160-3052-2	I-73	99	85	103	103
160-3052-2 MS	I-73	99	92	102	103
160-3052-2 MSD	I-73	104	100	104	103
160-3052-3	PZ-103-SS	109	94	103	108
160-3052-4	PZ-102R-SS	108	97	103	104
160-3052-5	PZ-200-SS	111	98	107	104
160-3052-6	PZ-102-SS	107	95	99	101
160-3052-7	PZ-107-SS	105	96	100	102
160-3052-8	PZ-106-KS	102	89	102	106
160-3052-9	DUPLICATE 08	106	88	105	107
160-3052-10	TRIP BLANK	101	88	99	99
LCS 160-62292/4-A	Lab Control Sample	105	96	103	102
MB 160-62292/3-A	Method Blank	104	94	101	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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