BP SERVICE STATION 4001-4010 4th Avenue **BROOKLYN, NEW YORK** SPILL # 18-11146

Supplemental Investigation Soil and Groundwater Report

Prepared for: New York State Department of Environmental Conservation Region II Long Island City New York

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

PREPARED BY:

BERNINGER ENVIRONMENTAL 17 OLD DOCK ROAD YAPHANK, NEW YORK 11980



October 2021

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Berninger Environmental

groundwater consultants, geologists and scientists 17 Old Dock Road Yaphank • New York • 11980 A WRS Environmental Services Company

Phone: 631 • 589 • 6521 Fax: 631 • 589 • 6528

October 8th, 2021

Mr. Jonathan Kolleeny Professional Geologist 1-Region 2 Division of Environmental Remediation 47-40 21st Street Long Island City, NY 11101

Re: BP Service Station 4001 4th Avenue (and 40th St) Brooklyn, New York **Groundwater Investigation Soil Profiling Report** Spill # 1811146

Dear Mr. Kolleeny,

Introduction

The following is an Investigation Report for the subject site based on the approved Work Plan, which proposed soil and groundwater sampling. The purpose of the investigation was to vertically delineate soil contamination, analyze groundwater and install a monitoring well. Please read below for the results of the investigation work and monitoring well construction details. Please see Figure-1 for the site location.

Scope of Work

The proposed scope of work involved analyzing groundwater conditions in the area of the highest soil contamination based on our June 2020 Report. The Report indicated that elevated levels of VOC contamination was present at the highest concentrations at the B-4 location, which is located down gradient from the pump islands and USTs. Prior collection of groundwater was not feasible based on the multiple refusals encountered at the 30' depth with the Geoprobe direct push rig (note a possible rock strata located at this depth preventing advancement of direct push equipment). The depth to water in this area is depicted on the USGS "Depth to Water Viewer" 2013 as being in the 50' below grade surface range (bgs). The multiple refusals encountered at the 30' mark and failure to reach the target depth of 50' bgs prompted the use of an air rotary drill rig to reach the target depth. Soil profiling (vertical delineation), screening and sampling of the groundwater via a permanent monitoring well installation was the main objective of the investigation work. The investigation work was conducted on June 10, 2021. Figure-2 depicts the sampling and well location. A photo log is included as Attachment-A.

Soil Profiling and Results

Soil was collected using the duel tube sampling method and soil was screened in 2.5' intervals with a photo ionization detector (PID meter) in order to field screen for the presence of gasoline range volatile organic compounds (VOCs). Soil profiling was conducted from approximately twenty (20') bgs to sixty-five (65') as soil was never previously delineated beyond a depth of thirty (30') feet bgs. Soil mainly consisted of brown silty sand, semi tight with a perched water layer observed at approximately thirty feet (30') below grade. Clayey soils were observed at the 30-35' depth followed by silty sands past 35' with silty loam extending from 50'- 65'. PID readings were highest at the 30'-32.5' mark (1,000 ppm); steadily decreasing with depth before reaching 0.0 from 50'-65'. Soil conditions were logged for various characteristics based on the American Geologist Institute for soil classification.

A soil sample (B-6) from selected interval 45'-50' was submitted for lab analysis in an ice filled cooler to a New York State ELAP certified laboratory for testing via EPA method 8260 (VOCs). The PID reading at this location was approximately 9.0 ppm. Lab results did not indicate any levels of contamination above the New York State Part-375 SOC's. Mostly all constituents analyzed for had non-detect readings. Please see Figure-3a (initial boring conducted to 30') and Figure-3b for the soil lithology log from 30'-65'. Please refer to Table-1 for tabulated soil data and Attachment-B for the lab data package. All soil cutting and liquid was properly drummed and disposed of by Clean Earth. The waste manifest for the investigation derived waste is included as Attachment-C.

Monitoring Well Installation

In order to obtain groundwater samples from this area a permanent groundwater monitoring well (MW-1) was installed. Groundwater was originally anticipated to be in the 50' range but was encountered at approximately 35' bgs. The soil was only in fact saturated from a depth of 35'-40' and observed to be dry from 40'-65'. A permanent monitoring well was installed and includes the following specifications: twenty feet (20') of schedule 40, 2" PVC slot screen (0.02" slot) with thirty feet (30') of schedule 40, 2" PVC riser to grade surface. The total depth of the well is approximately fifty feet (50') to the bottom. The area surrounding the well screen was gravel packed extending to two feet (2') above the well screen and a bentonite grout mix was installed to seal the casing at the top of the gravel pack to one foot (1') below the top of the riser pipe. The top of the well is secured with a j-plug and finished at grade with a flush mounted, five inch (5") cast iron bolt down manhole, cement sealed at the surface. Please refer to Figure-3a and b for well construction details.

Groundwater Sampling Results

The newly installed monitoring well (MW-1) was developed days after its installation and adequately purged of 3-5 well volumes and containerized in laboratory approved glassware. The sample was procured by using the manual oscillation method with clean 3/8" poly-tubing affixed with a check valve sampling device. The samples were transported under a chain of custody to a New York State

ELAP certified laboratory for testing of Volatile Organic Compounds (VOCs) via EPA method 8260. Please see Table-2 for groundwater results compared to NYS TOGS standards.

Conclusion

The results of the soil investigation indicate that elevated contamination exists to a depth of approximately thirty five feet (35') below grade with PID readings of 700 ppm at this depth. Beyond 35' PID readings drastically decreased to 200 ppm to 0.0 from 50'-65'. No evidence of groundwater from 40'-65' with only a 10' zone of perched water from 30'-40'. Soil was delineated at a depth of 40'-45' with no constituents detected above the Part-375 SCOs'. The site has plans to be re-developed at which any suspect tanks and soil contamination can be easily excavated and transported for proper disposal. Any questions or comments regarding this Report can be directed to BEI.

Sincerely, Berninger Environmental

Justin Halpin Scientist/Project Manager

enc. Figure-1 site location Figure-2 sample locations Figure-3a and b soil lithology and monitoring well log. Attachment-A Photo log Attachment-B Lab Data Package Attachment-C IDW manifest Table-1 Soil tabulated data Table-2 Groundwater tabulated data FIGURES

Google Maps 4001 4th Ave



Figure-1 Site Location Brooklyn, NY



	SUBSURFACE PROF	FILE	+001 SA	MPLE	II Ave, DIOOKIYII, IN I
DEPTH	BORING LOCATIC B-4 (former B-6)	M: (mqq) OII	Recov.%	AGI Sym	WELL DETAILS
FT 0	GROUND SURFACE 10YR-6/4; Light yellowish brown silty fine trace gravel, strong odor	sand 38.7	80	SM	5" manhole
2.5	10YR-6/4; Light yellowish brown silty fine trace gravel, strong odor	sand 38.7	80	SM	
5	10YR-5/3; Brown silty fine sand, trace gravel, strong odor	25.0	80	SM	
- 10	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	25.0	80	SM	
12.5	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	199	80	SM	
- 15	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	199	80	SM	
- 17.5	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	4500	80	SM	2" PVC riser pipe
20	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	4500	80	SM	
22.5	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	e 4250	80	SM	
25	10YR-5/3; Brown fine sand and silt, trace gravel, strong odor	e 4250	80	SM	
27.5	10YR-5/3; Brown fine sand and silt, trac gravel, strong odor	e 900	80	SM	gravel pack
30	10YR-5/3; Brown fine sand and silt, trac gravel, strong odor; bedrock fragme	e 500	80	SM	
	Refusal at 30.0'				continued on Figure-
	Notes: Refusal at 30.0'		0.000	Eiguro 2h fo	

BEI BE groundwater cons	erninger vironmental sultants, geologists and scientists rules Company	PROJEC	T: B	P 4t	h Av	L e Brook	OG OF BORING: B
Phone: 631 589 65 17 Old Dock Road	521 I Yaphank, NY 11980	LOCATI	ON:	4001	-4010	0 4th Av	e, Brooklyn, NY
	SUBSURFACE PI	ROFILE		SA	MPI	LE	
DEPTH GRAPHIC	BORING LOCAT B-4 (former B-6	ION:) cont	PID (ppm)	Recov.%	AGI Sym		WELL DETAILS
FT 32.5	10YR-5/3; Brown silty fine sand, lo strong odor; wet	ose	1000	80	SM		2" PVC 0.20" screen \$5
-	10YR-5/3; Brown silty fine sand, lo strong odor; wet	ose	700	80	SM		
35	10YR-5/3; Brown silt/ clay mix; tigh mild odor; wet	nt	200	80	CL		_
- 37.5	10YR-5/3; Brown silt/ clay mix; tigt mild odor; wet	nt	150	80	CL		
40	10YR-5/3; Brown silty loam; tight mild odor; dry	5.	50	80	SM		
42.5	10YR-5/3; Brown silty loam; tight mild odor; dry		45	80	SM		gravel pack 200
45	10YR-5/3; Brown sand/silt/ clay mi mild odor; dry	x; tight	9	80	SM		-
47.5	10YR-5/3; Brown sand/silt/ clay m mild odor; dry	ix; tight	5	80	SM		-
50	10YR-5/3; Brown; silty loam; tight no odor; dry		0	80	SM		2" well point 50' DTB
- 52.5	10YR-5/3; Brown; silty loam; tight no odor; dry 0 80 SM		_				
- 55	10YR-5/3; Brown; silty loam; tight no odor; dry		0	80	SM		_
57.5	10YR-5/3; Brown; silty loam; tight no odor; dry		0	80	SM		_
60	10YR-5/3; Brown; silty loam; tight no odor; dry		0	80	SM		
- 62.5	10YR-5/3; Brown sand/silt/ clay mi no odor; dry	x; tight	0	80	SM		
65							
	Boring end at 65	5' Sampling: B-4 (B-6) Collected at 45-50'					6) Collected at 45-50'

Attachments

Attachment-A Photo Log







Attachment-B Lab Data Package



June 21, 2021

Justin Halpin WRS d.b.a Berninger Environmental 17 Old Dock Road Yaphank, NY 11980 TEL: (631) 589-6521 FAX: (631) 589-6528

RE: BP Gas Station, 4001-4010 4th Ave, Brookl

Order No.: 2106083

Dear Justin Halpin:

American Analytical Laboratories, LLC. received 2 sample(s) on 6/14/2021 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

You Beyer

Lori Beyer Lab Director American Analytical Laboratories, LLC.



Workorder Sample Summary

WO#: 2106083 21-Jun-21

CLIENT:	WRS d.b.a Berninger Environmental
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
2106083-001A	B-6 @ 45'-50'		6/10/2021 11:00:00 AM	6/14/2021 1:00:00 PM	Soil
2106083-002A	MW-1		6/14/2021 10:00:00 AM	6/14/2021 1:00:00 PM	Liquid

CERTIFICATIONS	NY ELAP - 11418 PA DEP - 68-00573	NJ DEP - NY050 CT DOH - PH-0205	Analytical Test / Information	,			51	کال	ņ	০র্গ	78							ABLES Comments / Remarks	Res Residentific PGW 0 2 21 27	DOH Action Lavels X U.V. J. U.S.	LP Hazardous Waste	SDEC EQUIS Cooler Temp:	TIME 1200 PRINTED NAME WOL	DATE PRINTED NAME
Severe 1	A NUL T		t Information	s Shitten	4th Due.	W State Zip	24 82 /	165;		Sample Containers Number of Each Preserved Bottle	отнея меон ружен от часа насо, насо		Z X					ELECTRONIC DELIVERA	NYCRR Part 375 - please circle Unres/ Comm/ Industrial/ Residential/ I	NJ Soil Clean Up Criteria SCI	CP 51 - Gas / Fuel TCI	TOGS NY	YED BY LAB (SIGNATURE)	VED BY LAB (SIGNATURE)
CUSTODY	dale NY 11735	vtical.com	Projec	Project Name BP Co	Street 4001- 4010	CITY Bracklyn	Project # / Purchase Order # /	Sampler's Name / Company N	Sampler's Signature	Sample Collection	e Date Time Glass / Plastic	6/10/21 11:00 6	6 14/21 10:00 G					MATRIX CODE	L = Liquid PC = Paint Chip	S = Soil SL = Sludge	$\mathbf{O} = O\mathbf{i}\mathbf{I}$ $\mathbf{SD} = \mathbf{Solid}$	W = Wipe M = Misc	NAME RECENTING SATIPLES UTAILE PLOEP	NAME
AIN OF C	Toledo Street, Farming	(T) UUTO-PCP-ICO (WWW.american-anal		-		5 (税の				tion	Sample Matrix Cod Type	G S	G L G					SAMPLE TYPE	G = Grab	C = Composite	B = Blank		PRINTED	PRINTED
CHL	56 T SORATORIES	(1)	Client Information	ompany Name BEi	it old Dark Ad.	Apphank No	·Fortect contract Contract	"hone # G21-589.6521	the producses, com	Sample Informat	(LAB USE ONLY) Client Sample ID	2106083-1014 B-6245-50	1-MM -10					Turnaround Time (Business Days)	7-10 Business Days	b Day RUSH	4 Day RUSH	Please dantact laboratory for rush service availability	ELINOUR HED BY (SIGNATURE) DATE 6 - 14 21	ELIÑQUISHED BY (SIGNATURE) DATE



Sample Log-In Check List

Client Name:	Berninger	Work Order Number	2106083		RcptNo: 1
Logged by:	Jenny Mullady	6/14/2021 1:00:00 PM	I	Jonufur Mulla	ly .
Completed By:	Jenny Mullady	6/14/2021 1:21:54 PM	I	Jonifer Mulla	dy 4
Reviewed By:	Phyllis Masi	6/14/2021		Phyllis n	nasi
Chain of Cu	stody			-	
1 Is Chain of	f Custody complete?		Yes 🗸	No 🗌	Not Present
 How was t 	he sample delivered?		Client		
Log In					
3. Coolers ar	e present?		Yes 🗹	No 🗀	
4 Shippina c	container/cooler in good	condition?	Yes 🗸	No 🗌	
Custody se	eals intact on shipping	container/cooler?	Yes	No 🗌	Not Present 🗹
No.	Sea	I Date:	Signed By:		
5. Was an at	tempt made to cool the	samples?	Yes 🗹	No 🗌	NA 🗌
6. Were all s	amples received at a te	mperature of >0° C to 6.0°C	Yes 🔽	No 🗌	
7. Sample(s)	in proper container(s)?		Yes 🖌	No 🗌	
8. Sufficient	sample volume for indic	cated test(s)?	Yes 🗹	No	
9. Are sample	es (except VOA and OI	NG) properly preserved?	Yes 🗹	No	
10. Was prese	ervative added to bottle	s?	Yes 🗌	No 🖌	NA 🗌
11. Is the head	dspace in the VOA vials	s less than 1/4 inch or 6 mm?	Yes 🖌	No 🗌	No VOA Vials
12. Were any	sample containers rece	eived broken?	Yes 🗌	No 🗸	
13. Does pape (Note disc	erwork match bottle lab repancies on chain of c	els? ustody)	Yes 🗹	No 🗌	
14. Are matric	es correctly identified o	n Chain of Custody?	Yes 🖌	No 🗌	
15. Is it clear v	what analyses were req	uested?	Yes 🖌	No	
16. Were all h	olding times able to be	met?	Yes 🖌	No 🗌	
Special Han	dling (if applicabl	e)			
17. Was client	t notified of all discrepa	ncies with this order?	Yes 🗌	No 🗌	NA 🔽
Dares	n Natifiad	Data			
Perso		Date.			
Borr	nom:	Via:			
Clion					
18. Additional	remarks:	1 oz jar with zara haadaaaaa			
Volati	tion	+ oz jar with zero neadspace			
		ondition Seal Intact Sea	I No Seal D	ate Signed	By
Cooler		Sear matter Sea	Juo Jear L	ale Signed	U y



Case Narrative

 WO#:
 2106083

 Date:
 6/21/2021

CLIENT:WRS d.b.a Berninger EnvironmentalProject:BP Gas Station, 4001-4010 4th Ave, Brooklyn,

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion.

Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A by the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method. Analysis was performed from intact soil jar. Volatile LCS are analyzed with preservatives - HCL/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Samples were analyzed at the dilutions notated on the reporting forms. MW-1 was analyzed three times. Initial undiluted analysis yielded target analytes over calibration range with peak saturation. Secondary diluted reanalysis was performed at 1:20 dilution. A tertiary analysis was performed for Benzene and Toluene. Toluene raw concentration was still slightly over range but yielded acceptable peak shape. Toluene has een qualified, "E" for tertiary analysis. Acetone detection was confirmed by reanalysis in soil sample B-6 @ 45'-50'.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Total Phosphorus in soil, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO3 B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical



Case Narrative

WO#: **2106083** Date: **6/21/2021**

CLIENT:	WRS d.b.a Berninger Environmental
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,

Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

Original



Definition Only

WO#: **2106083** Date: **6/21/2021**

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

- S Spike recovery is outside accepted recovery limits.
- R RPD is outside accepted recovery range.
- P Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

PQL - Practical Quantitation Limit; the lowest level that can be reliably achieved within the specific limits of Precision and accuracy. Listed on the QC Summary Forms.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

CLIENT:	WRS d.b.a Berninger Environmental	Client S
Lab Order:	2106083	Collec
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,	
Lab ID:	2106083-001A	

Date: 21-Jun-21

Client Sample ID: B-6 @ 45'-50' Collection Date: 6/10/2021 11:00:00 AM Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			D2	216			Analyst: LB
Percent Moisture	9.90	0	1.00		wt%	1	6/15/2021 2:32:45 PM
VOLATILE SW-846 METHOD 8	260D		SW8	260D	SW5035A		Analyst: IR
1,1,1,2-Tetrachloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1,1-Trichloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1,2,2-Tetrachloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	e ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1,2-Trichloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1-Dichloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1-Dichloroethene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,1-Dichloropropene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2,3-Trichlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2,3-Trichloropropane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2,4,5-Tetramethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2,4-Trichlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2,4-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2-Dibromo-3-chloropropane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2-Dibromoethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2-Dichlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2-Dichloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,2-Dichloropropane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,3-Dichlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,3-dichloropropane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,4-Dichlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
1,4-Dioxane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
2,2-Dichloropropane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
2-Butanone	13	5.7	11		µg/Kg-dry	1	6/16/2021 4:03:00 PM
2-Chloroethyl vinyl ether	ND	11	23	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
2-Chlorotoluene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
2-Hexanone	ND	5.7	11	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
2-Propanol	ND	57	57	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
4-Chlorotoluene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735 Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



CLIENT:	WRS d.b.a Berninger Environmental
Lab Order:	2106083
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,
Lab ID:	2106083-001A

Date: 21-Jun-21

Client Sample ID: B-6 @ 45'-50' Collection Date: 6/10/2021 11:00:00 AM Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHO	D 8260D		SW8	260D	SW503	5A	Analyst: IR
4-Isopropyltoluene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
4-Methyl-2-pentanone	ND	5.7	11	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Acetone	130	5.7	11	В	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Benzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Bromobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Bromochloromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Bromodichloromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Bromoform	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Bromomethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Carbon disulfide	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Carbon tetrachloride	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Chlorobenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Chlorodifluoromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Chloroethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Chloroform	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Chloromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
cis-1,2-Dichloroethene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
cis-1,3-Dichloropropene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Cyclohexane	ND	2.3	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Dibromochloromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Dibromomethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Dichlorodifluoromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Diisopropyl ether	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Ethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Freon-114	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Hexachlorobutadiene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Isopropylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
m,p-Xylene	ND	2.3	11	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Methyl Acetate	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
Methyl tert-butyl ether	74	1.1	5.7		µg/Kg-dry	1	6/16/2021 4:03:00 PM
Methylene chloride	3.4	1.1	5.7	BJ	µg/Kg-dry	1	6/16/2021 4:03:00 PM
n-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM
n-Propylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM

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Original

Page 9 of 13

CLIENT:	WRS d.b.a Berninger Environmental	Clie
Lab Order:	2106083	C
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,	
Lab ID:	2106083-001A	

Date: 21-Jun-21

Client Sample ID: B-6 @ 45'-50' Collection Date: 6/10/2021 11:00:00 AM Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ Qual		Units	DF	F Date/Time Analyzed		
VOLATILE SW-846 METHOD 8260D			SW8	260D	SW5035A		Analyst: IR		
Naphthalene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
o-Xylene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
p-Diethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
p-Ethyltoluene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
sec-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Styrene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
t-Butyl alcohol	130	2.9	5.7		µg/Kg-dry	1	6/16/2021 4:03:00 PM		
tert-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Tetrachloroethene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Toluene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
trans-1,2-Dichloroethene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
trans-1,3-Dichloropropene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Trichloroethene	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Trichlorofluoromethane	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Vinyl acetate	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Vinyl chloride	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Xylenes, Total	ND	3.4	17	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Methylcyclohexane	ND	2.3	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Acrolein	ND	14	29	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		
Acrylonitrile	ND	1.1	5.7	U	µg/Kg-dry	1	6/16/2021 4:03:00 PM		

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Original

CLIENT:	WRS d.b.a Berninger Environmental	Client Sample ID: MW-1
Lab Order:	2106083	Collection Date: 6/14/2021 10:00:00 AM
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,	Matrix: LIQUID
Lab ID:	2106083-002A	

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Date: 21-Jun-21

Certificate of Kesults										
Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed			
VOLATILE SW-846 METHOD 8	260D		SW8	260D	SW503	0C	Analyst: IR			
1,1,1,2-Tetrachloroethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1,2-Trichloro-1,2,2-trifluoroethan	ND	0.25	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1,2-Trichloroethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1-Dichloroethane	2.9	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM			
1,1-Dichloroethene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,1-Dichloropropene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2,3-Trichlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2,3-Trichloropropane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2,4,5-Tetramethylbenzene	39	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM			
1,2,4-Trichlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2,4-Trimethylbenzene	790	10	40	D	µg/L	20	6/19/2021 1:53:00 AM			
1,2-Dibromo-3-chloropropane	ND	1.0	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2-Dibromoethane	7.3	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM			
1,2-Dichlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,2-Dichloroethane	1.7	0.50	2.0	J	µg/L	1	6/14/2021 10:25:00 PM			
1,2-Dichloropropane	2.6	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM			
1,3,5-Trimethylbenzene	240	10	40	D	µg/L	20	6/19/2021 1:53:00 AM			
1,3-Dichlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,3-dichloropropane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,4-Dichlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
1,4-Dioxane	ND	0.50	1.0	U	µg/L	1	6/14/2021 10:25:00 PM			
2,2-Dichloropropane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
2-Butanone	ND	2.0	5.0	U	µg/L	1	6/14/2021 10:25:00 PM			
2-Chloroethyl vinyl ether	ND	10	20	U	µg/L	1	6/14/2021 10:25:00 PM			
2-Chlorotoluene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
2-Hexanone	ND	2.0	5.0	U	µg/L	1	6/14/2021 10:25:00 PM			
2-Propanol	ND	50	50	U	µg/L	1	6/14/2021 10:25:00 PM			
4-Chlorotoluene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM			
4-Isopropyltoluene	25	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM			
4-Methyl-2-pentanone	ND	2.0	5.0	U	µg/L	1	6/14/2021 10:25:00 PM			
Acetone	110	5.0	10	В	µg/L	1	6/14/2021 10:25:00 PM			

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Analyses

Benzene

Bromobenzene

CLIENT:	WRS d.b.a Berninger Environmental	Client Sample ID:	MW-1
Lab Order:	2106083	Collection Date:	6/14/2021 10:00:00 AM
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,	Matrix:	LIQUID
Lab ID:	2106083-002A		

Certificate of Results Sample Result LOD LOQ Qual Units DF **Date/Time Analyzed VOLATILE SW-846 METHOD 8260D** SW8260D SW5030C 12000 50 200 D µg/L 100 6/19/2021 12:50:00 AM 2.0 6/14/2021 10:25:00 PM ND 0.50 U µg/L 1

Bromochloromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Bromodichloromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Bromoform	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Bromomethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Carbon disulfide	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Carbon tetrachloride	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Chlorobenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Chlorodifluoromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Chloroethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Chloroform	34	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM
Chloromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
cis-1,2-Dichloroethene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
cis-1,3-Dichloropropene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Cyclohexane	780	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
Dibromochloromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Dibromomethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Dichlorodifluoromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Diisopropyl ether	ND	1.0	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Ethylbenzene	1100	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
Freon-114	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Hexachlorobutadiene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Isopropylbenzene	58	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM
m,p-Xylene	4100	20	80	D	µg/L	20	6/19/2021 1:53:00 AM
Methyl Acetate	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Methyl tert-butyl ether	170	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
Methylene chloride	11	0.50	2.0	В	µg/L	1	6/14/2021 10:25:00 PM
n-Butylbenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
n-Propylbenzene	120	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM
Naphthalene	160	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM
o-Xylene	2000	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
p-Diethylbenzene	120	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM

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Analyst: IR

CLIENT:	WRS d.b.a Berninger Environmental	Client Sample ID:	MW-1
Lab Order:	2106083	Collection Date:	6/14/2021 10:00:00 AM
Project:	BP Gas Station, 4001-4010 4th Ave, Brooklyn,	Matrix:	LIQUID
Lab ID:	2106083-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual Units		DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 82	260D		SW8	260D	SW5030C		Analyst: IR
p-Ethyltoluene	650	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
sec-Butylbenzene	11	0.50	2.0		µg/L	1	6/14/2021 10:25:00 PM
Styrene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
t-Butyl alcohol	ND	5.0	10	U	µg/L	1	6/14/2021 10:25:00 PM
tert-Butylbenzene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Tetrachloroethene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Toluene	21000	50	200	ED	µg/L	100	6/19/2021 12:50:00 AM
trans-1,2-Dichloroethene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
trans-1,3-Dichloropropene	1.1	0.50	2.0	J	µg/L	1	6/14/2021 10:25:00 PM
Trichloroethene	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Trichlorofluoromethane	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Vinyl acetate	ND	1.0	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Vinyl chloride	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM
Xylenes, Total	6100	30	120	D	µg/L	20	6/19/2021 1:53:00 AM
Methylcyclohexane	520	10	40	D	µg/L	20	6/19/2021 1:53:00 AM
Acrylonitrile	ND	0.50	2.0	U	µg/L	1	6/14/2021 10:25:00 PM

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Original

Attachment-C IDW Manifest

	404500-3	21	ERT Provider: Cle	ean Earth				4454222					
(For	e print or type a designed for use on elite (12-pitcl	h) typewriter.)											
	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response	e Phone	4. Waste Ti	racking Nur 7/23	207MAC					
	5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)												
	THE RELATE STRUCT												
	ALL												
	Generator's Phone:												
	U.S. EPA ID NUMDer												
	7. Transporter 2 Company Name U.S. EPA ID Number												
	8. Designated Facility Name and Site Address U.S. EPA ID Number												
	NUMERA AND LEVER AND LEVER AND LEVER AND LEVER AND LEVER AND LEVER AND LEVERAL AND LEVERA												
	PROVIDEN	NE. 81 82485 (661) (8)	6 3 X N			R10	14111191	0.35.2					
	Facility's Phone:			10 Contr	ninore		10 11=1						
	9. Waste Shipping Name	e and Description		No.	Type	Quantity	Wt./Vol.						
	1. NA 107 HA	PURE REDUCTION OF THE PERSON O	111		1990	· · · ·							
ATOF					144		15						
IER/				XXXI		1350							
GEN	2.					-							
	3.												
	4.							2					
	13. Special Handling Instruction	ns and Additional Information						<u> </u>					
	() 1 17421) 0 00	一门就在2199月19月 14月14	I XSS 610										
								8					
-		ATION. I contife the metanicle describ	and all an an All in an affect and a shi in a	the feature letter of the									
	Generator's/Offeror's Printed/Tv	ATION: I certity the materials describ	Ded above on this manifest are not subjec	t to federal regulations for	reporting pi	roper disposal of H	lazardous V	Vaste. Month Day Vear					
V	Toby Wolc	zunski		allely h	10	/		7 22 21					
, L	15. International Shipments		Export from I	IS Port of er	tru/evit								
INT	Transporter Signature (for expo	orts only);		Date leavi	ng U.S.:								
ER	16. Transporter Acknowledgme	ent of Receipt of Materials											
ORT	Transporter 1 Printed/Typed Na	ime	Sig	inature	and			Month Day Year					
NSP	Transporter 2 Printed/Typed Na	ime	Sic	inature	raced	I'		Month Day Year					
TRA													
	17. Discrepancy												
	17a. Discrepancy Indication Sp	ace Quantity	Type	Residue		Partial Rei	ection	Eull Rejection					
						,							
Ľ	17h Alternate Facility (or Gonor	rator		Manifest Reference	lumber:		la constanta da						
ILT	TTD. Alternate Facility (OF Gener	(alor)				U.S. EPA ID I	lumber						
FAC	Facility's Phone					1							
E	17c. Signature of Alternate Faci	lity (or Generator)						Month Day Year					
INAT													
ESIG													
								100 C					
	18 Designated Facility Owner o	or Operator: Certification of receipt o	f materials covered by the manifest even	nt as noted in Item 17c									
	Printed/Typed Name	operator, ocrunication of receipt o	Sin	nature				Month Dav Year					
¥				 Interventing of the 									
			GENERATOR'S/SHIPPE	R'S INITIAL CO	PY								

NHWM-5-11

TABLES

Table-1 Soil tabulated data

American A	nalytical Laboratories, LLC.					
WorkOrder: 2	106083					
Client: WRS of	I.b.a Berninger Environmental					
Project: BP G	as Station, 4001-4010 4th Ave, Brooklyn, NY	Client Sample ID:		former B-6 (B-4)	@4	15'-50'
TABLE-1		Laboratory ID:		2106083-001		
Cac #:	Brocoduro	Sampling Date:	Unite	06/10/2021	0	
E-11870	PERCENT MOISTURE	Percent Moisture	wt%	9.90	Q.	
630-20-6	VOLATILE SW-846 METHOD 8260D	1,1,1,2-Tetrachloroethane	PPB	1.1	U	
71-55-6	VOLATILE SW-846 METHOD 8260D	1,1,1-Trichloroethane	PPB	1.1	U	
79-34-5	VOLATILE SW-846 METHOD 8260D	1,1,2,2-Tetrachloroethane	PPB	1.1	U	
76-13-1	VOLATILE SW-846 METHOD 8260D	1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	1.1	U	
75-34-3	VOLATILE SW-846 METHOD 8260D	1.1-Dichloroethane	PPB	1.1	U	
75-35-4	VOLATILE SW-846 METHOD 8260D	1,1-Dichloroethene	PPB	1.1	U	
563-58-6	VOLATILE SW-846 METHOD 8260D	1,1-Dichloropropene	PPB	1.1	U	
87-61-6	VOLATILE SW-846 METHOD 8260D	1,2,3-Trichlorobenzene	PPB	1.1	U	
95-93-2	VOLATILE SW-846 METHOD 8260D	1,2,3-Thchloropropane	PPB	1.1	U U	
120-82-1	VOLATILE SW-846 METHOD 8260D	1,2,4-Trichlorobenzene	PPB	1.1	Ŭ	
95-63-6	VOLATILE SW-846 METHOD 8260D	1,2,4-Trimethylbenzene	PPB	1.1	U	
96-12-8	VOLATILE SW-846 METHOD 8260D	1,2-Dibromo-3-chloropropane	PPB	1.1	U	
106-93-4	VOLATILE SW-846 METHOD 8260D	1,2-Dibromoethane	PPB	1.1	U	
107-06-2	VOLATILE SW-846 METHOD 8260D	1.2-Dichloroethane	PPB	1.1	U	
78-87-5	VOLATILE SW-846 METHOD 8260D	1,2-Dichloropropane	PPB	1.1	Ū	
108-67-8	VOLATILE SW-846 METHOD 8260D	1,3,5-Trimethylbenzene	PPB	1.1	U	
541-73-1	VOLATILE SW-846 METHOD 8260D	1,3-Dichlorobenzene	PPB	1.1	U	
142-28-9		1,3-dichloropropane	PPB	1.1	0	
123-91-1	VOLATILE SW-846 METHOD 8260D	1,4-Dioxane	PPB	1.1	U	
594-20-7	VOLATILE SW-846 METHOD 8260D	2,2-Dichloropropane	PPB	1.1	Ū	
78-93-3	VOLATILE SW-846 METHOD 8260D	2-Butanone	PPB	13		
110-75-8	VOLATILE SW-846 METHOD 8260D	2-Chloroethyl vinyl ether	PPB	11	U	
95-49-8 591-78-6	VOLATILE SW-846 METHOD 8260D	2-Uniorotoluene	PPB	1.1		
67-63-0	VOLATILE SW-846 METHOD 8260D	2-Propanol	PPB	57	U	
106-43-4	VOLATILE SW-846 METHOD 8260D	4-Chlorotoluene	PPB	1.1	Ū	
99-87-6	VOLATILE SW-846 METHOD 8260D	4-Isopropyltoluene	PPB	1.1	U	
108-10-1	VOLATILE SW-846 METHOD 8260D	4-Methyl-2-pentanone	PPB	5.7	U	
07-04-1 71-43-2	VOLATILE SW-846 METHOD 8260D	Benzene	PPB	130	в	
108-86-1	VOLATILE SW-846 METHOD 8260D	Bromobenzene	PPB	1.1	U	
74-97-5	VOLATILE SW-846 METHOD 8260D	Bromochloromethane	PPB	1.1	U	
75-27-4	VOLATILE SW-846 METHOD 8260D	Bromodichloromethane	PPB	1.1	U	
75-25-2	VOLATILE SW-846 METHOD 8260D	Bromoform	PPB	1.1	U	
74-83-9 75-15-0	VOLATILE SW-846 METHOD 8260D	Carbon disulfide	PPB	1.1	U	
56-23-5	VOLATILE SW-846 METHOD 8260D	Carbon tetrachloride	PPB	1.1	U	
108-90-7	VOLATILE SW-846 METHOD 8260D	Chlorobenzene	PPB	1.1	U	
75-45-6	VOLATILE SW-846 METHOD 8260D	Chlorodifluoromethane	PPB	1.1	U	
75-00-3	VOLATILE SW-846 METHOD 8260D	Chloroethane	PPB	1.1	U 11	
74-87-3	VOLATILE SW-846 METHOD 8260D	Chloromethane	PPB	1.1	U	
156-59-2	VOLATILE SW-846 METHOD 8260D	cis-1,2-Dichloroethene	PPB	1.1	Ū	
10061-01-5	VOLATILE SW-846 METHOD 8260D	cis-1,3-Dichloropropene	PPB	1.1	U	
110-82-7	VOLATILE SW-846 METHOD 8260D	Cyclohexane	PPB	2.3	U	
74-95-3	VOLATILE SW-846 METHOD 8260D	Dibromocniorometnane	PPB	1.1	U	
75-71-8	VOLATILE SW-846 METHOD 8260D	Dichlorodifluoromethane	PPB	1.1	U	
108-20-3	VOLATILE SW-846 METHOD 8260D	Diisopropyl ether	PPB	1.1	U	
100-41-4	VOLATILE SW-846 METHOD 8260D	Ethylbenzene	PPB	1.1	U	
/b-14-2 87-68-3	VOLATILE SW-846 METHOD 8260D	Freon-114 Hexachlorobutadiene	PPB	1.1	U	
98-82-8	VOLATILE SW-846 METHOD 8260D	Isopropylbenzene	PPB	1.1	U	
179601-23-1	VOLATILE SW-846 METHOD 8260D	m,p-Xylene	PPB	2.3	U	
79-20-9	VOLATILE SW-846 METHOD 8260D	Methyl Acetate	PPB	1.1	U	
1634-04-4	VOLATILE SW-846 METHOD 8260D	Methyl tert-butyl ether	PPB	/4	D '	
104-51-8	VOLATILE SW-846 METHOD 8260D	n-Butylbenzene	PPB	3.4	BJ	
103-65-1	VOLATILE SW-846 METHOD 8260D	n-Propylbenzene	PPB	1.1	U	
91-20-3	VOLATILE SW-846 METHOD 8260D	Naphthalene	PPB	1.1	U	
95-47-6	VOLATILE SW-846 METHOD 8260D	o-Xylene	PPB	1.1	U	
105-05-5	VOLATILE SW-846 METHOD 8260D	p-Diethylbenzene	PPB	1.1	U	
135-98-8	VOLATILE SW-846 METHOD 8260D	sec-Butylbenzene	PPB	1.1	U U	
100-42-5	VOLATILE SW-846 METHOD 8260D	Styrene	PPB	1.1	U	
75-65-0	VOLATILE SW-846 METHOD 8260D	t-Butyl alcohol	PPB	130		
98-06-6	VOLATILE SW-846 METHOD 8260D	tert-Butylbenzene	PPB	1.1	U	
127-18-4		I etrachioroethene	PPB	1.1	U	
156-60-5	VOLATILE SW-846 METHOD 8260D	trans-1.2-Dichloroethene	PPB	1.1	U	
10061-02-6	VOLATILE SW-846 METHOD 8260D	trans-1,3-Dichloropropene	PPB	1.1	U	
79-01-6	VOLATILE SW-846 METHOD 8260D	Trichloroethene	PPB	1.1	U	
75-69-4	VOLATILE SW-846 METHOD 8260D	Trichlorofluoromethane	PPB	1.1	U	
75-01-4	VOLATILE SW-846 METHOD 8260D	Vinyi acetate	PPB	1.1	U	
1330-20-7	VOLATILE SW-846 METHOD 8260D	Xylenes, Total	PPB	3.4	U	
108-87-2	VOLATILE SW-846 METHOD 8260D	Methylcyclohexane	PPB	2.3	U	
107-02-8	VOLATILE SW-846 METHOD 8260D	Acrolein	PPB	14	U	
107-13-1	VOLATILE SW-846 METHOD 8260D	Acrylonitrile	PPB	1.1	U	

Table-2 Groundwater tabulated data

American A	nalytical Laboratories LLC				
WorkOrder: 2	2106083				
Cliante M/DC	d k o Borningen Fruisenmentel				
Client: WRS	d.b.a Berninger Environmental				
Project: BP C	as Station, 4001-4010 4th Ave, Bro	okiyn, NY		MW-1	
TABLE-2				2106083-0	02
				06/14/2021	
Cas #:	Procedure:	Analyte:	Units:		Q
E-11870	PERCENT MOISTURE	Percent Moisture	wt%		
630-20-6	VOLATILE SW-846 METHOD 8260D	1,1,1,2-Tetrachloroethane	PPB	0.50	U
71-55-6	VOLATILE SW-846 METHOD 8260D	1,1,1-Trichloroethane	PPB	0.25	U
79-34-5	VOLATILE SW-846 METHOD 8260D	1,1,2,2-Tetrachloroethane	PPB	0.25	U
76-13-1	VOLATILE SW-846 METHOD 8260D	1.1.2-Trichloro-1.2.2-trifluoroethane	PPB	0.25	U
79-00-5	VOLATILE SW-846 METHOD 8260D	1 1 2-Trichloroethane	PPB	0.50	Ŭ
75-34-3	VOLATILE SW-846 METHOD 8260D	1 1-Dichloroethane	PPB	2.9	0
75-35-4	VOLATILE SW-846 METHOD 8260D	1 1-Dichloroethene	PPB	0.50	11
562.59.6		1,1-Dichloropropopo	DDB	0.50	0
97.61.6		1, 1-Dichloropropene		0.50	0
07-01-0	VOLATILE SW-846 METHOD 8260D		FFD	0.50	0
96-18-4	VOLATILE SW-846 METHOD 8260D	1,2,3-1 richloropropane	PPB	0.50	U
95-93-2	VOLATILE SW-846 METHOD 8260D	1,2,4,5-1 etrametnyibenzene	PPB	39	
120-82-1	VOLATILE SW-846 METHOD 8260D	1,2,4-Trichlorobenzene	PPB	0.50	U
95-63-6	VOLATILE SW-846 METHOD 8260D	1,2,4-Trimethylbenzene	PPB	790	D
96-12-8	VOLATILE SW-846 METHOD 8260D	1,2-Dibromo-3-chloropropane	PPB	1.0	U
106-93-4	VOLATILE SW-846 METHOD 8260D	1,2-Dibromoethane	PPB	7.3	
95-50-1	VOLATILE SW-846 METHOD 8260D	1,2-Dichlorobenzene	PPB	0.50	U
107-06-2	VOLATILE SW-846 METHOD 8260D	1,2-Dichloroethane	PPB	1.7	J
78-87-5	VOLATILE SW-846 METHOD 8260D	1,2-Dichloropropane	PPB	2.6	
108-67-8	VOLATILE SW-846 METHOD 8260D	1,3,5-Trimethylbenzene	PPB	240	D
541-73-1	VOLATILE SW-846 METHOD 8260D	1,3-Dichlorobenzene	PPB	0.50	U
142-28-9	VOLATILE SW-846 METHOD 8260D	1.3-dichloropropane	PPB	0.50	U
106-46-7	VOLATILE SW-846 METHOD 8260D	1.4-Dichlorobenzene	PPB	0.50	Ŭ
123-01-1		1 4-Dioxane	PPR	0.50	ŭ
594-20-7		2 2-Dichloropropage	PPR	0.50	
394-20-7	VOLATILE SW-848 METHOD 8260D		FFD	0.30	0
10-93-3	VOLATILE SVV-846 METHOD 8260D	2-Dutanone		2.0	U
110-75-8	VOLATILE SW-846 METHOD 8260D	2-Chloroethyl vinyl ether	PPB	10	U
95-49-8	VOLATILE SW-846 METHOD 8260D	2-Chlorotoluene	PPB	0.50	U
591-78-6	VOLATILE SW-846 METHOD 8260D	2-Hexanone	PPB	2.0	U
67-63-0	VOLATILE SW-846 METHOD 8260D	2-Propanol	PPB	50	U
106-43-4	VOLATILE SW-846 METHOD 8260D	4-Chlorotoluene	PPB	0.50	U
99-87-6	VOLATILE SW-846 METHOD 8260D	4-Isopropyltoluene	PPB	25	
108-10-1	VOLATILE SW-846 METHOD 8260D	4-Methyl-2-pentanone	PPB	2.0	U
67-64-1	VOLATILE SW-846 METHOD 8260D	Acetone	PPB	110	В
71-43-2	VOLATILE SW-846 METHOD 8260D	Benzene	PPB	12000	D
108-86-1	VOLATILE SW-846 METHOD 8260D	Bromobenzene	PPB	0.50	U
74-97-5	VOLATILE SW-846 METHOD 8260D	Bromochloromethane	PPB	0.50	Ŭ
75-27-4	VOLATILE SW-846 METHOD 8260D	Bromodichloromethane	PPB	0.50	Ŭ
75-25-2	VOLATILE SW-846 METHOD 8260D	Bromoform	PPB	0.50	Ŭ
74 92 0		Bromomothano	DDB	0.00	U U
74-03-9		Carbon disulfido		0.50	0
75-15-0	VOLATILE SW-840 METHOD 8200D	Carbon disulide		0.50	0
50-23-5	VOLATILE SW-846 METHOD 8260D	Carbon tetrachionde	PPB	0.50	0
108-90-7	VOLATILE SW-846 METHOD 8260D	Chlorobenzene	PPB	0.50	U
75-45-6	VOLATILE SW-846 METHOD 8260D	Chlorodifluoromethane	PPB	0.50	U
75-00-3	VOLATILE SW-846 METHOD 8260D	Chloroethane	PPB	0.50	U
67-66-3	VOLATILE SW-846 METHOD 8260D	Chloroform	PPB	34	
74-87-3	VOLATILE SW-846 METHOD 8260D	Chloromethane	PPB	0.50	U
156-59-2	VOLATILE SW-846 METHOD 8260D	cis-1,2-Dichloroethene	PPB	0.50	U
10061-01-5	VOLATILE SW-846 METHOD 8260D	cis-1,3-Dichloropropene	PPB	0.50	U
110-82-7	VOLATILE SW-846 METHOD 8260D	Cyclohexane	PPB	780	D
124-48-1	VOLATILE SW-846 METHOD 8260D	Dibromochloromethane	PPB	0.50	U
74-95-3	VOLATILE SW-846 METHOD 8260D	Dibromomethane	PPB	0.50	U
75-71-8	VOLATILE SW-846 METHOD 8260D	Dichlorodifluoromethane	PPB	0.50	U
108-20-3	VOLATILE SW-846 METHOD 8260D	Diisopropyl ether	PPB	1.0	U
100-41-4	VOLATILE SW-846 METHOD 8260D	Ethylbenzene	PPB	1100	D
76-14-2	VOLATILE SW-846 METHOD 8260D	Freon-114	PPB	0.50	U
87-68-3	VOI ATILE SW-846 METHOD 8260D	Hexachlorobutadiene	PPB	0.50	ú
98-82-8	VOLATILE SW-846 METHOD 8260D	Isopropylbenzene	PPB	58	Ĩ
179601-23-1	VOLATILE SW-846 METHOD 8260D	m p-Xvlene	PPB	4100	D
79-20-9		Methyl Acetate	PPR	0.50	11
1634 04 4		Methyl tert-butyl othor	DDP	170	
75.00.2	VOLATILE SW 946 METHOD 9200D	Methylene ebleride		110	<u>ь</u>
104 54 0	VOLATILE SW 846 METHOD 8260D	Neurylene chloride		0.50	D
104-51-8	VOLATILE SVV-846 METHOD 8260D		770 DDD	0.50	U
103-65-1	VOLATILE SW-846 METHOD 8260D	n-Propylbenzene	PPB	120	
91-20-3	VOLATILE SW-846 METHOD 8260D	Ivapnthalene	РРВ	160	_
95-47-6	VOLATILE SW-846 METHOD 8260D	o-Xylene	PPB	2000	D
105-05-5	VOLATILE SW-846 METHOD 8260D	p-Diethylbenzene	PPB	120	
622-96-8	VOLATILE SW-846 METHOD 8260D	p-Ethyltoluene	PPB	650	D
135-98-8	VOLATILE SW-846 METHOD 8260D	sec-Butylbenzene	PPB	11	
100-42-5	VOLATILE SW-846 METHOD 8260D	Styrene	PPB	0.50	U
75-65-0	VOLATILE SW-846 METHOD 8260D	t-Butyl alcohol	PPB	5.0	U
98-06-6	VOLATILE SW-846 METHOD 8260D	tert-Butylbenzene	PPB	0.50	U
127-18-4	VOLATILE SW-846 METHOD 8260D	Tetrachloroethene	PPB	0.50	U
108-88-3	VOLATILE SW-846 METHOD 8260D	Toluene	PPB	21000	DE
156-60-5	VOLATILE SW-846 METHOD 8260D	trans-1.2-Dichloroethene	PPB	0.50	U
10061-02-6	VOI ATILE SW-846 METHOD 8260D	trans-1 3-Dichloropropene	PPB	11	l.
79-01-6	VOLATILE SW-846 METHOD 8260D	Trichloroethene	PPB	0.50	Ū
75-69-4	VOLATILE SW-846 METHOD 8260D	Trichlorofluoromethane	PPB	0.50	Ú.
108-05-4		Vinyl acetate	DDP	1.0	11
75 01 4	VOLATILE SW 946 METHOD 9200D	Vinut oblarida		0.50	0
1220 20 7	VOLATILE SW-040 WETHOD 8260D			6100	
109.07.0	VOLATILE SW-040 METHOD 8260D	Ayienes, Tulal		520	
108-87-2	VOLATILE SVV-846 METHOD 8260D	Ivieu lyicycionexañe	770 DDD	520	ט
107-02-8	VOLATILE SW-846 METHOD 8260D	Acrolein	177B	0.55	
107-13-1	VOLATILE SW-846 METHOD 8260D	Acrylonitrile	ннв	0.50	U