

February 25, 2020

Mr. George F. Momberger, P.E. Environmental Engineer New York State Department of Environmental Conservation Division of Environmental Remediation NYSDEC 625 Broadway Albany, NY 12233-7013

### **RE – Stuart Olver Holtz Well Decommissioning**

Stuart Olver Holtz Remedial Construction 39 Commerce Drive, Henrietta, NY NYSDEC Site N0. 828079 URS WA D007622-08.1

Dear Mr. Momberger,

On March 26, 2018, the Department approved URS Corporation's (URS) amendment for Work Assignment (WA) D007622-8 which included decommissioning of monitoring wells and piezometers not used for site monitoring per the Site Monitoring Plan (URS, March 2019) at the Stuart Olver Holtz (SOH) Site. This letter has been prepared to document the activities associated with the May 28 - May 31, 2019 monitoring well and piezometer decommissioning at the SOH Site.

There were 44 monitoring wells and piezometers located on and off site. Twenty-five monitoring wells and piezometers have been designated to be sampled as per the Site Management Plan (URS, March 2019). It was anticipated that up to 19 monitoring wells and piezometers would be decommissioned in accordance with NYSDEC's CP-43: Groundwater Monitoring Well Decommissioning Policy. In April of 2019, the Department requested an additional five wells be decommissioned, bringing the total number of wells to be decommissioned to 24.

### **SITE ACTIVITIES**

URS mobilized to the site on May 28, 2019. Well decommissioning services were provided by Nothnagle Drilling, Inc., a URS standby drilling subcontractor. Between May 28 and May 31, 2019, a total of 22 wells were decommissioned. Two wells could not be located. In an attempt to locate IPZ-2, the expected location was overdrilled to five feet below ground surface, however no evidence of a well was observed. On June 13, 2019, 2019, Nothnagle remobilized to the site to remove the stockpile of well construction materials from the decommissioning for off-site disposal.

Daily construction reports were prepared and include well construction and well decommissioning logs for each monitoring well and piezometer decommissioned. The Daily Construction Reports are provided as an attachment to this letter.

# **URS**

Please call me at (716) 856-5636 with any questions or comments.

Sincerely,

**URS** Corporation

Charles E. Dusel Jr. Sr. Project Manager

Attached: Daily inspection Report No. 65 through 69.

File: 11176715/C-1

# **ATTACHMENTS**

# **DAILY CONSTRUCTION REPORTS**



### DAILY INSPECTION REPORT No. \_65\_\_ DATE: May 28<sup>th</sup>, 2019

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079 NYSDEC CONTRACT No. D007622-8.1

TEMPERATURE: 50s SKIES: Overcast

WIND: MODERATE PRECIPITATION: MID DAY DRIZZLE

#### DESCRIPTION OF WORK PERFORMED BY CONTRACTOR

Nothnagle Drilling Inc., represented by Neal Short and Anthony Farrell, arrived on site at 0800 and mobilized equipment to prepare for well decommissioning in accordance with the requirements of NYSDEC's CP-43 *Groundwater Monitoring Well Decommissioning Policy*. A total of 24 monitoring wells and piezometers were slated for decommissioning at the Site.

Four wells were decommissioned (OW-3R, URS-01, URS-03, URS-14). The monitoring well protective casing and two-inch diameter PVC riser for URS-01, URS-03 and URS-14 were removed entirely using a winch cable. The boreholes were grouted in place with approximately 5 gallons of grout to the ground surface. The outer steel protective casing was also removed.

The area around wells OW-03R and OW-4R were excavated to five feet below ground surface to expose the steel pipe. The four-inch diameter black iron riser and eight-inch diameter outer steel casing were cut at approximately five feet below ground surface. The remaining riser pipe for OW-3R were tremie grouted in place with approximately 30 gallons of grout. Approximately 35 gallons of grout were used for OW-4R. After grouting was complete, the excavation was backfilled using the excavated soil. Nothnagle will complete the decommissioning OW-04R on May 29<sup>th</sup>.

#### PERSONNEL ON-SITE:

Affiliation		Hours Logged
Nothnagle Drilling Inc.	Neal Short Anthony Farrell	0800 – 1600

#### **VISITORS**:

Name	Representing	Time (from – to)	Comments

#### **EQUIPMENT AT SITE:**

Contractor	Equipment	Hours Logged
Nothnagle Drilling Inc.	Skid Steer	0800 - 1600
Nothnagle Drilling Inc.	CME Truck Mounted Drill Rig	0800 - 1600
Nothnagle Drilling Inc.	Delivery and equipment truck	0800 - 1600

PREPARED BY: Ernest Thalhamer TITLE: Staff Geologist

REVIEWED BY: Chuck Dusel TITLE: Project Manager



DAILY INSPECTION REPORT No. \_65\_\_ DATE: <u>May 28<sup>th</sup>, 2019</u>

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079

NYSDEC CONTRACT No. D007622-8.1

Photo No. 1 – Driller set up on URS-03 to begin well abandonment



WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-3化
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEAC STORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THRUHAMER
5	Date: 5/28/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth .
OVERDRILLING	(feet)
Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n)	= 85ph +natrie
Depth temporary casing installed Casing type/dia. (in.) Method of installing	
CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)	
CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated	28 = 1   fgm]
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type	39
Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)  Volume of grout prepared (gal.)  Volume of grout used (gal.)	
BIP = -5'BGS: training growt in place to -5' BGS: water builded	Sketch in all relevant decommissioning data, including:     interval overdrilled, interval grouted, casing left in hole,     well stickup, etc.
Drilling Contractor	Department Representative

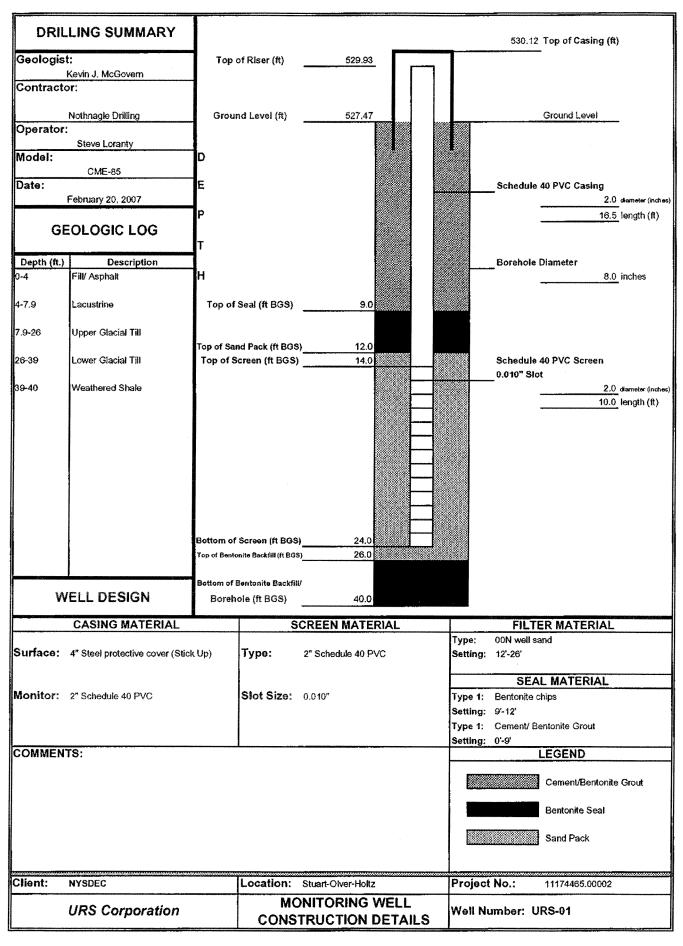
BORING No. CN-3R SHEET 1 OF 3 FILE No. 19078.10 GZA GEOENVIRCHMENTAL OF NEW YORK 364 NAGEL DRIVE, BUFFALO, NEW YORK PROJECT Stuart-Olver-Holtz Rochester, New York ENGINEERS AND SCIENTISTS E751121.32 DATUM BORING LOCATION N1123827.84
GROUND SURFACE ELEVATION
START DATE 10/28/94 EN Nothnagle Drilling DRILLER Steve Lorantz GZA GEOENVIRONMENTAL REPRESENTATIVE Steve Blair 11/14/96 WATER LEVEL DATA TYPE OF DRILL RIG CME-75, 8k81 for 28'-45' DATE TIME WATER CASING REMARKS CASING SIZE AND TYPE 2-1/4 Inch ID Hollow Stem Augers 10/31/94 0730 11.5 22' Stabilized 2 days. OVERBURDEN SAMPLING METHOD Z Inch O.D. x 24" long split 10/31/94 1430 dry 28 Spoon Stabilized 15 mins. ROCK DRILLING METHOD 11/11/94 381 1420 461 Stabilized 15 mins. 11/14/94 0800 451 8.8 Stabilized 64 hrs. SAMPLE SAMPLE DESCRIPTION OVM(1) EQUIPMENT Read INSTALLAT BLOWS NO. DEPTH M-VALUE /RQD(%) RECOVERY INSTALLATION (ppm) (FT.) (%) LOG S-1 0-2 3 16 25 MD ES 7 Brown, fine to medium SAND, some Clayey Silt, moist. 9 concrete surface 7 \$-2 8 2-4 16 25 ND 8 8 E 10 5-3 4-6 16 65 ND IFILL) 4.7 Very stiff, brown, CLAY and SILT, some fine to coarse SAND, moist. 9 10 5 5-4 6-8 17 75 NO 4-inch black steel riser pipe from 0 to 39 ft. 6 [LACUSTRINE] 11 14 3 S-5 8-10 14 65 same, except stiff, with trace Sand. ND 6 8 10 10 **S-6** 4 10-12 cement/bentonite grout seal from 2.5 to to 34 ft. 11 60 Soft, brown, SILTY CLAY, NO П wet. 8 12 S-7 4 12-14 3 100 ND same. 2 1 5-8 14-16 2 100 ND same. 15 1 [LACUSTRINE] 16 4 5-9 16-18 100 same NO (1) Organic Vapor Meter (OVM) reading of headspace using H-Nu PI-101 photoionization detector. ND=not detected above 1 ppm. LEGEND NOTES: S - Split Spoon Soil Sample U - Undisturbed Soil Sample C - Rock Core Sample GENERAL NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. GZA BORING No. CW-3R

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	OWAT	E	IGINE	ERS AND SCI SAMPLI			SAMPLE	DESCRIPTION	Peak OVM	EQUIPMENT INSTALLATION	CHED. BY GOL	#O≻us
	Î	Brons	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)			Read (PPM)	LOG		S
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		1					and the same of th	n, SAND, some , trace gravel,				
	18	1	s-10	18-20	4	40	wet.	trees Staint	NO			
<b>7</b>	19	3					<b>CUPPER</b>	TILL				
	20	4										
តា	Service servic	1 2	S-11	20-22	3	40	same excep   little Grav	t very loose and el.	ДD			
	21	1					[UPPE	R TILL]			4-inch black steel riser pipe to 39 ft.	
	22	2 32	S-12	22-23	>100	100	Very dense.	22 ft. brown, fine to	l no			
H	23	100/6					coarse SANO Silt, trace	brown, fine to , some Clayey Gravel, moist.				
Ĭ							(LOVE	R TILL]				
	24	27	S-13	24-25.3	>100	100	same.		ND			
	25	54										
		100/4									*	
H	56	30	s-14	26-27	>100	75	same.		HD			
	27	100/6			<u> </u>							
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		79 100/3	S-15	28-28.8	>100	50	same.		KD			
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93350	30	34		30-30.9	>100	30			NO			
		100/5	ļ	30-30.9	7100	30	same.					
	31						(LOWER	TILL]	***************************************			
	32	100/6	S-17	32-32.5	>100	100	same.		ND			
	33											
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-	34	100/6	S-18	84-34.5	>100	100	same.		DN			
U	35										hontanito noliar	
		<u> </u>	_		-						bentonite pellet seal from 34 to 37 ft.	
	36	69	<b>S-1</b> 9	36-36.8	>100	100	same.		ND			J
		U - Un C - Ro	dist	LEGEND Spoon Soil urbed Soil ore Sample	Sample						pace using H-NU PI-101 above 1 ppm.	
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Œ	GZ	<u> </u>	PU	n uuk se	t io Uine	n rations	INA INJE PR	www.re re best line ne	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	erry amon new	BORING No. OW-3	<u> </u>

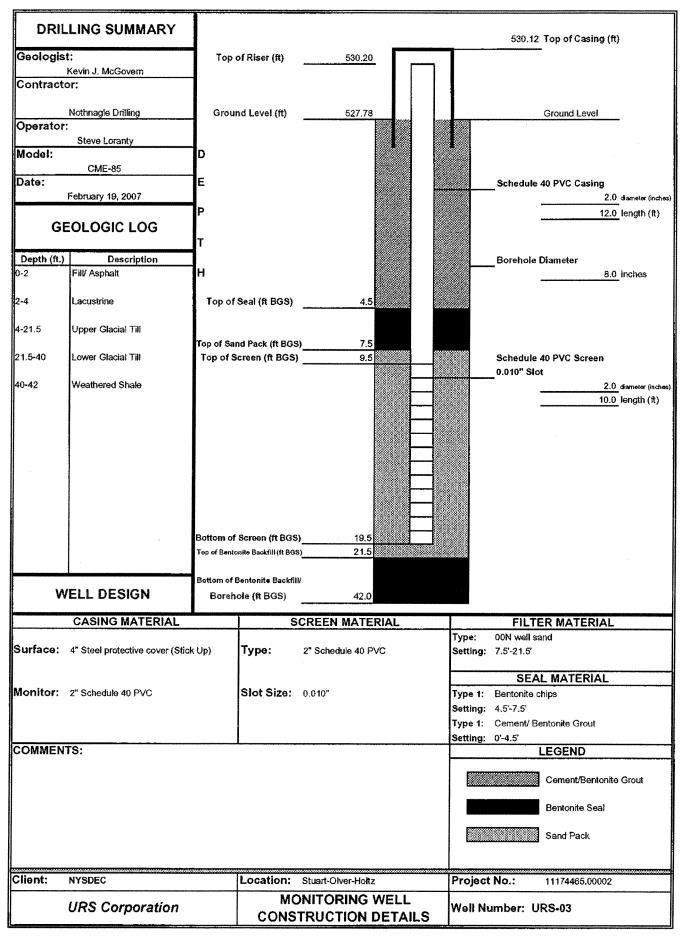
00/6 s-	SAMPL D. DEPTH (F7.) 20 38-38.5 21 40-40.5	N-VALUE /RQD(%)	100	Very dense, coarse SAND Silt, trace	brown, fine to , some clayey gravel, moist.	PEAK OVM READ (PPM) ND	EQUIPMENT INSTALLATION LOG	No. 00 size sand filter pack from 37 to
00/6 s-	20 38-38.5	>100	100	(ro		READ (PPH) ND	LOG	No. CO piza cond
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00/6 s-	21 40-40.5			(ro		ND		No. 00 size sand filter pack from 37 to 45 ft.
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		>100	100		ÆR TILL] 39.7'	l		
		>100	100			1		
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		>100	100					
		1	190	same, except	moist.	סא		Comments of the Comments of th
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0/295-2	46-46.2	>100	100	same.		DN		
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Undistu Rock Co	ppoun soll Sa Urbed Soil Sa Ore Sample	mple mple	vyjavyotakaa	photo	pionization detector	. но=	not detected a	ibove 1 ppn.
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BORING NO. ON-3R

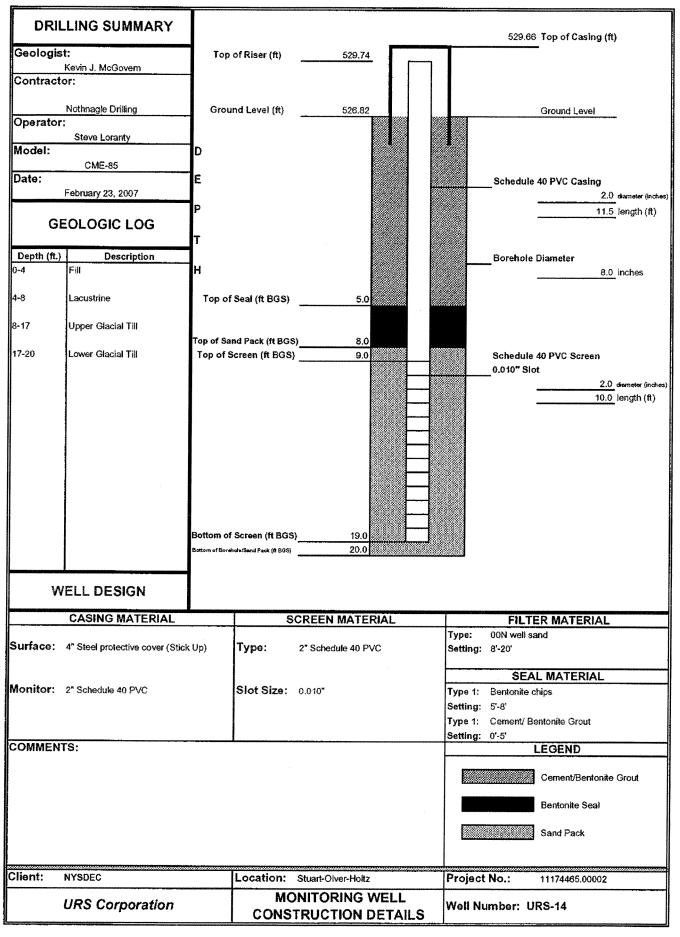
WELL DECOMMISSIONING RECORD	
	-
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: ()\$5-0\
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEAC SHORT
	Inspector: ERNIE THALLIAMER
Drilling Co.: NOTHNAGLE DRULING INC	Date: 5/28/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth (feet)
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing	- I notice
CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)	
CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated	
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)	24
to -5' BGS: Newton buckful	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.
Drilling Contractor	Department Representative



WELL DECOMMISSIONING RECORD			
¥ 1000 100 100 100 100 100 100 100 100 1	-		
	Well I.D.: ∪ 45-03		
ite Name: STOART OLIVER HOLTZ SITE	Driller: NEAC SHORT		
Lite Location: 39 COMMERCE BRIVE HENRIETTA, WY	Inspector: ERNIE THELLEME		
Drilling Co.: NOTHNAGLE DELLING INC	Date: 5/28/19		
	WELL SCHEMATIC*		
DECOMMISSIONING DATA	Depth		
(Fill in all that apply)	(feet)		
OVERDRILLING			
Interval Drilled			
Drilling Method(s)	- Loutre		
Rorehole Dia. (in.)			
Temporary Casing Installed? (y/n)	and the second s		
Depth temporary casing installed .			
Casing type/dia. (in.)			
Method of installing			
CASING PULLING			
Method employed			
Casing retrieved (feet) (9.5			
Casing type/dia. (in)			
CASING PERFORATING	I / grow		
Equipment used			
Number of perforations/foot	and the second s		
Size of perforations			
Interval perforated	1 9 5 3 1 1 1 1		
GROUTING			
Interval grouted (FBLS)			
# of batches prepared			
For each batch record:			
Quantity of water used (gal.)			
Quantity of cement used (lbs.)			
Cement type			
Quantity of bentonite used (lbs.)	- 7		
Quantity of calcium chloride used (IDS.)			
Volume of grout prepared (gal.)	4.5		
Volume of grout used (gal.)			
COMMENTS: Dull 2- PUC (amplete) treme and	* Sketch in all relevant decommissioning data, including:		
COMMITTEE TO THE CONTRACT OF T	interval overdrilled, interval grouted, casing left in hole,		
to -5' BGS, native buckfull	weil stickup, etc.		
110 M			
Drilling Contractor	Department Representative		



WELL DECOMMISSIONING RECORD	
	•
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: URS-14
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEXL SHORT
	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGE DELLING INC	Date: 5/28/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth (feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- I Intiv
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed .	
Casing type/dia. (in.)	
Method of installing	
CASDIC DITI I DIG	
CASING PULLING Method employed	
Casing retrieved (feet)	
Casing type/dia (in)	
Casing type dia (m)	
CASING PERFORATING	
Equipment used	turnst
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)  3  47	
Quantity of cement used (1951)	
Cement type  Overtity of bentonite used (lbs.)	
Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
COMMENTS: Dull 2" PV( 1- trans good to -5" BGS	* Sketch in all relevant decommissioning data, including:
natio landiful (Alcomolde)	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
1111/10	
Drilling Contractor	Department Representative





## DAILY INSPECTION REPORT No. \_66\_\_

DATE: <u>May 29<sup>th</sup>, 2019</u>

### STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 428079 NYSDEC CONTRACT No. D007622-8.1

TEMPERATURE: 50S SKIES: Overcast

WIND: MODERATE PRECIPITATION: NONE

#### DESCRIPTION OF WORK PERFORMED BY CONTRACTOR

Nothnagle Drilling Inc., represented by Neal Short and Anthony Farrell, arrived on site at 0730 and mobilized equipment to prepare for well decommissioning in accordance with the requirements of NYSDEC's CP-43 *Groundwater Monitoring Well Decommissioning Policy*. Four of 24 monitoring wells and piezometers have been decommissioned prior to the start of fieldwork today.

The decommissioning of monitoring well OW-4R that was started on May 28, 2019 was completed by backfilling the excavation using the excavated soil. The monitoring well protective casing and two-inch diameter PVC riser for six wells (B3/PZ-2, MW-2, SW-33, SW-37, URS-10, URS-12) were removed entirely using a winch cable. The 2-inch diameter by 22-foot deep PVC riser of URS-11 broke off at approximately seven feet below ground surface during removal. The screens were left in place. The outer steel protective casing was also removed. The boreholes were grouted in place with approximately 5 gallons of grout to the ground surface (bgs).

#### **PERSONNEL ON-SITE:**

Affiliation		Hours Logged
Nothnagle Drilling Inc.	Neal Short Anthony Farrell	0730 – 1600

#### **VISITORS**:

Name	Representing	Time (from – to)	Comments

#### **EQUIPMENT AT SITE:**

Contractor	Equipment	Hours Logged
Nothnagle Drilling Inc.	Skid Steer	0730 – 1600
Nothnagle Drilling Inc.	CME Truck Mounted Drill Rig	0730 – 1600
Nothnagle Drilling Inc.	Delivery and equipment truck	0730 – 1600

PREPARED BY: Ernest Thalhamer TITLE: Staff Geologist

REVIEWED BY: Chuck Dusel TITLE: Project Manager



DAILY INSPECTION REPORT No. \_66\_\_ DATE: <u>May 29<sup>th</sup>, 2019</u>

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 428079 NYSDEC CONTRACT No. D007622-8.1

Photo No. 1 – Drilling rig set up at URS-07



WELL DECOMMISSIONING RECORD	
Site Name: STOART OLIVER HOLTZ SITE	Well I.D.: ON-4R
Site Location: 39 COMMERCE BRIVE HEWRIETTA NY	Driller: NEXC STORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THELHAMER
Dining con porting and a second	Date: 5/29/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- gal - natrie
Borehole Dia. (in.)	- Li Cont T
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	SEASON SE
CASING PULLING	The second secon
Method employed	Salara Sa
Casing retrieved (feet)	Application of the control of the co
Casing type/dia. (in)	
CASING PERFORATING	35 -
Equipment used	
Number of perforations/foot	I I I I I I I I I I I I I I I I I I I
Size of perforations	
Interval perforated	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CROUTTAIC	
GROUTING (FRIS)	
Interval grouted (FBLS) # of batches prepared	
For each batch record:	
Ouantity of water used (gal.)	
Quantity of cement used (lbs.) 282	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.) 35	49' - 15
Volume of grout used (gal.) 35	
The state of the Bull State Bull	* Sketch in all relevant decommissioning data, including:
COMMENTS: excused, + ~5 BES cut off 8" and 4" BIF	interval overdrilled, interval grouted, casing left in hole,
10 -5 BGS trans good in place to -5 BGS , Matria	<del> </del>
Keddell .	well stickup, etc.
/NI/W	
Designed Contractor	Department Representative

	Γ	NOTE OF THE OWNER, AND ADDRESS.	674 £	FOEW/TOOUWS	WTAL OF W	CII VOOV	AND STREET, ST		*********		************	-	and the second s		and the same of th
		GZA GEOENVIRONMENTAL OF NEW YORK 364 NAGEL DRIVE, BUFFALO, NEW YORK				PROJECT Stuart-Olver-Holtz					BORING No. CN-4R SHEET TOF 3				
1000	L	·	ENGIN	EERS AND SC	IENTISTS			Rochester, New York FILE No. 19078.10 CHXD. BY					.10		
0	10	RILLER		Nothnagle C Steve Lorar	177			BORING LOCATI	91_1	1112361	2.12	751057.	Section of the sectio	CONTRACTOR OF THE PROPERTY OF	
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P	1	YPE OF	DRILL	RIG CME	-75							WATER LE	VEL DATA	THE STATE OF THE S	
1:	i			NO TYPE		Hollow St	em Aucers		O	ATE	TIME	WATER	CASING	REWARKS	WOOD OF THE PERSON OF THE PERS
							24" long split		11/	15/94	1100	Dry	36′	Stabilized 15	mins.
	-	······································	**************************************		Spec	3		***********	11/7	21/94	0800	17.3	481	Stabilized 66	hrs.
Ы	}	-	ILLING	METHOD					-						
Accomp	DE	1		SAMPL	E		SAMPLE	DESCRIPTION		(1) Peak		THEMELL			N
Ī	P	BLOW	s ko.	DEPTH	N-VALUE	RECOVERY	1			OVM Read	The same of the sa				O T E S
	-	1/6	" S-1	(FT.) 0-2	/RGD(%)	<del>(%)</del>			Oliveria este a cons	(ppm)	<u>                                     </u>	.0G			Š
Ħ	*	11	13-1	V-c	16	50	T COSTSE SANU	, brown, fine t , trace Clayey	0	14			•		
	and the state of	¹├ <del>┆</del>	+		1		Silt, moist		-						1
		市	╫	<b></b>	<del> </del>	_	2 manual manual man	Gravel, moist		•		: 4	<b>—</b> ео	ncrete surface	
M		Ŷ <del>ij</del>	- s-2	2-4	38	70	to coarse \$/	e, brown, fine ND, little trace gravel,					seal 0	to 2.5 ft.	
	l	14	┽╧		1		moist.	. trace grave(,		1		<u> </u>			
1000	13	3 24	1-		<del> </del>		same, grades	dense, moist.							
П	70	13	$\top$	<del>                                     </del>											
	14	1 3	s-3	4-6	16	50	grades to Me	dim Danca		ND					1
<b>P</b>	1.	. 7	1				some clayey	Silt, moist.		NU					•
	1	9	1												
	on and an	14		***************************************		***************************************	(F)	LL)	6.01						
		3	S-4	6-8	13	55				4		فلاله	L	ch black steel	***************************************
	1 7	, 6				***************************************	Stiff, brown trace fine S	, CLAY & SILT, and, moist.					riser p	ipe from 0 to	
	1 '	7													
	8	10					(LACU	STRINE)	i i i i i i i i i i i i i i i i i i i			H			
4000		2	s-5	8-10	11	55	same, except	mottled Grey,		8	11				
M	9		-				Reddish Brow	n, spist.			41	l, lå			
	**************************************	7		***************************************					- Annual Control						
	10		<b> </b>			***************************************					41				
	4000000	3	S-6	10-12	16	60	same.	*		8		l K		ent/bentonite	
	11	7	+-1								41	148	12.	on 2.5 to 39	
		13	╂╾┥				[LACUSTR	IXE)	-						
	12	2	S-7	12-14	10										
		5		16-14	- 10	65	same.			1					
	13	5	${f H}$												
		5	╁┯╁	***************************************											
5077A	14	1	s-8	14-16	<del>-</del> - +	60	Grades to son	t, moist.	l						
		1					[LACUSTR		ا رو.	ON		***			
	15	2	I				CUPPER T		-0-	Ĭ	48				
m		3				***************************************	(m/ ) (m/ )		1			200			
	16	1	5-9	16-18	7	10	Loose brown, SAND, moist.	fine to coarse	- Cirecton Control	NO S					
	,			LEGEND			HOTES: (1) 0	rganic Vapor Me	L	(OVAL) e	esdina	of hear	400000000000000000000000000000000000000		
団		ñ - ñu	distu	con Soil Sabed Soil Sa	ample ample		phot	olonization del	tecto	r. 10=	not de	tected a	above 1 p	ing a-au PI-10 pm.	; T
占	-	NAMES OF TAXABLE PROPERTY.	COMMON CONTRACTOR CONTRACTOR	e Sample		<b>.</b>				CONTROL CONTROL AND	·	······································	The state of the s		
	KO	TES: 2	YAT	ER LEVEL RE	ADINGS HA	PRESENT AP VE BEEN MA	PROXIMATE BOUL DE AT TIMES AL	DARY BETWEEN S D UNDER CONDIT	OIL 1 IONS	YPES, STATÉD	TRANSI	TIONS MA	Y BE GRA	DUAL.	
	GZA	Participal de la constante de	PIA T	OCCUR DUE	IU OTHER	PACTORS TH	AN THOSE PRESE	INT AT THE TIME	HEAS	UREMEN	TS VERI	MADE.	J. UNUM	BORING No. O	1-60
				The state of the s	······································		Control of the state of the sta			-		Market Market Market Street	·	1	- 71

Celebrary .		NGIN	ERS AND SC	IENTISTS			Rochester	WEM TO	Salar manage	FILE No. 19078.10
			Sampl	E		SAMPLE	DESCRIPTION	Peak	EQUIPMENT	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)			OVM Read (PPM)	INSTALLATION LOG	No. of the Control of
17	2					(UPP)	ER TILL]			
	5	_		<u> </u>						
8	5									
_	7	S-1	18-20	20	100	Medium dens	e, Grey, fine to , trace Gravel,	סא		
9	8	<del> </del>	<b></b>	ļ		wet.	,			
	12		<b></b>	<b>-</b>		CUPPI	ER TILLI			
0	15 2	5-1	20-22	15	100	İ				
	7	3.1	20-22	1 6	100	same.		ND		
1	8	t		ł						
-	8	1				· ·				
2	6	5-12	22-24	22	100	same.		КO		
3	13	L								
2	9					(UPPER	TILL) 23.5'			
4	9					Medium dense	Gray, fine to			
¢	10	s-13	24-26	57	100	Silt, moist.	e, Gray, fine to little clayey	ND		
S	19		THE STREET, SALES SALES			moist.	Very Dense,			
100000000000000000000000000000000000000	38		ene en metalo m <del>olinario ma</del> celario							
5	51	ļ.,			************		TILL)			
-	48	S-14	26-26.9	>100	100	Very dense, coarse SAND,	Gray, fine to some clayey Gravel, moist.	КD		
7	100/5					Silt, trace	Gravel, moist.			
Contractor		_	***************************************		***	(rome	R TILL)			
3	41	S-15	28-29.5	>100	100	same with a	medium Sarvi	NEO		
-	50		9497200000000000000000000000000000000000			parting 28.0	medium Sand to 28.7 ft.	,		
7	100/5									
									71 44	4-inch black steel
	48	S-16	30-30.9	>100	100		without sand NO			riser pipe to 44 ft.
-	100/5					partings, mo	151.			
-							and the second s			
							Parabacilibros			
Total Breeze	56	S-17	32-33	>100	100	sane.	Transition of the state of the	NO		- Marie or a series of the ser
	100/6			<b> </b>			personance			
-			**************************************							
, the	64	s-18	34-35	>100	100	same.	territoria de la companya della companya della companya de la companya della comp	ND		
mental	100/6					weredeting it		nu l		
-		1	***************************************				The state of the s	Ì		
A.		_				(LOVER	TILLI	ŀ		
1	26	S-19	36-37.5	>100	100	same.	Belesser	NO		
344	امري امري م		LEGEND			NOTES: (1) 0	rganic Vapor Meter (	-	eading of head	L Ispace using H-Nu Pl-101 above 1 ppm.
1	i spi	listu	poon Soil S bed Soil S e Sample	ampte ampte	**************************************	pho:	tolonization detecto	or. NO	enct detected	above 1 ppm.
MARKET .	-	·	***************************************	**************************************		**************************************	INDARY BETWEEN SOIL IND UNDER CONDITIONS ENT AT THE TIME HEA	KONTONIO MANGANIA	-	

-	3	64 NA	GEL DRIVE,	THE RESERVE OF THE PARTY OF THE			PROJE Stuart-Ölver Rochester	-Holtz		80RING No. <u>OV-4R</u> SHEET 3 OF 3 FILE No. 19078.10 CHKD. BY
	E I	IGINE	ERS AND SC	IENT: STS		1		_		CHKO. BY
0 8 9			SAMPL	E		SAMPLE	DESCRIPTION	PEAK OVM	W-1	nice and the state of the state
T H	BLOWS / 6"	жo.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)			READ (PPM)	INSTALLATION LOG	
37	42							МО		
<b></b> ,	100/5	<u> </u>				Very dense,	grey to green, ock fragments.			
38						moist.				
	36	s-20	38-38.9	>100	100	Very dense	Grey to green, and weathered	OK		
39	100/5		- <del>1</del>	<b>-</b>	***************************************	<b>r</b> ock fragme 	nts, moist.			
				<b></b>		[LOW	ER TILL			
40	13	\$-21	40-42	63	75	Very dense.	mottled red to	ND		
	25					green, CLAY	mottled red to & SILT, trace rse SAND, ock fragments,			
41	38	***********				weathered r	ock fragments,			
. ~	46		***************************************		**************************************					bentonite pellet seal from 39 to 42 ft.
42	10	s-22	42-44	53	75	same.		ND		
43	16	``								Luc on cire cond
	37		-					Enforcements		Ho. 00 size sand filter pack from 42 to 50.3 ft.
44	70								[ <del>*</del>	
	19	S-23	44-44.8	>100	100	same, grade impist to we	s grey to red	ND		
45	100/3		recens - Third Control Control	-		CLOWER TI	····			4
					N. P. Markette, von de spranske von en gelegelske von	Grey Weathe fragments.	red rock		I ୬ <del>III j</del> i	
46	44	s-24	46-46.8	>100	100	(SEVERELY WE Very dense.	ATHERED BEDROCK) grey to green,	ND	I •	Screen from 44 to
	100/3					weathered r	ock fragments,		隊目襲	
47										
48										
70	100/5	S-25	48-48.4	>100	100	same, moist	*	ND	# <b>       </b>	
49										stainless steel sump from 48.5 to 49 ft.
900000000000000000000000000000000000000										
50	100 (7)	0.24	50-50.3	>100	100	same, moist	ATUENEN NENBARY	6.75	. f	
	100/3	3-20	20-20.3	>100	100	L.	ATHERED BEDROCK	מא		
						2011001 01 0				
		T								
Eventura model	***************************************									HORISALAcidores
1			and the second							
essential Page				<b> </b>						2016
esecondam.										***
		$\dashv$								NOTE
and the second		-1	and the second seco							<b>47</b>
		_	·							
į	S - Sp U - Urx C - Ros	it S listu k Co	LEGEND poon Soil ! rbed Soil ! re Sample	Sample Sample		NOTES: (1)	Organic Vapor Meter otolonization detect	(OVM) or. NO	reading of he enot detected	adspace using H-Nu P1-101 l above 1 ppm.
GEN	ERAL 1	) ST	RATIFICATIO	ON LINES R	EPRESENT A	PPROXIMATE BO	UNDARY BETWEEN SOIL AND UNDER CONDITIONS SENT AT THE TIME ME	TYPES,	TRANSITIONS	MAY BE GRADUAL.
#O	ies: 2	J WA	TEK LEVEL	READINGS M	AVE BEEN M	AUE AT TIMES	AND UNDER CONDITIONS	STATE	D, FLUCTUATIO	NS OF GROUNDWATER

WELL DECOMMISSIONING RECORD	
	-
Site Name: STOART OLIVER HOLTZ SITE	Well I.D.: B-3/PZ-2
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEKU SMORT
	Inspector: ERNIE THALLIAMER
Drilling Co.: NOTHNAGLE DELLING INC	
·	Date: 5/24/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth ·
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	native
Borehole Dia. (in.)	-14/80/104
Temporary Casing Installed? (y/n)	5 -
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed Grant in place	10 3 e
Casing retrieved (feet)	
Casing type/dia. (in)	
Casing typo dia. (iii)	
CASING PERFORATING	
Equipment used	- Front
Number of perforations/foot	
Size of perforations	
Interval perforated	
	100 7 13 1
GROUTING Interval grouted (FBLS) 28	24
TITICI ACT BY OUTUNE (* 200)	
# of batches prepared	
For each batch record: Oughtity of water used (gal.)	
Quantity of water used (gal.) Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	28 5 60
Volume of grout prepared (gal.)	30 4
Volume of grout used (gal.)	
	man,
COMMENTS: Frence grant to Surface : Excurste to	* Sketch in all relevant decommissioning data, including:
45 BGS violing backfull	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
3.01.0	
Drilling Contractor	Department Representative

# IT CORPORATION A Member of the IT Group

# Drilling Log

# Monitoring Well B-3/PZ-2

Screen: Dia 2 in. Casing: Dia 2 in. Fill Material Drill Co. SVB	Total Hole Depth Water Level Initial Length 15 ft. Length 14.5 ft.  Method H Log By T. Mayna Lice	SA rd	Date 05/25/00 Permit #	ion
2- 			0-4': Augered to 4'.	
- 2 - 3			4-6': Attempted shelby tube, crushe 6-8': Shelby tube #3, ~3/4 full.	ed.
NA - 8 - 10 - 10 -	9-7-11-14		8-10': Tan-brown, dry clay, dense.	
- 12 - 10.7 Is	-14-20-19 95% 12-11-11-10	0.	10-12': Tan-brown, dry clay, dense b	pottom 3", little medium sand.
- 14 - 1 = 1	80% 8-18-12-10 80%		14-16": Tan/brown, moist clay, dense, vertical streak throughout.  16-18": Brown, moist clay, medium den	
18 -	7-18-4-9 80% 8-30-33- 22 80%	sc ]	sand. 18–20': Brown, wet silty sand, little—s cobble.	TC-city realizes as a second of the second o
22 -   =	0-31-39- 28 60%		20-22": Same as above, last 3" till. 22-24": Brown, wet silty sand (equal	parts), trace gravel, clay.
24 = 0.8 5	0/.4 40%	SM NS		**************************************

# IT CORPORATION A Member of the IT Group

### Drilling Log

Monitoring Well B-3/PZ-2

Project SOH \_ Owner <u>Metalade</u> Location Henrietta, NY Proj. No. 784222 Mell Campletion Class. Recovery Graphic Log Depth (111.) 01d (madd) Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% - 24 24-26': Brown, moist silty sand, Ittle gravel, trace cobble, dense, description of the control of the co 4.5 50/.4 15% 26 26-28': Same as above, very dense. 5.2 50/.4 10% 28 28-30': Same as above. 7.1 50/.3 15% GM 30 30-32': Same as above, 8.5 50/.3 10% - 32 -32-34': Same as above. 5.2 50/.4 20% - 34 34-36': No recovery (sluff only). NA 50/.2 5% - 36 36-38". Brown, moist, silty sand, little gravel, trace cobble, very dense, Till. 0.3 50/.4 10% 38 38-40": Na recovery (rock in spaan). 50/0 0% NA -40 40-42": Brown, silty sand, little gravel, trace cobble, feldspar in basket. 50/.4 20% 5.4 42. 44 46 48-50 -52 54 56

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: MW-2
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEXC SHORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THALHAMER
	Date: 5/29/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- Justice
Borehole Dia. (in.)	- Trans-
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	-
Method of installing	
CASING PULLING Method employed	
Memor employed	
Casing retrieved (feet)	
Casing type/dia (in)	
- TO TO DEDUCE A TIME	
CASING PERFORATING Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Interval periorated	20 ]
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	
Cement type	
Ouantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	2/30 -
Volume of grout used (gal.)	
COMMENTS: tremis good to surface, excuvate to	* Sketch in all relevant decommissioning data, including:
US' 865 patre bedefill	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
111 A gumman	
Drilling Contractor	Department Representative

# WELL DEVELOPMENT LOG

# URS Corporation

	PROJECT TITLE:	Stuart Ol	ver Holtz			and the second of the second o	_WELL NO		Page 1 of	2		
.000	PROJECT NO.:	11174465	.00002	***************************************	Official and in the state of th	***************************************						
Ē	STAFF:	Matt Kand	efer, Tim lfk	ovich					***************************************			7
, algebra	DATE(S):	4/6/2007	***************************************									
			and the second s					Marian and the same of the				
	1. TOTAL CASING AND SC	REEN LEN	GTH (FT.)			223	2:	7.11		LL ID.	VOL. (GAL/I 0,04	<del>-</del> 1)
	2. WATER LEVEL BELOW	TOP OF CA	SING (FT.)			m	8	.10	nuit	2"	0.17	
	3. NUMBER OF FEET STA	NDING WAT	ER (#1 - #2	)		=	18	0.01	_	3*	0.38	
L	4. VOLUME OF WATER/FO	OT OF CAS	SING (GAL.)			=	0	.17	-	4*	0.66	
7	5. VOLUME OF WATER IN	CASING (G	AL.)(#3 x #4	)			3	23		5°	1.04	
	6. VOLUME OF WATER TO	REMOVE (	GAL.)(#5 x _	)		134	19.	3902	-	6"	1.50	
B	7. VOLUME OF WATER AC	TUALLY RE	MOVED (G	AL.)		=	1	80		3"	2.60 DR	······································
									V=0.0408 x		DIAMETER)	:
					ACCU	MULATED	VOLUME PL	RGED (GA	LLONS)			
	PARAMETERS	5	10	20	30	40	50	60	70	80	90	100
	рН	7.71	7.74	7.81	7.87	7.3	7.1	7.1	6.8	7.36	7.88	7.95
	SPEC. COND. (umhos)	1640	1630	1620	1420	1440	1420	1430	1390	1380	1400	1380
	APPEARANCE	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
	TEMPERATURE (*C)	6.9	7.5	8.5	8,4	*	•	•	10.1	9.3	9.8	10.5
	TURBIDITY	>1100	>1100	>1100	>1100	120	>1100	544	130	49.4	270	900
3	WATER LEVEL	9.8	9.23	9.41	10.43	11.35	14,61	14.8	17.51	18.71	<b>1</b> 6.18	18.2
10000	COMMENTS:	Purned 30	callone wit	th hailar C	hirand 30 :	16011						
Ē		Purged 30 Recharge	approxiam:	ately 5-10g	/hr.	rov gallons	with a Wha	ue. Purge	a 160-180 (	gallons with	a peristol	tic pump.
8												
												-

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: SW-33
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEXC SHORT
	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGLE DELLING INC	Date: 5/29/19
·	
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	witer
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
C. CD.C DEDECRATING	
CASING PERFORATING Equipment used	
Number of perforations/foot	
Size of perforations	- torri
Interval perforated	
CROLITING	
GROUTING Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	- 18 /
Quantity of water used (gal.)	7 8
Quantity of cement used (lbs.)	
Cement type Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	, unadente menuturi
COMMENTS: 2010 20 DVL (Consider) teme good	* Sketch in all relevant decommissioning data, including:
COLYMINATOR	interval overdrilled, interval grouted, casing left in hole,
to we do not a better	well stickup, etc.
131/h	
Drilling Contractor	Department Representative



### SUBSURFACE LOG

(Page 1 of 1)

Stuart Olver

Rochester, New York

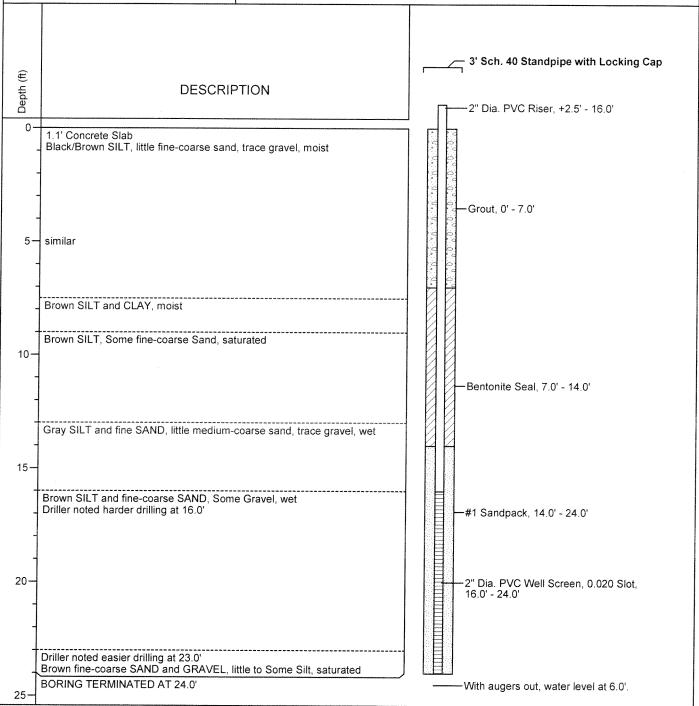
Boring No:

: SW-33

Project No.: Date Started: : 210001D : 02/09/11

Date Completed:

: 02/09/11



Sampling Method: ASTM D-1586, unless otherwise noted. Notes: 4 1/4" ID Hollow Stem Augers Visually Classified by: Geologist File: 210001D/tech/SW-33

02-17-2011 P:\PROJECTS\2010\210001D-Stuart Olver Holtz-Rochester\TECH\SW-33.bor

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: Sw-37
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEAC STORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THALHAMER
Dining Co., Northwell Co.	Date: 5/24/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
OVERDRILLING	(feet)
Interval Drilled	
Drilling Method(s) Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	200000000000000000000000000000000000000
Depth temporary casing installed .	1,0000000
Casing type/dia. (in.)	-
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet) Casing type/dia. (in)	
Casing type/dta (m)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot Size of perforations	
Interval perforated	
an oxympic	
GROUTING Interval grouted (FBLS)	- +
# of batches prepared	
For each batch record:	- 5
Quantity of water used (gal.) Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)  Volume of grout used (gal.)	
COMMENTS: DUSS ST BYC (Complete) trans	* Sketch in all relevant decommissioning data, including:
good to he see	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
01116	
Drilling Contractor	Department Representative



### SUBSURFACE LOG

(Page 1 of 1)

Stuart Olver

Rochester, New York

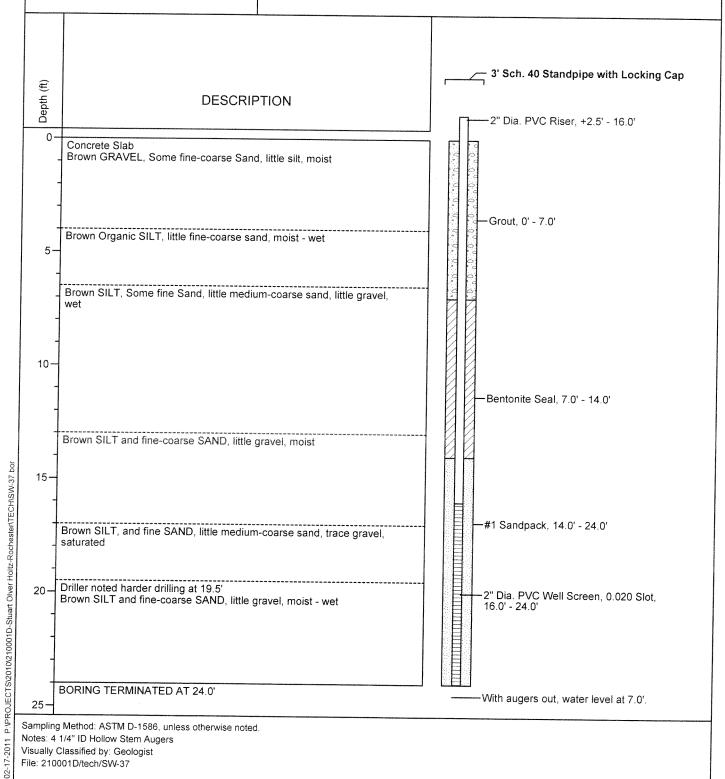
Boring No: Project No.: SW-37

Date Started:

210001D

Date Completed:

02/03/11 : 02/03/11

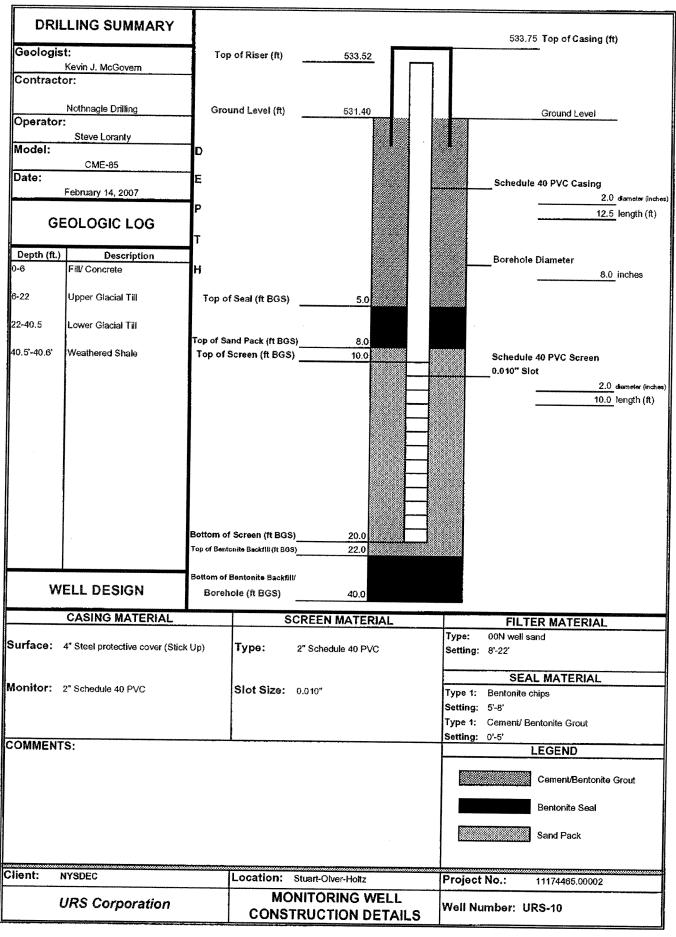


Sampling Method: ASTM D-1586, unless otherwise noted. Notes: 4 1/4" ID Hollow Stem Augers

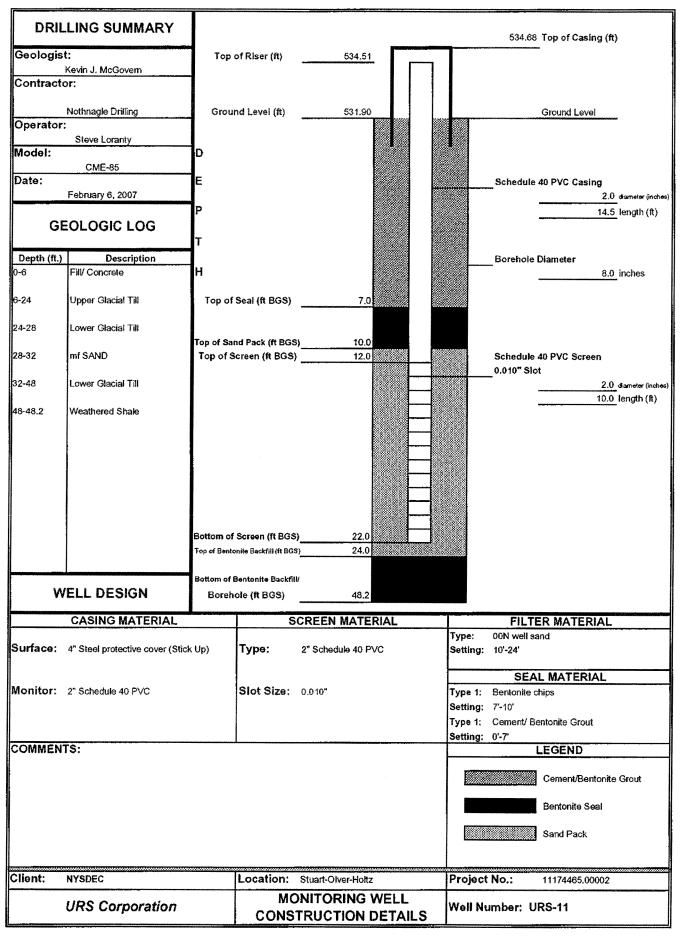
Visually Classified by: Geologist

File: 210001D/tech/SW-37

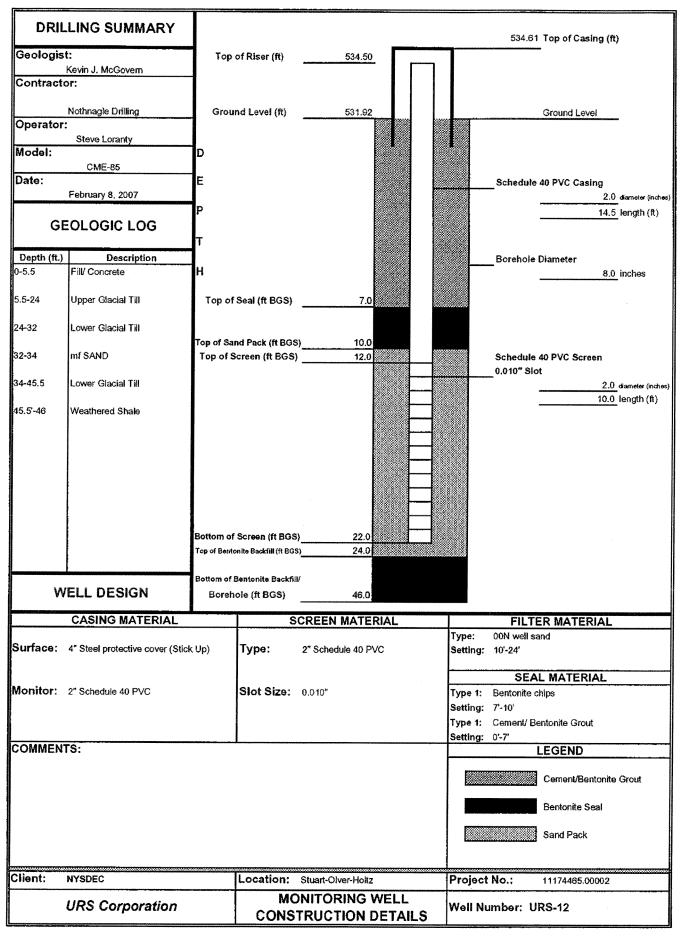
WELL DECOMMISSIONING RECORD	
W DEED DECOME.	-
	1500.30
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: URS-10
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEXC SHORT
Sile Location: ST Complete Complete Sile 186	Inspector: ERNIE THREHAMER
Drilling Co.: NOTHNAGLE DRULING INC	Date: 5 29 19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth O
(Fill in all that apply)	(feet)
OVERDRILLING	1-0
Interval Drilled	
Drilling Method(s)	Inative
Rorehole Dia. (in.)	_
Temporary Casing Installed? (y/n)	<b>+ -</b> .
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Fourpment used	troys-
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (103.)	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (10s.)	
Volume of grout prepared (gai.)	20' ] . V
Volume of grout used (gal.)	- adison/equipments
COLOMENTS: = 00 2" PUL ( complete), treming good	* Sketch in all relevant decommissioning data, including:
COMMENTS: Value	interval overdrilled, interval grouted, casing left in hole,
to -5' B6s. native buckfill	well stickup, etc.
,	
all w	
Drilling Contractor	Department Representative



WELL DECOMMISSIONING RECORD	
	•
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: UKS-11
Site Location: 39 COMMERCE BRIVE HEWRIETTA, NY	Driller: NEXC STORT
	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGE DRULING INC	Date: 5/29/19
	WELL SCHEMATIC*
DECOMMISSIONING DATA (Fill in all that apply)	Depth Depth
(Fill in all diat apply)	(feet)
OVERDRILLING	0 _ 4
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.) Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia (in)	
CASING PERFORATING	
Equipment used	Constitution
Number of perforations/foot	
Size of perforations	OOD
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	
Cement type Overtity of bentonite used (lbs.)	
Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	44
COMMENTS: DAM 2" PUC - broke off -7" BGS	* Sketch in all relevant decommissioning data, including:
COMMINION 18.	interval overdrilled, interval grouted, casing left in hole,
trans grad in place to to the or more business	well stickup, etc.
7/1/1/	
Drilling Contractor	Department Representative



	WELL DECOMMISSIONING RECORD	
Drilling Co.: Not an act of the provided in the control of the con		
Drilling Co.: Not have to be thanked and including the contribution of professional data, including timeval operator and in selevant decommissioning data, including timeval operator and in selevant decommissioning data, including timeval operator and interval provided (Bl.S.)  OVERDRILLING  Inspector: RANG THE THE LIFT E.  Inspector: RANG THE THE LIFT E.  Date: Slang 4  WELL SCHEMATIC*  Depth (feet)  Depth temporary casing installed (y/n)  Deph temporary casing installed (Casing type/dia. (in.)  Method of installing  CASING PULLING  Method employed  Casing retrieved (feet)  Casing retrieved (feet)  Casing type/dia. (in)  CASING PERFORATING  Equipment used  Number of perforations/foot  Size of perforations  Interval grouted (FBLS)  # of batches prepared  For each batch record:  Ouantity of water used (gal.)  Quantity of cement used (lbs.)  Quantity of calcium chloride used (lbs.)  Volume of grout used (gal.)  **Session is all relevant decommissioning data, including: interval grouted, casing left in hole, interval overdilled, interval grouted, casing left in hole, interval overdilled, interval grouted, casing left in hole,	Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: VR5-12
Decommissioning Data  Decommissioning Data  Decommissioning Data  (Fill in all that apply)  OVERDRILLING  Inspector: CANE THE THE LAND TO Date: SIZM MELL SCHEMATIC*  Depth in (feet)  Depth in (feet)  Output temporary casing installed? (y/n)  Depth temporary casing installed  Casing type/dia. (in.)  Method of installing  CASING PULLING  Method employed  Casing retrieved (feet)  Casing type/dia. (in)  CASING PERFORATING  Equipment used  Number of perforations/foot  Size of perforations  Interval grouted (FBLS)  # of batches prepared  For each batch record:  Ouantity of water used (gal.)  Quantity of cement used (lbs.)  Quantity of calcium chloride used (lbs.)  Volume of grout used (gal.)  Volume of grout used (gal.)  *Seach in all relevant decommissioning data, including: interval grouted, casing left in hole, interval groverdibled, interval grouted, casing left in hole,	Site Location: 39 COMMERCE BRIVE HENRIETTA NY	
Date: 5/24/4  DECOMMISSIONING DATA (Fill in all that apply)  OVERDRILLING Interval Drilled Drilling Method(s) Borrehole Dia (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing type/dia. (in.)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of prout prepared (gal.) Volume of grout prepared (gal.) Volume of grout prepared (gal.) Volume of grout prepared (gal.)  **Skeach in all relevant decommissioning data, including-interval overdrilled, interval grouted, casing left in hole,		Inspector: ERNIE THALLIAMER
(Fill in all that apply)  OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (im.) Depth temporary casing installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in.)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of water used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.)  * Skeach in all relevant decommissioning data, including interval grouted, casing left in hole.	Dining Co., 1901 (1918)	7
(Fill in all that apply)  OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  Number of perforations Interval perforations Interval perforated  GROUTING Interval ground (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.) Volume of grout used (gal.) Volume of grout used (gal.)  * Skeach in all relevant decommissioning data, including: interval grouted, casing left in hole, interval grouted, casing left in hole,	DECOMMISSIONING DATA	WELL SCHEMATIC*
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in.)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval protoated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of cement used (lbs.) Quantity of celcium chloride used (lbs.) Quantity of colcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Skeech in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole.	ł :	Depth ·
Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Innerval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (lbs.) Quantity of cement used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole.		(feet)
Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in.)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of calcium chloride used (lbs.) Quantity of ferious descriptions Quantity of calcium chloride used (lbs.) Volume of grout used (gal.)  COMMENTS: Dell 2 Per (complete) terms Groat  * Sketch in all relevant decommissioning data, including: interval grouted, casing left in hole.	OVERDRILLING	
Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of water used (lbs.) Cement type Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: All 2 Pul (condit) team Gast  * Skeach in all relevant decommissioning data, including: interval overdrilled, interval grouted, easing left in hole.	Interval Drilled	- Indiana - Indi
Borenote Dia (III) Borenote Dia (III) Borenote Dia (III) Depth temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in.)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of water used (lbs.) Cement type Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: Dall 2 Put (Longold) team quant *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Drilling Method(s)	- watrice
Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.)  Volume of grout used (gal.)  COMMENTS: Dall 2 Put (complete) transparent  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Borehole Dia. (m.)	NO COLOMBIA DE LA CALLA DE
Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole,	Temporary Casing installed (y/n)	положно
Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of grout prepared (gal.) Volume of grout used (gal.) Volume of grout used (gal.)  COMMENTS: Data a Proceeding the first section of the prepared (gal.)  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Cooling transition (in )	
CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of grout prepared (gal.) Volume of grout prepared (gal.) Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole,	Method of installing	
Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of cent prepared (gal.) Quantity of grout prepared (gal.) Volume of grout used (gal.)  Volume of grout used (gal.)  **Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, easing left in hole,	Nethod of instances	
Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of cent prepared (gal.) Quantity of grout prepared (gal.) Volume of grout used (gal.)  Volume of grout used (gal.)  **Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, easing left in hole,	CASING PULLING	
Casing type/dia. (in)  Casing type/dia. (in)  Casing PERFORATING  Equipment used  Number of perforations/foot  Size of perforations  Interval perforated  GROUTING  Interval grouted (FBLS)  # of batches prepared  For each batch record:  Quantity of water used (gal.)  Quantity of cement used (lbs.)  Cement type  Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)  Volume of grout prepared (gal.)  Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, easing left in hole,	Method employed	- International Control of Contro
CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Cashing tentered (1994)	
Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: pull 2 PV (compute) transaction interval overdrilled, interval grouted, casing left in hole,	Casing type/dia. (in)	
Equipment used Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: pull 2 PV (compute) transaction interval overdrilled, interval grouted, casing left in hole,		
Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  **Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	CASING PERFORATING	
Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Equipment used	
Interval perforated  GROUTING Interval grouted (FBLS)  # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Number of perforations	
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  * Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole,	Size of perforated	
Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	interval periorated	
Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	GROUTING	
# of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,		
Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	# of batches prepared	
Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	For each batch record:	
Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Quantity of water used (gal.)	
Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  *Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,		
Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: Del 2 Pro (complete) traine Groat  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Cement type	1 7/8/
Volume of grout prepared (gal.)  Volume of grout used (gal.)  COMMENTS: Dall 2" PVC (complete) traine grout  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Quantity of bentonite used (lbs.)	79 /
COMMENTS: pull 2 Pvc (complete) traine grout  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Quantity of calcium emoride discussions of group prepared (gal.)	
COMMENTS: Dull 3" PVC (complete) traine grout  * Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,	Volume of grout used (gal.)	22'
interval overdrilled, interval grouted, casing left in hole,		
to 45' 865' Walve Duchell interval overdrilled, interval grouted, casing left in hole,	COMMENTS: Dull 2" PV/ (consiste) trans grout	* Sketch in all relevant decommissioning data, including:
		interval overdrilled, interval grouted, casing left in hole,
	113 x 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	well stickup, etc.
11/1	11/10	
Drilling Contractor Department Representative	Drilling Contractor	Department Representative





# DAILY INSPECTION REPORT No. \_67\_\_ DATE: May 30<sup>th</sup>, 2019

STUART OLVER HOLTZ WELL MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079 NYSDEC CONTRACT No. D007622-8.1

TEMPERATURE: 50s SKIES: Overcast

WIND: MODERATE PRECIPITATION: NONE

#### DESCRIPTION OF WORK PERFORMED BY CONTRACTOR

Nothnagle Drilling Inc., represented by Neal Short and Anthony Farrell, arrived on site at 0730 and mobilized equipment to prepare for well decommissioning in accordance with the requirements of NYSDEC's CP-43 *Groundwater Monitoring Well Decommissioning Policy*. Twelve of 24 monitoring wells and piezometers have been decommissioned prior to the start of fieldwork today.

Six wells were decommissioned (OW-1S, OW-1R, OW-2S, OW-2R, SW-32, URS-07). Well SW-32 steel protective casing and 2-inch PVC riser was removed entirely using a winch cable and grouted to the ground surface. URS-07 broke at ground surface during removal using a winch cable. URS-07 was therefore overdrilled to five feet below ground surface and then grouted to the ground surface. Well IPZ-2 appeared to have been previously abandoned. The location of where IPZ-2 was expected was overdrilled to 5' below ground surface, with no signs of an existing well and then grouted to the ground surface.

The area around wells OW-1S, OW-1R, OW-2S and OW-2R, were excavated to approximately five feet below ground surface to expose the outer steel pipe. The four-inch diameter black iron riser and eight-inch diameter outer steel casing were cut at approximately five feet below ground surface. The remaining riser pipe were tremie grouted in place with approximately 16 gallons of grout for OW-1S; 15 gallons of grout for OW-2S; 30 gallons of grout for OW-1R; and 32 gallons of grout for OW-2R. After grouting was complete, each excavation was backfilled using the excavated soil.

#### **PERSONNEL ON-SITE:**

Affiliation		Hours Logged
Nothnagle Drilling Inc.	Neal Short Anthony Farrell	0730 – 1600

#### VISITORS:

Name	Representing	Time (from – to)	Comments

#### **EQUIPMENT AT SITE:**

Contractor	Equipment	Hours Logged
Nothnagle Drilling Inc.	Skid Steer	0730 - 1600
Nothnagle Drilling Inc.	CME Truck Mounted Drill Rig	0730 - 1600
Nothnagle Drilling Inc.	Delivery and equipment truck	0730 - 1600

PREPARED BY: Ernest Thalhamer TITLE: Staff Geologist

REVIEWED BY: Chuck Dusel TITLE: Project Manager



DAILY INSPECTION REPORT No. \_67\_\_ DATE: <u>May 30<sup>th</sup>, 2019</u>

STUART OLVER HOLTZ WELL MONITORING WELL DECOMMISSIONING CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079

NYSDEC CONTRACT No. D007622-8.1

Photo No. 1 – Excavating to 5' BGS at wells OW-2S and OW-2R



Photo No. 2 -OW-2S and OW-2R exposed to 5' BGS





DAILY INSPECTION REPORT No. \_67\_\_ DATE: <u>May 30<sup>th</sup>, 2019</u>

STUART OLVER HOLTZ WELL MONITORING WELL DECOMMISSIONING CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079

NYSDEC CONTRACT No. D007622-8.1

Photo No. 3 –OW-2S with casing and riser cut at 5'BGS. The demolished pieces of concrete surface seal and cement/bentonite grout was left at the bottom of the excavation.



WELL DECOMMISSIONING RECORD	
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Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-15
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEAL STORT
Drilling Co.: NOTHNAGLE DRULING INC	Inspector: ERNIE THELHAMER
Dilling Co., Not thought passes.	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- Lystin
Borehole Dia. (in.)	8"Black P.M
Temporary Casing Installed? (y/n) Depth temporary casing installed	5 - 8 Black P. P.
Casing type/dia. (in.)	
Method of installing	
14104104 01 11041-0	1 4 2 4 5
CASING PULLING	
Method employed	
Casing retrieved (feet)	- 5.
Casing type/dia. (in)	Tarapara de la Caración de la Caraci
CACRIC REPEOR ATING	
CASING PERFORATING Equipment used	
Number of perforations/foot	
Size of perforations	1 8 1 7
Interval perforated	Scent growt
	20 - 1
GROUTING Interval grouted (FBLS)	
IIIICI var Brogger (1777)	
# of batches prepared For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	55 - 100
Cement type	
Quantity of bentonite used (lbs.)	$ \times$
Quantity of calcium chloride used (lbs.)	30.
Volume of grout prepared (gal.) Volume of grout used (gal.)	338 ]
A Ording of Programme (Paris)	
COMMENTS: excusive to us "BGS: cut off 8" and 4"	* Sketch in all relevant decommissioning data, including:
BIP LE'EGS trems grad in place to -5 BGS.	interval overdrilled, interval grouted, casing left in hole,
water bracket	well stickup, etc.
30/1/200	•
Drilling Contractor	Department Representative

			G2A	GEOENVIRONI KAGEL DRIV	ENTAL OF N	EN YORK	K PROJECT Stuart-Olver-				***************************************	RING No. OV-15	Marie and Marie		
	Machine			INEERS AND	NAME OF TAXABLE PARTY O	MEN TURK		Stuar Roche	t-Ol	ver-Hol New Yo	tz ck	-	r ı	RING No. 04-15 EET 07-19078.	102
				Nothnagle   Steve Lora				BORING LOCAT	KOI	N112394	6,72,	<u> </u>	-	KD. BY	
	and the same of the same	GZA GI	OENVI	RONNENTAL R	PRESENTATI	VE <u>Dave</u>	<u>Belaskas</u>	GROUND SURFA START DATE 1	CE EL	EVALION	529	DATE 1	DATIN	NGVD	
		TYPE (	F ORI	LL RIG	CXE-75				COMMUNICATION CONTRACTOR CONTRACT	January	WATER LE	VEL DATA			
	Total Section 1	CASIN	SIZE	AND TYPE _	6-1/4 inch	ID HSA	<b>Water</b>	***************************************	-	DATE	<del>}</del>	WATER	CASING	REMARKS	
	4	OVERBL	RDEN :	SAMPLING MET	HCD 2 inc	500 x 24	inch Long	······································	-	1/20/94	1215	23.7	24'	Stabilized 0.5	
		ROCK D	RILLI	IG METHOD _			and the same of th	***************************************	}	1/20/94 1/1/94	1400	9/3"	24'	Stabilized 1 h	
	- 18		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SAME	1 <b>F</b>	The state of the s			4	T	Ь——	JIPHENT	1	Juan   17   15	
	and some a	BLO	NS N	DEPTH	N-VALUE	RECOVERY	~·•	PLE DESCRIPTI	ON	Peak OVM Read	I ST	ALLATI	<u> L</u>	L 00	X O T S
	-		6"   2   S-	(FT.) 1 0-2	/RGD(%)	(%) 50			E CONTRACTOR DE LA CONT	(PPH)		LOG [	casin	h OD protective 9	Š
	Military			7	1 10	30	coarse SAND	brown, fine little clayey	to	ND			Concr	ete surface sea	·
	Name of Street	1	5	1	1		silt, trace ( (with root fi	ragments)					0 to	2.5 ft.	
200	of village consumer	2					1			and decopposes					
	raturbandon.	-		2 2-4	26	60	same, moist.	[FILL]	2.8	ND					
	A CONTRACTOR OF THE PERSON OF	3 -					Very stiff, b	orgwn. SILT &	£.0'	-				a Banania .	_
	NAME OF THE OWNER, OWNE	18	-		-		CLAÝ, little moist.	prown, SILT & fine Sand,				7	seal	t/bentonite grou from 2.5 to 9 fi	
	This there exists	4		3 4-6	20	20	same.					\$4.4 5.73			
	Townson		十		1	2.7	Joens.			NO		-	4 inc	h O.D. flush cou steel riser 0 t	.ple
	O TOTAL DESIGNATION OF THE PERSON OF THE PER	5 12				<del></del>			-				14 ft.	. steet riser <b>u</b> 1	:0
20000	Vertottena	6 14					[LACUSTR	(NE)	6.0				***************************************		The state of the s
	-	10	-	6-8	27	70	Medium Dense, coarse SAND, Silt, trace G	brown, fine t	o	NS			- Company		-
amg		7 10		<b>-</b>			Silt, trace G	ravel, moist.			,	and the same of th	100 Maria		
M		20	_	***************************************		****************************	hipoci	R TILL)			ŀ	NULL PROPERTY.			
	None and a second	6	s-	8-10	28	80	Same.			l ND					
		, 12										e is			
	· ·	16								into a transmission of the control o				_	terbelle service (SEC
etteren.	1(				-					AND THE PERSON AND TH		1 *	from 9	ite pellet seal to 12 ft.	
		18	S-6	10-12	46	80	Same, dense, a	noist to wet.		ND					
	11	28	┪	<b> </b>	1										
M		34	1									***************************************			
	12	13	5-7	12-14	64	75	Same, very der	ise.		1					
	13	27										•	No.00 pack fr	size sand filter om 12 to 24.5 ft	
		37	-	<u> </u>			<b>EUPPER</b>	TILLI				,			
	14	56	s-8	14-16	44				V.						
		20	1-0	14-15	<del>  **</del>	80	grades dense t wet.	o some Silt,		1					
	15	24	1	<del></del>											
	16	26							**************************************						
	1.0	9	\$-9	16-18	49	75	grades to dens to coarse SAND	e, gray, fine				=			
	************	C - R	ock C	LEGEND Spoon Soil S irbed Soil S ore Sample			NS-NO	t detected abo Sample.	ve 1	pom.					
	GEN	ERAL TES:	1) S1 2) W	RATIFICATION	N LINES REI EADINGS HA	PRESENT AP	PROXIMATE BOUN DE AT TIMES AN AN THOSE PRESE	DARY BETWEEN !	SOIL	TYPES,	TRANSI	TIONS MA	Y BE GRA	DUAL.	
	GZA		74/	IT UCCUR DUE	TO OTHER	FACTORS TH	AN THOSE PRESE	NT AT THE TIME	E NEA	SUREMEN	TS WER	E MADE.	in aum	BORING NO. ON	<u>-1s</u>
										· · · · · · · · · · · · · · · · · · ·		THE RESIDENCE AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF T	ERRORS IN CONTRACTOR IN CONTRACTOR	A CONTRACTOR OF THE PROPERTY O	

de la constant de la			AGEL DRIVE, EERS AND SC	AND DESCRIPTION OF THE PERSONS ASSESSMENT	NEW YORK		Stuart-Ölv Rochester,	er-Holt New Yo	Z.	BORING No. OW-1S SHEET Z OF 2 FILE No. 19078.10 CHXD. 8Y		
OHOT		***************************************	SAMPI			SAM	PLE DESCRIPTION	Peak	TRANSTUDA	LAW. 87		
F	BLOWS / 6	NO.	DEPTH (FT.)	N-VALUE /RGD(%)	RECOVER (%)			OVM Read (PPM)	INSTALLATION	TO THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRES		
17	29	ļ				same Clayey	Silt, moist.	DM				
-	20	<del> </del>			ļ					Ho. 10 slot stainless		
18		<b>_</b>				1				steel well screen from 14 to 23.5 ft.		
	6	S-1	18-20	9	80	same, mediu	m dense, moist	1				
19	6	ļ				_						
and the same of th	3	<b>-</b>		<b>-</b>		4						
20	2	<del> </del>		<b>_</b>		(UPPE	R TILL]					
	3	S-1	20-22	10	08	- Medium dens	e, grey, medium	ND ND				
21	6	-	<del>                                     </del>	-		m wat.	AND, trace Gravel,					
	10	<del> </del>	<u> </u>			(SAND STRATE	UM 20.2 to 22.8 ft.	1				
22	17	  s-12	22-24	1		4		No.				
		3-16	26.54	>100	80	CUPPER	TILL)	ND				
23	-	60		THE RESERVE OF THE PERSON NAMED IN COLUMN 1	Very dense,	grey, fine to	22.8 ft.					
	1007	100/19		· · · · · · · · · · · · · · · · · · ·	Silt, trace	grey, fine to some Clayey Gravel, moist.						
24	100/2	S-13	24-24.2	>100	NR	-			<u> </u>	Stainless Steel Sump from 23.5 to 24.0 ft.		
				7100	78	(LOWER T	*1 * *	ОИ				
25	AND STREET, ST	<del> </del>				LUNCK	i hid		-	Cement/bentonite grout from 24.5 to 30 ft.		
	-d	-	M-tolerania (Martine and Paris and Anna (Marine)	+	J977404440444444444444444444444444444444				Nesecondarias	from 24.5 to 30 ft.		
26	21	S-14	26.27.4	>100	85	grades to so	ome Silt & Clay,	ND .		Per-00-00-00-00-00-00-00-00-00-00-00-00-00		
	64		346 harmon (1900)		- William Commission	moist.	min over a real.	l no				
27	100/5				**************************************							
	**************************************		The state of the s			Q.						
28	100/6	s-15	28-28.5	>100	90	same, moist.		ND				
29	- Smarrow											
30	······································											
	40	S-14	30-31.3	>100	100	same, moist.		סא				
31	<b>\$</b> 5		TO THE WATER TO SEE STREET, THE PARTY OF THE		****				***************************************	Bentonite pellet seal from 30 to 35 ft.		
L	100/3		Statement of the same		-							
32	-		***************************************		······································			and the second				
Name of the last	51	<u>s-17</u>	32-32.8	>100	100	same.		סא				
33	100/3			<b></b>								
-		-				(LOWER	_	and the second				
34	18	-10	34-35	- 100	400		34.7					
-	100/6	<del>2</del> -19	J4-33	>100	100	Green weathe	red rock oist. THERED BEDROCK	ND				
35	100/0	$\dashv$				A CONTRACTOR OF THE PARTY OF TH	The state of the s	an and a				
F						BOTTOM OT BO	ring at 35.0 ft.	of recognision				
36	-	-1		-			Aesterophical	*007007664				
Ų	r unc	stu	LEGEND coon Soil S bed Soil S e Sample	ample ample		NOTES: Organ	nic Vapor Meter (OV tolonization detect not detected above • No Sample.	M) read or. 1 ppm.	ing of headspar	ce H-NU PI-101		
THE RESERVE OF THE PERSON NAMED IN	THE STREET STREET, SALES	STA	***************************************	N LINES RE	PRESENT A		NO Sample.  NDARY BETWEEN SOIL  ND UNDER CONDITIONS ENT AT THE TIME HE		TRANSITIONS MA	Y BE GRADUAL.		

WELL DECOMMISSIONING RECORD	
	Well I.D.: OW-18
Site Name: STUART OLIVER HOLTZ SITE	· · · · · · · · · · · · · · · · · · ·
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEXC STORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THELHAMER
	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth ·
	(feet)
OVERDRILLING	
Interval Drilled	<b>-</b>
Drilling Method(s)	
Borehole Dia. (in.)	J g' Block
Temporary Casing Installed? (y/n)	
Depth temporary casing installed .	
Casing type/dia. (in.)	The second secon
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	128 - 1
Equipment used	
Number of perforations/foot Size of perforations	Juit Lagrout
Interval perforated	
Interval periorated	1352 -
GROUTING	222
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)  Quantity of cement used (lbs.)	
Quantity 02	
Cement type Quantity of bentonite used (lbs.)	
Quantity of bentome used (lbs.)  Quantity of calcium chloride used (lbs.)	- Andrews - Andr
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
	and the second s
COMMENTS: Excusade to -5' 865 cat of 8" and 4"	<ul> <li>Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,</li> </ul>
BIP - 5' BGS - trame grow in place to 5' BGS.	
notive backfill	well stickup, etc.
111/American	
Drilling Contractor	Department Representative

A 2011	3 E	64 NA NGINE	CENVIRONMEN GEL DRIVE, ERS AND SCI	BUFFALO, ENTISTS	NEW YORK		Stuart-0 Rocheste	r, Ne	Holtz W York			SH FI CH	RING NO. CV-1R EET TOF LE No. 19078.10 KD. BY
DRI	LLER .		lothnagle Dr Teye Loran IMENTAL REP	.2	72 Dave B		ORING LOCATION ROUND SURFACTION DATE 1	ON N E ELE 0/25/	112393 VATION 94	7.21 - 268 - 268	E751630 DATE 1	.42 DATUM 1/08/94	RGVO
TYP	E OF D	RILL	RIG CME	-75					######################################		WATER LE	VEL DATA	
			D TYPE _2-		Hollow Ste	em Augers		D/	ATE	TIME	WATER	CASING	REMARKS
						24" long split	KANALISED .	10/2	5/94	133	Dry	26′	Stabilized 15 mi
, coperate		-		<u> </u>	1				*************	Martin			
******	K DRIL	LING	METHOD NX	Rock Core						ugumana.			<u> </u>
			SAMPLE			SAMPLE DE	SCRIPTION		Peak	-	EQUIPMEN		
	BLOWS / 6"	жо.	DEPTH (FT.)	N-VALUE /RGD(%)	RECOVERY (%)				QVM Read (ppm)		LOG		
	2	S-1	0-2	18	50	Medium Dense,	brown	i de la composição de la c	ND	1.		1.1.	girentidefect mengganan erementation namen pangin at ereminang apanggan gyanan e
*	9					SAND, little o trace Gravel,	moist, with			: :			
1	9					root fragments	e ex					:::4-	Concrete surfac
2	9					[FILL]		2.3				s	eal from 0-2.5 ft.
2	5	s-2	2-4	18	60	Very stiff, br	own, SILT &	ALCOHOLOGICA PROPERTY.	MD				*
3	5					Very stiff, br CLAY, little f coarse Sand, R	ne to pist.					MO	
1	13					(LACUSTRI)	NE]				4-		- 4 inch black
,[	13								***			f	steel riser pipe rom 0-35.5 ft.
4	4	S-3	4-6	30	10	same.			ND				
5	15					B contraction							
T Street	15					government.							
6	19					[LACUSTRII	NE)	6.01					
	6	5-4	6-8	<b>3</b> 2	80	Medium Dense, to coarse SAND	brown, fine		סא				
7	14					Clayey Silt, t	, lictle race Gravel,						
· Married A	18					moist to Met.							
8	14					[UPPER TILL]							
*	6	\$-5	8-10	44	85	grades to Dens	e.		ND			14	cement/bentoni te
١	10												rout seal from .5-30.5 ft.
· ·	34												
۱	10												
-	11	\$-6	10-12	35	90	same, moist.		distinct	ND				
and Department	17		-	all rouse and the same and									
reasonada.	18		***************************************		MINISTER ST.								
a٢	18												
· ·	23	S-7	12-13.5	<100	75	same, grades to moist.	o very dense		ND	$\  \  \ $			
3 -	64							A.48050Ecycom.					
	100/6							999					
4	***************************************												
- And Constraint	16	\$-8	14-15.8	85	100	grades to trace moist to wet.	Clayey Silt	.	ND				
şŀ	38		***************************************					***************************************					
-	47		***************************************			(UPPER 1	[ILL]	Litubibites					
şĻ	100/1		4 2 2 2 2	.400				en e					
	16	<u>s-9</u>		<100	100				THE RESIDENCE OF THE PERSON NAMED OF THE PERSO		State of the second		······································
	J - UN	215ZU	LEGEMD poon Soil S rbed Soil S re Sample	ample ample		NOTES: Organic photoic ND-not	Vapor Meter onization der detected ab	(OVM tacto ove 1	) read r. ppm.	ing of	f headspa	ce using	H-Nu PI-101
NE TO	RAL 1	2 RM	IEK LEVEL K	emuimus n	ave been a	PPROXIMATE BOUND ADE AT TIMES AND HAN THOSE PRESEN	£389137=36=16368131	3 8 6 121 5	STATE	33 <b>5</b> -1	er i i a i i n	is as cor	RADUAL. CUNDVATER

		3	64 N/	EGENVIRGNMEN NGEL DRIVE,	BUFFALO,	W YORK NEW YORK	eth de eth and dh'i adhair a ha h is sua his san ann ann ag mannig ag ag an ann ag ann ag ann ag ag ag ag ag a	PROJE Stuart-Olve Rochester.	CI r-Holt: New Yo	Ž.		BORING NO. ON-1R SHEET 2 OF 3 FILE NO. 19078.10	
E a second	Owo	E	NGIN	ERS AND SCI SAMPLI	and the second s		SAMPLE	DESCRIPTION	Peak		E L	CHKD. BY	N O
	PT	BLOWS / 6"	NO.	DEPTH (FT.)	W-VALUE /RQD(%)	RECOVERY (%)			CVM Read (PPM)	1821	ALLATION LOG		ES
1	17	48 100/4					Very dense, coarse SAND	gray, fine to , some Clayey	ND				
	40						Silt, moist CUPPER TI	້າເນ					
	18	54	d	18-18.9	<100	100	sane.		ND		-		
A	19	100/5	<del> </del>	ļ						3 S			
	So												
M		7	S-1	20-22	36	70	Dense, Grey SAND, trace	, fine to coarse Gravel, wet.	1		4	- 4 inch black steel	
	21	19		<b>†</b>			[UPPE	( TILL)				riser pipe from 0-35.5 ft.	
	22	24						4 19.6 to 23.7 ft.)					
		10	S-12	22-24	23	75	same.		ND				
F	23	12					n ip	PER TILL) 23.7					
	24	48 58	S-13	24-24.8	<100	100		***************************************	ND				
11	-	100/4	3 1	27-27-0	-100	100	coarse SAND silt, trace	Grey, fine to , some clay & gravel, moist.	NU				
	25						[LOM	R TILL)					
	26	24	S-14	26-27.2	<100	90	same.	**************************************	NO				
	27	62						And the second s					
	-	100/2	)					niciación					
	28	40	s-15	28-29	>100	100	same, moist	*	ND				
M	29	100/6					(LOWER	TILL			Ģi v.		
		ENTER THE COMMENT	(On the second					T. Statistics of the state of t		a gar			
	30	25	s-1 <i>6</i>	30-31.4	>100	100	same, with m	medium to coarse					
	31	55					30.6 ft., m	oist.					
		100/5						лосинасте <b>д</b> ију					
4	32	18	s-17	32-33.5	>100	100	same, moist.	**************************************	ND		4	Sentonite pellet seal from 30.5-33.5 ft.	
1	33	32 100/6										ಹಾಗಾಗ ಕಾಣಾಹಿತಿ≎ರಿಂದ ಮನೆಗೆಂದೆ [b.a	
	34	,						alamany in the second s					
Ţ.	-	52	S-18	34-34.9	>100	100	same, moist. and claye	y SILT	ND				
	35	100/5					[LOVE	R TILL] ·			4		
	36						same, some (	lavev SILT		ŀ		filter pack from 33.5 to 42 ft.	#Ordinately in
		45	s-19	36-37 LEGEND	>100	100	moist.		мо				
I	****	C - Roc	k Co	poon Soil S rbed Soil S re Sample			Org pho ND-	not detected above	or. I ppm.			ace using H-NU PI-101	
	GEN NO	ERAL 1 TES: 2	) ST ) WA MA	RATIFICATIO TER LEVEL R Y OCCUR DUE	N LINES RI EADINGS HI TO OTHER	EPRESE T AL AVE BEEN M FACTORS TI	PPROXIMATE BO ADE AT TIMES . HAN THOSE PRE	UNDARY BETWEEN SOIL AND UNDER CONDITIONS SENT AT THE TIME MEA	TYPES, STATEL	TRAN ), FLI	SITIONS MA UCTUATIONS	Y BE GRADUAL. OF GROUNDWATER	
	GZA	Constitution of the Consti					sameter a system					BORING No. OU-1R	

		WINE.	ERS AND SCI					Ī	EQUIPMENT	FILE No. 19078.10 CHKD. BY
E P	BLOWS	NO.	SAMPLE DEPTH	N-VALUE	RECOVERY	SAMPLE	DESCRIPTION	PEAK OVM READ	INSTALLATION	
H	/ 6"		(FT.)	/RQD(%)	(%)			(PPM)	LOG	8
37	100/6					same. [LOW]		1		
				<del> </del>		(SEVERELY WE	ock fragments EATHERED BEDROCKI			
38	100/2	s-20	38-38.2	>100	100	green and r	red-brown.	ND		
		C1	38-42 ft.			weathered r	ock fragments,	"-		
39						Green, weat	hered rock			No. 10 slot stainless steel well screen from 35.5-40 ft.
40						fragments. Green to br	own, CLAY & e gravel, ock fragments,			35.5-40 ft.
,_						weathered r	ock fragments,		∞كالا	Stainless steel sump from 40-40.5 ft.
41		+								
		+								
42		*-				Bottom of B	oring at 42'.			
										***
						NOTE: the	R.Q.D. for the k core (C1) is			***
							o percent.			
							·			
		$\dashv$								
1		$\dashv$								
		_								
Ì										
-		$\dashv$								
ŀ		$\dashv$								
ŀ		-								
t		一十								
I										
-		_						İ		
ŀ										
L			1 EGFUN			WATER- A				
:	S - Spl	it Sp	LEGEND poon Soil S rbed Soil S	ample ample		HUIES: Orga	anic Vapor Meter (OV ptoionization detect not detected above = Cored Severely We	m) read or. 1	ing of headspa	ce using H-NU PI-101
	RAL 1) STRATIFICATION LINES REPRESENT APES: 2) WATER LEVEL READINGS HAVE BEEN MANAY OCCUR DUE TO OTHER FACTORS TH					Č1	athered	feet.		

WELL DECOMMISSIONING RECORD	
	Well I.D.: Owl-25
Site Name: STUART OLIVER HOLTZ SITE	Driller: NEAC SHORT
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGE DELLING INC	
	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	= count trustive
Borehole Dia. (in.)	8.10
Temporary Casing Installed? (y/n) Depth temporary casing installed	S J Consta
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Wemod embiolog	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	I Transit
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of content about (1997)	
Cement type Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
COMMENTS: CONTRACT to 45 865: CLAP OF 4" BIP	<ul> <li>Sketch in all relevant decommissioning data, including:</li> </ul>
COMMENTS.	interval overdrilled, interval grouted, casing left in hole,
N 2 C 8 3 C - 1 C N C - 1 C O O C C - 1 C O C C C C C C C C C C C C C C C C C	well stickup, etc.
Natur bicaleful	
M/W	Department Representative
Drilling Contractor	

		304 N	ECENVIRONM AGEL DRIVE EERS AND SO	, BUFFALO,	EW YORK NEW YORK		Stuart-	PROJEC Olver-H er, New	öltz			80 SHI F I I	RING No. <u>ON-2S</u> EET 1 OF LE No. 19078.1	<u>2</u>
8.5	10771160	TOR	Nothnagle Steve Lora NMENTAL RE	Drilling	VE Dave		BORING LOCATI GROUND SURFAC START DATE 1	ON NII	2357 1110W	1.07 - 231.4	E751474	00	O. 8Y	
ſ	***************************************						O'ART DATE			and the second second	CONTRACTOR SOMEONE	VEL DATA	THE RESERVE OF THE PROPERTY OF	Biogline spinostern gar
- 1			RIGCM		Valla, ca	em Augers		DAT	E [	**************************************	WATER	CASING	REMARKS	CONTROL CONTRO
1						em Augers 24" long split		11/11,	/94	0810	8.27	16'	Stabilized 16 h	rs.
-	Orthography and Sandard	***************************************		Spcor	7	24. (ond spile		AND THE PERSON NAMED IN COLUMN 1		****		<u> </u>		-
<b>}</b>	and an inches	ILLING	METHOD		Street Assets									***************************************
O E P			SAMPL	.E		SAMPLE	DESCRIPTION	l <sub>p</sub>	eak	Į	IPHENT			
TH	BLO	ș No.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)			Q R C	VM ead ppn)	111	LLATI	o inc	h CO protective	and any quality of the state of
	ļ			<b>_</b>	ļ	m soll descri	og for overburd otions from 0.0	den						
	1				<b>!</b>	10.0 ft.						Longe	oto curfora con	T-
	-	-		<b>-</b>	<del></del>			l				to 2.	ete surface seal 5 ft.	
	2	_		<b>_</b>	<del> </del>	-								of the same of the
	_	1				-				<b>39</b> %		4	and the second	
•	3					1						from 2	t/bentonita grou 2.5 to 11 ft.	.
	$\Box$					1		2						
	1							-			20			
•	5	-												Amagrupa
										\$0,700	1	Diack	0.D. flush cou steel riser to	ole
ć	5	-			and a supplication of the							11 ft.		2
	-	-				No.				~ I				SOCIAL PROPERTY OF
7	<b>/</b>	-	Por Principal de la companya del companya del companya de la compa		***************************************						O 100 100 100 100 100 100 100 100 100 10			
	ļ		To a second second second second second second second second second second second second second second second		The second state of the se			**************************************	Salations	-	entron.com			
8	1	1			randgonder van versionerskerskers			and the same of th						
		T	TO SERVICE STATE OF THE PARTY AND ADDRESS OF T		***************************************			apparation and a second						***************************************
9			OMITHE CONTRACTOR OF THE CONTR		**************************************	(F1:	-	ŀ						
10					**************************************	Advanced aug without samp	ers to 10.0 ft. ling. 10.	٠٥٠						1
	4	S-1	10-12	47	100	Dense, brown,	fine to	H	o [					***************************************
Aprel		+	WWW.			wet.	trace Gravel,	Marchaelleren						September 2013
	29	+				(UPPE	R TILL]	- Anna Anna Anna Anna Anna Anna Anna Ann	ſ				ina matter	- Fartace Management
2	46 27	-	49.47		***	_		Primeryeas	OCHECANOSIS	Legawanasoa	1	from 1	ite pellet seal 1 to 14 ft.	1000MAL COMMAND
	35	S-2	12-14	99	100	Same, wet.		H		Hallowaner/ceia				(Note and a second
3	64	+ +						Asianasasas	Prisonapologia	Извранения				ROMORDON
	64	$\dagger \lnot \dagger$								No.				teristanaana
4	15	S-3	14-16	94	100	Grades to com	e Clayey SILT,	NC	,		33333			newsonsone.
	28	TT				moist.	~ wojey siti,	N	<b>'</b>		4	-No.00 s	size filter pack ft. to 21.5 ft	
5	66					CUPPER	TILL	No. of the local district of the local distr				11 OM 14	rt. to 21.5 ft.	
6	84					-		16						
The state of the s	8	s-4	16-18	>100	100	Grey, very de medium SAND.	nse, fine to	H ft.						and the same of th
#Therape	C * KC	ck Cor	LEGEND soon Soil S bed Soil S e Sample			MD-n	ic Vapor Meter olonization de- ot detected abo	ove 1 p	pm.					Evanoring.
NO		1) STR 2) WAT MAY	ATIFICATION ER LEVEL RI OCCUR DUE	N LINES RE EADINGS HA' TO OTHER	PRESENT AP VE BEEN MA FACTORS TH	PROXIMATE BOUN DE AT TIMES AN IAN THOSE PRESE	DARY BETWEEN S D UNDER CONDIT NT AT THE TIME	OIL TYP	ES, ATÉD EMEN	TRANSI	IONS MA UATIONS HADE	Y BE GRAV	DUAL. NOWATER	440000000000000000000000000000000000000
ZA	CICHEO PAR PROPERTY	SOMEONIS CHARLES						000000000000000000000000000000000000000			4 66 33 Ph. 0		BORING No. OH-	<u>2\$</u>

	3	54 NA	GEL DRIVE, ERS AND SC	NTAL OF NE BUFFALO, LENTISTS	NEW YORK	**************************************	PROJI Stuart-Olve Rochester	er-Holt:		BORING NO. ON-2S SHEET 2 OF 2 FILE NO. 19078.10 CHKD. SY
D E P	SLOWS	NO.	SAMPL	andamentament	RECOVERY	SAMPLE	DESCRIPTION	Peak OVM Read	EQUIPMENT INSTALLATION	#25
i	/ 6"	L	DEPTH (FT.)	N-VALUE /RQD(%)	(%)			(PPM)	LOG	
17	24 38	<b>-</b>						ND		No. 10 slot stainless steel well screen from 16 to 20.5 ft.
	64			<b>-</b>		/Sand strat	um 16.0 to 21.5			44 10 to 20.5 ft.
18	24	S-5	18-19	>100	100	ft.)		NO		
	100/6				**************************************	Very dense, coarse SAND	grey, fine to , some clayey Gravel, moist.	TO THE STATE OF TH		
19						Sili, Trace	uravet, moist.			
20			particular designation of the control of the contro							
and the same	65		20-20.2	>100	100	Same.		ND		
21	100/2			**	***************************************	(UPPER	TILL			stainless steel sump from 20.5 to 21 ft.
Processor (page)				1		Bottom of B	oring at 21.5'	4		
22							<del>-</del>	PERSONNELLA		Video
23								Commercial and Commer		
						**************************************				
24	AND ART OF THE PARTY OF THE PAR			<b>_</b>						
					***************************************					
25	~									
	CONTRACTOR STATE							and the second		and philadeless was
<u> </u>										
. <sub>7</sub>	Reservation of the Contract of	***************************************	and the control of th		***************************************			- Special Control of C		
The state of the s										
28		*******								
and to the same	***************************************									
29	W. W. W. W. W. W. W. W. W. W. W. W. W. W				*					ossas and a second control of the second con
50										OI
- Total Control	ORIGINAL PROPERTY OF THE PROPE		**************************************					200000000000000000000000000000000000000		NA COLOR DE
51										0077707454
темпосто			-					955		
12			- The same of the							
<sub>13</sub>								Proceedings		19.000000000000000000000000000000000000
,,,										LE DE CARTES ANA MARIAN
<u>.</u>										en-usarrana de
15				-				1		Plant Control of the
ŀ										ST-CH-A-MANAGES
										<b>1000000</b>
	S · Sp U · Unx C · Roi	lit S distu	LEGEND poon Soil proed Soil re Sample	Sample Sample		ph	ganic Vapor Meter (0 otoionization detect -not detected above	tor.	ading of head	space using N-NU PI-101
ENE	RAL 1	) ST	RATIFICATI TER LEVEL	ON LINES R READINGS N	EPRESE T A AVE BEEN M	PPROXIMATE BO	UNDARY BETWEEN SOIL AND UNDER CONDITION	TYPES, S STATÉ	TRANSITIONS D, FLUCTUATIONS NTS WERE MADE	MAY BE GRADUAL. ONS OF GROUNDWATER

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-2R
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEAL SHORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THALLAMER
Dining co 1901 HONOLO SEE	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
(1 III III III III IIII IIII	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- & iss -notive
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	- 1 3 ) sinter
Depth temporary casing installed .	
Casing type/dia. (in.)	
Method of installing	
CAMPIC PUT I ING	
CASING PULLING Method employed	
Casing retrieved (feet)	
Casing retrieved (leet) Casing type/dia. (in)	
Casing type/dia (m)	
CASING PERFORATING	
Equipment used	1 20
Number of perforations/foot	
Size of perforations	
Interval perforated	
Into the passage of t	385 - 11
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)  Quantity of cement used (lbs.)	
Quantity of contests	
Cement type	
( highfity of belitotite doct (103.)	, and the same of
Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.)	g
Volume of grout used (gal.)	43
TOISILLE TE BETTE TO	
COMMENTS: Exemple to -5' 865 cut off 8" and "	Sketch in all relevant decommissioning data, including:
BIP 45' BGS tremie growt in place to 25' B	interval overdrilled, interval grouted, casing left in hole,
The barter	well stickup, etc.
31115	
Drilling Contractor	Department Representative
marrows and a ma	

GZA GEOENVIRONMENTAL OF NEW YORK 364 MAGEL DRIVE, BUFFALO, NEW YORK ENGINEERS AND SCIENTISTS CONTRACTOR Nothingle Drilling						Stuart-	er. N	-Woltz ew York			SHE FII CHI	D. BY	UE 3	NA MARIN MARIN MARIN	
CU DR GZ	NIKACIO ILLER A GEOE!	W _ VIRO	iothnagle D Stave Loran MENTAL REPI	TILLING RESENTATIO	E Dave B		BORING LOCATI GROUND SURFAC START DATE	CN E EU 0/27	N112356 EVATION 794	8.93 -232. -END 1	751481 . DATE	53 (NYSD DAIUM 1/10/94	NGVD		****
TY	PE OF D	RILL	RIGCME-	-75						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WATER LE	VEL DATA			
			D TYPE _2	***************************************	Hollow Str	om Atinare		0	ATE	TIME	WATER	CASING	REMA	RKS	
			***************************************	***************************************		24" long splii	·	10/	27/94	1300	12.3	241	Stabilized	1 0.5 hrs	ì.,
ent ye		National Sections 2015		specr			National Control of the Control of t	11/	9/94	1435	18.94	47*	Stabilized	1 0.5 hrs	š
RO	CK DRIL	LING	METHOD												
D E	OPPORTUNITIES OF THE PROPERTY		SAMPLE			SAMPLE	DESCRIPTION		Peak		EQUIPM	ENT	.		
P	BLOWS / 6"	NO.	DEPTH (FT.)	-	RECOVERY		**************************************		OVN Read (ppm)	ll r	INSTALLA LOG	TION			
NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	4	S-1	0-2	14	40	Medium Dens	e, Brown, fine	Secondary Control	ND	1.1.1	na normaliano populario e e e	<del></del>	<b> </b>	in the second second	1944
	6	1				to coarse S Clayey Silt	AND. Little								
-	8	T	4			with root f	ragments.						4-conc	rete	
	11					CFILL:	1						. surface . 0-2.5 f	seal	
2	10	S-2	2-4	30	55	same, excep	t with steel		١,						
-	13	T			***************************************	nails in sa	mple.						77		
3	17		<del></del>	<u> </u>		1									
_	23	T	***************************************	1		1									
4	3	s-3	4-6	15	75	same.			ND						
_	4	1		<u> </u>		1									
5	11			<u> </u>		4						ي ا	<u> </u>	nch	
	12		***************************************	<u> </u>		j (FILI	-1						black st	eel oe from	
6	8	s-4	6-8	31	75	Medium Dens	e, Brown, Gray medium to coars		ND				riser p 0-38.5	t.	
7	14		OND THE PROPERTY OF THE PROPER			SAND, trace	medium to coars Gravel, moist	ie	of the state of th						
ľ	17				**************************************	to wet.			Vendowern						
8	11								**************************************						
~	9	s-5	8-10	32	100	same, wet.			ND						
٥	13								,						
-	19												<b>A</b>	ent/	
0	19					(FII	.L1 1	10.0					bentonit seal fro to 33.5	e grout g 2.5	
-	18	s-6	10-12	52	75		ery dense, fine		ND				W 50 33.5	TT.	
97	28	Щ	The state of the s		Market and the second s	to coarse S/ (UPPER	-								
,	24	<u> </u>				FALLPY	T T 100 No. gl								
2	28		97 <b>0</b> -												
,	23	S-7	12-13.8	72	90	grades to so	ome Clayey Sitt	,	ИD						
3	33	lacksquare							Physical and Address						
200000000000000000000000000000000000000	39	$\vdash$							TO COLOR OF THE CO						
4	100/3														
en and a second	26	8-8	14-15.4	>100	95	same			ND						
5	49								To the state of th						
and a second	100/5	<b>  </b>				(UPPER	TILL)					24			
6	4.5					Dense, grey,	fine to little Silt,								
Supposedi	18	s-9	16-18	44 ]	95	The state of the s	and the second s	watermanners	Language and the same					hanaan agaa gaangaga	163
	U - Un	dīstu	LEGEND poon Soil S rbed Soil S re Sample	ample ample		nn c	mic Vapor Nete stoionization d not detected a	erect	202	ding of	f headspa	ice using	g H-Nu PI-1	01	
EW	EDAI 1	) ST	RATIFICATIO				UNDARY BETWEEN						ADUAL.	**************************************	-
ZA		MA	. WHIN DUE	IU UTHER	PACIORS T	MAN THOSE PRE	SENT AT THE TIP	IE ME	ASUREME	nts we	RE MADE.		BORING		

			304 }	EOENVIROHME	, BUFFALO,	IEW YORK NEW YORK		PRO Stuart-Di Rochester	Aet-Hoft		BORING No. ON-2R SHEET Z OF 3	*****************
[ C2	0	T	ENGIN	EERS AND SO	The State of			A CONTROL OF THE CONT	_ new To	EQUIPMENT	FILE No. 19078.16 CHKD. 8Y	•
	OWO-2	BLOW:	Ю.	SAMPI DEPTH (FT.)	H-VALUE /RQD(%)			DESCRIPTION	Peak OVM Read	INSTALLATION		NO To
	17	, <u>zo</u>	1						(PPM)	Log		S
	***************************************	24 46	+	<u> </u>					4-15-fatheirennessen			
	18	10	S-1	18-19.5	<100	100	grades to w	ery dense, some to wet.	) HD			
a	19	160/	5				1	1 16.0-19.7 FT.)				
G	20	1007	J.,	20-20,5	ļ		CUPPER T	-	4			
	21	100/1		7 60-20.5	>10	100	Very dense, coarse SAND, Silt, trace	grey, fine to some Clayey Gravel, moist. TILL]	NO			e de la constante de la consta
đ	-	<b>-</b>	╀-				- (LOWER	TILL	And when the same		4-inch black steel riser pipe to 38.5 ft.	
	22	25	5-1	22-23.2	<100	50	same, moist.		GM		rioer prise to sold ft.	
	23	29 100/2										
	24		<b></b>									
9		23 40	S-13	24-25.5	<u> &gt;100</u>	100	same, moist.		МО			
	25	100/5					CLOWER	TILLY				
	26	100/6	s- 14	26-26.5	>100	100	same, moist.		סא		TO POLICE AND ADDRESS AND ADDR	
	27										- West of the second of the se	
	28				·						. TO THE STATE OF	Military
of the same	- Inches	100/3	S-15	28-28.8	>100	100	same, moist.		ND		renewan	Particular services
	29						er en en en en en en en en en en en en en			<u> </u>		
a li	30	28	S-1d	30-31	>100	100	same, moist.					TO COMPANY OF THE PARTY OF THE
	51	100/6							NO I		and the state of t	-
	12											***************************************
	"[	32 41	S-17	32-34	98	75	Same, moist.	TILL]	NO	.50		STOCK SOUTHWAY
	3	57			****						destronted	e consideration of the constant of the constan
1	4	85 24 s	18 8	4-34,8	>100	122					dina nilayanila.	
]	اج	100/4		**3*,0	>100	100		34.7′	HD 8		- bantanita nallas	of the same of the
	ŀ		-				Same. Green to rock fragments. moist.	red weathered . 34.7 - 34.8,		se fri	bentonite pellet eal from 33.5 to 36.5	
3	6	100/3	- 19	36-36.3	>100	100	SEVERELY WEATHE	RED BEDROCK rock fragments.	ND		and an analysis of the second	Witness (1993)
	C	- Koc	cor	LEGEND oon Soil Sa bed Soil Sa e Sample			NOTES: Organ photo ND-no	nic Vapor Meter (Di Dionization detects of detected above	ECCYT.		e using H-NU PI-101	
G	NER IOTE	RAL 1) (S: 2)	STR WAT MAY	ATIFICATION ER LEVEL RE OCCUR DUE	LINES REI ADINGS KA TO OTHER	PRESE T AF VE BEEN MA FACTORS TH	PPROXIMATE BOUND NDE AT TIMES AN NAN THOSE PRESE	DARY BETWEEN SOIL D UNDER CONDITIONS NT AT THE TIME MEA	TYPES, T STATED, SUREMENT	RANSITIONS MAY FLUCTUATIONS O	BE GRADUAL. F GROUNDWATER	-

BORING NO.\_ON-2R

Name and Associated As	34	4 na	CENVIRONMEN GEL DRIVE, ERS AND SCI	BUFFALO,	y York New York		Stuart-Olve Rochester	er-Holtz		SHEET 3 OF 3 FILE No. 19078.10 CHKD. BY
DEPT			SARPLE			SAMPLE	DESCRIPTION	PEAK	EQUIPMENT INSTALLATION	
Ì	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	area reconstruction of the control o		READ (PPM)	LOG	
37						moist.	* 4 THE TO SEA PARTY			
						FPCAEKET1 AL	ATHERED BEDROCKI			No. 00 size sand filter pack from 36.5 to 44.5 ft.
38	31 :	-20	88-39.3	>100	75	Grey to Gre	en, weathered	ND		to 44.5 ft.
39	57 100/4					dry.				
40						And the second s				
40	100/6	S-21	40-40.5	>100	75	Black, weat fragments,	hered rock moist.	NO		
41	100/3	s-22	41-41.3	>100	85	same.		ND		-No. 10 slot stainless
42						CSEVERELY WE	ATHERED BEDROCK)	and the state of t		steel well screen from 38.5 to 43.0 ft.
	-							Education		,
43	72	S-23	A 43-44.8	29	100	Reddish Bro	wn, CLAYEY SILT,	CIA	4	stainless steel sump from 43 to 43.5 ft.
44	16 13	s-23	8			Greenish we fragments,	eathered rock moist.	NO ND	4,465	rrom 45 to 43.5 Tt.
,	100/3		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			fragments,	meathered rock	ND		
45	100/3	s-24	45-45.3	>100	100	Pink, Red w fragments,	eathered rock	ND		ne de la company
46						-			4	bentonite pellet
47						Severely wea	thered CLAYEY			seal from 44.5 to 47.5 ft.
or and an arrangement	100/6	s-25	47-47.5	>100	100	· · · · · · · · · · · · · · · · · · ·	s. ATHERED BEDROCKJ	ND		
48						BOCCOM O. B	or mga 41.5.4			notices and the second
49										NEGOVINA AND AND AND AND AND AND AND AND AND A
			and the state of t							Miller State Control of the Control
50	**********									eda eta - et
- Annah Galleria			NAMES OF THE PERSON NAMES OF THE PERSON NAMES OF THE PERSON NAMES OF THE PERSON NAMES OF THE PERSON NAMES OF T		***************************************					NEL CONTRACTOR DE CONTRACTOR D
									7	11-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-
and the state of t										, the state of the
tyraphterroom.										Millionicoderge
edirennanti.										and desirations and desiration
trominta Betante					***************************************					National Control of the Control of t
t de la constante de la consta										
Margaret			LEGEND			NOTES: Org	anic Vapor Neter (A	l VM) read	ling of headers	ce using H-NU PI-101
oring constants	C - Roc	k Co	poon Soil S rbed Soil S re Sample	Formur deservations		\$6 	otolonization detec -not detected above	tor. 1 ppm.		
GEN	ERAL 1	) ST	RATIFICATIO	N LINES R	EPRESENT A	PPROXIMATE BO	NOARY BETWEEN SOLI TOTAL CONDITION TO THE TA THE SE	. TYPES,	TRANSITIONS N	AY BE GRADUAL.

WELL DECOMMISSIONING RECORD	
Continue Court On 150 150 177 CITE	Well I.D.: SW-32
Site Name: STOART OLIVER HOLTZ SITE	Driller: NEXC SHORT
Site Location: 39 COMMERCE BRIVE HEWRIETTA, NY	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGE DRULING INC	
	Date: 5/30/9
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth .
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	- I water
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n) Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed Genting	
Casing retrieved (feet)	- I terc
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	- I farmi
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING Interval grouted (FBLS)	
ITTICITY OF BLOCKER (1 2 2 2 )	
# of batches prepared For each batch record:	
Ouantity of water used (gal.)	
Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)	
Ouantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	24' - =
Volume of grout used (gal.)	
	* Sketch in all relevant decommissioning data, including:
COMMENTS: trems grout in place to Surface excusion	interval overdrilled, interval grouted, casing left in hole,
to ~5'BGS. Native buckfill	weil stickup, etc.
C.P.I.C.	
<u> </u>	Department Representative
Drilling Contractor	



# SUBSURFACE LOG

(Page 1 of 1)

Stuart Olver

Rochester, New York

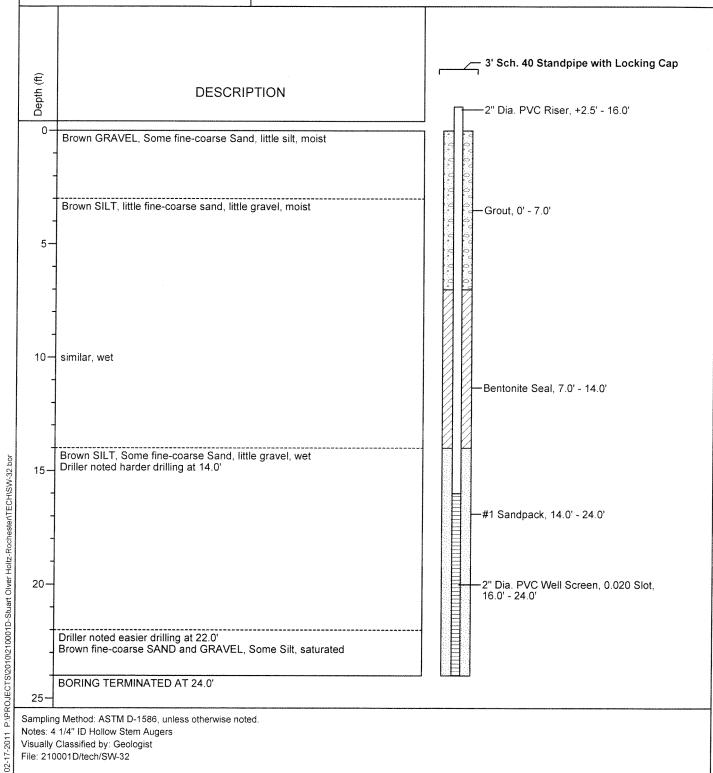
Boring No: Project No.: : SW-32 : 210001D

Date Started:

: 02/07/11

Date Completed:

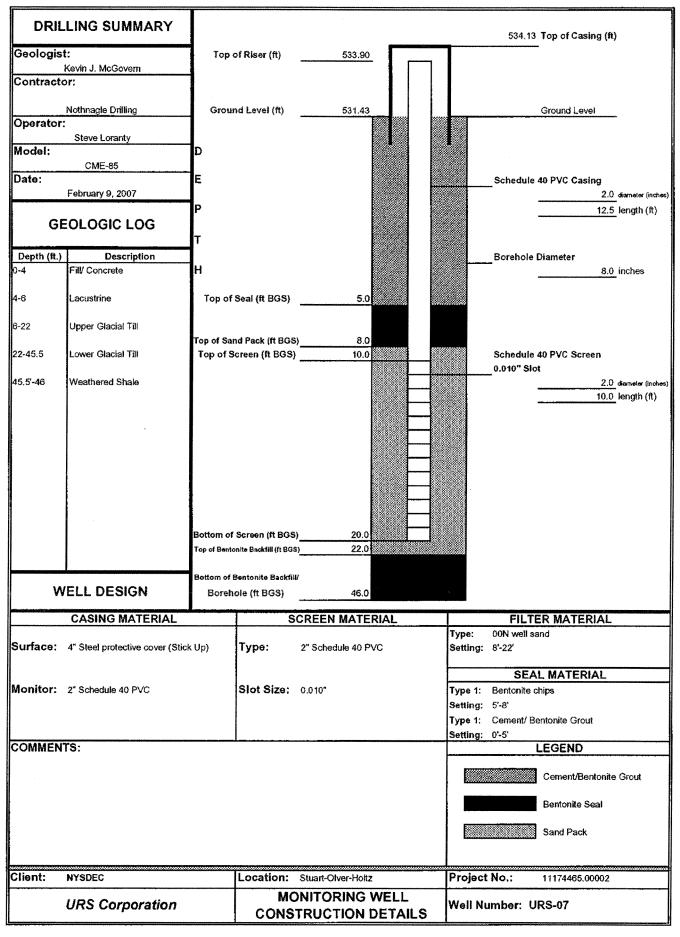
: 02/07/11



Sampling Method: ASTM D-1586, unless otherwise noted. Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: Geologist File: 210001D/tech/SW-32

WELL DECOMMISSIONING RECORD	
	-
Site Name: STUART OLIVER HOLTZ SITE	Well LD.: URS-07
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEAC SHOET
Drilling Co.: NOTHNAGE DRULING INC	Inspector: ERNIE THALHAMER
Dining con post portion	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth (feet)
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used	(feet)
Number of perforations/foot Size of perforations Interval perforated  GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)  COMMENTS: frame grout to Souther excussive to	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.
Druling Contractor	Department Representative



WELL DECOMMISSIONING RECORD	
	Well I.D.: 192-2
Site Name: STOART OLIVER HOLTZ SITE	
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEXC STORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THALHAMER
	Date: 5/30/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	_
Drilling Method(s)	
Borehole Dia. (in.)	<b></b>
Temporary Casing Installed? (y/n)	-
Depth temporary casing installed	
Casing type/dia. (in.)	<b>-</b>
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
Casing type/dia (m)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
*	<u> </u>
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
A Offittie of Bross and (8.2)	
COMMENTS: NO VISIBLE PUZ LOOKED to be	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
to confirm to the pared, have builting	
	Department Representative
Drilling Contractor	to the second se

# IT CORPORATION A Member of the IT Group

# Drilling Log

Monitoring Well IPZ-2

Screen: Dia 2 in. Casing: Dia 2 in. Fill Material Dr.J Co. SJB Driller Checked By	Total Hole Water Leve Length 10 Length 14  Metr Log By 1.	Date <u>C6/27/6</u> License No.	1/4 in.  COMMENTS:  Well not sampled for	. SOI.
2	5 3		THE 10% to 20%, Some 20% to 35%, An	d 35% to 50%



# DAILY INSPECTION REPORT No. \_68\_\_ DATE: May 31st, 2019

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079 NYSDEC CONTRACT No. D007622-8.1

TEMPERATURE: 50S SKIES: Overcast WIND: MODERATE PRECIPITATION: NONE

# DESCRIPTION OF WORK PERFORMED BY CONTRACTOR (at the time of URS site visit)

Nothnagle Drilling Inc., represented by Neal Short and Anthony Farrell, arrived on site at 0730 and mobilized equipment to prepare for well decommissioning in accordance with the requirements of NYSDEC's CP-43 *Groundwater Monitoring Well Decommissioning Policy*. Nineteen of 24 monitoring wells and piezometers have been decommissioned prior to the start of fieldwork today.

Nothnagle completed abandonment of four wells (OW-7R, OW-8S, OW-10S, OW-11S). Well OW-11S steel protective casing and 2-inch steel riser was removed entirely using a winch cable and grouted to the ground surface. The area around wells OW-10S was overdrilled to approximately five feet below ground surface. The two-inch diameter black iron riser pipe was cut at approximately five feet below ground surface. The area around wells OW-7R, OW-8S were excavated to approximately five feet below ground surface to expose the outer steel pipe. The four-inch diameter black iron riser and eight-inch diameter outer steel casing were cut at approximately five feet below ground surface. The remaining riser pipe were tremie grouted in place with approximately 30 gallons of grout for OW-7R; 20 gallons of grout for OW-8S; 5 gallons of grout for OW-10S; and 5 gallons of grout for OW-11S. After grouting was complete, each excavation was backfilled using the excavated soil. The surface of OW-10S was restored with approximately 4-inches of blacktop patch.

Monitoring well OW-9S could not be located. No action was taken at the location the OW-9S was expected to be. At the completion of well decommissioning, Nothnagle demobilized their equipment from the site. The well materials (i.e., well risers and protective casings) removed from the wells were left on site for off-site disposal by Nothnagle at a later date.

In summary, 22 wells were decommissioned. Two wells slated for abandonment could not be located. One of the locations where the well was expected but not located was overdrilled and grouted to the surface.

#### **PERSONNEL ON-SITE:**

T ELIS OT IT IEEE OT I STIEV		
Affiliation		Hours Logged
Nothnagle Drilling Inc.	Neal Short Anthony Farrell	0730 – 1530

#### **VISITORS**:

Name	Representing	Time (from – to)	Comments

# **EQUIPMENT AT SITE:**

Contractor	Equipment	Hours Logged
Nothnagle Drilling Inc.	Skid Steer	0730 - 1530
Nothnagle Drilling Inc.	CME Truck Mounted Drill Rig	0730 – 1530
Nothnagle Drilling Inc.	Delivery and equipment truck	0730 – 1530

PREPARED BY: Ernest Thalhamer TITLE: Staff Geologist

REVIEWED BY: Chuck Dusel TITLE: Project Manager



DAILY INSPECTION REPORT No. \_68\_\_ DATE: \_\_May 31st, 2019\_\_\_

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079 NYSDEC CONTRACT No. D007622-8.1

Photo No. 1 – Overdrilling top 5' of riser at OW-10S



Photo No. 2 – OW-10S after completion of abandonment and asphalt patched at surface





DAILY INSPECTION REPORT No. \_68\_\_ DATE: <u>May 31st, 2019</u>

STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC. NYSDEC SITE No. 828079

NYSDEC CONTRACT No. D007622-8.1

Photo No. 3 – Well construction materials stockpiled after the completion of decommissioning.



WELL DECOMMISSIONING RECORD	
	•
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-7R
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEXC STORT
Drilling Co.: NOTHNAGLE DRILLING INC	Inspector: ERNIE THALHAMER
Drining Co., Not World Page 1	Date: 5/3/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth ·
(1 m m m = -FP-3)	(feet)
OVERDRILLING	0
Interval Drilled	
Drilling Method(s)	- next - next we
Borehole Dia. (in.)	- Silver
Temporary Casing Installed? (y/n)	5 - 05
Depth temporary casing installed	
Casing type/dia. (in.) Method of installing	
Method of instanting	
CASING PULLING	
Method employed	
Casing retrieved (feet)	por a particular de la constanta de la constan
Casing type/dia (in)	and the state of t
TARTO DEPEND A TINIC	
CASING PERFORATING Equipment used	35 ]
Number of perforations/foot	
Size of perforations	
Interval perforated	- I SS. [-]
GROUTING	
Interval grouted (FBLS)  46 5	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	To an annual section of the section
Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)  Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.) 30	
COMMENTS: excused to -5'865. cod off 8" and 4"	* Sketch in all relevant decommissioning data, including:
BIR 0-5 BGS treme grad, to -5 BGS value	interval overdrilled, interval grouted, casing left in hole,
Sadefull 7 in place	well stickup, etc.
JU/Win	Department Representative
Brilling Contractor	•

	System and the second		GZA 364	GECENVIRONE NAGEL DRIVE	MENTAL OF N	EW YORK	and the second s	PROJECT SCRING No. CW-7R Stuart-Olver-Noltz SWEET 1 05 1								
<b>2</b> 3			ENG	INEERS AND S	SCIENTISTS			Rochesti	er.	New Yor	K.		SHI FII	ET	19078.10	<u>_</u>
IJ	- 2		ec.	Nothmagle Steve Lor RONMENTAL R	anty	VE <u>Dave</u> 8	glaskas	BORING LOCATI GROUND SURFAC START DATE	E 2	EVATION	528.	E751312. DATE11	DATIB	KGV0		
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	STATE OF THE PERSONS ASSESSMENT	CASING	SIZE	AND TYPE	2-1/4 Inch	Hollow St	em Augers			DATE	TIME	WATER	CASING	R	emarks	
	***************************************	OVERBUR	DEN S	SAMPLING MET	HCO _ 2 in	<u>ch 0.D. x</u>	24" long splft			/17/94	0815	7	201	Stabil	ized 16 hi	CONTRACTOR CONTRACTOR
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H	and the same	1 12	1			<del> </del>	coarse SAND,	brown, fine t trace clayey pravel, moist.	:0				. 4 con	creste si	urface	
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Westernal .	-	3 6	-				ftrace Sand, n	otst.			团					
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	-	9				***************************************	clayey Silt, moist to wet.	trace Gravel,								
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ered		6	3-5	8-10	56	95	same, except of Clayey Silt,	rades to some		12						
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	11	24	<b>-</b>		<b></b>			****			13					
		21	<b>†</b>				(UPPER T	[LL]			44					
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	:3	100/6	ł			CONTRACTOR CONTRACTOR	coarse SANÓ, l Silt, trace gr	ittle Clavev								
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1	15	45					Silt, moist.		ļ							
		100/6	1						ri caraci							
	16	70					rades to some	Clavey Silt	1		11					
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		48			<b></b>		una Jungaji siya						
	18	38 17	5.10	18-19.5	>100	80	Very Dense.	gray fine to	1				
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Fil.	19	100/6					(LUPPER	T1:13			÷ 3		******************
	20						lorrek	11561					
	20	35	S-11	20-21	>100	100	Same, moist.		ND				
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	24				ļ				500				
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H	27	10					(SAND STRATI	M 25.1 to 30.7 ft.)					
		17			<b></b>		4 0	JPPER TILL3					
	28	17	s-15	28-30	41	80	Same.		400				
accepts.		17	3-13	20-30	1-3		1						
	29	24	1										
***************************************	30	24								3			
	30	6	s-16	30-32	68	85	Same. (UPPER	TILL] 30.7'	100				
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		100/4	<del></del>	-	<b>_</b>	<b> </b>	coarse SAND	brown fine to , some clayey Gravel, moist. TILL)	***************************************				
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E		15	S-1	34-36	4	90	Same.		ND				
M	35	28 36	+		-	1	4						
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	36	17	S-1	9 36-38	82	75	Same.		ОМ		from 36	pellet seal to 39 ft.	
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			GEL DRIVE,		MEN JURA		Stuart-Ölve Rochester,	New Yor	<u> E</u>	SHEET 3 0F 3 FILE No. 19078.10
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0			SAMPLE	:		SAMPLE	DESCRIPTION	Peak	EQUIPMENT INSTALLATION	
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38	21	s-20	38-40	73	75	Very Dense.	fine to coarse	ND		
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39	39					1	ER TILL]			
40	47		, and the second			] ""	er Hill			
74	22	-21	40-41.9	74	70	Same		ND		No. 00 size sand filter pack from 39 to 47 ft.
41	35			<u></u>		-				47 ft.
	39 100/4"			<b>!</b>		1 ""	R TILL] 41.9			
42		S-22	42-42.1	>100	100	Very Dense,	Green weathered	NO		
	F					rock fragmen wet.	ts, moist to			
43	<b> </b>	<del>                                     </del>			İ	(SEVERELY WE	ATHERED BEDROCK			No. 10 slot stainless steel well screen from 41 to 45.5 ft.
44										grant to war of the
-3-4	100/1"	s-23	44-44.1	>100	100	Same, except weathered ro	white and pink ck fragments,	ND		
45						moist to wet	•			
								an economic participation of the contract of t		stainless steel sump
46	100/3"	S-24	46-46.3	>100	100	Same, except	moist. ATHERED BEDROCKI	ND		45.5 to 46 ft.
	<u> </u>									
47						Sottom of Bo	ring at 47.0 ft.	1		
48						]				
	<u> </u>	ļ				1				**************************************
49	<u> </u>		pomplet recognition and an artist of the second							Name and American
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WELL DECOMMISSIONING RECORD	
	-
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-85
Site Location: 39 COMMERCE BRIVE HENRIETTA NY	Driller: NEXC SHORT
	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGLE DRULING INC	Date: 5/31/19
THE STREET OF THE PATA	WELL SCHEMATIC*
DECOMMISSIONING DATA	Depth
(Fill in all that apply)	(feet)
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing  CASING PULLING Method employed	S = 8 Pink
Method employed Casing retrieved (feet) Casing type/dia. (in)  CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated	- grout
GROUTING Interval grouted (FBLS) # of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grout used (gal.)	32
comments: excusede to -5'865 cut off 8" et " p-5'865; transe grand, to -5'865, patrebackers in place	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.
Dnilling Contractor	Department Representative

		364 N. ENGIN	AGEL DRIVE, EERS AND SC	TENTISTS	NEW YORK		Stuart-C Rocneste	PROJE Olver- er, Ne	Ho(tz Ho(tz Hor			SHI FI	RING No. <u>CN-85</u> EY 1 OF LE No. <u>19078.10</u> CD. BY
108	ILLER		Nothnagle ( Kevin Busc NMENTAL REF	1	VE <u>Dave B</u>	e askas	BORING LOCATI GROUND SURFAC START DATE 6	ON N E ELE /26/9	11235 14776	2.12 Ess.	E751170.	61 DATUM 6/27/95	RGVC
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ž					Walley Co	em Augers	PORTAGE AND AND AND AND AND AND AND AND AND AND	D/	NTE	TIME	WATER	CASING	REMARKS
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P T H	BLOWS	ΝΟ.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY	world'it in to	DEJEKIPI 10M		Peak OVM Read (ppm)		LOG	7	
	6	S-1	0-2	16	60	Medium dense,	, fine to coars	e	ND				
4	7					SAND, little trace Gravel	Clayey Silt, , moist.	İ				Conc	rete surface seal .5 ft.
	9					T CFIL	LI					1	
2	13												
40	8	s-2	2-4	26	30	Same, except	with root		ND				
3	12					fragments.		-			3330	*	
-	14					1					<u> </u>		
4	12									<b>F</b> 1	4	Ceme	nt/bentonite grau
•	9	S-3	4-6	19	40	Hedium dense,	fine to coarse	e	ND			seal	from 2.5 to 22 f
5	7					SAND, some C trace Gravel	layey Silt, , wet.						
-	12					gjan.		l					
6	23					CFI	LL]	6.0/			No.		
	12	S-4	6-8	32	75	Dense, fine	to coarse SAND,		ND				
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Militario	18					(OPP)	ER TILL]				Bittilykinnesse		
8	14		***************************************										
es de la constante	100/5	S-5	8-8.4	>100	30	Same.			ND				
9								one of the contract of the con					
and and	***************************************	-									TOTAL		
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especification of the second	23	S-6	10-12	75	100	Same.		Military	ND			riser	black steel to 27 ft.
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2	**********	S-7	13_13 ^			(UPP	ER TILL]	ebeerseam					
and the second	100/5		12-12.9	>100	100	Same.		2.61	ND		Name of the last o		
3						Very dense, b	rown, fine to little Clayey	-	STATE OF THE PARTY	Marchideons			
-						Coarse SAND, Silt, trace G	ravel, moist.	The state of the s					
╬	38	s-8	14-16	>100	100	Vanu dana -	nama de la			Personal			
	52	$\dashv$				Very dense, b coarse SAND, Silt, trace G	some Clayey	SAMPLE STATES	DIA	OPPLEMANNON			
5	53	-				witt, trace b	easer, moist.	Processors	construction				
H	83	_		<del></del>		finher 1	****	Bernotheren					
<b>\$</b>		5-9	16-17	>100	100	[UPPER ]	itrrl		_				
Ę.,			LEGEND		-	***************************************	(A Vanar Haa	-	40		1	interiore and the second and the second	Militar and promoted as the second and the second as the s
u	- Unc	stur	oon Soil Sa bed Soil Sa a Sample	mple mple	Option State of the Control of the C	photo Wo-ne	ic Vapor Meter oionization det ot detected abo	(UVM) tector ove 1	read ppm.	ing of	neadspar	e using	H-Nu PI-101
NE	RAL 1 ES: 2	STR.	ATIFICATION ER LEVEL RE OCCUR DUF	LINES REP ADINGS HAV TO OTHER	PRESENT AP	PROXIMATE BOUN DE AT TIMES AN	DARY BETWEEN SI D UNDER CONDIT NT AT THE TIME	OIL T	YPES,	TRANSI	TIONS MA TUATIONS	Y BE GRA	DUAL. NOVATER

		3	64 NA	CENVIRONMENT GEL DRIVE,	BUFFALO,			PROJE Stuart-Olye Rochester,	CT Pr-Holt: New Yor			SORING NO. ON-8S SHEET 2 OF 2 FILE MO. 15078.10 CHKD. BY GUK	
	2000		,	SAMPLI			SAMPLE	DESCRIPTION	Peak OVM	EQUIPME!	Mark	The area of the characterisates and the characterisates are a second of the characterisates are a seco	¥0+6
	T H	Arons	жo.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)		in the state of the state of the state of the state of the state of the state of the state of the state of the	Read (PPM)	ros			8
	17	100/6	1—									·	
	18	52	s-10	18-20	>100	100	Same.		ND				
	19	61									45 A		
B		60 66	-				Same, excep Clayey Silt	t with little					
	20	30 :	-11	20-21.5	>100	100	Very dense, coarse SAND	brown, fine to	ND		0 % 2 %		
	21	45 100/6					Silt, trace	Gravel, moist.					
	22						-					•	
		21 42	5-12	22-24	>100	100	Same, wet.		NO			←Bentonite pellet seal from 22 to 25 ft.	
	23	62					·						
	24	70 40	S-13	24-26	>100	100	Very dense,	brown, fine to	Topic Control of the				
	25	55					Clay, moist	to wet.	ND				
	26	78 90		***************************************		···•	min	DES					
B	40	66 100/6	<b>3-1</b> 4	26-27	>100	100	Same.	PER TILL)	NO				
	27	100/0					medium SAND Silt, wet.	brown, fine to , little Clayey				No. 10 slot stainless	
	28	45	s- 15	28-30	61	100	32.0 ft.)	um at 26.5 to brown, fine to	ND			steel well screen from 27 to 32 ft.	
	29	27			, , , , , , , , , , , , , , , , , , ,	100	medium SAND wet.	, little Silt,	AD.				
	2/	34 43											
	30		s-14	30-32	42	100	Same, excep Silt, wet.	t dense, trace	סא			No. 00 size Sand	
	31	12 30		The second second second second second second second second second second second second second second second se			2111, 821,					filter pack from 25 to 32.5 ft.	
Д	32	34					(UPI	PER TILL] 32.0'					
	-	60 92	S-17	32-33.5	>100	100	Very dense, coarse SAND	brown, fine to , some Clayey Gravel, moist.	NO			mbantanita mallat can	
	33	100/6				N. F.		33.5				—Bentonite pellet seal from 32.3 to 33.5 ft.	
	34			Marries and the second second second second second second second second second second second second second seco			Bottom of b	oring at 33.5′.					
	35												
													To constitute the same of the
	36												
9		S - Spi U - Unx C - Roc	it S istu k Co	LEGEND poon Soil S rbed Soil S re Sample	iample iample		NOTES: (1) (	Organic Vapor Meter otolonization detect	(OVM) :	reading of Penot detec	heads ted a	space using H-Nu PI-101 above 1 ppm.	e Marketinessessing
	GEN NO	ERAL 1	) ST	RATIFICATION TER LEVEL R	N LINES R	EPRESENT A AVE BEEN M	PPROXIMATE BO	UNDARY BETWEEN SOIL AND UNDER CONDITION	TYPES, S STATÉ	TRANSITIO D, FLUCTUA	NS MA	Y BE GRADUAL. OF GROUNDWATER	7
	GZA		MA'	Y OCCUR DUE	TO OTHER	FACTORS T	HAN THOSE PRE	SENT AT THE TIME ME	ASUREME	NTS WERE H	ADE.	BORING NO. ON-85	

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: 0W-105
Site Location: 39 COMMERCE BRIVE HEWRIETTA, NY	Driller: NEXC SHORT
Drilling Co.: NOTHNAGE DRULING INC	Inspector: ERNIE THALHAMER
Dining co., 1904 11101 22 2	Date: 5/31/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth Washing
	Depth blacktof [ [
OVERDRILLING	
Interval Drilled O-5	
Drilling Method(s)	- Native
Borehole Dia. (in.)	ν σ' <sub>10,</sub> 's
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	- Soliton Services
CASING PULLING	-
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	- 34
	- arout
CASING PERFORATING	
Equipment used	
Number of perforations/foot	- darent
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	<b>-</b> S
Quantity of cement used (lbs.)	
Cement type	4
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
	The state of the s
COMMENTS: theme event to surface out off casing	* Sketch in all relevant decommissioning data, including:
-5'BGS blacktop patch	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
and have	
Drilling Contractor	Department Representative

ENGINEERS AND SC.  CONTRACTOR Nothnagle D DRILLER Keyin Busch GZA GEOENVIRONMENTAL REP  TYPE OF DRILL RIG BK- CASING SIZE AND TYPE 4  OVERBURDEN SAMPLING METHOD  D E SAMPLE T BLOWS NO. DEPTH K / 6" CFI.)  S-1 0.5-2	rilling RESENTATIVE _Dave Bel 81 -1/4 inch Hollow Sten CD _2 inch O.D. x 24 spoon	Augers	ATION N1121 FACE ELEVATI 6/21/95 DATE	TIME	DATE 6	Whitenania	
TYPE OF DRILL RIG	RESENTATIVE _Dave Bet 81 -1/4 inch Hollow Sten CD _ 2 inch O.D. x 24 spoon	Augers	DATE	TIME	DATE <u>6</u> Water Le	/22/95	
TYPE OF DRILL RIG	81 -1/4 inch Hollow Sten CD <u>2 inch 0.D. x 24</u> spoon	n Augers	DATE	TINE	WATER LE	······································	
CASING SIZE AND TYPE	-1/4 inch Hollow Sten OD			TIME	************	VEL DATA	
OVERBURDEN SAMPLING METHOD  ROCK DRILLING METHOD  SAMPLE  SAMPLE  BLOWS NO. DEPTH  (FI.)	CD <u>2 inch 0.0. x 24</u> spoon				IMMIEK	I	_
ROCK DRILLING METHOD  SAMPLE  SAMPLE  T BLOWS NO. DEPTH  K / 6" (FI.)	SDOON	" long split	0/22/9		<del>}</del>	CASING 24'	REMARKS
D SAMPLE F T BLOWS NO. DEPTH K / 6" (FI.)		**************************************	2	7 0013	6.3	24.	Stabilized 16 hr
D SAMPLE F T BLOWS NO. DEPTH K / 6" (FI.)						<del>                                     </del>	
P BLOWS NO. DEPTH (FT.)	_			T FOI	I PMENT	Ь	
		SAMPLE DESCRIPTION	Pea OVM	k	LLATION	accide difference	
\$-1 0.5-2	N-VALUE RECOVERY /RED(%) (%)		Rea (pp	d	.og	Management	
	56 100	Augered through pavemer	***************************************	5532	3		
. 12		CONTRACTOR OF THE PARTY OF THE			ı		
44		Very dense, brown, SIL1 CLAY, and fine to coars SAND, little Gravel, mo (possible subbase)	e ist.			<u> </u>	ete surface seal
47		(possible subbase)				to 2.	
<sup>2</sup> 36 S-2 2-4	56 80	[FILL] Very dense, brown, fine	to ND			Ž.	
30		Very dense, brown, fine coarse SAND, some Claye Silt, trace Gravel, moi	y st.	832822		9	
3 26		•			l		
, 20			ann ann ann ann ann ann ann ann ann ann		<b>*</b>	the inch	h O.D. flush join steel riser to
4 9 8-3 4-6	27 95	same.	ND			12 ft.	
_ 11							
5 16							
16			*out-dealer		-	Cement	t/bentonite grout from 2.5 to 7 ft.
6 11 5-4 6-8	45 75	Same.	ND			Sed. 1	TOR 2.5 to / TT.
_ 23			"		ŀ	CM CM CM CM CM CM CM CM CM CM CM CM CM C	
7 22					-	Leantar	sita mallat acal
21		[FILL]	7.61		`	from 7	ite pellet seal to 10 ft.
8 10 S-5 8-10	41 100	Dense, brown, fine to m SAND, trace Clayey Silt	dium   wet.NO			***************************************	
20			and the same of th			Louis control of the Control of the	
21		(UPPER TILL)	l		Į	4	
36							
13 S-6 10-12	56 75	Same, except very dense	ND			The state of the s	
1 26		with Gravel, wet.			- 4	-No-00	size Sand filter
30						pack f	rom 10 to 17.5 ft
2 55							
<sup>6</sup> 42 S-7 12-14	41 80 :	Same, except dense.	NO		コ@		
3 20 1					_ 🌌		
21			constable	1331=	4	No. 10	slot stainless well screen from
4 21					=	12 to	17 ft.
13 S-8 14-16	° 63 95 5	Same, except very dense.	ND				
29			and the second				
34		(UPPER TILL)					
40		Brown, fine to coerse SA and Silt, wet. [UPPER TILL]				ſ	
14 5-9 16-17.5	>100 100 y	(ery dense, brown, fine	to coarse				
S - Split Spoon Soil Sa U - Undisturbed Soil Sa C - Rock Core Sample	ample ample	Very dense, brown, fine SAND and Silt, Wet. HOTES: Organic Vapor Me photoionization ND-not detected	ter (OVM) re detector, above 1 ppn	ading of	headspa	ce using	H-Nu PI-101
ENERAL 1) STRATIFICATION NOTES: 2) WATER LEVEL RE MAY OCCUR DUE	LINES REPRESENT APPI ADINGS HAVE BEEN MADI TO OTHER FACTORS THAT	ROXIMATE BOUNDARY BETWEE E AT TIMES AND UNDER CON N THOSE DESCRIPT AT THE	N SOIL TYPE	S, TRANSI	TIONS MA	Y BE GRA	DVAL.

0	T	**************	ili mengangan mengangan kenanggan dan kenanggan dan kenanggan dan kenanggan dan kenanggan dan kenanggan dan ke	<b>*************************************</b>	an an in the control of the control	CAMBLE	**************************************		EQUIPMENT	UNIXU. SI
Z-10MC	BLOWS / 6"	NO.	DEPTH	N-VALUE			DESCRIPTION	0VM Read	INSTALLATION	
17	45					(Sand Stratu	m 15.2 to 17.0 ft.	1		
11	SAMPLE DESCRIPTION  BLOMS NO. DEPTH N-VALUE RECOVERY  / 6" NO. DEPTH / RQD(%) (%)  (Sand Stratum 15.2 to 17.0 ft. UPPER TILL] 17.0'  Very dense, brown, fine to coarse SAND, some Clayey Silt, trace Gravel, moist.									
18		<u> </u>		-	<b></b>	coarse SAND Silt, trace	, some Clayey Gravel, moist.			
	100/6	75-16	18-18.5	>100	100	Same.		ND	4-	Bentonite pellet seal from 17.5 to 24.5 ft.
19		$\vdash$		1		TI AUER	TILLY			
20					***************************************	•	* * * * * * *			
ZU		S-11	20-20.9	>100	100	Same,		סא		
21	100/5	<u> </u>								
										On the second se
22	41	S-12	22-23 0	>100	100	Vans de	#2			seemble of the transfer of the
		H	mm tead to 7	1-13	.00	coarse SAND	little Clayey	NO		
23	71					arang manun	3.0.01, 801.			
24	***************************************						and the second			9999
	100/6	S-13	24-24.5	>100	100	CANADA CANTO CONTROL C		ND		
25						Bottom of bo	oring at 24.5′			The second secon
-					***************************************		h-de-course			Columnia (Columnia Columnia Co
26		$\dashv$		<del> </del>			somethy many states and states an	owen and the second		Security Sec
27								en commente de la commente del commente de la commente del commente de la commente del commente de la commente de la commente de la commente del commente de la commente del commente de la commente de la commente de la commente del commente de la commente de la commente de la commente de la commente de la commente de la commente de la commente de la		- Calledon Hall
								- China Chantain China C		COLOR I I I I I I I I I I I I I I I I I I I
28 -										Construction of the Constr
- die							**	onese de la constanta de la co		
9		$\dashv$	TO SECURE A SECURITION OF THE							
		7					-	of College, and Co		
	2000						N + C + C + C + C + C + C + C + C + C +			
,,							Aeversiance			
-		_	***************************************				THE CONTRACTOR OF THE CONTRACT	- The second second		
2		$\dashv$	***************************************				destination			
_		$\dashv$					Probabilistic et al.	or or other control of the control o		
3		Ť					nous properties at	pinement		
4		丁					sistance of the same of the sa	-	1000 A	
-			-				SSIT ISP WARDEN	***************************************	nonegijimbalada	
5		_					·			
-		+					Proprintingen	İ	-	
6		$\dashv$								
L	- Sn16	+ 0~	LEGEND CO			NOTES:	Organic Vapor Meter	(OVM)	eading of hea	dspace using H-Nu PI-101
ŭ	- Undi	sturi Cor	sed Soil Si Sample	ample	Philippine and the state of the	phot	olonization detecto	r. ND=	not detected a	above 1 ppm.
orientation pro-	PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS	annesse en comp	disconsistence of the same of	I I INCC DE	DECENT AN	PANITUS TO A PANI				

WELL DECOMMISSIONING RECORD	
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: OW-US
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEXC SHORT
	Inspector: ERNIE THALHAMER
Drilling Co.: NOTHNAGE DELLING INC	Date: 5/31/8
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth (feet)
OVERDRII I ING	
OVERDRILLING Interval Drilled	
Drilling Method(s)	- nod pix
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	- grout
Casing type/dia. (in)  Bip 55 2	
CASING PERFORATING	
Equipment used  Number of perforations/foot	A
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 - 5   -
For each batch record: Quantity of water used (gal.)  3	
Quantity of cement used (lbs.)	
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	13' - 1/
Volume of grout used (gal.) 5	and accommodition measures assumed a
COMMENTS: pull processing and 2" well complete	* Sketch in all relevant decommissioning data, including:
A L. A RAS Noth to book to	interval overdrilled, interval grouted, casing left in hole,
to subject	well stickup, etc.
/1/1 / ginn	
Drilling Contractor	Department Representative

Nacidomontoon			EERS AND S	, BUFFALO, CIENTISTS	DEN IUKK		Stuart- Rochest	olver er, N	-Holtz ew Yor	K	o de la companya de l	SH F1	RING No. <u>ON-11</u> EET	102
CC	NTRACT	OR	Nothnagle	Drilling		30	RING LOCATI	NO I	1112330	8.96	<u>7</u> 50922.	~~~		erental para
GZ	A GEOE	NVIRO	HMENTAL RE	ncz Pkesentati	VE <u>Dave B</u>	GR <u>Plaskas</u> ST	OUND SURFAC	Έ ΕΓΕ 5/22/9	VATION 25	528. END (	ATE 6/	DATUM _ 23/95	NGVO	
TY	PE OF	DRILL	RIG CH	E-75						1	ATER LE	VEL DATA		************
ł					Hollow St	em Augers	instance.	0	ATE	TIME	WATER	CASING	REMARKS	
8				HOO _2 in	ch O.D. x	24" long split	*******	6/23	3/95	0830	9.71	30′	Stabilized 16	hrs
			***************************************	Sp008	<u> </u>			<u> </u>	enterior de constantes		political de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la comp			*************
D	T	00 00 0 17 Vag	11011100				telia Made Britan Street Made Manager	<u> </u>	T		10115117	<u> </u>		<u>innicated p</u>
mar ==		T	SAMPI		·	SAMPLE DES	CRIPTION		Peak OVM		IPMENT LLATION			
T H	BLOWS / 6"	NO.	DEPTH (FT.)	/RQD(%)	RECOVERY (%)				Read (ppm)		, OG			
	22	s-1	0-2	42	60	Dense, brown fi	ne to		ND				en en en en en en en en en en en en en e	heldte innen
1	28					coarse SAND, so Silt, trace Gra	me Clay & vel, moist		Micotemposy					
•	14					[FILL]			OCCUPANT OF THE PARTY OF THE PA			<u> </u>	oncrete surfac	e
2	13												seal 0-2.5 ft.	
_	20	s-2	2-4	60	65	Very dense, bro	wn, fine to	9	ND		82			
3		<u> </u>				Silt, moist.	tite ctaye	7			F			
	33	<u> </u>	CC (CC 1200								4	<del></del> ≥	inch steel pi	pe
4	33	<u> </u>		-		Address of the second of the s					profession and a second		-/.3 ft.	
	16	S-3	4-6	26	65	Very dense, bro coarse SAND, li Silt, moist to	wn, fine to	<b>)</b>	ND	1		<u></u>		
5	11	<b> </b>		-	<del>Na tan</del> akan menganggan kelah	Silt, moist to	wet.					s	entonite pelle eal 2.5-5.5 ft	
	15 17	_		-		[FILL]		5.6'				1		
6	3	5-4	6-8	18	65		***************************************							
	9	3 *	0.0	10	0)	Medium dense, b	rown, fine and CLAY an	ıd	QN					
7	9		***************************************			SILT, wet.								
	18		NAME OF THE POST OF THE PARTY O			(LACUSTR)	שביז פ	.0,		_				
8	23	S-5	8-10	48	65	Commission of the Commission o	THE RESIDENCE OF THE PARTY OF T		ND	E				
	22			1	· · · · · · · · · · · · · · · · · · ·	Dense, brown, f coarse SAND, lit Silt. wet.	tle Clayey		176	E	7	N.	o. 10 Stat	
9	26		90000000000000000000000000000000000000			•				上		3	tainless steel reen, 2"	
10	27					UPPER T	ILL					7	.5-12.5 ft.	
1	18	S-6	10-12	33	75	Dense, brown, fir	e to coars	e	ND					
11	19					SAND, little Cla wet.	yey Silt,	holletonosadiii			二()			
	14							Ì			48	Ī		
2			-0			CUPPER TIL	-	٠٥٠		<b>W</b> F	$\exists \%$			
-	46	s-7	12-14	>100	95	Very dense, brow coarse SAND, som Silt, trace Gray	n, fine to		ND	ΜE	$\exists x$	Şa	ind pack 5-13 ft.	
3 -	59			<b>  </b>				***************************************				٦.	J-13 Tt.	
-	66	-+	***************************************	<b> </b>		ELOWER TIL	Ŋ	*770400						
4	71 24	s-8	47.47											
-	40	3-0	14-16	62	90	Very dense, brow coarse SAND, som Silt, trace Grav	n, fine to e Clayey	Heilisteanidah	ND					
5	22	-	The same of the sa	$\vdash$		silt, trace Grav	el, moist.	Herman						
-	18	一十	Mate Material Science and appropria			Voor danna haar	. 41	Ì						
6-		s-9	16-18	70	85	Very dense, brown coarse SAND, som Silt, trace Grave	e Clayey		ND					
	J - Und	ISTUP	LEGEND con Soil S bed Soil S e Sample	in annual a		NOTES:1. Organic photoio	Vapor Nete	recto	) [ .				9 H-Nu PI-101	
ENE	RAL 1	STR	ATTETCATIO	H LINES RE EADINGS HA	PRESENT AP	PROXIMATE BOUNDAR	Y BETWEEN	nstat SOIL	TYPES,	TRANSI	TIONS MA	CONTROL CONTRO	DUAL.	ZING-KARINING

364 MAGEL DRIVE, BUFFALO, NEW YORK ENGINEERS AND SCIENTISTS					NEW TORK	Alakana di Santana ng Kalanana ng Kalanana ng Kalanana ng Kalanana ng Kalanana ng Kalanana ng Kalanana ng Kala	Stuart-Oly Rochester	/er-Holt New Yo		SHEET 2 OF FILE No. 19078.11 CHKD. 8Y		
D E P T H	BLOWS / 6"	No.	SAMPL DEPTH (FT.)	N-VALUE //RGD(%)	RECOVERY	SAMPLE	DESCRIPTION	Peak OVM Read	EQUIPMENT INSTALLATION	Opposite to the Contract of th		
17	22			1/20(2)			eritario estata por esta alta de la como espera de la como estata estata de la como estata de la como estata d	(PPM)	LOG			
17	48											
18	45 33	S-10	18-20	>100	100	Vame dama	banna dia a	NO				
19	47			İ	1.00	coarse SANÓ Silt, trace	brown, fine to , some Clayey Gravel, moist.					
97	69											
20	75 38	S-11	20-22	>100	100	Very dence	brown, fine to	ND				
21	100/6	<u> </u>		1	100	coarse SAND Silt, trace	, some Clayey Gravel, moist.	MD		AMBINITARIA CONTRACTORIA CONTRA		
٠.,	MONTH AVERAGE					1	ER TILL					
22	66	S-12	22-23	>100	100	-	brown, fine to	ND CM				
23	100/6			-		coarse SAND	some Clayey Gravel, moist.	NO.				
7	of 140 SeV/17 Security					1 (1.4	OWER TILLI					
4	59	s-13	24-25	>100	100	Very dense	brown fine to	NO				
5	100/6					coarse SAND, Silt, trace	brown, fine to some Clayey Gravel, moist.	70				
7								PORTO CONTINUES				
6	47	S-14	26-27.4	>100	100	Verv dense.	brown, fine to	NO				
7	62					coarse SAND, Silt, trace	brown, fine to some Clayey Gravel, moist.	,,,,				
	100/5											
8	100/1	s-15	28-28.1 >1	00	100	Very dense.	brown, fine to	ND				
9						coarse SANÓ, Silt, trace	brown, fine to some Clayey Gravel, moist.					
1				-		drea en		obtenses				
٥ŀ	59	s-14	30-31.3	>100	100	Grey to gree	WER TILL) 30.0'	ם א	STREET, AMERICAN CONTRACTOR OF THE STREET, AMERICAN			
11	63					bedrock, fra			CO-PHY MAN AND AND AND AND AND AND AND AND AND A			
ŀ	100/3						THERED BEDROCKS		TO COM A A A A A A A A A A A A A A A A A A A			
╬	100/2	s-17	32-32.2 >1	00	100		, rock fragments.					
3						Bottom of ber	ing at <b>32.2</b> ft.	All control control of the control o	and the state of t			
-						NOTE: This bo	rehole was		(III)			
<b>{</b>		$\dashv$				backfilled surface with bentonite g	cement/		September			
ŗ						Monitoring	vell OM-11S was n an adjacent					
			**************************************			we chate.			directors and a second			
5	$\dashv$	+	*****						Biolitical			
SUC	- Und	istur	LEGEND con Soil s bed Soil s e Sample	ample ample			ganic Vapor Meter coionization detect purden monitoring w og OW-11S for well			pace using h bove 1 ppm. ed adjacent	I-Nu PI-101 borehole	
NE	RAL 1: ES: 2:					PROXIMATE BOU	NDARY BETWEEN SOIL NO UNDER CONDITIONS ENT AT THE TIME ME	TYPES,	TRANSITIONS MAY	/ BE GRADUAL OF GROUNDWA	ŤER	

WELL DECOMMISSIONING RECORD	* COULD NOT LOCATE
Site Name: STUART OLIVER HOLTZ SITE	Well I.D.: Own-9S
Site Location: 39 COMMERCE BRIVE HENRIETTA, NY	Driller: NEAC SHORT
Drilling Co.: NOTHNAGLE DELLING INC	Inspector: ERNIE THELHAMER
	Date: 5/31/19
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n) Depth temporary casing installed	-
Casing type/dia. (in.)	
Method of installing	
istemon of instaining	
CASING PULLING	
Method employed	
Casing retrieved (feet)	,
Casing type/dia. (in)	
Security Control of the Control of t	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	Management Control of
Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)  Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
COMMENTS:	* Sketch in all relevant decommissioning data, including:
COMMENTS.	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
•	
Orilling Contractor	Department Representative

		364 N	EOEMVIRONME AGEL DRIVE,	BUFFALO,	EW YORK NEW YORK		Stuart-CRocheste		·Holtz			SHI	RING No. <u>OW-98</u> ET 1 OF 2 LE No. 19078.10
101	ENGINEERS AND SCIENTISTS  CONTRACTOR Nothnagle Drilling  DRILLER Kevin Busch  GZA GEOENVIRONMENTAL REPRESENTATIVE Dave Seleskes					SORING LOCATION OF THE PROUND SURFACE	AN N	111750	9.87	A service contract of the service of	СH) 23		
G.					g ( g s kas	START DATE	6/20/	95	END	DATE 6	/21/95		
4			RIG BK-	CONTRACTOR COMPANY OF THE PARK			***************************************	n	ATE	CONTRACTOR OF THE PARTY OF THE	WATER	VEL DATA	REMARKS
- 1						em Augers	PHENINGEN	-	21/95	0800		20'	Stabilized 16 hrs.
0	/ERBUR	DEN SAI	APLING METH	00 <u>2 (n</u> spaci	ch O.D. x	24" long split	·					<del> </del>	otabitized to mis.
RC	OCK DR	LLING	METHOD					***********		TO THE PERSON NAMED IN COLUMN TWO			MARION MARION INSTITUTE IN THE STATE OF THE
D E			SAMPL	ε		SAMPLE	DESCRIPTION		Peak		IPMENT		A marin A public in marine proposed in September 2 and Company of the Company of
PH	BLOW	, хо.	DEPTH (FT.)	N-VALUE /RGD(X)	RECOVERY	T			CVM Read (ppm)	INSTALLATION LOG		AND THE PERSON NAMED IN COLUMN TO SERVICE AND THE PERSON NAMED IN COLUMN	
	9	S-1	0-2	11	80	Medium dense	, brown, fine		ND	<b>.</b>			
1				-		Silt, trace	MD, trace Clay Gravel, with its, moist.	ey				O to	ete surface seal 3 ft.
Name of the last	5					I work to again.	its, motst.						
2	5					(Fi	LL1	2.0'					
	3	<u> s-2</u>	2-4	10	75	Stiff, reddi	sh brown CLAY Sand, moist.	8	ND				
3				<del> </del>		-							
	6	+				[LACU	STRINE]					and and an artist and an artist and an artist and artist artist and artist and artist artist and artist artist and artist artist and artist artin artist artist artist artist artist artist artist artist artist	
4	7	<del>  -</del>		<b>!</b>							4	Cemen	t/bentonite grout from 3 to 15 ft.
	4	\$-3	4-6	15	85	Same.			ND		1	3031	
5	6 9				***************************************	National Property and Property							
Hillandoniano	ļ-	-									e de la constante de la consta		
6	14	S-4	6-8	4-7	400	_							
l	+	3-4	0*0	13	100	Same.		6.81	ND	4	Modern		
7	°	+	Promining the contract of th			Brown, fine	to coarse SAND,					disconnection	
	8					trace Clayey	* ' ' '					and the second	
8	6	S-5	8-10	12	30	SILT, trace moist. [LAC	sh brown CLAY å fine Sand,						
enterior de la constante de la	1			14	24	STREET, CONTRACTOR OF THE PROPERTY AND ADDRESS.	Territoria especialista especia		ND			Windshood	
9	8	$\dagger \lnot \dagger$			***************************************	coarse Sand, Silt. wet.	, brown, fine t trace Clayey	0			4	-4 Inch	O.D. flush couple steel riser to 20
	4	H	enga marang ang marang ang mang mang mang mang mang mang ma			•	TRINE)	ewillow-differ		St. Lange	APPER BANKS	black	steel riser to 20
10	4	S-6	10-12	8	25	Same.	orkine)						
Name and Address of the Party o	4	+	***************************************			- c.m. 4		-	NO	-	subsymmetry (		
11	4	$\dagger \lnot \dagger$							***************************************	(Microsophies		Section 1	
	8	† †	***************************************		*************	-	CONTRACTOR OF THE OWNER WHEN THE PARTY OF THE PARTY.	.81	Bernalde	Openione		Tribocovania de la compania del compania del compania de la compania del compania de la compania del compania	
12	32	s-7	12-14	88	100	coarse sand.	orown, fine to some Clavev	-	NO	-		200mc090000	
١.,	33	ΠÌ	**************************************		***************************************	Silt, trace G to wet.	ravel, moist	Andread Market	24.00		Billion and the second	A CONTRACTOR OF THE CONTRACTOR	
13	55				~			Reference	description of	Protessing	Describeration		
,	35					[UPPE	R TILL)	No.		1			
14	20	S-8	14-16	99	100	Very dense, b	rown, fine to		МО	**************************************	Dominate of the Control of the Contr		
15	46					coarse Sand, moist to wet.	little Silt,	The second secon			Material		
2	53	53 SAND STRA		SAND STRATUM	· ·	***************************************	ŀ		12	-Bentoni	ite pellat coal		
16	50					(UPPER	TILL)	wild the second	To the same of the	N. P. C. C. C. C. C. C. C. C. C. C. C. C. C.		from 15	te pellet seal to 18 ft.
'°[	26	s-9	16-18	34	100	Hedium dense,	brown, fine to	o NC	enter a comment	Militerocous			
· Carrier Services	C * RC	CK COF	LEGEND coon Soil S bed Soil S e Sample	Elen succession de la company		NOTES: Urgan phot NO-n	ic vapor meter oionization de ot detected abo	OVM) tecto tecto	) read: r. ppm.				
GENI NO	ERAL TES:	I) STR 2) WAT MAY	ATIFICATION ER LEVEL RI OCCUR DUE	LINES RE ADINGS HA TO OTHER	PRESENT AF VE BEEN MA FACTORS TH	PROXIMATE BOUNDE AT TIMES AN AN THOSE PRESE	DARY BETWEEN S D UNDER CONDIT NI AT THE TIME	OIL 1 IONS MEAS	YPES, STATÉD SUREMEN	TRANSI , FLUC TS WER	TIONS MA TUATIONS E MADE.	Y BE GRA	DUAL . NOWATER
w mart	PARTICIPATION OF THE PARTICIPATION OF THE	akeral-keaseageag		Description of the same	- Security			Salio Maranese	Na raminement and a second				BORING No. DW-98

	GZA GEOENVIRONMENTAL OF NEW YORK 364 HAGEL DRIVE, BUFFALO, NEW YORK ENGINEERS AND SCIENTISTS					FALO,	NEW YORK	Sandar Marion de Carlos de	Stuart-Olv Rochester.	er-Holt	2	BORING No. OU-9S SHEET Z OF 2 FILE NO. 19078.10 CHKD. BY GJK		
DWQ.			Steerings	SAMPL	.E			SAMPLE	Peak COM INSTALLATION					
T	Bros		١.	DEPTH (FT.)	N- /R	VALUE QD(X)	RECOVERY			Read (PPM)	LOG	ON		
17	1:	oondaan	_	NT DOWNS CONTROL OF THE PARTY O	_	designation (Control of Control o			alle de la companya de la companya de la companya de la companya de la companya de la companya de la companya d			, e e e e e e e e e e e e e e e e e e e		
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18	29 \$-10 18-20 99 100					99	100	Medium Densi	hrown fina	ND	200	X 20		
19	44		Ť		7	der de la companya de la companya de la companya de la companya de la companya de la companya de la companya d		Medium Dense, brown, fine to coarse SAND, trace Clayey Silt, wet.				4	No.00 size Sand filter pack from 18 to 25.5 ft.	
1''	55		I											
20	45		_	***************************************	4	NA SECONDARIO DE SECONDO								
Statement consumer	32	-	4	20-22	-	72	100	Same.		ND	<i>&gt;&gt;</i> =	•	No. 10 slot stainless steel well screen from	
21	32		+	**************************************	+		AND DESCRIPTION OF THE OWNER.						20 to 25 ft.	
-	28	-	1	Communication (Control Control	T					Victoria de la companya del companya de la companya del companya de la companya d				
22	9	s-	14	22-24	1	41	95	Same.		ND				
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24	29 29	s-1	+	24-26	╀.	99		Same.		ND :				
	47	+3-	+	24-20	<u> </u>	99	100	(UPPER	TILL3 24.7'					
25	52	十	1	<del></del>	$\vdash$		and the second second	Very dense, coarse SAND.	brown, fine to little Clayey					
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	11	<u> s-1</u>	4 :	26-27.9	5	93	80	[LOWER ] Same.	IILD	ND.		4	—Bentonite pellet seal from 25.5 to 28.9 ft.	
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	70 100/	<del> </del>	+		<b> </b>							exchandebates		
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29	100/4	1	T		m			[LON	R TILL]					
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DAILY INSPECTION REPORT No. \_69\_\_

DATE: <u>June 13th, 2019</u>

# STUART OLVER HOLTZ MONITORING WELL DECOMMISSIONING

CONTRACTOR: NOTHNAGLE DRILLING INC.

NYSDEC SITE No. 828079 NYSDEC CONTRACT No. D007622-8.1

TEMPERATURE: 60S

WIND: MODERATE

SKIES: Partly cloudy

PRECIPITATION: NONE

# DESCRIPTION OF WORK PERFORMED BY CONTRACTOR (URS was not on site)

Nothnagle Drilling Inc., arrived on site, loaded well construction material stockpile for off-site disposal. Before and after pictures below.

# PERSONNEL ON-SITE:

Affiliation	Hours Logged
Nothnagle Drilling Inc.	0830 - 0900

# **VISITORS**:

Name	Representing	Time (from – to)	Comments
None			

# **EQUIPMENT AT SITE:**

Contractor	Equipment	Hours Logged		
Nothnagle Drilling Inc.	Equipment truck	0830 - 0900		

PREPARED BY: Ernest Thalhamer TITLE: Staff Geologist
REVIEWED BY: Chuck Dusel TITLE: Project Manager

