

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-150058-1
Client Project/Site: Rock Hill

For:
Hanson Aggregates PA LLC
7660 Imperial Way
Allentown, Pennsylvania 18195

Attn: Andrew Gutshall

Jill Miller

Authorized for release by:
2/19/2018 9:46:13 AM

Jill Miller, Project Manager II
(732)549-3900
jill.miller@testamericainc.com

LINKS

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TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Job ID: 460-150058-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-150058-1

Comments

No additional comments.

Receipt

The sample was received on 2/12/2018 10:03 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions

Method(s) SM 2540F: The following sample was received outside of holding time: NPDES001 (460-150058-1).

General Chemistry

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



Client Sample Results

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Client Sample ID: NPDES001

Lab Sample ID: 460-150058-1

Date Collected: 02/09/18 08:20

Matrix: Water

Date Received: 02/12/18 10:03

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.0		1.0	mg/L			02/15/18 12:09	1
Settleable Solids	ND	H	0.50	mL/L			02/14/18 01:59	1
pH	7.9	HF		SU			02/16/18 14:57	1

Lab Chronicle

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Client Sample ID: NPDES001

Lab Sample ID: 460-150058-1

Date Collected: 02/09/18 08:20

Matrix: Water

Date Received: 02/12/18 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	497495	02/15/18 12:09	LRW	TAL EDI
Total/NA	Analysis	SM 2540F		1	497021	02/14/18 01:59	KYN	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	497833	02/16/18 14:57	YAH	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Method Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 2540F	Solids, Settleable	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



Sample Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill

TestAmerica Job ID: 460-150058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-150058-1	NPDES001	Water	02/09/18 08:20	02/12/18 10:03

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

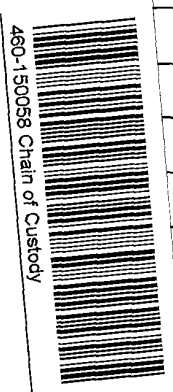
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777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice)			Andrew GUTSHALL			Samplers Name (Printed)			Andrew GUTSHALL			Site/Project Identification			Rock Hill																										
Company			HANSON AGGREGATES			P. O. #						State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: PA			Regulatory Program:																										
Address			7400 IMPERIAL WAY			Analysis Turnaround Time			Standard <input checked="" type="checkbox"/>			ANALYSIS REQUESTED (ENTER 'X' BELOW TO INDICATE REQUEST)			LAB USE ONLY																										
City			ALLENTOWN PA			Rush Charges Authorized For:			2 Week <input type="checkbox"/>			PH			Job No:																										
State			PA			1 Week <input type="checkbox"/>			TSS			Project No:			1500058																										
Phone			610-346-4819			Other <input type="checkbox"/>			SETTLABLE SOLIDS			Sample Numbers																													
Fax																																									
Sample Identification			NPDES 001			Date			2/9/18			Time			0820			Matrix			W			No. of Cont.			3														

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
6 = Other _____, 7 = Other _____



Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company	Date / Time	Received by	Company
1) [Signature]	HANSON	2/9/18 1000	[Signature]	TA-KOP	2/12/18	[Signature]	1003
2) [Signature]	TA-KOP	2/9/18 1800	[Signature]	TA-KOP	2/12/18	[Signature]	1003
3) [Signature]	TESTA	2/9/18	[Signature]	TESTA	2/12/18	[Signature]	1003
4) [Signature]	TESTA	2/9/18	[Signature]	TESTA	2/12/18	[Signature]	1003

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578) TAL-0016 (0814)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 150058

Number of Coolers: _____ IR Gun: _____

Cooler Temperatures

RAW, UN-CORRECTED		RAW, UN-CORRECTED		RAW, UN-CORRECTED		RAW, UN-CORRECTED		RAW, UN-CORRECTED		RAW, UN-CORRECTED		RAW, UN-CORRECTED	
Cooler #1	°C	Cooler #4	°C	Cooler #7	°C	Cooler #10	°C	Cooler #13	°C	Cooler #16	°C	Cooler #19	°C
Cooler #2	°C	Cooler #5	°C	Cooler #8	°C	Cooler #11	°C	Cooler #14	°C	Cooler #17	°C	Cooler #20	°C
Cooler #3	°C	Cooler #6	°C	Cooler #9	°C	Cooler #12	°C	Cooler #15	°C	Cooler #18	°C	Cooler #21	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals * (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or CAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014
Initials: JG Date: 2/12

Login Sample Receipt Checklist

Client: Hanson Aggregates PA LLC

Job Number: 460-150058-1

Login Number: 150058

List Number: 1

Creator: Gilmore, Julie L

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR kOP#1
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

