



SOVEREIGN CONSULTING INC.

March 22, 2019

Jessica LaClair
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7016

**RE: Additions to the Supplement to the Pre-Design Investigation Data Summary
Report Amendment
Former Anaconda Plant (a.k.a. Harbor at Hastings Site) Site No. 3-60-022
Hastings-On-Hudson, New York**

Dear Ms. LaClair:

Please find enclosed on behalf of Atlantic Richfield Company four items that were inadvertently omitted from the *Supplement to the Pre-Design Investigation Data Summary Report Amendment* (Supplement) submitted February 22, 2019. These items include:

1. Certification of the report by a Professional Engineer licensed in New York State.
2. *Attachment B – Vibracore Reports 2018*. These are coring logs from the 2018 sediment sampling in Old Marina and Kinnally Cove, which was reported in the Supplement.
3. *Attachment D – Sediment Analytical Summary Table*. This summary table has been updated to include analytical results from the 2018 sediment sampling in Old Marina and Kinnally Cove.
4. *Appendix E - Data Usability Summary Reports* – This cover page indicates all PDI data validation is complete and reports are available upon request.

We apologize for this oversight and any inconvenience it may cause. If you have any questions or comments on this submittal, please feel free to contact Paul Johnson at 832-619-5825.

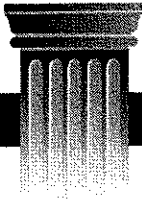
Sincerely,
Sovereign Consulting Inc.

Martha D. Gopal
Senior Project Scientist

Enclosure

cc: Maureen Schuck, New York State Department of Health
Francis Frobel, Hastings-On-Hudson
Mark Chertok, Hastings-On-Hudson
Karl Coplan, Pace/Riverkeeper
File

ecc: Paul Johnson, Operations Project Manager, BP
Jacquelyn Nealon, New York State Department of Health
Kevin Farrar, New York State Department of Environmental Conservation
John Armitage, New York State Department of Environmental Conservation
Benjamin Conlon, Esq. New York State Department of Environmental
Conservation, Office of General Counsel
Jim Lucari, BP
Michael Daneker, Arnold & Porter



SOVEREIGN CONSULTING INC.

4 March 2019
File No. BP055

Ms. Jessica LaClair
New York Department Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7014

**Subject: Supplement to the Pre-Design Investigation Data Summary Report Amendment
Former Anaconda Wire and Cable Company
Hastings-on-Hudson, New York**

Dear Ms. LaClair:

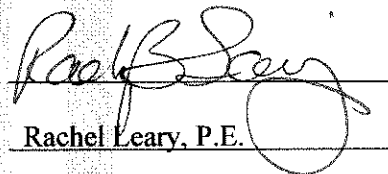
Sovereign Consulting Inc. (Sovereign) is pleased to submit this certification for the *Supplement to the Pre-Design Investigation Data Summary Report Amendment*, submitted on February 22, 2019, for the Former Anaconda Wire and Cable Company site located at 1 River Street, Hastings-on-Hudson, New York.

I, Rachel Leary, certify that I am currently a NYS registered professional engineer and that this Supplement to the Pre-Design Investigation Data Summary Report Amendment was prepared in accordance with the applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

PROFESSIONAL ENGINEER CERTIFICATION

Engineer's Seal

Signature:



Name:

Rachel Leary, P.E.

Title:

Project Manager

Lic. State/#:

NY #88375

Date:

5 March 2019

Sincerely yours,
Sovereign Consulting Inc.

Rachel Leary, P.E.
Project Manager
Sovereign Environmental Engineering Services LLC

c: Atlantic Richfield; Attn: Paul Johnson

"Warning it is a violation of NY State Law for any person to alter this item in any way, unless under the direction of a licensed professional engineer."

ATTACHMENT B

SECTION 3.5

Vibracore Reports 2018

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-511A			
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable							
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY							
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/1/18 10:07							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 6.5'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.0'			
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A			
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1	VC-511A (0-0.5')	H	8.8'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Wet-moist 1.0-2.0'. Moist 2.0-6.0'. Moist-dry 6.0-8.0'. Soft. Odor from 2.0-8.0'. 0.0-0.5', 5.0-6.0' Dark brown. 0.5-5.0', 6.0-8.0' Dark grey-brown.				1			
	VC-511A (0.5-1')	H		0.0	1'						2			
2	VC-511A (1-2')	H		0.0	1.5'						3			
	VC-511A (2-3')	H		0.0	2.5'						4			
3	VC-511A (3-4')	H		0.0	3.5'						5			
	VC-511A (4-5')	H		0.0	4.5'						6			
4	VC-511A (5-6')	A		0.0	5.5'						7			
	VC-511A (6-8')	A		0.0	6.5'						8			
5							END OF BORING AT 9.0'. 8.0-9.5' NOT LOGGED OR SAMPLED.							

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-511B				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/1/18 10:22							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-511B (0-0.5')	H	9.0'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. moist 0.5-8.0'. Soft. Odor from 3.0-5.0'. 0.0-0.5' Dark brown with some grey. 0.5-3.0', 7.0-8.0' Dark grey. 3.0-5.0' Dark brown-grey. 5.0-6.0' Brown. 6.0-7.0' Brown-grey.				1			
		VC-511B (0.5-1')	H		0.0	1'						2			
2		VC-511B (1-2')	H		0.0	1.5'						3			
		VC-511B (2-3')	H		0.0	2.5'						4			
3		VC-511B (3-4')	H		0.0	3.5'						5			
		VC-511B (4-5')	H		0.0	4.5'						6			
4		VC-511B (5-6')	A		0.0	5.5'						7			
		VC-511B (6-8')	A		0.0	6.5'						8			
5								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.							
KEY:															
A = Analyze															
H = Hold															
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															
SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-511C			
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/1/18 09:48							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 8.0'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-511C (0-0.5')	H	8.8'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-2.0', 6.5-7.0'. Moist 2.0-6.5'. Soft. Slight odor from 5.0-6.0', odor from 6.0-8.0'. 0.0-0.5' Grey. 0.5-4.0' Dark brown. 4.0-6.0' Dark grey-brown. 6.0-8.0' Dark grey.			1		
		VC-511C (0.5-1')	H		0.0	1'					2		
2		VC-511C (1-2')	H		0.0	1.5'					3		
3		VC-511C (2-3')	H		0.0	2.5'					4		
4		VC-511C (3-4')	H		0.0	3.5'					5		
5		VC-511C (4-5')	H		0.0	4.5'					6		
6		VC-511C (5-6')	A		0.0	5.5'					7		
7		VC-511C (6-8')	A		0.0	6.5'					8		
8					0.0	7.5'							
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691						CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY		Boring ID: VC-517A									
START DATE: 10/2/18						DRILLING CO.: CR Environmental Inc.		TOTAL DEPTH: 8.0'									
COMPLETION DATE, TIME: 10/2/18 08:55						DRILLER: L. Perry, B. Maher, M. Fitzpatrick		CASING ELEVATION: N/A									
BORING DIAMETER: 3"						DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler		SURFACE ELEVATION: N/A									
WELL DIAMETER: --						LOGGED BY: E. Lotito (Sovereign)		WATER DEPTH: 1.4'									
SCREENED INTERVAL: --						SAMPLING METHOD: 3" hard plastic liner		PENETRATION: 4.8'									
SCREEN TYPE / SLOT: --						FILTER PACK: --		CASING TYPE: N/A									
Depth (Ft. bml) 1 2 3 4 5	VC-517A (0-0.5')	H	Recovery (ft.) 4.5'	PID (ppm)	.5'	Sample Type	Lithology / Remarks 0.0-4.8' (ML) Silt. 100% fines. Wet 0.0-2.0'. Wet-moist 2.0-3.0'. Moist 3.0-5.0' Soft. 0.0-0.5' Brown. 0.5-3.0' Dark grey. 3.0-4.8' Dark grey with some brown.		1 2 3 4 5								
	VC-517A (0.5-1')	H		0.0	1'												
	VC-517A (1-2')	A		0.0	1.5'												
	VC-517A (2-3')	H		0.0	2.5'												
	VC-517A (3-4')	H		0.0	3.5'												
	VC-517A (4-5')	H		0.0	4.5'												
KEY:														SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
A = Analyze																	
H = Hold																	
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																	
Page 1 of 1																	

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-517B							
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'							
COMPLETION DATE, TIME: 10/2/18 09:13							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A							
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A							
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 1.2'							
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 4.5'							
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A							
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction							
1	VC-517B (0-0.5')	H	3.9'	0.0	.5'		0.0-4.5'	(ML) Silt. 100% fines. Wet 0.0-4.0'. Moist 4.0-4.5'. Soft. 0.0-0.5' Brown with some grey. 0.5-2.0' Dark grey. 2.0-3.0', 4.0-4.5' Dark grey with some brown. 3.0-4.0' Grey-brown.	1								
	VC-517B (0.5-1')	H		0.0	1'												
2	VC-517B (1-2')	A		0.0	1.5'				2								
	VC-517B (2-3')	H		0.0	2.5'				3								
3	VC-517B (3-4')	H		0.0	3.5'					4							
	VC-517B (4-4.5')	H		0.0	4.5'												
							END OF BORING AT 4.5'. Obstruction (wood) at 4.5'.										
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)														SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
Page 1 of 1																	

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691						CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY		Boring ID: VC-517C							
START DATE: 10/1/18						DRILLING CO.: CR Environmental Inc.		TOTAL DEPTH: 8.0'							
COMPLETION DATE, TIME: 10/1/18 10:36						DRILLER: L. Perry, B. Maher, M. Fitzpatrick		CASING ELEVATION: N/A							
BORING DIAMETER: 3"						DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler		SURFACE ELEVATION: N/A							
WELL DIAMETER: --						LOGGED BY: E. Lotito (Sovereign)		WATER DEPTH: 2.4'							
SCREENED INTERVAL: --						SAMPLING METHOD: 3" hard plastic liner		PENETRATION: 5.0'							
SCREEN TYPE / SLOT: --						FILTER PACK: --		CASING TYPE: N/A							
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction					
1	VC-517C (0-0.5')	H	4.1'	0.0	.5'		0.0-5.0' (ML) Silt. 100% fines. Wet 0.0-4.0'. Wet-moist 4.0-5.0'. Soft. Some wood from 4.0-5.0'. 0.0-0.5' Brown. 0.5-1.0', 3.0-5.0' Grey-brown. 1.0-3.0' Dark grey.	1							
	VC-517C (0.5-1')	H		0.0	1'							2	3	4	5
	VC-517C (1-2')	A		0.0	1.5'							3	4	5	
VC-517C (2-3')	H	0.0	2.5'	4	5										
VC-517C (3-4')	H	0.0	3.5'	5											
VC-517C (4-5')	H	0.0	4.5'												
						END OF BORING AT 5.0'. Obstruction (wood, rocks) at 5'.									
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-518A			
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/1/18 12:04							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.7'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-518A (0-0.5')	H	8.8'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0'. Soft. Slight odor from 3.0-4.0' 0.0-0.5' Brown with some grey. 0.5-4.0', 6.0-8.0' Dark grey. 4.0-6.0' Dark grey-brown.			1 2 3 4 5 6 7 8		
		VC-518A (0.5-1')	H		0.0	1'							
2		VC-518A (1-2')	H		0.0	1.5'							
3		VC-518A (2-3')	H		0.0	2.5'							
4		VC-518A (3-4')	H		0.0	3.5'							
5		VC-518A (4-5')	A		0.0	4.5'							
6		VC-518A (5-6')	H		0.0	5.5'							
7		VC-518A (6-8')	H		0.0	6.5'							
8				0.0	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY					Boring ID: VC-518B														
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.					TOTAL DEPTH: 8.0'														
COMPLETION DATE, TIME: 10/1/18 11:45							DRILLER: L. Perry, B. Maher, M. Fitzpatrick					CASING ELEVATION: N/A														
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler					SURFACE ELEVATION: N/A														
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)					WATER DEPTH: 3.2'														
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner					PENETRATION: 9.5'														
SCREEN TYPE / SLOT: --							FILTER PACK: --					CASING TYPE: N/A														
Depth (Ft. bml) 1 2 3 4 5 6 7 8	Sample ID VC-518B (0-0.5') VC-518B (0.5-1') VC-518B (1-2') VC-518B (2-3') VC-518B (3-4') VC-518B (4-5') VC-518B (5-6') VC-518B (6-8')	Submittal (A,H) H H H H A H H	Recovery (ft.) 8.9'	PID (ppm) 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0	Reading At .5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 6.5' 7.5'	Sample Type	Lithology / Remarks 0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0', 3.0-4.0'. Moist 1.0-3.0', 4.0-8.0'. Soft. Slight odor from 3.0-4.0', 5.0-6.0'. Odor from 4.0-5.0'. 0.0-0.5' Brown. 0.5-1.0', 4.0-6.0', 7.0-8.0' Grey-brown. 1.0-4.0' Dark grey.					Boring Construction 1 2 3 4 5 6 7 8														
																END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.										

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-518C			
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/1/18 11:25							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.7'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-518C (0-0.5')	H	8.7'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft. 0.0-0.5' Dark brown. 0.5-2.0' Grey. 2.0-3.0' Dark grey. 3.0-8.0' Grey-brown.			1 2 3 4 5 6 7 8		
		VC-518C (0.5-1')	H		0.0	1'							
2		VC-518C (1-2')	H		0.0	1.5'							
3		VC-518C (2-3')	H		0.0	2.5'							
4		VC-518C (3-4')	H		0.0	3.5'							
5		VC-518C (4-5')	A		0.0	4.5'							
6		VC-518C (5-6')	H		0.0	5.5'							
7		VC-518C (6-8')	H		0.0	6.5'							
8				0.0	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-522A				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/2/18 14:55							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction				
1	VC-522A (0-0.5')	H	9.1'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0', 3.0-8.0'. Moist-dry 1.0-3.0'. Some grit from 1.0-2.0'. Odor from 3.0-4.0'. Soft 0.0-1.0', 3.0-8.0'. Soft-hard 1.0-3.0'. 0.0-0.5' Brown. 0.5-2.0', 6.5-8.0' Grey-brown. 2.0-3.0', 5.0-6.0' Dark grey-brown. 3.0-5.0', 6.0-6.5' Dark grey.				1				
	VC-522A (0.5-1')	H		0.0	1'										
	VC-522A (1-2')	A		0.0	1.5'										
	VC-522A (2-3')	A		0.0	2.5'										
	VC-522A (3-4')	A		0.0	3.5'										
	VC-522A (4-5')	A		0.0	4.5'										
	VC-522A (5-6')	H		0.0	5.5'										
	VC-522A (6-8')	H		0.0	6.5'										
8															
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.								

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691						CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY		Boring ID: VC-522B								
START DATE: 10/2/18						DRILLING CO.: CR Environmental Inc.		TOTAL DEPTH: 8.0'								
COMPLETION DATE, TIME: 10/2/18 15:33						DRILLER: L. Perry, B. Maher, M. Fitzpatrick		CASING ELEVATION: N/A								
BORING DIAMETER: 3"						DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler		SURFACE ELEVATION: N/A								
WELL DIAMETER: --						LOGGED BY: E. Lotito (Sovereign)		WATER DEPTH: 4.0'								
SCREENED INTERVAL: --						SAMPLING METHOD: 3" hard plastic liner		PENETRATION: 9.8'								
SCREEN TYPE / SLOT: --						FILTER PACK: --		CASING TYPE: N/A								
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks		Boring Construction							
1	VC-522B (0-0.5')	H	9.1'	0.0	.5'		0.0-1.0'	(ML) Silt. 100% fines. Wet. Soft. Brown 0.0-0.5'. Grey 0.5-1.0'. (ML) Sandy silt. 70% fines, 25% f-c sand, 5% fine gravel. Poorly Graded. Moist. Grey. Soft. (ML) Silt. 100% fines. Moist-dry 2.0-3.0'. Moist 3.0-8.0'. Soft-hard 2.0-3.0'. Soft 3.0-8.0'. Odor from 3.0-4.0'. Thin layer of less than 5% fine sand at 7.0'. 2.0-3.0', 6.5-8.0' Grey-brown. 3.0-6.0' Grey. 6.0-6.5' Dark grey.	1							
	VC-522B (0.5-1')	H		1.0-2.0'	1											
VC-522B (1-2')	A	2		2												
VC-522B (2-3')	A	3		3												
VC-522B (3-4')	A	4		4												
VC-522B (4-5')	A	5		5												
VC-522B (5-6')	H	6		6												
VC-522B (6-8')	H	7		7												
8				0.0	7.5'			8								
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.																
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
Page 1 of 1																

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691						CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY		Boring ID: VC-522C		
START DATE: 10/2/18						DRILLING CO.: CR Environmental Inc.		TOTAL DEPTH: 8.0'		
COMPLETION DATE, TIME: 10/2/18 15:17						DRILLER: L. Perry, B. Maher, M. Fitzpatrick		CASING ELEVATION: N/A		
BORING DIAMETER: 3"						DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler		SURFACE ELEVATION: N/A		
WELL DIAMETER: --						LOGGED BY: E. Lotito (Sovereign)		WATER DEPTH: 4.1'		
SCREENED INTERVAL: --						SAMPLING METHOD: 3" hard plastic liner		PENETRATION: 9.8'		
SCREEN TYPE / SLOT: --						FILTER PACK: --		CASING TYPE: N/A		
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks		Boring Construction	
1	VC-522C (0-0.5')	H	9.2'	0.0	.5'		0.0-1.0'	(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0'. Soft. Brown 0.0-0.5'. Grey 0.5-1.0'.	1	
	VC-522C (0.5-1')	H		0.0	1'		1.0-2.0'	(ML) Silt. 90% fines, 5% f-c sand, 5% f-c gravel. Moist. Grey. Soft.	2	
2	VC-522C (1-2')	A		0.0	1.5'		2.0-8.0' (ML) Silt. 100% fines. Moist-dry 2.0-5.0'. Moist 5.0-6.0'. Moist-wet 6.0-8.0'. Soft-hard 2.0-5.0'. Soft 5.0-8.0'. Odor from 3.0-6.0'. 2.0-5.0' Grey-brown 5.0-6.0' Grey. 6.0-8.0' Dark grey.	3		
3	VC-522C (2-3')	A		0.0	2.5'			4		
4	VC-522C (3-4')	A		0.0	3.5'			5		
5	VC-522C (4-5')	A		0.0	4.5'			6		
6	VC-522C (5-6')	H		0.0	5.5'			7		
7	VC-522C (6-8')	H		0.0	6.5'			8		
8			0.0	7.5'						
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.										
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM										
Page 1 of 1										

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company			Boring ID: VC-525A		
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable					
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY					
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'		
COMPLETION DATE, TIME: 9/27/18 09:28							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A		
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A		
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 2.9'		
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'		
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A		
Depth (Ft. bml) Sample ID Submittal (A,H) Recovery (ft.) PID (ppm) Reading At Sample Type							Lithology / Remarks			Boring Construction		
<div><div>1</div><div>VC-525A (0-0.5')</div><div>H</div><div rowspan="8">8.8'</div><div>1.2</div><div>.5'</div><div></div></div>							0.0-8.0' (ML) Silt. 100% fines. Wet 0-1.0'. Moist 1-8.0'. Soft. Odor from 0.5-8.0'. Slight sheen from 4.0-8.0'. 0.0-0.5' Brown with black. 0.5-1.0', 5.0-6.0" Dark grey. 1.0-4.0' Dark brown. 4.0-5.0' Dark brown - dark grey. 6.0-8.0' Dark grey with brown.			1		
2 VC-525A (0.5-1') H 1.3 1'										2		
3 VC-525A (1-2') H 1.4 1.5'										3		
4 VC-525A (2-3') H 1.6 2.5'										4		
5 VC-525A (3-4') A 1.7 3.5'										5		
6 VC-525A (4-5') A 2.0 4.5'										6		
7 VC-525A (5-6') H 0.9 5.5'										7		
8 VC-525A (6-8') H 1.9 6.5'										8		
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.					
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM												

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-525B						
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable										
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY										
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'						
COMPLETION DATE, TIME: 9/27/18 09:14							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A						
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A						
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 2.3'						
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'						
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A						
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction						
1	VC-525B (0-0.5')	H	8.8'	0.4	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0-1.0'. Moist 1-8.0'. Soft. Odor from 4.0-8.0'. 0.0-0.5' Dark brown with some black. 0.5-1.0', 3.0-7.0' Dark grey. 1.0-2.0' Dark grey-brown. 2.0-3.0', 7.0-8.0' Dark brown.				1						
	VC-525B (0.5-1')	H		0.0	1'						1						
2	VC-525B (1-2')	H		0.0	1.5'						2						
3	VC-525B (2-3')	H		0.0	2.5'						3						
4	VC-525B (3-4')	A		0.0	3.5'						4						
5	VC-525B (4-5')	A		0.0	4.5'						5						
6	VC-525B (5-6')	H		0.0	5.5'						6						
7	VC-525B (6-8')	H		0.0	6.5'						7						
8				0.0	7.5'					8							
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.										
KEY:																	
A = Analyze																	
H = Hold																	
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																	

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-525C				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/27/18 08:56							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 2.4'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.8'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-525C (0-0.5')	H	9.4'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0-1.0'. Moist 1-8.0'. Some shells from 2.0-3.0'. Less than 5% sand from 5.0-6.0' 0.0-0.5' Brown. 0.5-2.0', 5.0-6.0' Dark grey. 2.0-3.0' Dark brown. 3.0-5.0' Dark brown with grey. 6.0-8.0' Dark grey with dark brown.				1			
		VC-525C (0.5-1')	H		0.0	1'						1			
2		VC-525C (1-2')	H		0.0	1.5'						2			
		VC-525C (2-3')	H		0.0	2.5'						3			
3		VC-525C (3-4')	A		0.0	3.5'						4			
		VC-525C (4-5')	A		0.0	4.5'						5			
5		VC-525C (5-6')	H		0.0	5.5'						6			
		VC-525C (6-8')	H		0.0	6.5'						7			
7					0.0	7.5'									
8															
								END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.							

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-526A			
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 9/27/18 09:44							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.2'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-526A (0-0.5')	H	9.3'	1.2	.5'		(ML) Silt. 100% fines. Wet 0-0.5'. Moist 0.5-8.0'. Soft 0.0-7.0'. Soft-hard 7.0-8.0'. Odor from 0.5 to 8.0'. Less than 5% fine sand from 0.0-0.5' and 2.0-3.0'. Sticky from 3.0-4.0'. 0.0-0.5' Brown. 0.5-1.0', 3.0-5.0', 6.0-7.0' Dark grey. 1.0-3.0', 5.0-6.0', 7.0-8.0' Dark grey - brown.			1		
		VC-526A (0.5-1')	H		1.3	1'					2		
2		VC-526A (1-2')	H		1.3	1.5'					3		
3		VC-526A (2-3')	H		1.5	2.5'					4		
4		VC-526A (3-4')	H		1.6	3.5'					5		
5		VC-526A (4-5')	A		1.8	4.5'					6		
6		VC-526A (5-6')	H		1.8	5.5'					7		
7		VC-526A (6-8')	H		1.8	6.5'					8		
8				1.6	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-526B			
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 9/27/18 10:16							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.6'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-526B (0-0.5')	H	8.8'	1.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0-0.5'. Moist 0.5-5.0'. Moist-dry 5.0-8.0'. Soft. Less than 5% fine sand from 3.0-5.0'. Thin layer (<1%) of fine sand from 6.0-8.0'. Odor from 4.0-8.0'. Some grit from 2.0-3.0'. 0.0-0.5' Brown with grey. 0.5-1.0', 2.0-3.0', 4.0-8.0' Dark grey. 1.0-2.0', 3.0-4.0' Dark grey with some brown.			1 2 3 4 5 6 7 8		
		VC-526B (0.5-1')	H		0.0	1'							
2		VC-526B (1-2')	H		0.0	1.5'							
3		VC-526B (2-3')	H		0.0	2.5'							
4		VC-526B (3-4')	H		0.4	3.5'							
5		VC-526B (4-5')	A		1.0	4.5'							
6		VC-526B (5-6')	H		0.8	5.5'							
7		VC-526B (6-8')	H		0.6	6.5'							
8				0.7	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-526C				
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/27/18 09:59							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.4'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction			
1		VC-526C (0-0.5')	H	9.1'	1.3	.5'		(ML) Silt. 100% fines. Wet 0-0.5' and 6.0-7.0'. Moist 0.5-6.0'. Moist-dry 7.0-8.0'. Soft. Odor from 3.0-7.0'. Some grit from 1.0-2.0'. Thin layer of fine sand (<1%) from 7.0-8.0'. 0.0-0.5' Brown with some grey. 0.5-1.0', 3.0-7.0' Dark grey. 1.0-2.0' Dark grey with brown. 2.0-3.0' Dark brown with grey. 7.0-8.0' Grey-brown.			1			
		VC-526C (0.5-1')	H		0.0	1'					2			
2		VC-526C (1-2')	H		0.0	1.5'					3			
3		VC-526C (2-3')	H		1.0	2.5'					4			
4		VC-526C (3-4')	H		0.8	3.5'					5			
5		VC-526C (4-5')	A		0.9	4.5'					6			
6		VC-526C (5-6')	H		1.5	5.5'					7			
7		VC-526C (6-8')	H		1.7	6.5'					8			
8					1.1	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.														
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)														
SM ML SP SP-SM Concrete/Fill GP GM GP-GM														
Page 1 of 1														

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-530A								
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'								
COMPLETION DATE, TIME: 10/1/18 12:42							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A								
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A								
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.2'								
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'								
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A								
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction							
1		VC-530A (0-0.5')	H	9.0'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-4.0', 6.0-8.0'. Moist-wet 4.0-6.0'. Soft. Odor from 3.0-8.0'. Less than 5% sands/shells from 5.0-6.0'. 0.0-0.5' Brown with grey. 0.5-3.0' Grey-brown. 3.0-4.0' Grey. 4.0-8.0' Dark grey.			1							
		VC-530A (0.5-1')	H		0.0	1'					2							
2		VC-530A (1-2')	A		0.0	1.5'					3							
3		VC-530A (2-3')	A		0.0	2.5'					4							
4		VC-530A (3-4')	A		0.0	3.5'					5							
5		VC-530A (4-5')	H		0.0	4.5'					6							
6		VC-530A (5-6')	H		0.0	5.5'					7							
7		VC-530A (6-8')	H		0.0	6.5'					8							
8					0.0	7.5'												
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.																		
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
Page 1 of 1																		

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY				Boring ID: VC-530B				
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/1/18 12:54							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.4'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-530B (0-0.5')	H	9.2'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0". Soft. Odor from 3.0-8.0'. Less than 5% sands/shells from 4.0-5.0'. 0.0-0.5' Brown with some grey. 0.5-3.0' Grey-brown. 3.0-6.0' Dark grey. 6.0-8.0' Dark grey with some brown.				1			
		VC-530B (0.5-1')	H		0.0	1'						2			
2		VC-530B (1-2')	A		0.0	1.5'						3			
		VC-530B (2-3')	A		0.0	2.5'						4			
3		VC-530B (3-4')	A		0.0	3.5'						5			
		VC-530B (4-5')	H		0.0	4.5'						6			
4		VC-530B (5-6')	H		0.0	5.5'						7			
		VC-530B (6-8')	H		0.0	6.5'						8			
5								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.							

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-530C								
START DATE: 10/1/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'								
COMPLETION DATE, TIME: 10/1/18 12:27							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A								
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A								
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.1'								
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'								
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A								
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction							
1		VC-530C (0-0.5')	H	9.0'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5', 2.0-3.0'. Moist 0.5-2.0', 3.0-5.0'. Wet-moist 5.0-8.0'. Soft. Odor from 3.0-8.0'. 0.0-0.5' Brown. 0.5-1.0', 4.0-6.0' Dark grey. 1.0-3.0' Grey-brown. 3.0-4.0' Grey. 6.0-8.0' Dark grey with some brown.			1							
		VC-530C (0.5-1')	H		0.0	1'					2							
2		VC-530C (1-2')	A		0.0	1.5'					3							
3		VC-530C (2-3')	A		0.0	2.5'					4							
4		VC-530C (3-4')	A		0.0	3.5'					5							
5		VC-530C (4-5')	H		0.0	4.5'					6							
6		VC-530C (5-6')	H		0.4	5.5'					7							
7		VC-530C (6-8')	H		0.0	6.5'					8							
8					0.0	7.5'												
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.																		
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
Page 1 of 1																		

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-531A								
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable												
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY												
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'								
COMPLETION DATE, TIME: 10/2/18 14:07							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A								
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A								
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.2'								
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'								
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A								
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction								
1 2 3 4 5 6 7 8	VC-531A (0-0.5')	H	8.3'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist-dry 1.0-2.0', 6.5-8.0'. Moist 2.0-6.5'. Slight odor from 2.0-4.0'. Odor from 4.0-6.5'. Soft. Some grit and shiny fines from 6.5-8.0'. 0.0-0.5' Brown. 0.5-3.0', 6.5-8.0' Grey-brown. 3.0-6.5' Dark grey. 6.5-8.0' Grey-brown.				1 2 3 4 5 6 7 8								
	VC-531A (0.5-1')	H		0.0	1'														
	VC-531A (1-2')	A		0.0	1.5'														
	VC-531A (2-3')	A		0.0	2.5'														
	VC-531A (3-4')	A		0.0	3.5'														
	VC-531A (4-5')	H		0.3	4.5'														
	VC-531A (5-6')	H		0.4	5.5'														
	VC-531A (6-8')	H		0.0	6.5'														
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.												
KEY:																SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
A = Analyze																			
H = Hold																			
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																			
Page 1 of 1																			

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-531B						
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'						
COMPLETION DATE, TIME: 10/2/18 14:40							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A						
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A						
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.7'						
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'						
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A						
	Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction				
	1	VC-531B (0-0.5')	H	9.2'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0'. Moist-dry 1.0-3.0', 6.0-8.0'. Wet-moist 3.0-6.0'. Some grit from 1.0-2.0'. Odor from 2.0-8.0'. Soft. 0.0-0.5' Brown with grey. 0.5-1.0' Grey. 1.0-3.0' Grey-brown. 3.0-6.0' Dark grey. 6.0-8.0' Dark grey with brown.				1				
		VC-531B (0.5-1')	H		0.0	1'						2				
	2	VC-531B (1-2')	A		0.0	1.5'						3				
	3	VC-531B (2-3')	A		0.0	2.5'						4				
	4	VC-531B (3-4')	A		0.0	3.5'						5				
	5	VC-531B (4-5')	H		0.0	4.5'						6				
	6	VC-531B (5-6')	H		0.0	5.5'						7				
	7	VC-531B (6-8')	H		0.0	6.5'						8				
	8				0.0	7.5'										
								END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.								
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM																

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-531C					
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'					
COMPLETION DATE, TIME: 10/2/18 14:26							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A					
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A					
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.5'					
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'					
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A					
	Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
	1	VC-531C (0-0.5')	H	9.3'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-6.0'. Moist-wet 6.0-8.0'. Some grit from 0.5-3.0'. Odor from 3.0-4.0'. Soft. 0.0-0.5' Brown. 0.5-3.0', 4.0-5.0', 6.0-8.0' Dark brown. 3.0-4.0', 5.0-6.0' Dark grey-brown.				1			
		VC-531C (0.5-1')	H		0.0	1'						2			
	2	VC-531C (1-2')	A		0.0	1.5'						3			
		VC-531C (2-3')	A		0.0	2.5'						4			
	3	VC-531C (3-4')	A		0.0	3.5'						5			
		VC-531C (4-5')	H		0.0	4.5'						6			
	4	VC-531C (5-6')	H		0.0	5.5'						7			
		VC-531C (6-8')	H		0.0	6.5'						8			
	5														
6															
7															
8															
								END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.							
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691						CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY		Boring ID: VC-532A						
START DATE: 9/27/18						DRILLING CO.: CR Environmental Inc.		TOTAL DEPTH: 8.0'						
COMPLETION DATE, TIME: 9/27/18 11:37						DRILLER: L. Perry, B. Maher, M. Fitzpatrick		CASING ELEVATION: N/A						
BORING DIAMETER: 3"						DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler		SURFACE ELEVATION: N/A						
WELL DIAMETER: --						LOGGED BY: E. Lotito (Sovereign)		WATER DEPTH: 3.8'						
SCREENED INTERVAL: --						SAMPLING METHOD: 3" hard plastic liner		PENETRATION: 9.5'						
SCREEN TYPE / SLOT: --						FILTER PACK: --		CASING TYPE: N/A						
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks		Boring Construction					
1	VC-532A (0-0.5')	H	9.2'	1.3	.5'		0.0-0.5'	(ML) Silt. 100% fines. Wet. Soft. Dark brown w/ some grey.	1					
	VC-532A (0.5-1')	A		0.5-1.0'	(ML) Silt with gravel. 80% fines, 20% coarse gravel. Soft.									
2	VC-532A (1-2')	A		1.1	1.5'		1.0-8.0'	(ML) Silt. 100% fines. Soft 0.0-6.0'. Soft-hard 6.0-8.0'. Moist-dry 1.0-2.0', 6.0-8.0'. Moist 2.0-6.0'. Some grit 1.0-2.0'. Odor from 4.0-5.0'. 1.0-6.0' Dark grey. 6.0-8.0' Dark grey with brown.					2	
	VC-532A (2-3')	A		1.4	2.5'		3							
3	VC-532A (3-4')	A		1.8	3.5'		4							
4	VC-532A (4-5')	H		1.3	4.5'		5							
5	VC-532A (5-6')	H		0.9	5.5'		6							
6	VC-532A (6-8')	H		0.9	6.5'		7							
1.2			7.5'	8										
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.							
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													SM ML SP SP-SM Concrete/Fill GP GM GP-GM	
Page 1 of 1														

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-532C																																																									
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable																																																													
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY																																																													
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'																																																									
COMPLETION DATE, TIME: 9/27/18 12:07							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A																																																									
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A																																																									
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'																																																									
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'																																																									
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A																																																									
<table><tr><th>Depth (Ft. bml)</th><th>Sample ID</th><th>Submittal (A,H)</th><th>Recovery (ft.)</th><th>PID (ppm)</th><th>Reading At</th><th>Sample Type</th><th>Lithology / Remarks</th><th colspan="4">Boring Construction</th></tr></table>											Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction																																																	
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction																																																												
<table><tr><td rowspan="2">1</td><td>VC-532C (0-0.5')</td><td>H</td><td rowspan="8">9.1'</td><td>1.3</td><td>.5'</td><td rowspan="8"></td><td>0.0-1.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0'. Soft. Dark brown. Some grit from 0.5-1.0'.</td><td rowspan="2">1</td><td rowspan="8"></td><td rowspan="8"></td><td rowspan="8"></td></tr><tr><td>VC-532C (0.5-1')</td><td>A</td><td>1.0</td><td>1'</td><td rowspan="2">1.0-1.5' (ML) Silt with sand. 80% f-c gravel, 20% fines. Poorly graded. Soft. Moist. Dark grey. Odor.</td><td rowspan="2">2</td></tr><tr><td>2</td><td>VC-532C (1-2')</td><td>A</td><td>1.0</td><td>1.5'</td><td rowspan="2">1.5-8.0' (ML) Silt. Moist 1.5-3.0' and 4.0-6.0'. Wet 3.0-4.0'. Moist-dry 6.0-8.0'. Odor from 2.0-4.0. 1.5-6.0' Dark grey. 6.0-8.0' Grey with some brown</td><td rowspan="2">3</td></tr><tr><td>3</td><td>VC-532C (2-3')</td><td>A</td><td>1.4</td><td>2.5'</td><td rowspan="2">4</td></tr><tr><td>4</td><td>VC-532C (3-4')</td><td>A</td><td>2.1</td><td>3.5'</td><td rowspan="2">5</td></tr><tr><td>5</td><td>VC-532C (4-5')</td><td>H</td><td>1.7</td><td>4.5'</td><td rowspan="2">6</td></tr><tr><td>6</td><td>VC-532C (5-6')</td><td>H</td><td>1.4</td><td>5.5'</td><td rowspan="2">7</td></tr><tr><td>7</td><td rowspan="2">VC-532C (6-8')</td><td rowspan="2">H</td><td>1.2</td><td>6.5'</td><td rowspan="2">8</td></tr><tr><td>8</td><td>1.4</td><td>7.5'</td></tr></table>											1	VC-532C (0-0.5')	H	9.1'	1.3	.5'		0.0-1.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0'. Soft. Dark brown. Some grit from 0.5-1.0'.	1				VC-532C (0.5-1')	A	1.0	1'	1.0-1.5' (ML) Silt with sand. 80% f-c gravel, 20% fines. Poorly graded. Soft. Moist. Dark grey. Odor.	2	2	VC-532C (1-2')	A	1.0	1.5'	1.5-8.0' (ML) Silt. Moist 1.5-3.0' and 4.0-6.0'. Wet 3.0-4.0'. Moist-dry 6.0-8.0'. Odor from 2.0-4.0. 1.5-6.0' Dark grey. 6.0-8.0' Grey with some brown	3	3	VC-532C (2-3')	A	1.4	2.5'	4	4	VC-532C (3-4')	A	2.1	3.5'	5	5	VC-532C (4-5')	H	1.7	4.5'	6	6	VC-532C (5-6')	H	1.4	5.5'	7	7	VC-532C (6-8')	H	1.2	6.5'	8	8	1.4	7.5'
1	VC-532C (0-0.5')	H	9.1'	1.3	.5'		0.0-1.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0'. Soft. Dark brown. Some grit from 0.5-1.0'.	1																																																												
	VC-532C (0.5-1')	A		1.0	1'		1.0-1.5' (ML) Silt with sand. 80% f-c gravel, 20% fines. Poorly graded. Soft. Moist. Dark grey. Odor.				2																																																									
2	VC-532C (1-2')	A		1.0	1.5'			1.5-8.0' (ML) Silt. Moist 1.5-3.0' and 4.0-6.0'. Wet 3.0-4.0'. Moist-dry 6.0-8.0'. Odor from 2.0-4.0. 1.5-6.0' Dark grey. 6.0-8.0' Grey with some brown					3																																																							
3	VC-532C (2-3')	A		1.4	2.5'		4																																																													
4	VC-532C (3-4')	A		2.1	3.5'			5																																																												
5	VC-532C (4-5')	H		1.7	4.5'		6																																																													
6	VC-532C (5-6')	H		1.4	5.5'			7																																																												
7	VC-532C (6-8')	H		1.2	6.5'		8																																																													
8			1.4	7.5'																																																																
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.																																																													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

	SM		GP
	ML		GM
	SP		GP-GM
	SP-SM		
	Concrete/Fill		

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company				Boring ID: VC-537A				
							PROJECT: Former Anaconda Wire & Cable								
							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/2/18 12:13							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 1.8'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.8'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-537A (0-0.5')	H	9.5'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 0.5-6.0'. Wet-moist 6.0-8.0'. Odor from 1.0-8.0'. Soft. 0.0-0.5' Brown. 0.5-1.0' Grey. 1.0-3.0', 7.5-8.0' Grey-brown. 3.0-4.0' Dark grey with some brown. 4.0-7.5' Dark grey.							
2		VC-537A (0.5-1')	H		0.0	1'									
3		VC-537A (1-2')	A		0.0	1.5'									
4		VC-537A (2-3')	H		0.0	2.5'									
5		VC-537A (3-4')	A		0.0	3.5'									
6		VC-537A (4-5')	H		0.0	4.5'									
7		VC-537A (5-6')	H		0.0	5.5'									
8		VC-537A (6-8')	H		0.0	6.5'									
8				0.0	7.5'										
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.															

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY				Boring ID: VC-537B																																																																																																								
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'																																																																																																								
COMPLETION DATE, TIME: 10/2/18 12:45							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A																																																																																																								
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A																																																																																																								
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 2.3'																																																																																																								
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'																																																																																																								
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A																																																																																																								
<table><tr><th>Depth (Ft. bml)</th><th>Sample ID</th><th>Submittal (A,H)</th><th>Recovery (ft.)</th><th>PID (ppm)</th><th>Reading At</th><th>Sample Type</th><th>Lithology / Remarks</th><th colspan="7">Boring Construction</th></tr><tr><td rowspan="8"> 1 </td><td>VC-537B (0-0.5')</td><td>H</td><td rowspan="8">9.4'</td><td>0.0</td><td>.5'</td><td rowspan="8"></td><td rowspan="5">0.0-5.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-5.0'. Odor from 3.0-4.0'. Less than 1% fine sand from 4.0-5.0'. Soft. 0.0-0.5' Brown with grey. 0.5-1.0', 3.0-4.0 Grey. 1.0-3.0' Grey brown 4.0-5.0' Grey with some brown.</td><td rowspan="8"> 1 </td><td rowspan="8"> 1 </td><td rowspan="8"> 1 </td><td rowspan="8"> 1 </td></tr><tr><td>VC-537B (0.5-1')</td><td>H</td><td>0.0</td><td>1'</td><td></td><td></td><td></td></tr><tr><td>VC-537B (1-2')</td><td>A</td><td>0.0</td><td>1.5'</td><td></td><td></td><td></td><td></td></tr><tr><td>VC-537B (2-3')</td><td>H</td><td>4.6</td><td>2.5'</td><td></td><td></td><td></td><td></td></tr><tr><td>VC-537B (3-4')</td><td>A</td><td>1.4</td><td>3.5'</td><td></td><td></td><td></td><td></td></tr><tr><td>VC-537B (4-5')</td><td>H</td><td>0.1</td><td>4.5'</td><td></td><td></td><td></td><td></td></tr><tr><td>VC-537B (5-6')</td><td>H</td><td>0.0</td><td>5.5'</td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="2">VC-537B (6-8')</td><td rowspan="2">H</td><td>0.0</td><td>6.5'</td><td></td><td></td><td></td><td></td></tr><tr><td>0.0</td><td>7.5'</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.</td><td></td><td></td><td></td><td></td><td></td></tr></table>															Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction							1	VC-537B (0-0.5')	H	9.4'	0.0	.5'		0.0-5.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-5.0'. Odor from 3.0-4.0'. Less than 1% fine sand from 4.0-5.0'. Soft. 0.0-0.5' Brown with grey. 0.5-1.0', 3.0-4.0 Grey. 1.0-3.0' Grey brown 4.0-5.0' Grey with some brown.	1	1	1	1	VC-537B (0.5-1')	H	0.0	1'				VC-537B (1-2')	A	0.0	1.5'					VC-537B (2-3')	H	4.6	2.5'					VC-537B (3-4')	A	1.4	3.5'					VC-537B (4-5')	H	0.1	4.5'					VC-537B (5-6')	H	0.0	5.5'					VC-537B (6-8')	H	0.0	6.5'					0.0	7.5'												END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.					
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction																																																																																																											
1	VC-537B (0-0.5')	H	9.4'	0.0	.5'		0.0-5.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-5.0'. Odor from 3.0-4.0'. Less than 1% fine sand from 4.0-5.0'. Soft. 0.0-0.5' Brown with grey. 0.5-1.0', 3.0-4.0 Grey. 1.0-3.0' Grey brown 4.0-5.0' Grey with some brown.	1	1	1	1																																																																																																								
	VC-537B (0.5-1')	H		0.0	1'																																																																																																														
	VC-537B (1-2')	A		0.0	1.5'																																																																																																														
	VC-537B (2-3')	H		4.6	2.5'																																																																																																														
	VC-537B (3-4')	A		1.4	3.5'																																																																																																														
	VC-537B (4-5')	H		0.1	4.5'																																																																																																														
	VC-537B (5-6')	H		0.0	5.5'																																																																																																														
	VC-537B (6-8')	H		0.0	6.5'																																																																																																														
0.0			7.5'																																																																																																																
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.																																																																																																												
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM																																																																																																																			
Page 1 of 1																																																																																																																			

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-538A				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/2/18 13:45							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.0'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Lithology / Remarks											Boring Construction				
1 2 3 4 5 6 7 8	VC-538A (0-0.5')	H	9.4'	0.0	.5'		0.0-3.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0', 2.0-3.0'. Moist-dry 1.0-2.0'. Soft. Odor from 2.0-3.0' 0.0-0.5' Brown with grey. 0.5-2.0' Grey-brown. 2.0-3.0' Grey.				1 2 3 4 5 6 7 8				
	VC-538A (0.5-1')	H		0.0	1'										
	VC-538A (1-2')	A		2.0	1.5'										
	VC-538A (2-3')	A		0.0	2.5'										
	VC-538A (3-4')	H		0.0	3.5'		3.0-4.0' (ML) Silt. 90% fines, 10% fine-course sand. Soft. Wet. Dark grey. Odor								
	VC-538A (4-5')	H		0.0	4.5'										
	VC-538A (5-6')	H		0.0	5.5'										
	VC-538A (6-8')	H		0.0	6.5'										
			0.0	7.5'	4.5-8.0' (ML) Silt. 100% fines. Moist 4.5-6.0'. Moist-dry 6.0-8.0'. Soft. Odor 4.5-6.0'. 4.5-5.0' Grey. 5.0-6.0' Grey with some brown. 6.0-8.0' Grey brown.										
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.															

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-538B																																																																					
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable																																																																									
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY																																																																									
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'																																																																					
COMPLETION DATE, TIME: 10/2/18 13:21							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A																																																																					
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A																																																																					
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 2.4																																																																					
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'																																																																					
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A																																																																					
<table><tr><th>Depth (Ft. bml)</th><th>Sample ID</th><th>Submittal (A,H)</th><th>Recovery (ft.)</th><th>PID (ppm)</th><th>Reading At</th><th>Sample Type</th><th>Lithology / Remarks</th><th colspan="4">Boring Construction</th></tr><tr><td>1</td><td>VC-538B (0-0.5')</td><td>H</td><td rowspan="8">9.1'</td><td>0.0</td><td>.5'</td><td rowspan="8"></td><td rowspan="8">0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-6.0'. Wet-moist 6.0-8.0'. Odor from 4.0-6.0'. Soft. 0.0-0.5', 6.0-8.0' Brown-grey. 0.5-3.0', 5.0-6.0' Grey. 3.0-5.0' Dark grey.</td><td>1</td><td rowspan="8"></td><td rowspan="8"></td><td rowspan="8"></td></tr><tr><td>2</td><td>VC-538B (0.5-1')</td><td>H</td><td>0.0</td><td>1'</td><td>2</td></tr><tr><td>3</td><td>VC-538B (1-2')</td><td>A</td><td>0.0</td><td>1.5'</td><td>3</td></tr><tr><td>4</td><td>VC-538B (2-3')</td><td>H</td><td>0.0</td><td>2.5'</td><td>4</td></tr><tr><td>5</td><td>VC-538B (3-4')</td><td>H</td><td>1.0</td><td>3.5'</td><td>5</td></tr><tr><td>6</td><td>VC-538B (4-5')</td><td>H</td><td>0.9</td><td>4.5'</td><td>6</td></tr><tr><td>7</td><td>VC-538B (5-6')</td><td>H</td><td>0.0</td><td>5.5'</td><td>7</td></tr><tr><td>8</td><td>VC-538B (6-8')</td><td>H</td><td>0.0</td><td>6.5'</td><td>8</td></tr></table>											Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction				1	VC-538B (0-0.5')	H	9.1'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-6.0'. Wet-moist 6.0-8.0'. Odor from 4.0-6.0'. Soft. 0.0-0.5', 6.0-8.0' Brown-grey. 0.5-3.0', 5.0-6.0' Grey. 3.0-5.0' Dark grey.	1				2	VC-538B (0.5-1')	H	0.0	1'	2	3	VC-538B (1-2')	A	0.0	1.5'	3	4	VC-538B (2-3')	H	0.0	2.5'	4	5	VC-538B (3-4')	H	1.0	3.5'	5	6	VC-538B (4-5')	H	0.9	4.5'	6	7	VC-538B (5-6')	H	0.0	5.5'	7	8	VC-538B (6-8')	H	0.0	6.5'	8				
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction																																																																								
1	VC-538B (0-0.5')	H	9.1'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-6.0'. Wet-moist 6.0-8.0'. Odor from 4.0-6.0'. Soft. 0.0-0.5', 6.0-8.0' Brown-grey. 0.5-3.0', 5.0-6.0' Grey. 3.0-5.0' Dark grey.	1																																																																								
2	VC-538B (0.5-1')	H		0.0	1'			2																																																																								
3	VC-538B (1-2')	A		0.0	1.5'			3																																																																								
4	VC-538B (2-3')	H		0.0	2.5'			4																																																																								
5	VC-538B (3-4')	H		1.0	3.5'			5																																																																								
6	VC-538B (4-5')	H		0.9	4.5'			6																																																																								
7	VC-538B (5-6')	H		0.0	5.5'			7																																																																								
8	VC-538B (6-8')	H		0.0	6.5'			8																																																																								
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.																																																																									

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

	SM		GP
	ML		GM
	SP		GP-GM
	SP-SM		
	Concrete/Fill		

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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-538C			
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/2/18 13:01							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 2.4'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.3'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-538C (0-0.5')	H	9.5'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-6.0'. Moist-dry 6.0-8.0'. Odor from 1.0-5.0'. Soft. Less than 5% fine-medium sand from 4.0-5.0'. 0.0-0.5' Brown. 0.5-1.0' Grey. 1.0-3.0', 5.0-8.0' Grey-brown. 3.0-5.0' Dark Grey			1		
		VC-538C (0.5-1')	H		0.0	1'					2		
2		VC-538C (1-2')	A		0.0	1.5'					3		
3		VC-538C (2-3')	A		0.0	2.5'					4		
4		VC-538C (3-4')	H		0.0	3.5'					5		
5		VC-538C (4-5')	H		0.0	4.5'					6		
6		VC-538C (5-6')	H		0.0	5.5'					7		
7		VC-538C (6-8')	H		0.2	6.5'					8		
8					0.0	7.5'							
END OF BORING AT 9.3'. 8.0-9.3' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-539A					
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'					
COMPLETION DATE, TIME: 9/27/18 11:08							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A					
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A					
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.4'					
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'					
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A					
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction				
1	VC-539A (0-0.5')	H	8.8'	0.0	.5'			0.0-0.5'	(ML) Silt. 100% fines. Wet. Soft. Dark brown w/ some grey.	1					
	VC-539A (0.5-1')	A		0.5-2.0'	(ML) Silt. 90% fines, 10% fine-medium sand. Soft. Moist. Dark grey.										
2	VC-539A (1-2')	A		1.2	1.5'			2.0-3.0'	(ML) Silt. 100% fines. Soft. Moist. Dark grey.					2	
	3	VC-539A (2-3')		A	1.7			2.5'	3.0-4.0'						(ML) Silt with sand. 80% fines, 20% fine-medium sand. Soft. Moist. Dark grey. Slight odor
4		VC-539A (3-4')		A	1.6			3.5'	4.0-8.0'					(ML) Silt. 100% fines. Soft. Moist. Dark grey. Thin layer of fine sand from 6.0-6.5'.	4
	5	VC-539A (4-5')		H	1.4			4.5'							
6		VC-539A (5-6')		H	0.0			5.5'							
	7	VC-539A (6-8')		H	0.0			6.5'							
0.0			7.5'		8										
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.															
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															
SM ML SP SP-SM Concrete/Fill GP GM GP-GM															
Page 1 of 1															

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company				Boring ID: VC-539B												
							PROJECT: Former Anaconda Wire & Cable																
							LOCATION: 1 River Street, Hastings-On-Hudson, NY																
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'												
COMPLETION DATE, TIME: 9/27/18 10:51							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A												
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A												
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.3'												
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'												
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A												
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction											
1		VC-539B (0-0.5')	H	9.1'	0.0	.5'		0.0-0.5' (ML) Silt. 100% fines. Wet. Soft. Dark brown w/ some grey.				1											
		VC-539B (0.5-1')	A		0.5-1.0' (ML) Silt with sand. 85% fines, 15% f-m sand. Soft. Moist.																		
2		VC-539B (1-2')	A		1.0	1'		1.0-2.0' (ML) Silt. 95% fines, 5% fine-medium sand. Soft. Moist. Dark grey. 1" of sand from 1.0-1.1'.															
		VC-539B (2-3')	A		1.3	1.5'		2.0-3.0' (ML) Silt. 100% fines. Soft. Moist. Dark grey. Some grit.															
3		VC-539B (3-4')	A		1.6	2.5'		3.0-4.0' (ML) Silt with sand. 80% fines, 20% fine-medium sand. Soft. Moist. Dark grey.															
		VC-539B (4-5')	H		1.4	3.5'		4.0-8.0' (ML) Silt. 100% fines. Soft. Moist. Dark grey 4.0-5.0'. Dark grey with some brown 5.0-8.0'. Some shells from 6.0-8.0'.															
5		VC-539B (5-6')	H		1.6	4.5'												5					
		VC-539B (6-8')	H		0.0	5.5'																	
7				1.4	6.5'					7													
				1.4	7.5'																		
8								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.				8											
KEY:																							
A = Analyze																							
H = Hold																							
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																							
SM ML SP SP-SM Concrete/Fill GP GM GP-GM																							

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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company				Boring ID: VC-539C				
							PROJECT: Former Anaconda Wire & Cable								
							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 9/27/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/27/18 10:36							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.2'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1 2 3 4 5 6 7 8		VC-539C (0-0.5')	H	9.0'	1.5	.5'		0.0-0.5' (ML) Silt. 100% fines. Wet. Soft. Dark brown.				1			
		VC-539C (0.5-1')	A		0.8	1'		0.5-1.0' (ML) Silt. 90% fines, 10% f-m sand. Soft. Moist. Dark grey.							
		VC-539C (1-2')	A		1.2	1.5'		1.0-2.0' (ML) Silt. 95% fines, 5% fine-medium sand. Soft. Moist. Dark grey.							
		VC-539C (2-3')	A		1.1	2.5'		2.0-3.0' (ML) Silt. 100% fines. Soft. Moist. Dark grey.							
		VC-539C (3-4')	A		1.5	3.5'		3.0-4.0' (ML) Silt. 90% fines, 10% fine-medium sand. Soft. Moist. Dark grey with some brown.							
		VC-539C (4-5')	H		1.4	4.5'		4.0-8.0' (ML) Silt. 100% fines. Soft-hard. Moist-dry. Sticky from 4.0-5.0'. Dark grey 4.0-6.0'. Dark grey-brown 6.0-8.0'.							
		VC-539C (5-6')	H		0.3	5.5'									
		VC-539C (6-8')	H		0.9	6.5'									
8					1.2	7.5'					8				
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.								
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-540A				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/26/18 11:56							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.0'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-540A (0-0.5')	H	8.4'	0.0	.5'		0.0-1.0' (ML) Silt. 100% fines. Wet. Soft. Dark brown-dark grey.				1			
		VC-540A (0.5-1')	H		0.0	1'		1.0-2.0' (ML) Silt. 95% fines, 5% fine sand. Moist-dry. Soft-hard. Dark brown.				2			
2		VC-540A (1-2')	A		0.0	1.5'		2.0-8.0' (ML) Silt. 100% fines. Dry-moist. Soft 2.0-6.0'. Soft-hard 6.0-8.0'. Odor from 3.0-8.0' 2.0-5.0' Dark grey. 5.0-8.0' Dark brown-dark grey.				3			
3		VC-540A (2-3')	A		0.0	2.5'		3							
4		VC-540A (3-4')	H		0.0	3.5'		4							
5		VC-540A (4-5')	H		0.0	4.5'		5							
6		VC-540A (5-6')	H		0.0	5.5'		6							
7		VC-540A (6-8')	H		0.0	6.5'		7							
8				0.0	7.5'	8									
							END OF BORING AT 9.0'. 8.0-9.8' NOT LOGGED OR SAMPLED.								
KEY:															
A = Analyze															
H = Hold															
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															
SM ML SP SP-SM Concrete/Fill GP GM GP-GM															
Page 1 of 1															

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-540B																																																																																																																												
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable																																																																																																																																
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY																																																																																																																																
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'																																																																																																																												
COMPLETION DATE, TIME: 9/26/18 11:16							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A																																																																																																																												
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A																																																																																																																												
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'																																																																																																																												
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.0'																																																																																																																												
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A																																																																																																																												
<table><tr><th>Depth (Ft. bml)</th><th>Sample ID</th><th>Submittal (A,H)</th><th>Recovery (ft.)</th><th>PID (ppm)</th><th>Reading At</th><th>Sample Type</th><th>Lithology / Remarks</th><th colspan="4">Boring Construction</th></tr><tr><td>1</td><td>VC-540B (0-0.5')</td><td>H</td><td rowspan="8">8.5'</td><td>0.0</td><td>.5'</td><td></td><td rowspan="8">0.0-8.0' (ML) Silt. 100% fines. Soft 0.0-6.0'. Soft-hard 6.0-8.0'. Wet 0-1.0'. Moist 1.0-8.0'. Odor from 3.0-8.0'. Some fine sand <5% @ 2.0-3.0' 0.0-0.5' Dark brown with some black. 0.5-1.0', 2.0-4.0', 5.0-6.0' Dark grey. 1.0-2.0' Dark brown. 4.0-5.0', 6.0-8.0' Dark grey with some brown.</td><td>1</td><td></td><td rowspan="8"></td><td></td></tr><tr><td></td><td>VC-540B (0.5-1')</td><td>H</td><td>0.0</td><td>1'</td><td></td><td></td><td></td></tr><tr><td>2</td><td>VC-540B (1-2')</td><td>A</td><td>0.0</td><td>1.5'</td><td></td><td></td><td>2</td><td></td></tr><tr><td></td><td>VC-540B (2-3')</td><td>A</td><td>0.0</td><td>2.5'</td><td></td><td></td><td>3</td><td></td></tr><tr><td>3</td><td>VC-540B (3-4')</td><td>H</td><td>0.0</td><td>3.5'</td><td></td><td></td><td>4</td><td></td></tr><tr><td></td><td>VC-540B (4-5')</td><td>H</td><td>0.0</td><td>4.5'</td><td></td><td></td><td>5</td><td></td></tr><tr><td>5</td><td>VC-540B (5-6')</td><td>H</td><td>0.0</td><td>5.5'</td><td></td><td></td><td>6</td><td></td></tr><tr><td></td><td>VC-540B (6-8')</td><td>H</td><td>0.0</td><td>6.5'</td><td></td><td></td><td>7</td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td>0.0</td><td>7.5'</td><td></td><td></td><td>8</td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="7"></td><td colspan="4">END OF BORING AT 9.0'. 8.0-9.0' NOT LOGGED OR SAMPLED.</td><td></td><td></td><td></td><td></td></tr></table>											Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction				1	VC-540B (0-0.5')	H	8.5'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Soft 0.0-6.0'. Soft-hard 6.0-8.0'. Wet 0-1.0'. Moist 1.0-8.0'. Odor from 3.0-8.0'. Some fine sand <5% @ 2.0-3.0' 0.0-0.5' Dark brown with some black. 0.5-1.0', 2.0-4.0', 5.0-6.0' Dark grey. 1.0-2.0' Dark brown. 4.0-5.0', 6.0-8.0' Dark grey with some brown.	1					VC-540B (0.5-1')	H	0.0	1'				2	VC-540B (1-2')	A	0.0	1.5'			2			VC-540B (2-3')	A	0.0	2.5'			3		3	VC-540B (3-4')	H	0.0	3.5'			4			VC-540B (4-5')	H	0.0	4.5'			5		5	VC-540B (5-6')	H	0.0	5.5'			6			VC-540B (6-8')	H	0.0	6.5'			7		7				0.0	7.5'			8				8																			END OF BORING AT 9.0'. 8.0-9.0' NOT LOGGED OR SAMPLED.							
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction																																																																																																																															
1	VC-540B (0-0.5')	H	8.5'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Soft 0.0-6.0'. Soft-hard 6.0-8.0'. Wet 0-1.0'. Moist 1.0-8.0'. Odor from 3.0-8.0'. Some fine sand <5% @ 2.0-3.0' 0.0-0.5' Dark brown with some black. 0.5-1.0', 2.0-4.0', 5.0-6.0' Dark grey. 1.0-2.0' Dark brown. 4.0-5.0', 6.0-8.0' Dark grey with some brown.	1																																																																																																																															
	VC-540B (0.5-1')	H		0.0	1'																																																																																																																																		
2	VC-540B (1-2')	A		0.0	1.5'				2																																																																																																																														
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3	VC-540B (3-4')	H		0.0	3.5'				4																																																																																																																														
	VC-540B (4-5')	H		0.0	4.5'				5																																																																																																																														
5	VC-540B (5-6')	H		0.0	5.5'				6																																																																																																																														
	VC-540B (6-8')	H		0.0	6.5'				7																																																																																																																														
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<table><tr><td></td><td>SM</td><td></td><td>GP</td></tr><tr><td></td><td>ML</td><td></td><td>GM</td></tr><tr><td></td><td>SP</td><td></td><td>GP-GM</td></tr><tr><td></td><td>SP-SM</td><td></td><td></td></tr><tr><td></td><td>Concrete/Fill</td><td></td><td></td></tr></table>																SM		GP		ML		GM		SP		GP-GM		SP-SM				Concrete/Fill																																																																																																							
	SM		GP																																																																																																																																				
	ML		GM																																																																																																																																				
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Page 1 of 1																																																																																																																																							

Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-540C							
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable											
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY											
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'							
COMPLETION DATE, TIME: 9/26/18 12:12							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A							
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A							
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.9'							
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.0'							
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A							
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction							
1	VC-540C (0-0.5')	H	8.7'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Soft. Wet 0-0.5'. Moist 0.5-8.0'. Odor from 0.5-6.0'. Strong odor and sheen @ 2.0-3.0'. Some fine sand <5% @ 6.0-8.0' 0.0-0.5" Dark brown with some black. 0.5-5.0' Dark grey. 5.0-6.0' Dark grey with brown 6.0-8.0' Dark brown.				1							
	VC-540C (0.5-1')	H		0.0	1'						2							
2	VC-540C (1-2')	A		0.5	1.5'						3							
	VC-540C (2-3')	A		2.6	2.5'						4							
3	VC-540C (3-4')	H		0.6	3.5'						5							
	VC-540C (4-5')	H		0.0	4.5'						6							
4	VC-540C (5-6')	H		0.0	5.5'						7							
	VC-540C (6-8')	H		0.0	6.5'						8							
5							END OF BORING AT 9.0'. 8.0-9.0' NOT LOGGED OR SAMPLED.											
KEY:															SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
A = Analyze																		
H = Hold																		
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																		

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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY				Boring ID: VC-541							
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'							
COMPLETION DATE, TIME: 9/26/18 09:06							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A							
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A							
WELL DIAMETER: -							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 4.4'							
SCREENED INTERVAL: -							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.8'							
SCREEN TYPE / SLOT: -							FILTER PACK: --				CASING TYPE: N/A							
Depth (Ft. bml) Sample ID Submittal (A,H) Recovery (ft.) PID (ppm) Reading At Sample Type Lithology / Remarks Boring Construction																		
<div><div><div>1</div><div>VC-541 (0-0.5')</div><div>H</div><div rowspan="8">9.4'</div><div>0.0</div><div>.5'</div><div rowspan="8"></div></div><div><div>1</div><div>VC-541 (0.5-1')</div><div>H</div><div>0.0</div><div>1'</div></div><div><div>2</div><div>VC-541 (1-2')</div><div>H</div><div>0.0</div><div>1.5'</div></div><div><div>3</div><div>VC-541 (2-3')</div><div>H</div><div>0.0</div><div>2.5'</div></div><div><div>4</div><div>VC-541 (3-4')</div><div>H</div><div>0.0</div><div>3.5'</div></div><div><div>5</div><div>VC-541 (4-5')</div><div>A</div><div>0.0</div><div>4.5'</div></div><div><div>6</div><div>VC-541 (5-6')</div><div>H</div><div>0.0</div><div>5.5'</div></div><div><div>7</div><div>VC-541 (6-8')</div><div>A</div><div>0.0</div><div>6.5'</div></div><div><div>8</div><div></div><div></div><div>0.0</div><div>7.5'</div></div></div> <div>0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft. 0.0-0.5', 6.0-8.0' Dark brown 0.5-1.0' Dark grey. 1.0-4.0', 5.0-6.0' Dark grey with brown. 4.0-5.0' Brown.</div> <div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div> <div></div> <div></div> <div></div> <div></div>																		
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.																		
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM																		
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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-542								
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable												
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY												
START DATE:			9/26/18				DRILLING CO.:			CR Environmental Inc.			TOTAL DEPTH:		8.0'				
COMPLETION DATE, TIME:			9/26/18 08:45				DRILLER:			L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION:		N/A				
BORING DIAMETER:			3"				DRILL RIG / METHOD:			Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION:		N/A				
WELL DIAMETER:			--				LOGGED BY:			E. Lotito (Sovereign)			WATER DEPTH:		3.4'				
SCREENED INTERVAL:			--				SAMPLING METHOD:			3" hard plastic liner			PENETRATION:		9.5'				
SCREEN TYPE / SLOT:			--				FILTER PACK:			--			CASING TYPE:		N/A				
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks					Boring Construction							
1	VC-542 (0-0.5')	H	8.8'	0.0	.5'		(ML) Silt. 100% fines. Wet 0-1.0'. Moist 1.0-8.0'. Soft. 0.0-0.5' Brown. 0.5-3.0' Dark grey. 3.0-5.0', 6.0-8.0 Dark Brown. 5.0-6.0' Dark grey with some brown					1							
	VC-542 (0.5-1')	H		0.0	1'							2							
2	VC-542 (1-2')	H		0.0	1.5'							3							
	VC-542 (2-3')	H		0.0	2.5'							4							
3	VC-542 (3-4')	A		0.0	3.5'							5							
	VC-542 (4-5')	A		0.0	4.5'							6							
4	VC-542 (5-6')	A		0.0	5.5'							7							
	VC-542 (6-8')	H		0.0	6.5'							8							
8							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.												
KEY:																SM ML SP SP-SM Concrete/Fill			
A = Analyze																GP GM GP-GM			
H = Hold																			
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																			
Page 1 of 1																			

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY					Boring ID: VC-543			
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.					TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 9/26/18 08:25							DRILLER: L. Perry, B. Maher, M. Fitzpatrick					CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler					SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)					WATER DEPTH: 3.0'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner					PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --					CASING TYPE: N/A			
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PTD (ppm)	Reading At	Sample Type	Lithology / Remarks					Boring Construction			
1	VC-543 (0-0.5')	H	9.1'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft. Some odor from 3.0-4.0' and 6.0-8.0' 0.0-0.5' Dark brown with black. 0.5-6.0' Dark grey 6.0-8.0' Dark grey with some brown.					1			
	VC-543 (0.5-1')	H		0.0	1'							1			
2	VC-543 (1-2')	H		0.0	1.5'							2			
	VC-543 (2-3')	H		0.0	2.5'							3			
3	VC-543 (3-4')	A		0.0	3.5'							4			
	VC-543 (4-5')	A		0.0	4.5'							5			
5	VC-543 (5-6')	A		0.0	5.5'							6			
	VC-543 (6-8')	H		0.0	6.5'							7			
7				0.0	7.5'		8								
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.								

KEY:
A = Analyze
H = Hold
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

	SM		GP
	ML		GM
	SP		GP-GM
	SP-SM		
	Concrete/Fill		

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-544				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/26/18 10:13							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 4.6'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-544 (0-0.5')	H	9.1'	0.0	.5'		(ML) Silt. 100% fines. Soft @ 0.0-7.5'. Soft-hard @ 7.5-8.0'. Wet 0-1.0'. Moist 1.0-7.5'. Dry 7.5-8.0.' Odor from 6.0-7.5'. 0.0-0.5' Brown. 0.5-3.0' Dark grey. 3.0-4.0' Dark brown with grey. 4.0-5.0' Dark brown. 5.0-7.5' Dark grey 7.5-8.0' Brown.				1			
		VC-544 (0.5-1')	H		0.0	1'						1			
2		VC-544 (1-2')	H		0.0	1.5'						2			
3		VC-544 (2-3')	A		0.0	2.5'						3			
4		VC-544 (3-4')	A		0.0	3.5'						4			
5		VC-544 (4-5')	A		0.0	4.5'						5			
6		VC-544 (5-6')	H		0.0	5.5'						6			
7		VC-544 (6-8')	H		0.0	7'						7			
8												8			
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.								

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-545		
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'		
COMPLETION DATE, TIME: 9/26/18 10:39							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A		
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A		
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 4.6'		
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'		
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A		
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction				
1	VC-545 (0-0.5')	H	9.1'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Soft. Wet 0-0.5'. Moist 0.5-8.0'. Odor from 3.0-8.0'. 0.0-0.5' Dark brown. 0.5-1.0', 5.0-6.0' Dark grey. 1.0-2.0', 6.0-8.0' Dark grey with brown. 2.0-5.0' Dark brown with grey.	1				
	VC-545 (0.5-1')	H		0.0	1'			2				
2	VC-545 (1-2')	A		0.0	1.5'			3				
3	VC-545 (2-3')	A		0.0	2.5'			4				
4	VC-545 (3-4')	A		0.0	3.5'			5				
5	VC-545 (4-5')	A		0.0	4.5'			6				
6	VC-545 (5-6')	H		0.0	5.5'			7				
7	VC-545 (6-8')	H		0.0	6.5'			8				
8				0.0	7.5'							
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.												
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM												
Page 1 of 1												

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-546			
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 9/26/18 10:53							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 4.6'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml) 1 2 3 4 5 6 7 8	Sample ID VC-546 (0-0.5') VC-546 (0.5-1') VC-546 (1-2') VC-546 (2-3') VC-546 (3-4') VC-546 (4-5') VC-546 (5-6') VC-546 (6-8')	Submittal (A,H) H H A A A A H H	Recovery (ft.) 8.9'	PID (ppm) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Reading At .5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 7'	Sample Type	Lithology / Remarks 0.0-8.0' (ML) Silt. 100% fines. Soft. Wet 0-1.0'. Moist 1.0-8.0'. Some shells 0.5-1.0'. Odor from 3.0-8.0'. 0.0-0.5' Dark brown with some black. 0.5-1.0', 2.0-3.0', 4.0-8.0' Dark grey. 1.0-2.0' Dark grey with brown. 3.0-4.0' Dark brown.			Boring Construction 1 2 3 4 5 6 7 8			
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.						
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)										SM ML SP SP-SM Concrete/Fill GP GM GP-GM			
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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-547					
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'					
COMPLETION DATE, TIME: 9/26/18 09:29							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A					
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A					
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 8.3'					
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'					
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A					
	Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
	1	VC-547 (0-0.5')	H	9.4'	0.0	.5'		(ML) Silt. 100% fines. Soft. Wet 0.0-2.0'. Moist 1.0-8.0'. Slight odor from 4.0-5.0' and 6.0-8.0'. 0.0-0.5' Dark brown with some black (potential oil staining) 0.5-3.0' Grey. 3.0-5.0' Grey-brown. 5.0-6.0' Brown with grey. 6.0-8.0' Dark grey with some brown.				1			
		VC-547 (0.5-1')	H		0.0	1'						2			
	2	VC-547 (1-2')	H		0.0	1.5'						3			
	3	VC-547 (2-3')	A		0.0	2.5'						4			
	4	VC-547 (3-4')	A		0.0	3.5'						5			
	5	VC-547 (4-5')	A		0.0	4.5'						6			
	6	VC-547 (5-6')	A		0.0	5.5'						7			
	7	VC-547 (6-8')	A		0.0	6.5'						8			
	8				0.0	7.5'									
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.							

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company							Boring ID: VC-548				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable											
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY											
START DATE: 9/25/18							DRILLING CO.: CR Environmental Inc.							TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/25/18 11:15							DRILLER: L. Perry, B. Maher, M. Fitzpatrick							CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler							SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)							WATER DEPTH: N/A				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner							PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --							CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks							Boring Construction			
1		VC-548 (0-0.5')	H	9.25'	0.0	.5'		(ML) Silt. 100% fines. Wet 0-1.0'. Moist 1.0-8.0'. 0-0.5' Brown. 0.5-1.0' Dark grey. 1.0-8.0' Grey.							1			
		VC-548 (0.5-1')	H		0.0	1'									2			
2		VC-548 (1-2')	H		0.0	1.5'									3			
3		VC-548 (2-3')	A		0.0	2.5'									4			
4		VC-548 (3-4')	A		0.0	3.5'									5			
5		VC-548 (4-5')	A		0.0	4.5'									6			
6		VC-548 (5-6')	A		0.0	5.5'									7			
7		VC-548 (6-8')	A		0.0	6.5'									8			
8					0.0	7.5'												
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.											
KEY:																		
A = Analyze																		
H = Hold																		
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)																		
SM ML SP SP-SM Concrete/Fill GP GM GP-GM																		
Page 1 of 1																		

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-549		
START DATE: 9/25/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'		
COMPLETION DATE, TIME: 9/25/18 09:50							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A		
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A		
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: N/A		
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'		
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A		
	Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction			
	1	VC-549 (0-0.5')	H	7.3'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft. Dark grey. Some broken shells from 1.0-4.5'				
	2	VC-549 (0.5-1')	H		0.0	1'						
	3	VC-549 (1-2')	A		0.0	1.5'						
	4	VC-549 (2-3')	A		0.0	2.5'						
	5	VC-549 (3-4')	A		0.0	3.5'						
	6	VC-549 (4-5')	A		0.0	4.5'						
	7	VC-549 (5-6')	A		0.0	5.5'						
	8	VC-549 (6-8')	A		0.0	6.5'						
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.				

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company					Boring ID: VC-550				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable									
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY									
START DATE: 9/25/18							DRILLING CO.: CR Environmental Inc.					TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 9/25/18 11:52							DRILLER: L. Perry, B. Maher, M. Fitzpatrick					CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler					SURFACE ELEVATION: N/A				
WELL DIAMETER: -							LOGGED BY: E. Lotito (Sovereign)					WATER DEPTH: N/A				
SCREENED INTERVAL: -							SAMPLING METHOD: 3" hard plastic liner					PENETRATION: 9.5'				
SCREEN TYPE / SLOT: -							FILTER PACK: --					CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks					Boring Construction			
1		VC-550 (0-0.5')	A	9.4'	0.0	.5'		0.0-8.0 (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft. Slight odor 5.0-8.0'. 0.0-0.5' Brown with black (potential oil staining). 0.5-5.0' Dark grey. 5.0-8.0' Dsrk grey with some black.					1			
		VC-550 (0.5-1')	A		0.0	1'							1			
2		VC-550 (1-2')	A		0.0	1.5'							2			
3		VC-550 (2-3')	A		0.0	2.5'							3			
4		VC-550 (3-4')	A		0.0	3.5'							4			
5		VC-550 (4-5')	A		0.0	4.5'							5			
6		VC-550 (5-6')	H		0.0	5.5'							6			
7		VC-550 (6-8')	H		0.0	6.5'							7			
8					0.0	7.5'						8				
							END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.									

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-551					
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable									
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY									
START DATE: 9/25/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'					
COMPLETION DATE, TIME: 9/25/18 12:12							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A					
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A					
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: N/A					
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'					
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A					
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction				
1		VC-551 (0-0.5')	H	9.5'	0.0	.5'		0.0-1.0' (ML) Silt. 100% fines. Wet 0.0-1.0'. Moist 1.0-8.0'. Soft 0.0-5.0'. Soft-hard 5.0-8.0'. Slight odor 0.5-5.0'. Odor 5.0-8.0'. 0-0.5' Brown with some black (possible staining) 0.5-1.0, 4.0-6.0' Dark grey. 1.0-3.0' Grey with brown. 3.0-4.0' Brown with grey. 6.0-8.0' Dark grey with brown.				1				
		VC-551 (0.5-1')	H		0.0	1'						2				
2		VC-551 (1-2')	H		0.0	1.5'						3				
		VC-551 (2-3')	A		0.0	2.5'						4				
3		VC-551 (3-4')	A		0.0	3.5'						5				
		VC-551 (4-5')	A		0.0	4.5'						6				
4		VC-551 (5-6')	H		0.0	5.5'						7				
		VC-551 (6-8')	H		0.0	6.5'						8				
5																
6																
7																
8																
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.								

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-552		
START DATE: 9/26/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'		
COMPLETION DATE, TIME: 9/26/18 09:50							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A		
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A		
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 4.3'		
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'		
SCREEN TYPE / SLOT: -							FILTER PACK: --			CASING TYPE: N/A		
	Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks	Boring Construction			
	1	VC-552 (0-0.5')	H	9.0'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	1			
	2	VC-552 (0.5-1')	H	9.0'	0.0	1'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	2			
	3	VC-552 (1-2')	A	9.0'	0.0	1.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	3			
	4	VC-552 (2-3')	A	9.0'	0.0	2.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	4			
	5	VC-552 (3-4')	A	9.0'	0.0	3.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	5			
	6	VC-552 (4-5')	A	9.0'	0.0	4.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	6			
	7	VC-552 (5-6')	A	9.0'	0.0	5.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	7			
	8	VC-552 (6-8')	H	9.0'	0.0	6.5'		0.0-8.0' (ML) Silt. 100% fines. Wet @ 0.0-0.5'. Moist @ 0.5-8.0' Soft. Slight odor 3.0-8.0'. Some fine sand 2.0-3.0'. 0.0-0.5, 1.0-3.0', 4.0-5.0' Dark Brown. 0.5-1.0' Dark grey. 3.0-4.0' and 6.0-8.0' Dark Brown with some grey. 5.0-6.0' Dark grey with some brown.	8			
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.				

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-553				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/3/18 08:12							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 3.5'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.8'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)	Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction				
1 2 3 4 5 6 7 8	VC-553 (0-0.5') VC-553 (0.5-1') VC-553 (1-2') VC-553 (2-3') VC-553 (3-4') VC-553 (4-5') VC-553 (5-6') VC-553 (6-8')	H H H H H A H A	9.5'	0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.2	.5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 6.5' 7.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-2.0'. Moist 2.0-8.0'. Soft. Slight odor from 3.0-4.0'. 0.0-0.5' Brown. 0.5-1.0', 5.0-6.0' Grey-brown. 1.0-2.0' Dark grey. 2.0-4.0' Dark grey with brown. 4.0-5.0', 6.0-8.0' Grey.				1 2 3 4 5 6 7 8				
							END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.								
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure) SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-554				
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'				
COMPLETION DATE, TIME: 10/3/18 07:54							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A				
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A				
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 2.7'				
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'				
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A				
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction			
1		VC-554 (0-0.5')	H	9.0'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-2.0'. Wet-moist 2.0-4.0'. Moist 4.0-8.0'. Soft 0.0-0.5', 1.0-2.0', 6.0-8.0' Brown-grey. 0.5-1.0', 2.0-3.0' Dark brown. 3.0-6.0' Dark grey-brown.				1			
		VC-554 (0.5-1')	H		0.0	1'						1			
2		VC-554 (1-2')	H		0.0	1.5'						2			
3		VC-554 (2-3')	H		0.0	2.5'						3			
4		VC-554 (3-4')	A		0.0	3.5'						4			
5		VC-554 (4-5')	A		0.0	4.5'						5			
6		VC-554 (5-6')	A		0.0	5.5'						6			
7		VC-554 (6-8')	H		0.1	6.5'						7			
8				0.2	7.5'	8									
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.							
KEY:															
A = Analyze															
H = Hold															
United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)															
SM ML SP SP-SM Concrete/Fill GP GM GP-GM															

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company					Boring ID: VC-555			
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable								
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY								
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.					TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 07:41							DRILLER: L. Perry, B. Maher, M. Fitzpatrick					CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler					SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)					WATER DEPTH: 2.6'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner					PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --					CASING TYPE: N/A			
Depth (Ft. bml) 1 2 3 4 5 6 7 8	Sample ID VC-555 (0-0.5') VC-555 (0.5-1') VC-555 (1-2') VC-555 (2-3') VC-555 (3-4') VC-555 (4-5') VC-555 (5-6') VC-555 (6-8')	Submittal (A,H) H H H A A A H	Recovery (ft.) 9.0'	PID (ppm) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1	Reading At .5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 6.5' 7.5'	Sample Type	Lithology / Remarks 0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-2.0'. Wet-moist 2.0-4.0'. Moist 4.0-8.0'. Slight odor from 2.0-8.0'. Soft 0.0-0.5' Brown. 0.5-2.0' Grey. 2.0-4.0', 5.0-6.0', 6.5-8.0' Brown-grey. 4.0-5.0', 6.0-6.5' Dark grey.					Boring Construction 1 2 3 4 5 6 7 8			
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.															

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-556			
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 07:29							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 2.7'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-556 (0-0.5')	H	9.7'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-4.0'. Wet-moist 4.0-8.0'. Odor from 3.0-6.0, Slight odor 6.0-8.0'. Soft 0.0-0.5' Brown-grey. 0.5-2.0' Dark brown. 2.0-3.0' Grey-brown. 3.0-4.0' Grey. 4.0-6.0' Dark grey. 6.0-8.0' Dark grey with some brown.			1 2 3 4 5 6 7 8		
		VC-556 (0.5-1')	H		0.0	1'							
2		VC-556 (1-2')	H		0.0	1.5'							
3		VC-556 (2-3')	A		0.0	2.5'							
4		VC-556 (3-4')	A		0.0	3.5'							
5		VC-556 (4-5')	A		0.0	4.5'							
6		VC-556 (5-6')	H		0.1	5.5'							
7		VC-556 (6-8')	H		0.0	6.5'							
8				0.0	7.5'								
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-557			
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 07:01							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.0'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-557 (0-0.5')	H	9.5'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0'. Odor from 2.0-6.0'. Some wood from 2.0-3.0'. Soft. 0.0-0.5', 2.0-3.0' Grey-brown. 0.5-2.0' Dark brown. 2.0-3.0' Grey-brown. 3.0-8.0' Dark grey.			1		
		VC-557 (0.5-1')	H		0.0	1'					2		
2		VC-557 (1-2')	A		0.0	1.5'					3		
3		VC-557 (2-3')	A		0.0	2.5'					4		
4		VC-557 (3-4')	A		0.0	3.5'					5		
5		VC-557 (4-5')	A		0.0	4.5'					6		
6		VC-557 (5-6')	H		0.0	5.5'					7		
7		VC-557 (6-8')	H		0.0	6.5'					8		
8				0.0	7.5'								
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-558			
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 06:46							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 3.0'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-558 (0-0.5')	H	9.1'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-1.0', 3.0-8.0'. Moist-wet 1.0-2.0'. Moist-dry 2.0-3.0'. Slight odor from 3.0-4.0'. Odor from 4.0-6.0'. Thin layer of fine gravel from 5.0-6.0'. 0.0-0.5', 2.0-3.0' Grey-brown. 0.5-2.0', 3.0-5.0' Grey. 5.0-6.0' Grey with some brown. 6.0-8.0' Dark grey with some brown.			1		
2		VC-558 (0.5-1')	H		0.0	1'					2		
3		VC-558 (1-2')	A		0.0	1.5'					3		
4		VC-558 (2-3')	A		0.0	2.5'					4		
5		VC-558 (3-4')	A		0.0	3.5'					5		
6		VC-558 (4-5')	A		0.0	4.5'					6		
7		VC-558 (5-6')	H		0.0	5.5'					7		
8		VC-558 (6-8')	H		0.0	6.5'					8		
								END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.					
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-559			
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 08:25							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 4.9'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml) 1 2 3 4 5 6 7 8	Sample ID VC-559 (0-0.5') VC-559 (0.5-1') VC-559 (1-2') VC-559 (2-3') VC-559 (3-4') VC-559 (4-5') VC-559 (5-6') VC-559 (6-8')	Submittal (A,H) H H H A A A A A	Recovery (ft.) 9.0'	PID (ppm) 0.0 0.0 0.0 0.0 0.0 0.4 0.3 0.0 0.0	Reading At .5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 6.5' 7.5'	Sample Type	Lithology / Remarks 0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-3.0'. Wet-moist 3.0-4.0'. Moist 4.0-8.0'. Soft. Odor from 4.0-5.0'. 0.0-1.0', 5.0-7.5' Brown. 1.0-2.0' Brown with grey. 2.0-5.0' Brown-grey. 7.5-8.0' Grey.			Boring Construction 1 2 3 4 5 6 7 8			
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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Sovereign Consulting Inc.							CLIENT: Atlantic Richfield Company				Boring ID: VC-560						
111-A North Gold Dr.							PROJECT: Former Anaconda Wire & Cable										
Robbinsville, New Jersey 08691							LOCATION: 1 River Street, Hastings-On-Hudson, NY										
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.				TOTAL DEPTH: 8.0'						
COMPLETION DATE, TIME: 10/2/18 08:17							DRILLER: L. Perry, B. Maher, M. Fitzpatrick				CASING ELEVATION: N/A						
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler				SURFACE ELEVATION: N/A						
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)				WATER DEPTH: 1.3'						
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner				PENETRATION: 9.5'						
SCREEN TYPE / SLOT: --							FILTER PACK: --				CASING TYPE: N/A						
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks				Boring Construction					
1		VC-560 (0-0.5')	H	9.3'	0.0	.5'		0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-5.0'. Moist-dry 5.0-8.0'. Soft. Slight odor from 4.0-5.0'. Odor from 6.0-8.0'. 0.0-0.5' Brown. 0.5-5.0' Dark grey. 5.0-6.0' Grey. 6.0-8.0' Grey-brown.				1					
		VC-560 (0.5-1')	H		0.0	1'											
2		VC-560 (1-2')	H		0.0	1.5'								2			
		VC-560 (2-3')	A		0.0	2.5'								3			
3		VC-560 (3-4')	A		0.0	3.5'								4			
4		VC-560 (4-5')	A		0.0	4.5'								5			
5		VC-560 (5-6')	A		0.0	5.5'								6			
6		VC-560 (6-8')	A		0.0	6.5'								7			
7																	
8																	
								END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.									

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-561			
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/2/18 08:34							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 0.9'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml) 1 2 3 4 5 6 7 8	Sample ID VC-561 (0-0.5') VC-561 (0.5-1') VC-561 (1-2') VC-561 (2-3') VC-561 (3-4') VC-561 (4-5') VC-561 (5-6') VC-561 (6-8')	Submittal (A,H) H H H A A A A A	Recovery (ft.) 9.4'	PID (ppm) 0.0 0.0 0.0 0.0 0.0 0.0 5.8 0.0 0.0	Reading At .5' 1' 1.5' 2.5' 3.5' 4.5' 5.5' 6.5' 7.5'	Sample Type	Lithology / Remarks 0.0-8.0' (ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0'. Soft. Odor from 5.0-8.0'. 0.0-0.5' Brown. 0.5-2.0' Grey-brown. 2.0-3.0', 4.0-8.0' Dark brown-grey. 3.0-4.0' Dark grey.			Boring Construction 1 2 3 4 5 6 7 8			
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-562			
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/2/18 11:41							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 1.5'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.5'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-562 (0-0.5')	H	9.1'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0'. Soft. Slight odor from 3.0-4.0', Odor from 6.0-8.0'. 0.0-0.5' Brown. 0.5-4.0' Grey. 4.0-7.5' Dark grey. 7.5-8.0' Dark brown.			1 2 3 4 5 6 7 8		
		VC-562 (0.5-1')	H		0.0	1'							
2		VC-562 (1-2')	H		0.0	1.5'							
3		VC-562 (2-3')	A		0.0	2.5'							
4		VC-562 (3-4')	A		0.0	3.5'							
5		VC-562 (4-5')	A		0.0	4.5'							
6		VC-562 (5-6')	H		0.1	5.5'							
7		VC-562 (6-8')	H		0.0	6.5'							
8				0.0	7.5'								
END OF BORING AT 9.5'. 8.0-9.5' NOT LOGGED OR SAMPLED.													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

Page 1 of 1

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-563			
START DATE: 10/2/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/2/18 11:57							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 1.6'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-563 (0-0.5')	H	9.7'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-0.5'. Moist 0.5-8.0'. Odor from 3.0-8.0'. 0.0-0.5' Brown. 0.5-2.0' Grey. 2.0-3.0', 6.0-8.0' Grey-brown. 3.0-5.0' Dark grey. 5.0-6.0' Dark grey with some brown.			1		
		VC-563 (0.5-1')	H		0.0	1'					2		
2		VC-563 (1-2')	H		0.0	1.5'					3		
3		VC-563 (2-3')	A		0.0	2.5'					4		
4		VC-563 (3-4')	A		0.0	3.5'					5		
5		VC-563 (4-5')	A		0.0	4.5'					6		
6		VC-563 (5-6')	H		0.0	5.5'					7		
7		VC-563 (6-8')	H		0.0	6.5'					8		
8					0.0	7.5'							
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.													
KEY: A = Analyze H = Hold United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)													
SM ML SP SP-SM Concrete/Fill GP GM GP-GM													
Page 1 of 1													

Sovereign Consulting Inc. 111-A North Gold Dr. Robbinsville, New Jersey 08691							CLIENT: Atlantic Richfield Company PROJECT: Former Anaconda Wire & Cable LOCATION: 1 River Street, Hastings-On-Hudson, NY			Boring ID: VC-564			
START DATE: 10/3/18							DRILLING CO.: CR Environmental Inc.			TOTAL DEPTH: 8.0'			
COMPLETION DATE, TIME: 10/3/18 07:13							DRILLER: L. Perry, B. Maher, M. Fitzpatrick			CASING ELEVATION: N/A			
BORING DIAMETER: 3"							DRILL RIG / METHOD: Boat-Mounted (Lophius) Pneumatic Vibracore Sampler			SURFACE ELEVATION: N/A			
WELL DIAMETER: --							LOGGED BY: E. Lotito (Sovereign)			WATER DEPTH: 2.7'			
SCREENED INTERVAL: --							SAMPLING METHOD: 3" hard plastic liner			PENETRATION: 9.8'			
SCREEN TYPE / SLOT: --							FILTER PACK: --			CASING TYPE: N/A			
Depth (Ft. bml)		Sample ID	Submittal (A,H)	Recovery (ft.)	PID (ppm)	Reading At	Sample Type	Lithology / Remarks			Boring Construction		
1		VC-564 (0-0.5')	H	9.5'	0.0	.5'		(ML) Silt. 100% fines. Wet 0.0-2.0'. Moist 2.0-8.0'. Odor from 3.0-8.0'. Soft 0.0-6.0'. Soft-hard 6.0-8.0'. 0.0-0.5' Brown-grey. 0.5-3.0', 5.0-8.0' Grey. 3.0-5.0' Dark grey.			1 2 3 4 5 6 7 8		
		VC-564 (0.5-1')	H		0.0	1'							
2		VC-564 (1-2')	A		0.0	1.5'							
3		VC-564 (2-3')	A		0.0	2.5'							
4		VC-564 (3-4')	A		0.0	3.5'							
5		VC-564 (4-5')	A		0.0	4.5'							
6		VC-564 (5-6')	A		0.0	5.5'							
7		VC-564 (6-8')	H		0.0	6.5'							
8				0.0	7.5'								
END OF BORING AT 9.8'. 8.0-9.8' NOT LOGGED OR SAMPLED.													

KEY:

A = Analyze

H = Hold

United Soil Classification System (USCS) ASTM 2488 (Visual-Manual Procedure)

SM

ML

SP

SP-SM

Concrete/Fill

GP

GM

GP-GM

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ATTACHMENT D

Laboratory Reports

SECTION 3.3

Sediment Analytical Summary Table
(Laboratory issued data reports available upon request)

TABLE - SEDIMENT ANALYTICAL RESULTS (SEPTEMBER & OCTOBER 2018)
FORMER ANACONDA CABLE AND WIRE COMPANY - HASTINGS-ON-HUDSON, NEW YORK
MARCH 2019

Location	Sample Depth (bgs)	Sample Date	Sample Type	Copper (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1262 (mg/kg)	Aroclor-1268 (mg/kg)	Total PCBs (mg/kg)
VC-511A	5-6 (ft)	10/1/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	5.8	6.1	ND (0.093)	0.62	ND (0.093)	0.24	12.8
VC-511A	6-8 (ft)	10/1/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	2.6	2.6	ND (0.092)	0.99	ND (0.092)	0.48	6.7
VC-511B	5-6 (ft)	10/1/2018	N	--	--	--	ND (0.096)	ND (0.096)	ND (0.096)	2.6	3.1	ND (0.096)	0.34	ND (0.096)	0.1	6.2
VC-511B	6-8 (ft)	10/1/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	2.9 J	3.5	ND (0.087)	0.71	ND (0.087)	0.55	7.6 J
VC-511C	5-6 (ft)	10/1/2018	N	--	--	--	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)	2.6	ND (0.085)	1.5	ND (0.085)	0.8	4.9
VC-511C	6-8 (ft)	10/1/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	1.4	ND (0.089)	1.9	ND (0.089)	1.3	4.5
VC-517A	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.098)	ND (0.098)	ND (0.098)	0.32 J	0.43	ND (0.098)	0.1	ND (0.098)	ND (0.098)	0.85 J
VC-517A	1-2 (ft)	10/2/2018	FD	--	--	--	ND (0.099)	ND (0.099)	ND (0.099) J	ND (0.099)	0.5	ND (0.099)	0.091 J	ND (0.099)	ND (0.099)	0.59 J
VC-517B	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.1) J	ND (0.1) J	ND (0.1) J	ND (0.1) J	0.43 J	ND (0.1) J	0.092 J	ND (0.1) J	ND (0.1) J	0.52 J
VC-517C	1-2 (ft)	10/1/2018	N	--	--	--	ND (0.1) J	ND (0.1) J	ND (0.1) J	ND (0.1) J	0.44 J	ND (0.1) J	0.083 J	ND (0.1) J	ND (0.1) J	0.52 J
VC-518A	4-5 (ft)	10/1/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	1.6	2.1	ND (0.093)	0.37	ND (0.093)	0.19	4.3
VC-518B	4-5 (ft)	10/1/2018	N	--	--	--	ND (0.097)	ND (0.097)	ND (0.097)	1.2	1.5	ND (0.097)	0.18	ND (0.097)	ND (0.097)	2.9
VC-518C	4-5 (ft)	10/1/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	2.8	3	ND (0.092)	0.23	ND (0.092)	0.059 J	6 J
VC-522A	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.078)	ND (0.078)	ND (0.078)	1.6	2	ND (0.078)	1.5	ND (0.078)	0.79	5.8
VC-522A	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.084)	ND (0.084)	ND (0.084)	0.7	1.4	ND (0.084)	1.5	ND (0.084)	0.91	4.5
VC-522A	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	1	ND (0.087)	2.4	ND (0.087)	1.8	5.2
VC-522A	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.098)	ND (0.098)	ND (0.098)	ND (0.098)	1.4	ND (0.098)	2.2	ND (0.098)	1.5	5.1
VC-522B	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.07)	ND (0.07)	ND (0.07)	0.55	0.69	ND (0.07)	0.28	ND (0.07)	0.15	1.7
VC-522B	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.076)	ND (0.076)	ND (0.076)	1	1.6	ND (0.076)	1.1	ND (0.076)	0.53	4.3
VC-522B	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	0.53	1.2	ND (0.087)	1.4	ND (0.087)	0.95	4.1
VC-522B	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	1.9	ND (0.086)	3.9	ND (0.086)	2.6	8.4
VC-522C	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.39	0.51	ND (0.08)	0.21	ND (0.08)	0.12	1.2
VC-522C	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.071)	ND (0.071)	ND (0.071)	0.94	1.7	ND (0.071)	1.2	ND (0.071)	0.56	4.4
VC-522C	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	0.72	1.7	ND (0.079)	1.8	ND (0.079)	1	5.3
VC-522C	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	0.73	1.9	ND (0.092)	2	ND (0.092)	1	5.7
VC-522C	2-3 (ft)	10/2/2018	FD	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	0.99	1.6	ND (0.077)	1	ND (0.077)	0.49	4.1
VC-525A	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	0.98	ND (0.081)	1.6	ND (0.081)	1.1	3.6
VC-525A	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	13.6	ND (0.095)	14.7	ND (0.095)	7.2	35.6
VC-525B	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091) J	ND (0.091)	8.4	ND (0.091)	7.2	15.6 J
VC-525B	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	0.32	ND (0.099)	0.43	ND (0.099)	0.42	1.2
VC-525B	3-4 (ft)	9/27/2018	FD	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.1 J	ND (0.093)	3.4	ND (0.093)	2.5	8.1 J
VC-525C	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	1.5	ND (0.092)	2.1	ND (0.092)	1.4	5.1
VC-525C	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.3	ND (0.093)	3.4	ND (0.093)	2.5	8.1
VC-526A	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)
VC-526A	4-5 (ft)	9/27/2018	FD	--	--	--	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)
VC-526B	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	3.9	ND (0.083)	3.8	ND (0.083)	2.2	9.9
VC-526C	4-5 (ft)	9/27/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)
VC-530A	1-2 (ft)	10/1/2018	N	--	--	--	ND (0.074)	ND (0.074)	ND (0.074)	0.46	0.6	ND (0.074)	0.21	ND (0.074)	0.071 J	1.3 J
VC-530A	2-3 (ft)	10/1/2018	N	--	--	--	ND (0.078)	ND (0.078)	ND (0.078)	0.96	1.1	ND (0.078)	0.54	ND (0.078)	0.28	2.9
VC-530A	3-4 (ft)	10/1/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.1	ND (0.093)	4.1	ND (0.093)	3.1	9.3
VC-530B	1-2 (ft)	10/1/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	2.9	2.6	ND (0.079)	0.8	ND (0.079)	0.47	6.7
VC-530B	2-3 (ft)	10/1/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	0.39	1.1	ND (0.077)	1.4	ND (0.077)	1	3.9
VC-530B	3-4 (ft)	10/1/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	2.1	ND (0.095)	2.3	ND (0.095)	1.6	5.9

TABLE - SEDIMENT ANALYTICAL RESULTS (SEPTEMBER & OCTOBER 2018)
FORMER ANACONDA CABLE AND WIRE COMPANY - HASTINGS-ON-HUDSON, NEW YORK
MARCH 2019

Location	Sample Depth (bgs)	Sample Date	Sample Type	Copper (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1262 (mg/kg)	Aroclor-1268 (mg/kg)	Total PCBs (mg/kg)
VC-530C	1-2 (ft)	10/1/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	0.22	0.3	ND (0.079)	0.093	ND (0.079)	ND (0.079)	0.61
VC-530C	2-3 (ft)	10/1/2018	N	--	--	--	ND (0.082)	ND (0.082)	ND (0.082)	1.6	1.6	ND (0.082)	1	ND (0.082)	0.56	4.8
VC-530C	3-4 (ft)	10/1/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	11.3	ND (0.095)	10.2	ND (0.095)	7.4	28.8
VC-531A	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.069)	ND (0.069)	ND (0.069)	0.68	0.79	ND (0.069)	0.66	ND (0.069)	0.4	2.5
VC-531A	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.46	0.92	ND (0.08)	1.5	ND (0.08)	1	3.9
VC-531A	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	1.8	ND (0.093)	4.1	ND (0.093)	3.3	9.2
VC-531B	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.075)	ND (0.075)	ND (0.075)	2.1	2.2	ND (0.075)	0.52	ND (0.075)	0.31	5.1
VC-531B	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.084)	ND (0.084)	ND (0.084)	0.34 J	0.98	ND (0.084)	2	ND (0.084)	1.6	4.9 J
VC-531B	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	0.65	ND (0.095)	1	ND (0.095)	0.68	2.3
VC-531C	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	1	1.2	ND (0.079)	0.39	ND (0.079)	0.19	2.8
VC-531C	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.081)	ND (0.081)	ND (0.081)	0.53	1.1	ND (0.081)	1.6	ND (0.081)	1.1	4.4
VC-531C	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	1.4	ND (0.091)	2.1	ND (0.091)	1.7	5.2
VC-532A	0.5-1 (ft)	9/27/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	0.15	ND (0.083)	0.059 J	0.21 J
VC-532A	1-2 (ft)	9/27/2018	N	--	--	--	ND (0.075)	ND (0.075)	ND (0.075)	1	1.8	ND (0.075)	1.9	ND (0.075)	1.1	5.8
VC-532A	2-3 (ft)	9/27/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.34	ND (0.089)	0.8	ND (0.089)	0.58	1.7
VC-532A	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.053 J	ND (0.088)	0.044 J	0.097 J
VC-532C	0.5-1 (ft)	9/27/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.15	0.2	ND (0.08)	0.049 J	ND (0.08)	ND (0.08)	0.39 J
VC-532C	1-2 (ft)	9/27/2018	N	--	--	--	ND (0.074)	ND (0.074)	ND (0.074)	2.4	2.4	ND (0.074)	0.54	ND (0.074)	0.27	5.7
VC-532C	2-3 (ft)	9/27/2018	N	--	--	--	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)	0.64	ND (0.085)	0.97	ND (0.085)	0.63	2.2
VC-532C	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.52	ND (0.09)	1	ND (0.09)	0.78	2.3
VC-537A	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.0078)	ND (0.0078)	ND (0.0078)	0.11	0.13	ND (0.0078)	0.039	ND (0.0078)	0.022	0.3
VC-537A	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	1.9	ND (0.087)	3.3	ND (0.087)	2.6	7.8
VC-537B	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	1.4	1.7	ND (0.077)	0.58	ND (0.077)	0.24	3.9
VC-537B	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	3.4	ND (0.089)	2.4	ND (0.089)	1.9	7.7
VC-538A	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.073)	ND (0.073)	ND (0.073)	0.57	0.99	ND (0.073)	0.55	ND (0.073)	0.33	2.4
VC-538A	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	3.2	ND (0.091)	6.7	ND (0.091)	5.4	15.4
VC-538B	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.071)	ND (0.071)	ND (0.071)	0.48	0.73	ND (0.071)	0.49	ND (0.071)	0.27	2
VC-538B	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.076)	ND (0.076)	ND (0.076)	0.27 J	0.94	ND (0.076)	1.6	ND (0.076)	1.2	4 J
VC-538C	1-2 (ft)	10/2/2018	N	--	--	--	ND (0.072)	ND (0.072)	ND (0.072)	0.81	1.1	ND (0.072)	0.67	ND (0.072)	0.3	2.9
VC-538C	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	1.1	ND (0.081)	1.2	ND (0.081)	0.96	3.2
VC-539A	0.5-1 (ft)	9/27/2018	N	--	--	--	ND (0.076)	ND (0.076)	ND (0.076)	0.15	0.22	ND (0.076)	0.1	ND (0.076)	0.066 J	0.54 J
VC-539A	1-2 (ft)	9/27/2018	N	--	--	--	ND (0.069)	ND (0.069)	ND (0.069)	0.48 J	1 J	ND (0.069)	0.75 J	ND (0.069)	0.57 J	2.8 J
VC-539A	2-3 (ft)	9/27/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	ND (0.079)	0.6	ND (0.079)	1.3	ND (0.079)	1.1	3
VC-539A	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	0.33	ND (0.082)	0.28	0.61
VC-539B	0.5-1 (ft)	9/27/2018	N	--	--	--	ND (0.076)	ND (0.076)	ND (0.076)	0.17	0.23	ND (0.076)	0.08	ND (0.076)	ND (0.076)	0.49
VC-539B	1-2 (ft)	9/27/2018	N	--	--	--	ND (0.074)	ND (0.074)	ND (0.074)	0.76	1.3	ND (0.074)	1.1	ND (0.074)	0.83	4
VC-539B	2-3 (ft)	9/27/2018	N	--	--	--	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	0.64	ND (0.078)	1.8	ND (0.078)	1.7	4.1
VC-539B	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.073)	ND (0.073)	ND (0.073)	ND (0.073)	ND (0.073)	ND (0.073)	0.027 J	ND (0.073)	ND (0.073)	0.027 J
VC-539C	0.5-1 (ft)	9/27/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	0.15	0.22	ND (0.077)	0.1	ND (0.077)	0.063 J	0.54 J
VC-539C	1-2 (ft)	9/27/2018	N	--	--	--	ND (0.071)	ND (0.071)	ND (0.071)	0.46 J	1.2 J	ND (0.071)	0.69 J	ND (0.071)	0.41 J	2.7 J
VC-539C	2-3 (ft)	9/27/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	5.4	ND (0.083)	5.4	ND (0.083)	3.9	14.7
VC-539C	3-4 (ft)	9/27/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	0.042 J	ND (0.077)	0.06 J	0.1 J
VC-540A	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.073)	ND (0.073)	ND (0.073)	0.46	0.75	ND (0.073)	0.6	ND (0.073)	0.29	2.1
VC-540A	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	2.5	ND (0.078)	2.8	ND (0.078)	1.8	7
VC-540A	2-3 (ft)	9/26/2018	FD	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	1.8	ND (0.08)	2.6	ND (0.08)	1.5	5.9

TABLE - SEDIMENT ANALYTICAL RESULTS (SEPTEMBER & OCTOBER 2018)
FORMER ANACONDA CABLE AND WIRE COMPANY - HASTINGS-ON-HUDSON, NEW YORK
MARCH 2019

Location	Sample Depth (bgs)	Sample Date	Sample Type	Copper (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1262 (mg/kg)	Aroclor-1268 (mg/kg)	Total PCBs (mg/kg)
VC-540B	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	1.2	2.5	ND (0.077)	1.1	ND (0.077)	1.1	5.9
VC-540B	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	1.7	ND (0.083)	3	ND (0.083)	1.8	6.5
VC-540C	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.073)	ND (0.073)	ND (0.073)	0.58	1.2	ND (0.073)	1.1	ND (0.073)	0.64	3.6
VC-540C	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	2.6	ND (0.088)	5.1	ND (0.088)	3.8	11.6
VC-541	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	8.3	7	0.99	ND (0.093)	ND (0.093)	0.13	16.5
VC-541	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.8	ND (0.093)	0.56	ND (0.093)	0.31	3.6
VC-541	6-8 (ft)	9/26/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.72	ND (0.088)	0.58	ND (0.088)	0.37	1.7
VC-541	4-5 (ft)	9/26/2018	FD	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	4.8	4.7	0.64	ND (0.092)	ND (0.092)	0.29	10.5
VC-542	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.086)	ND (0.086)	ND (0.086)	ND (0.086)	0.73	ND (0.086)	0.42	ND (0.086)	0.23	1.4
VC-542	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	0.54	ND (0.092)	0.59	ND (0.092)	0.35	1.5
VC-542	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	1.5	ND (0.095)	2.8	ND (0.095)	2.2	6.4
VC-542	6-8 (ft)	9/26/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	4.9	ND (0.091)	6.4	ND (0.091)	4.9	16.1
VC-543	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	1.1	2.7	ND (0.083)	1.6	ND (0.083)	1.4	6.9
VC-543	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.2	ND (0.093)	4.7	ND (0.093)	2.8	9.7
VC-543	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	1.5	ND (0.092)	1.1	ND (0.092)	0.64	3.3
VC-543	6-8 (ft)	9/26/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	4.4	ND (0.092)	5	9.4
VC-544	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)
VC-544	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	1.3	ND (0.082)	1.6	ND (0.082)	0.72	3.6
VC-544	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.98	ND (0.089)	1.7	ND (0.089)	1.3	4
VC-544	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.098)	ND (0.098)	ND (0.098)	ND (0.098)	5.3	ND (0.098)	7.4	ND (0.098)	5.3	18.1
VC-545	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)
VC-545	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	1.2	ND (0.08)	0.39	ND (0.08)	0.19	1.8
VC-545	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.86	1.5	ND (0.08)	1.3	ND (0.08)	0.61	4.3
VC-545	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.92	ND (0.089)	0.88	ND (0.089)	0.61	2.4
VC-545	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	0.91	ND (0.092)	1.2	ND (0.092)	0.76	2.8
VC-546	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)
VC-546	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.084)	ND (0.084)	ND (0.084)	0.45	0.55	ND (0.084)	0.16	ND (0.084)	0.071 J	1.2 J
VC-546	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.079)	ND (0.079)	ND (0.079)	1.1	1.9	ND (0.079)	2.4	ND (0.079)	1.3	6.7
VC-546	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	0.26 J	0.53	ND (0.087)	0.68	ND (0.087)	0.47	1.9 J
VC-546	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.5	ND (0.093)	3.2	ND (0.093)	2.3	8
VC-546	4-5 (ft)	9/26/2018	FD	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	1	ND (0.093)	1.3	ND (0.093)	0.96	3.3
VC-547	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	0.74	0.96	0.26	ND (0.093)	ND (0.093)	0.058 J	2 J
VC-547	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	0.92	1	0.28	ND (0.095)	ND (0.095)	ND (0.095)	2.2
VC-547	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	2.3	2.7	ND (0.095)	0.26	ND (0.095)	0.071 J	5.4 J
VC-547	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	2.6	2.9	ND (0.089)	1	ND (0.089)	0.67	7.2
VC-547	6-8 (ft)	9/26/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	2	ND (0.091)	1.9	ND (0.091)	1.3	5.1
VC-547	2-3 (ft)	9/26/2018	FD	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	0.77	0.88	0.27	0.15 J	ND (0.09)	0.044 J	2.1 J
VC-548	2-3 (ft)	9/25/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	0.82	1.1	0.37	ND (0.092)	ND (0.092)	0.063 J	2.4 J
VC-548	3-4 (ft)	9/25/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	1.8	2.1	0.54	ND (0.091)	ND (0.091)	0.052 J	4.5 J
VC-548	4-5 (ft)	9/25/2018	N	--	--	--	ND (0.096)	ND (0.096)	ND (0.096)	2.9	3.1	0.73	ND (0.096)	ND (0.096)	0.058 J	6.8 J
VC-548	5-6 (ft)	9/25/2018	N	--	--	--	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.094)	0.93	ND (0.094)	1.8	ND (0.094)	1.4	4.1
VC-548	6-8 (ft)	9/25/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	4.8	5.2	1.2	ND (0.088)	ND (0.088)	0.12	11.2
VC-548	2-3 (ft)	9/25/2018	FD	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	0.91	1.3	0.49	ND (0.095)	ND (0.095)	0.084 J	2.8 J

TABLE - SEDIMENT ANALYTICAL RESULTS (SEPTEMBER & OCTOBER 2018)
FORMER ANACONDA CABLE AND WIRE COMPANY - HASTINGS-ON-HUDSON, NEW YORK
MARCH 2019

Location	Sample Depth (bgs)	Sample Date	Sample Type	Copper (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1262 (mg/kg)	Aroclor-1268 (mg/kg)	Total PCBs (mg/kg)
VC-549	1-2 (ft)	9/25/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.6	0.24	ND (0.089)	ND (0.089)	0.052 J	0.9 J
VC-549	2-3 (ft)	9/25/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	1.7	0.58	ND (0.09)	ND (0.09)	0.11	2.3
VC-549	3-4 (ft)	9/25/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	1.1	ND (0.089)	0.91	ND (0.089)	0.5	2.5
VC-549	4-5 (ft)	9/25/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.49	ND (0.09)	0.55	ND (0.09)	0.38	1.4
VC-549	5-6 (ft)	9/25/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	1.9	ND (0.093)	1.1	3
VC-549	6-8 (ft)	9/25/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	6.3	ND (0.09)	5.8	12.1
VC-550	2-3 (ft)	9/25/2018	N	--	--	--	ND (0.086)	ND (0.086)	ND (0.086)	1.2	1.4	ND (0.086)	0.59	ND (0.086)	0.35	3.5
VC-550	3-4 (ft)	9/25/2018	N	--	--	--	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	2	ND (0.082)	2.7	ND (0.082)	1.6	6.4
VC-550	4-5 (ft)	9/25/2018	N	--	--	--	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	5.7	ND (0.099)	10.2	ND (0.099)	6.9	22.8
VC-550	5-6 (ft)	9/25/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.086 J	ND (0.088)	0.1	0.19 J
VC-551	5-6 (ft)	9/25/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)
VC-551	2-3 (ft)	9/25/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	1	ND (0.083)	0.99	ND (0.083)	0.57	2.6
VC-551	3-4 (ft)	9/25/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	1.9	ND (0.092)	4	ND (0.092)	2.5	8.4
VC-551	4-5 (ft)	9/25/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	1.6	ND (0.095)	4.1	ND (0.095)	2.4	8.1
VC-551	2-3 (ft)	9/25/2018	FD	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	1.6	ND (0.08)	1.3	ND (0.08)	0.61	3.5
VC-552	1-2 (ft)	9/26/2018	N	--	--	--	ND (0.086)	ND (0.086)	ND (0.086)	0.7	0.87	ND (0.086)	0.27	ND (0.086)	0.26	2.1
VC-552	2-3 (ft)	9/26/2018	N	--	--	--	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	1.1	ND (0.081)	0.86	ND (0.081)	0.52	2.5
VC-552	3-4 (ft)	9/26/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.93	ND (0.089)	1.8	ND (0.089)	1.4	4.1
VC-552	4-5 (ft)	9/26/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	3.5	ND (0.093)	5.3	ND (0.093)	3.6	12.4
VC-552	5-6 (ft)	9/26/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	5	ND (0.09)	6.4	ND (0.09)	5.4	16.8
VC-552	6-8 (ft)	9/26/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	0.063 J	0.063 J
VC-553	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	2.7	3.2	ND (0.088)	0.3	ND (0.088)	0.071 J	6.3 J
VC-553	5-6 (ft)	10/3/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	5.6	5.9	1.3	ND (0.089)	ND (0.089)	0.19	13
VC-553	6-8 (ft)	10/3/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	1.7	2.4	ND (0.089)	1.1	ND (0.089)	0.57	5.8
VC-554	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	3.8	4.2	ND (0.092)	0.36	ND (0.092)	0.092	8.5
VC-554	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	0.62	1.3	ND (0.089)	0.97	ND (0.089)	0.58	3.5
VC-554	5-6 (ft)	10/3/2018	N	--	--	--	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.094)	1	ND (0.094)	1.2	ND (0.094)	0.99	3.2
VC-554	6-8 (ft)	10/3/2018	N	--	--	--	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	2.2	ND (0.087)	5.1	ND (0.087)	3.8	11.1
VC-555	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.59	ND (0.088)	0.29	0.88
VC-555	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	0.36	0.79	ND (0.092)	0.53	ND (0.092)	0.25	1.9
VC-555	6-8 (ft)	10/3/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	8.8	ND (0.092)	14	ND (0.092)	10.7	33.5
VC-555	6-8 (ft)	10/3/2018	N	--	--	--	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)	0.1	ND (0.085)	0.13	ND (0.085)	0.13	0.36
VC-556	2-3 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	3.2	ND (0.088)	1.9	5.1
VC-556	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	5.3	ND (0.091)	4.5	9.8
VC-556	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	0.42	ND (0.092)	0.35	0.76
VC-557	1-2 (ft)	10/3/2018	N	--	--	--	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	ND (0.078)	0.61	ND (0.078)	0.32	0.93
VC-557	2-3 (ft)	10/3/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	1.3	ND (0.08)	0.85	2.2
VC-557	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	3.3	ND (0.091)	2.2	5.6
VC-557	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.12	ND (0.088)	0.099	0.22
VC-558	1-2 (ft)	10/3/2018	N	--	--	--	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	ND (0.077)	0.46	ND (0.077)	0.25	0.71
VC-558	2-3 (ft)	10/3/2018	N	--	--	--	ND (0.074)	ND (0.074)	ND (0.074)	ND (0.074)	ND (0.074)	ND (0.074)	1.3	ND (0.074)	0.63	1.9
VC-558	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	1.1	ND (0.097)	0.82	1.9
VC-558	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.081)	3.8	ND (0.081)	3	6.8
VC-558	5-6 (ft)	10/3/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	0.1	ND (0.091)	0.079	0.18

TABLE - SEDIMENT ANALYTICAL RESULTS (SEPTEMBER & OCTOBER 2018)
FORMER ANACONDA CABLE AND WIRE COMPANY - HASTINGS-ON-HUDSON, NEW YORK
MARCH 2019

Location	Sample Depth (bgs)	Sample Date	Sample Type	Copper (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1262 (mg/kg)	Aroclor-1268 (mg/kg)	Total PCBs (mg/kg)
VC-559	2-3 (ft)	10/3/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	0.63	0.89	ND (0.092)	0.19	ND (0.092)	0.065 J	1.8 J
VC-559	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.09)	ND (0.09)	ND (0.09)	0.82	1.1	ND (0.09)	0.26	ND (0.09)	0.11	2.3
VC-559	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	1.8	2.2	ND (0.088)	0.39	ND (0.088)	0.16	4.6
VC-559	5-6 (ft)	10/3/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	3.3	4	ND (0.089)	0.47	ND (0.089)	0.23	8
VC-559	6-8 (ft)	10/3/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	3.5	4.2	ND (0.089)	0.55	ND (0.089)	0.19	8.4
VC-560	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	4.7	4.7	ND (0.092)	1.3	ND (0.092)	0.67	11.3
VC-560	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	1.5	2.2	ND (0.088)	2.1	ND (0.088)	1.4	7.2
VC-560	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.091)	ND (0.091)	ND (0.091)	0.22	0.44	ND (0.091)	0.55	ND (0.091)	0.42	1.6
VC-560	5-6 (ft)	10/2/2018	N	--	--	--	ND (0.096)	ND (0.096)	ND (0.096)	ND (0.096)	0.72	ND (0.096)	1.2	ND (0.096)	0.92	2.8
VC-560	6-8 (ft)	10/2/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	1.2	ND (0.093)	2.3	ND (0.093)	1.8	5.3
VC-561	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	1.6	2.5	ND (0.093)	0.81	ND (0.093)	0.24	5.1
VC-561	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.094)	ND (0.094)	ND (0.094)	0.46	1.1	ND (0.094)	0.93	ND (0.094)	0.61	3.1
VC-561	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	1.3	ND (0.092)	1.8	ND (0.092)	1.2	4.3
VC-561	5-6 (ft)	10/2/2018	N	--	--	--	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	1.2	ND (0.095)	1.9	ND (0.095)	1.1	4.3
VC-561	6-8 (ft)	10/2/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	1.9	ND (0.093)	4.8	ND (0.093)	2.8	9.4
VC-562	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	0.78	ND (0.089)	0.7	ND (0.089)	0.48	2
VC-562	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	ND (0.093)	2.6	ND (0.093)	1.7	4.3
VC-562	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.094)	8.4	ND (0.094)	14.2	ND (0.094)	13.5	36
VC-562	5-6 (ft)	10/2/2018	N	--	--	--	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.092)	0.15	ND (0.092)	0.14	0.29
VC-563	2-3 (ft)	10/2/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.5 J	1.5	ND (0.08)	1.4	ND (0.08)	0.79	4.2 J
VC-563	3-4 (ft)	10/2/2018	N	--	--	--	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	12.2	ND (0.099)	9.2	21.4
VC-563	4-5 (ft)	10/2/2018	N	--	--	--	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	0.55	ND (0.083)	0.54	1.1
VC-564	1-2 (ft)	10/3/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	0.57	0.75	ND (0.08)	0.25	ND (0.08)	0.11	1.7
VC-564	2-3 (ft)	10/3/2018	N	--	--	--	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	3	ND (0.08)	12.2	ND (0.08)	10.5	25.7
VC-564	3-4 (ft)	10/3/2018	N	--	--	--	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)	1.4	ND (0.085)	1.9	ND (0.085)	1.1	4.3
VC-564	4-5 (ft)	10/3/2018	N	--	--	--	ND (0.096)	ND (0.096)	ND (0.096)	ND (0.096)	10.4	ND (0.096)	17.4	ND (0.096)	12	39.7
VC-564	5-6 (ft)	10/3/2018	N	--	--	--	ND (0.088)	ND (0.088)	ND (0.088)	ND (0.088)	0.19	ND (0.088)	0.24	ND (0.088)	0.2	0.63

ATTACHMENT E

Data Usability Reports

Available Upon Request.
(All Data Validation is Complete)