Client:	Haley & Aldrich, Inc.
Project Name:	Souadabscook East; Bridge Nos. 1431 and 5949
Project Location:	Hampden, Maine
GTX #:	309948
Test Date:	06/21/19
Tested By:	PK
Checked By:	emm

pH by AASHTO T 289

Boring ID	Sample ID	Depth, ft	Description	pH
BB-HSS-113/214	7D/4D	12.5-14.5 & 10-12	Moist, olive gray silt	6.39

Client:	Haley & Aldrich, Inc.
Project Name:	Souadabscook East; Bridge Nos. 1431 and 5949
Project Location:	Hampden, Maine
GTX #:	309948
Test Date:	06/24/19
Tested By:	PK
Checked By:	emm

Minimum Laboratory Soil Resistivity by AASHTO T 288

Boring ID	Sample ID	Depth, ft	Sample Description	Minimum Soil Resistivity, ohm-cm
BB-HSS-113/214	7D/4D	12.5-14.5 & 10-12 ft	Moist, olive gray silt	1,240

Comments: Test Equipment: Nilsson Model 400 Soil Resistance Meter, MC Miller Soil Box
Test conducted in standard laboratory atmosphere: 68-73 F

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GEOTESTING EXPRESS INCORPORATED
125 NAGOG PARK
ACTON MA 01720-3451
USA

Analysis No.	TS-A1908034
Report Date	26 June 2019
Date Sampled	19 June 2019
Date Received	24 June 2019
Where Sampled	Acton, MA USA
Sampled By	Client

This is to attest that we have examined: Soil for Project Name: Souadabscook East Bridge Nos. 1431 & 5949; Site Location: Hampden, ME; Job Number: GTX-309948

When examined to the applicable requirements of:

AASHTO T-291-13	"Standard Method of Test for Determining Water-Soluble Chloride Ion Content in Soil" Method B
AASHTO T-290-16	"Standard Method of Test for Determining Water-Soluble Sulfate Ion Content in Soil"

Results:

AASHTO T-291 – Chloride Method B

Sample		Results		Detection Limit
		ppm (mg/kg)	%[1]	
BB-HSS-113/214		42.	0.0042	10.
7D/4D	12.5-14.5' & 10-12'			

NOTE: [1]Percent by weight after drying.

AASHTO T-290 - Sulfate (soluble)

Sample		Results		Detection Limit
		ppm (mg/kg)	%[1]	
BB-HSS-113/214		14.	0.0014	10.
7D/4D	12.5-14.5' & 10-12'			

NOTE: [1]Percent by weight after drying.

END OF ANALYSIS

USEPA Laboratory ID UT00930

Merrill Gee P.E. – Engineer in Charge

Client:	Haley & Aldrich, Inc.
Project Name:	Souadabscook West; Bridge Nos.1433 and 5951
Project Location:	Hampden, Maine
GTX #:	309948
Test Date:	06/21/19
Tested By:	PK
Checked By:	emm

pH by AASHTO T 289

Boring ID	Sample ID	Depth, ft	Description	pH
201/203/204	3D/4D/4DA	4-7.5-7.8	Moist, dark gray silt	5.58

Client:	Haley & Aldrich, Inc.
Project Name:	Souadabscook West; Bridge Nos.1433 and 5951
Project Location:	Hampden, Maine
GTX #:	309946
Test Date:	06/24/19
Tested By:	PK
Checked By:	emm

Minimum Laboratory Soil Resistivity by AASHTO T 288

Boring ID	Sample ID	Depth, ft	Sample Description	Minimum Soil Resistivity, ohm-cm
201/203/204	3D/4D/4DA	4-7.5 & 7.8-8	Moist, dark gray silt	1,240

Comments: Test Equipment: Nilsson Model 400 Soil Resistance Meter, MC Miller Soil Box
Test conducted in standard laboratory atmosphere: 68-73 F

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GEOTESTING EXPRESS INCORPORATED
125 NAGOG PARK
ACTON MA 01720-3451
USA

Analysis No.	TS-A1908033
Report Date	26 June 2019
Date Sampled	19 June 2019
Date Received	24 June 2019
Where Sampled	Acton, MA USA
Sampled By	Client

This is to attest that we have examined: Soil for Project Name: Souadabscook West Bridge Nos. 1431 & 5951; Site Location: Hampden, ME; Job Number: GTX-309946

When examined to the applicable requirements of:

AASHTO T-291-13	"Standard Method of Test for Determining Water-Soluble Chloride Ion Content in Soil" Method B
AASHTO T-290-16	"Standard Method of Test for Determining Water-Soluble Sulfate Ion Content in Soil"

Results:

AASHTO T-291 – Chloride Method B

Sample		Results		Detection Limit
		ppm (mg/kg)	%[1]	
201/203/204		102.	0.0102	10.
3D/4D/4DA	4-7.5' & 7.8-8'			

NOTE: [1]Percent by weight after drying.

AASHTO T-290 - Sulfate (soluble)

Sample		Results		Detection Limit
		ppm (mg/kg)	%[1]	
201/203/204		<10.	<0.0010	10.
3D/4D/4DA	4-7.5' & 7.8-8'			

NOTE: [1]Percent by weight after drying.

END OF ANALYSIS

USEPA Laboratory ID UT00930

Merrill Gee P.E. – Engineer in Charge