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November 3, 2016

Mr. Jeff Bechtel
USEPA – Region 2
2890 Woodbridge Avenue
Edison, New Jersey 08837

RE: Construction Complete and First Round Injection Assessment Report
Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York 13619
Site ID NYD986965333/Spill ID 02QF

Mr. Bechtel:

Enclosed is the Construction Complete Report for the above referenced location. Site work was performed from August through September 2016 and included a baseline groundwater sampling event, the installation of sixty-six (66) injection points, completion of a sodium persulfate injection event, and groundwater monitoring.

Please contact the undersigned with any questions.

Sincerely,
Matrix Environmental Technologies Inc.

Christine Curtis	Nicholas Minute	Sean R. Carter, P.E.
Project Engineer	Senior Project Manager	Principal Engineer

Enclosure

cc: Jeff Catanzarita, USEPA
Dan Kowalski, Guardian Environmental Services
Jay Romano, Redox Tech NE

CONSTRUCTION COMPLETE
And
FIRST ROUND INJECTION
ASSESSMENT REPORT

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York 13619
Site ID NYD986965333
Spill ID 02QF

November 3, 2016

PREPARED FOR:

USEPA Region 2

Mr. Jeff Bechtel
2890 Woodbridge Avenue
Edison, New Jersey 08837

PREPARED BY:

MATRIX
ENVIRONMENTAL TECHNOLOGIES INC.

Christine Curtis
Project Engineer

Nicholas Minute
Senior Project Manager

Sean R. Carter, P.E.
Principal Engineer

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1.0 INTRODUCTION

Matrix Environmental Technologies Inc. ("METI") and Redox Tech NE were contracted to coordinate, execute, supervise, and document the installation of sixty-six (66) injection points in bedrock and to complete a sodium persulfate injection in bedrock and overburden for *in situ* chemical oxidation (ISCO) at the Crown Cleaners Superfund Site ("Site"). The injection event began on August 30 and continued through September 14, 2016. METI and Redox Tech NE were also authorized to complete baseline and post-injection sampling of VOCs and MNA parameters and sampling of select monitoring wells for field MNA parameters during the injection.

1.1 Scope of Work Summary

The overall goal of the remedial program is to obtain reduce groundwater PCE concentrations to levels acceptable for closure of the Site. The scope of work includes:

1. Implementation of a full-scale ISCO injection system, including drilling and construction of injection points (IPs), to reduce all tetrachloroethene (PCE) concentrations greater than 50 micrograms per liter (□g/L) in groundwater to 50 □g/L within the Area of Concern (AOC).
2. Injection of sodium persulfate from the interface of soil/bedrock to specified bedrock depths as indicated by the groundwater PCE concentration data.
3. Groundwater monitoring during the injection and collection of pre- and post-injection groundwater samples to demonstrate remedial effectiveness. Sampling of select monitoring wells for total and dissolved metals to determine if metals are being mobilized in the aquifer during the ISCO remedy.

This report summarizes the methods and results of the injection point installation and subsequent groundwater monitoring and ISCO injection.

1.2 Site Background

The 9-acre Site is a former dry cleaning and laundry facility located in the Village of Herrings, Jefferson County on New York State Route 3. The Site is located approximately 300 feet south of the Village of Herrings' public water supply well and its southern border is adjacent to the Black River. A park is located to the east of the Site and residences are located to the north and west. The site is covered by a shaley to sandy glacial till as well as glacial lake and floodplain deposits (silts and fine sands). Bedrock exposures are common throughout the area and the thickness of overburden is generally less than 10 feet. The bedrock is described as interbedded limestone, dolomitic limestone, and dolomitic sandstone to a depth ofapproximately 140 feet below ground surface (bgs).

The more elevated occurrences of PCE are generally present in the former filter storage area/rubble pile and the solvent delivery/storage/usage area sources, near the western corner of the large building that was recently demolished on the property. PCE has migrated into the

groundwater from this area[1].

1.3 Site Hydrogeology

The bedrock hydrogeology is characterized by the existence of four units, Upper Carbonate, Middle Carbonate, Lower Carbonate, and Fractured Granitic Gneiss Units. The upper part of the Site hydrogeologic unit, the Upper Carbonate Unit, consists of an unconfined, fractured unit with low permeability that is subject to seasonal variations. The Middle Carbonate Unit is a dense, massive, very low to no permeability unit, which appears to behave as a semi-confining to confining unit. Below this unit is a confined Lower Carbonate unit that provides water resources to the local area. The deepest unit evaluated during the remedial investigation was the Fractured Granitic Gneiss unit, which underlies the Lower Carbonate unit. Groundwater in the Upper Carbonate unit primarily flows in a south-southwesterly direction along bedding planes partings, with secondary flow through fractures and joints. In the Lower Carbonate and Granitic Gneiss units, groundwater flow is controlled by secondary porosity through enlarged bedding planes and fractures. Groundwater in both of these units flows in a south-southwesterly direction and eventually discharges to the Black River[2].

2.0 REMEDIATION METHODS

2.1 Injection Point Construction

Three vertical injection point designs were employed:

- forty-three (43) shallow IPs screened from the top of bedrock to a depth of 30 feet below ground surface (bgs);
- nineteen (19) nested IPs screened through both the intermediate and deep PCE plume from a depth of 30 to 75 feet bgs; and
- four (4) nested IPs screened through both the shallow and intermediate PCE plume from top of bedrock to a depth of 30 to 55 feet bgs.

The shallow IPs were screened to intersect the more fractured upper carbonate unit. The intermediate and deep nested IPs are designed to treat both the intermediate and deep plumes which are in the same middle carbonate unit with little fracturing and a potential bedding plane at a depth of 40 to 50 feet bgs. They include two (2) separate injection points in a single borehole, with screened intervals of 30 to 55 feet and 60 to 75 feet bgs. Grout from a depth of 55 to 59 feet bgs separates the two screened intervals. The screen intervals of the shallow and intermediate nested IPs are similarly separated with a layer of grout from a depth of 30 to 34 feet bgs. The shallow and intermediate IPs were added to the design after approval of the Work Plan based on laboratory analytical results from newly installed monitoring wells ERT-46S and ERT-46I.

[1]Guardian Environmental Services, *Full-Scale In-Situ Chemical Oxidation Technical Statement of Work* (June 22, 2016).
[2] Tetra Tech EC, *Final Remedial Investigation Report.*

The injection points were installed utilizing a total of five (5) drill rigs. NYEG Drilling of Brewerton, NY operated track-mounted Diedrich D120 and CME850 air-rotary rigs that were assigned to installation of shallow in IPs only. Nothnagle Drilling of Scottsville, NY operated a track-mounted CME55 hollow-stem auger rig and a Furukawa hydraulic rig assigned to installation of the shallow IPs and a Versadrill 1070/350 for installation of the intermediate and deep IPs. Hollow stem auger drilling was used to set the steel casings at all shallow IP locations and the nested wells that are only cased through the overburden. Air rotary drilling was used for drilling in bedrock. Drill cuttings and groundwater were containerized during drilling and staged on-site for future disposal by others.

Once the total depth of each point was reached, compressed air was used to bring rock fragments to the surface and develop the open corehole before inspecting select borings with a down-hole camera and installing the IPs. Once the tooling was removed from the borehole, the PVC was set to the bottom and sand pack carefully poured while depth was measured, to cover the screened interval without bridging. Bentonite and grout were then applied to prevent upflow of injected oxidant into the overburden and minimize the potential for oxidant to flow from the shallow to the nested IPs and vice versa. Steam cleaners were utilized to decontaminate equipment following the installation of each IP.

2.2 Sodium Persulfate Injection

Injection of base activated sodium persulfate was performed by Redox Tech NE through forty-three (43) shallow bedrock injection points, nineteen (19) nested intermediate/deep injection points, and four (4) nested shallow/intermediate injection points. Two Sandpiper pumps connected to separate polyethylene tanks (500-gallon capacity) with sections of 3-inch diameter hose were used to perform the injection. Each tank/pump pair injected solution into separate wells through 1-inch diameter pressure rated hose. Fittings were attached to the wells using PVC cement.

To prepare the sodium persulfate solution, 300 gallons of water were added to each tank before the addition of the sodium persulfate. Once all chemicals and water were added, the solution was mixed using an electric rotary propeller. After the solution was thoroughly mixed, the pump was attached to the well and activated, and adjusted to the target injection rate. Additional mixing was occasionally performed during the injection to ensure chemicals remained in solution. Once the required volume of solution was injected into the target well, the pump was deactivated and a rest period was used to ensure that there was no back pressure before the injection hose was disengaged from the target well. During operations, the injection equipment was visually inspected for leaks on a regular basis.

Where daylighting occurred, injection was ceased and the equipment moved to a new injection point. Injection was resumed on points with daylighting to complete injecting the required volume after a resting period. In some wells, no injection could be performed due to no flow from a lack of bedrock fracturing. The remaining oxidant was injected into shallow wells in the center of the PCE plume. Injection was also performed in twenty-four (24) locations in the center of the

PCE plume using a Geoprobe® to address contamination present at the overburden/bedrock interface.

2.3 Groundwater Monitoring

Groundwater monitoring was performed prior to and during the injection in accordance with the approved Work Plan and Groundwater Monitoring Plan. Groundwater samples were obtained from a total of 43 onsite monitoring wells and analyzed for monitored natural attenuation (MNA) parameters in the field. Field MNA parameters included dissolved oxygen (DO) concentrations, oxidation-reduction potential (ORP), pH, temperature, turbidity and conductivity. During the injection, sampling for field MNA parameters was performed in monitoring wells upgradient of, near, and downgradient of the active injection points. Baseline samples were also collected from select wells prior to injection and submitted for laboratory analysis of chemical MNA parameters, metals, and volatile organic compounds (VOCs).

Prior to sampling, groundwater elevations were measured in each monitoring well using a Solinst Model 122 Interface Meter. If necessary, the passive diffusion bag samplers were removed and their contents transferred to containers for VOC analysis. The well was then purged of three well volumes, or evacuated if three well volumes could be removed, using a submersible Whale pump. Liquid levels in the well were then allowed to return to 50-75% of the initial level. A YSI 556 Multifunction Water Quality Meter and a Hach Model 2100Q turbidity meter were used to collect the field MNA data. Depending on the diameter of the monitoring well and the depth of the screened interval, the probes of the multifunction meter were lowered into the well or a sample was obtained using the Whale pump and brought to the surface for analysis. Samples were then collected from select wells for metals and chemical MNA parameters. Samples analyzed for dissolved metals were collected using an in-line 1-micron pre-filter followed by a disposable 0.45-micron filter. Samples were delivered under chain-of-custody protocol to SGS Accutest Laboratories in Marlborough, MA.

3.0 RESULTS

3.1 Injection Point Construction and Geophysical Logging

During drilling, bedrock was encountered at 1.5 to 7.5 feet bgs. The IPs are constructed of two-inch I.D. SCH40 PVC with threaded connections, 0.020-inch machine slotted well screen and sand filter pack. They are isolated from overburden soils by four-inch (shallow) or six-inch (nested) I.D. steel casing from the top of bedrock to a depth of approximately three feet above ground surface. Eleven (11) of the nested wells were drilled through the core of the shallow PCE plume (5,000 µg/L) and have steel casing to a depth of 25 feet bgs. Sand pack extends to one foot above the top of the screen followed by two feet of granular bentonite and grout to near ground surface. Injection point construction details are included in Attachment A.

Geophysical logging was completed in IP2D, IP3D, IP5D - IP10D, IP44D, IP45D, IP8S and IP18S. Fractures were identified in shallow wells from approximately 10-25 feet bgs and less frequently in the deep wells, with horizontal bedding fractures generally detected from

approximately 48-68 feet bgs. This is consistent with observations made during previous geophysical logging events. For additional details, refer to the Geophysical Reports included in Attachment B.

3.2. Sodium Persulfate Injection

Shallow Bedrock Zone

With a 26,000 square foot treatment area and a target thickness of 20 to 30 feet, 22,200 gallons of 26 wt% sodium persulfate solution was injected into the shallow IPs, starting with the outside points and progressing towards the center of the treatment area. The sodium persulfate was mixed with 25 percent weight (wt%) sodium hydroxide for activation and to buffer the groundwater. Due to the presence of preferential pathways and a lack of fractures in some areas of the Site, several injection points received no sodium persulfate. Injection was attempted and ceased in several injection points, particularly those located near the wetland, due to surfacing and daylighting of oxidant. As a result, each injection point received between 0 to 2,050 gallons of solution at flow rates ranging from approximately 1 to 10 GPM. Over 1,000 gallons were injected each into IP-1s, IP-3s, IP-4s, and IP-5s, IP-13s, IP-14s, and IP-16s located in center of the PCE plume.

Intermediate/Deep Bedrock Zone

With a 12,000 square foot treatment area and a target thickness of 30 to 75 feet, 605 gallons of 26 %wt sodium persulfate solution was injected into the intermediate/deep nested IPs, starting with the outside points and progressing towards the center of the treatment area. The sodium persulfate was mixed with 25 wt% sodium hydroxide for activation and to buffer the groundwater. Similar to the shallow IPs, injection could not be completed in several intermediate and deep IPs. Of the IPs that received sodium persulfate, each intermediate IP received 10 to 25 gallons, and each deep IP received 10 to 50 gallons, with IP-9D receiving 365 gallons. Injection was performed at a flow rate of less than 10 gallons per minute (GPM).

Shallow/Intermediate Bedrock Zone

A total of 825 gallons of 26 wt% sodium persulfate solution was injected into IP-44i, IP-45i, and IP-47i. No sodium persulfate was injected into the nested shallow points or IP-46i due to a lack of fracturing.

Overburden Zone

A total of 9,030 gallons of 26 wt% sodium persulfate solution was injected at the overburden/bedrock interface through twenty-four (24) Geoprobe points. Each point received 200-400 gallons of solution at flow rates ranging from approximately 5-9 GPM.

3.3 Groundwater Monitoring

MNA data collected in the field during the injection indicates that sodium persulfate was successfully dispersed throughout treatment area. Significant increases in ORP were observed in shallow bedrock wells in the center of the PCE plume – ERT-33s, ERT-34s, ERT-42s, and MW-11 – as well as monitoring wells upgradient and downgradient of the shallow injection points. In the four monitoring wells with the highest historical PCE concentrations, average groundwater

ORP increased from -32 mV to 343 mV. Significant changes in pH were not observed, which indicates a low potential for mobilization of metals.

Although a lower volume of sodium persulfate was injected in the intermediate and deep bedrock injection points, increases in ORP were also observed in the intermediate and deep monitoring wells, suggesting that oxidant injected in the overburden and shallow bedrock injection points is being transported vertically via flow through bedrock fractures. In particular, ORP levels in ERT-34i and ERT-34d located in the center of the intermediate and deep PCE plume increased from -64.1 to 337 mV and from -18.5 to 340 mV, respectively. Refer to Table 1 for a summary of field MNA data.

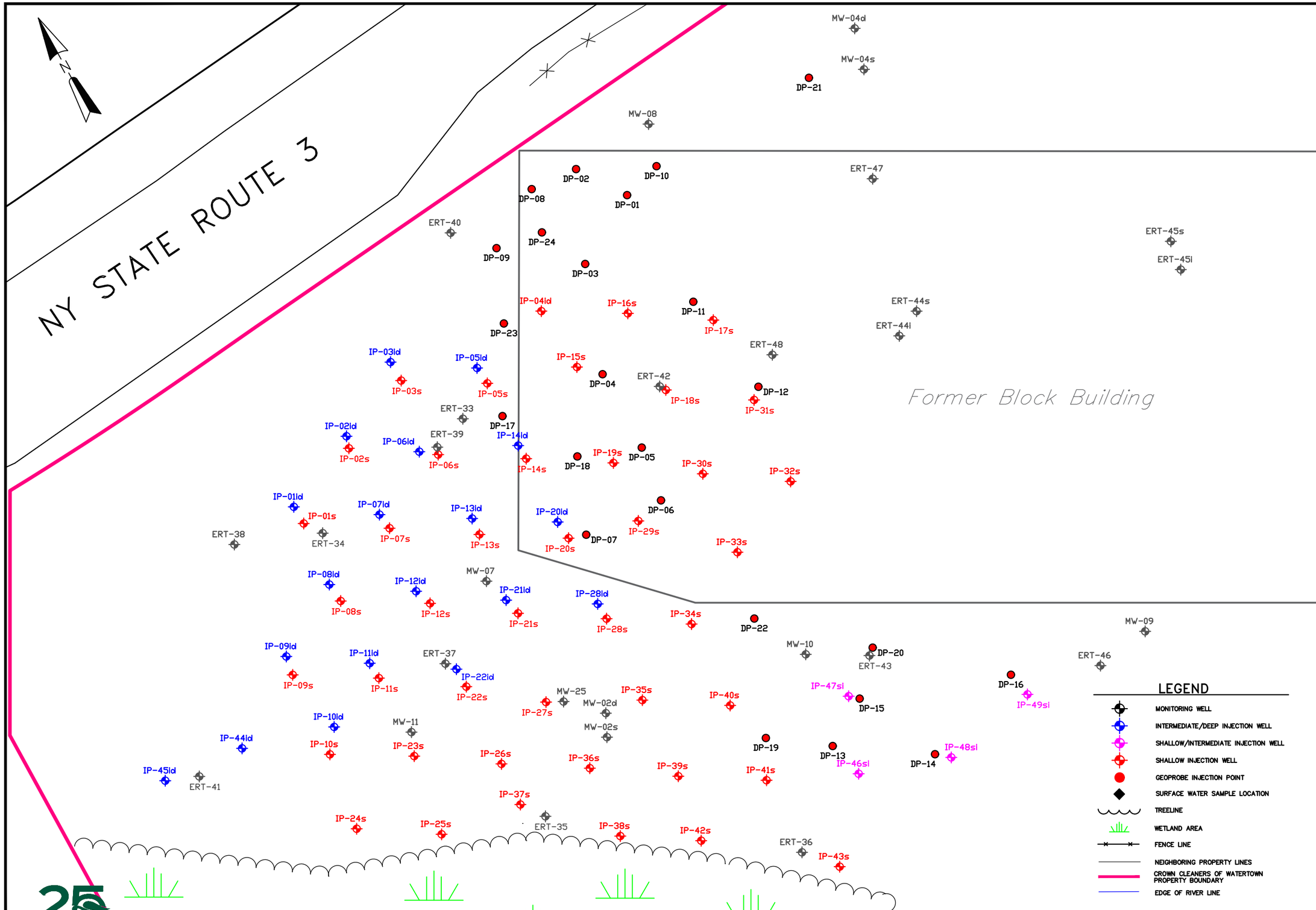
Baseline PCE and VOC data collected in August by METI and EPA is summarized in Tables 2 and 3. The results are consistent with previous sampling events, with the highest PCE concentrations present in the shallow bedrock zone in ERT-33s and ERT-42s. Groundwater PCE concentrations were generally lower in magnitude in the intermediate and deep bedrock zones and were most elevated in the ERT-41 and ERT-34 well pairs.

Baseline metals and chemical MNA data will be compared with analytical results of post-injection samples. An increase in metals concentrations would suggest that metals were mobilized as a result of the injection. It is anticipated that increases in groundwater sulfate and sulfide concentrations and decreases in electron acceptor concentrations will occur as microbial activity is stimulated as a result of the sodium persulfate injection. Groundwater metals concentrations are summarized in Table 4 and chemical MNA data is summarized in Table 5.

4.0 SUMMARY AND CONCLUSIONS

Site activities completed from August through September 2016 included the installation of sixty-six (66) injection points in bedrock, the completion of a sodium persulfate injection in bedrock and overburden, and groundwater monitoring before and during the injection. The scope of work was completed successfully and MNA data collected in the field during the injection indicates that sodium persulfate was dispersed throughout the AOC. Post-injection groundwater monitoring will include sampling of select monitoring wells for VOCs, chemical and field MNA parameters, and total and dissolved metals and will provide further insight on the efficacy and effectiveness of the injected sodium persulfate.

FIGURES



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PROJECT MGR: N. Minute

DESIGNED BY: J. Romano/S.Carter

REVIEWED BY:

DRAWN BY: N. Minute

REVISION	
BY	DATE
NSM	9/30/16

SCALE IN FEET: 1" = 25'
0 25

PROJECT NAME / LOCATION:

FORMER CROWN CLEANERS
35983 NYS ROUTE 3
CARTHAGE, NY 13619

TITLE:

SITE PLAN WITH INJECTION POINT LOCATIONS

DATE: N/A

PROJECT NO.: 16-048

FIGURE: 1

25 years dedicated to a CLEANER ENVIRONMENT 1991-2016

TABLES

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-25	8/30/2016	08:35:00	5.68	5.12	131.6	16.2	1.12	14.6	7.36
ERT-33D	8/18/2016	12:00:00	31.91	5.27	-35.6	9.24	3.4	23	7.83
	9/6/2016	13:21:00	4.91	16.05	-124.6	9.53	3.4		7.73
	9/7/2016	08:00:00	32.98	11.46	-114.6	9.68	3.42	33.6	7.97
	9/7/2016	16:00:00	32.10	2.81	-118.6	9.46	3.43	66	7.94
	9/8/2016	08:00:00	31.73	1.92	-81.7	9.17	3.08	17.4	7.60
	9/9/2016	08:00:00	31.60	5.14	-88.2	9.4	3.41	44.6	7.51
	9/12/2016	10:00	31.08	2.16	-58.1	4.62	3.41	14.5	7.52
	9/12/2016	16:00	31.11	3.3	-38.8	9.37	3.24		7.66
	9/13/2016	12:00	30.91	5.31	244.9	9.49	2.96		7.49
	9/14/2016	12:00	30.76	8.44	228.5	9.63	3.03	15.5	7.55
	9/21/2016	12:00	29.33	2.44	306.8	9.37	4.06	27.6	7.11
	9/28/2016	12:00	32.12	2.87	302.9	9.53	4.73	18.4	7.13
ERT-33I	8/18/2016	12:00:00	26.73	7.61	-35.4	9.73	2.74	62.5	7.48
	9/6/2016	13:14:00	5.65	5.36	-54.7	9.7	1.92	106	7.40
	9/7/2016	16:00:00	26.73	3.83	-60.5	9.51	1.99	196	7.45
	9/7/2016	08:00:00	26.88	1.57	-53.6	10.18	2.15	30.2	7.46
	9/8/2016	08:00:00	26.98	9.08	-11.1	10.27	2.24	21.7	7.43
	9/9/2016	08:00:00	26.65	12.77	162.7	9.83	2.14		7.53
	9/12/2016	10:00	26.41	2.85	245.3	9.86	2.37	47.1	7.16
	9/12/2016	16:00	27.51	4.69	106.8	9.75	2.37		7.84
	9/13/2016	12:00	26.35	4.02	257.3	9.89	2.85		7.15
	9/14/2016	12:00	26.33	8.25	239.3	9.84	3.09	110	7.21
	9/21/2016	12:00	25.79	4.23	310.6	9.94	3.59	18.2	6.94
	9/28/2016	12:00	25.91	3.02	305.2	10.07	4.21	14.6	6.87
ERT-33S	8/17/2016	12:00:00	3.57	2.84	8.21	16.3	1.05	19.2	8.25
	8/31/2016	15:50:00	5.10	1.48	186.6	14.21	2.98	18.7	8.69
	9/1/2016	17:10:00	3.70	7.72	270.3	13.71	3.34	14.3	7.48
	9/1/2016	08:10:00	4.96	3.1	309.7	18.8	0.78	13.1	8.08
	9/6/2016	13:08:00	4.06	3.51	175.2	14.1	0.87	12.6	8.01
	9/7/2016	08:00:00	3.79	3.76	178.9	12.61	0.86	4.64	7.48
	9/7/2016	16:00:00	4.91	5.72	144.9	13.77	6.51	13.2	7.09
	9/8/2016	08:00:00	4.46	11.76	160.3	14.14	3.52		7.15
	9/9/2016	08:00:00	4.66	5.51	230.6	13.34	4.77	10.7	7.24
	9/12/2016	10:00	4.7	16.9	279.9	14.02	8.62	20	6.68
	9/12/2016	16:00	4.09	2.83	213.4	13.96	8.44		6.99
	9/13/2016	12:00	3.393	3.5	283.1	13.73	9.47		6.73
	9/14/2016	12:00	4.36	7.45	262.7	13.77	10.16	13	6.87
	9/21/2016	12:00	5.03	2.03	360.3	14.02	28.37	11.7	6.37
	9/28/2016	12:00	5.78	3.18	339.4	14.38	29.98	12.3	6.39
ERT-34D	8/18/2016	12:00:00	26.98	3.78	-18.5	9.09	1.4	20.9	7.68
	9/6/2016	14:25:00	27.19	11.07	277.3	9.4	1.86	14.2	7.82
	9/7/2016	16:00:00	27.03	5.82	260.4	9.4	1.33	37.8	7.64
	9/7/2016	08:00:00	26.81	12.82	267.1	10.1	1.41	16.3	7.69
	9/8/2016	08:00:00	26.81	5.76	234.5	9.21	1.4	15.8	7.95
	9/9/2016	08:00:00	11.56		286.9	9.55	1.39		7.88
	9/12/2016	10:00	27.04	4.14	298.3	9.13	1.4	17.3	7.52
	9/12/2016	16:00	27.09	4.7	101.3	9.14	1.36		7.72
	9/13/2016	12:00	27.02	4.29	293.1	9.61	1.42		7.69
	9/14/2016	12:00	26.92	4.07	286.1	9.32	1.46	18.7	7.53
	9/21/2016	12:00	25.18	2.78	339.2	9.36	2.66	13.7	7.23
	9/28/2016	12:00	27.73	4.11	340.1	9.26	3.26	15.6	7.22

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-34I	8/18/2016	12:00:00	39.14	11.21	-64.1	9.51	1.86	73.7	7.34
	9/6/2016	14:22:00	39.31	5.52	295.5	10	1.84	17.6	7.54
	9/7/2016	16:00:00	39.74		281.6	9.44	1.84		7.50
	9/7/2016	08:00:00	28.19	3.26	286.3	10.04	2.94	41.3	7.65
	9/8/2016	08:00:00	11.52	7.96	247.1	9.12	1.86	19	7.67
	9/9/2016	08:00:00	29.13	9.84	300.8	9.37	1.8	21.2	7.32
	9/12/2016	10:00	38.82	3.32	309.8	9.48	1.89	62.1	7.28
	9/12/2016	16:00	38.84	4.39	63.1	9.78	1.85		7.78
	9/13/2016	12:00	38.81	4.23	308.3	10.04	1.88		7.39
	9/14/2016	12:00	38.73	4.81	328.7	9.87	1.87	48.1	7.38
	9/21/2016	12:00	38.22	1.74	338.7	9.62	1.93	14.5	7.28
	9/28/2016	12:00	37.82	3.34	337	9.89	1.84	17.1	7.05
ERT-34S	8/17/2016	12:00:00	7.98	6.51	-31.4	11.02	26.56	38.3	6.77
	8/31/2016	14:25:00	6.80	3.93	135.6	11.53	26.73	42.4	6.70
	8/31/2016	13:50:00	6.80	2.01	176.3	108.4	26.92		6.72
	9/1/2016	08:05:00	7.97	3.4	312.6	10.71	26.51	64.3	6.67
	9/1/2016	16:55:00	8.30	3.17	291.3	11.25	26.27	25.3	6.53
	9/6/2016	14:19:00	8.11	8.24	373.8	16.5	2.28	41.6	7.86
	9/7/2016	16:00:00	8.08	5.54	382.5	12.9	1.04	24.1	8.06
	9/7/2016	08:00:00	6.83	5.71	376.3	16.2	1.04	26.2	8.16
	9/8/2016	08:00:00	10.68	9.2	328.2	12.5	3.55	162	8.26
	9/9/2016	08:00:00	6.63	6.42	362.5	12	2.71	69.6	7.52
	9/12/2016	10:00	8.33	1.97	378.7	11.34	27.71	45.8	6.43
	9/12/2016	16:00	8.82	2.06	352.1	11.82	26.97		6.61
	9/13/2016	12:00	9.08	3.77	364.1	11.21	29.16		6.61
	9/14/2016	12:00	9.32	7.05	377.8	11.09	28.02	34.3	6.9
	9/21/2016	12:00	9.2	2.95	393.1	11.31	38.94	26.6	6.62
	9/28/2016	12:00	9.58	2.91	384.1	11.43	41.62	21.2	6.26
ERT-35D	8/18/2016	12:00:00	18.27	3.52	-30.5	8.4	0.36	15.8	8.04
	9/6/2016	13:59:00	24.86	4.07	151.6	8.44	0.31	13.3	7.90
	9/7/2016	08:00:00	23.92	6.44	107.1	8.38	0.31	15.1	8.03
	9/8/2016	08:00:00	24.36	5.26	257.1	8.41	0.31	13.1	7.90
ERT-35I	8/17/2016	12:00:00	39.22	2.77	-64.1	9.21	1.69	8.2	7.44
	9/6/2016	13:54:00	17.27	2.49	-14.6	9.4	1.73	22.2	7.56
	9/7/2016	08:00:00	39.24	2.68	111.3	9.68	1.85	93.2	7.63
	9/8/2016	08:00:00	39.24	2.43	271.5	9.24	1.72	18.2	7.91

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-35S	8/17/2016	12:00:00	7.30	6.81	86.8	15.6	0.97	19.4	7.68
	8/30/2016	08:30:00	8.58	5.24	125	14.1	0.77	27.2	7.54
	8/30/2016	07:25:00	7.22	6.17	215.2	10.38	0.96	7.4	6.72
	8/30/2016	09:32:00	7.08	6.05	101.5	9.63	2.52	7.5	7.51
	8/30/2016	18:30:00	7.76	1.76	212.3	15.29	0.99	31.6	7.58
	8/30/2016	10:25:00	7.93	1.59	115.2	15.5	1.01	26.3	7.60
	8/30/2016	13:15:00	8.36	7.76	138.9	15.7	0.98	28.6	7.67
	8/31/2016	16:45:00	7.35	6.21	299.8	16.3	0.98	24.6	7.69
	8/31/2016	12:00:00	7.32	7.48	288.4	12.9	2.3	11.6	7.43
	8/31/2016	09:50:00	7.03	4.63	356.4	10.29	2.84	15.9	7.01
	9/1/2016	07:45:00	7.13	6.31	354.8	11.9	3.11	27.4	6.91
	9/1/2016	16:40:00	7.07	2.67	287.3	15.4	0.96	14.6	6.78
	9/6/2016	13:56:00	6.97	2.65	185.7	15.6	1	26.6	7.51
	9/7/2016	08:00:00	8.00	7.44	251.5	13.9	0.99	10.9	7.64
	9/8/2016	08:00:00	7.23	6.85	290.8	14.5	6.98	21.8	8.05
ERT-36D	9/6/2016	12:30:00		3.48	262.4	8.53	0.95	8.18	7.70
	9/7/2016	08:00:00	16.99	3.77	-86.4	8.24	0.95	6.8	7.94
	9/8/2016	08:00:00	16.88	12.33	-58.3	9.57	0.83	4.2	7.51
	9/9/2016	08:00:00	16.87	3.36	-94.3	8.26	0.94	11.7	7.50
	9/12/2016	10:00	16.73	2.49	-69.3	8.28	0.91	5.92	7.41
	9/12/2016	16:00	16.87	1.96	-56.6	8.29	0.92		7.44
	9/13/2016	12:00	16.81	2.74	-82.8	8.39	0.89		
	9/14/2016	12:00	16.8	4.81	-72.9	8.33	0.93	8.27	7.65
	9/21/2016	12:00	16.58	2.47	-80.2	8.33	0.97	19.7	7.42
ERT-36I	8/18/2016	12:00:00	17.12	10.75	79.7	10.9	1.79	21.8	7.66
	9/6/2016	12:35:00	16.91	1.42	262.6	8.86	2.06	12.3	7.86
	9/7/2016	08:00:00	16.92	3.86	-115.1	8.25	2.06	19.5	7.37
	9/8/2016	08:00:00		5.45	-63.4	8.52	2.06	9.7	7.72
	9/9/2016	08:00:00	16.96	2.81	-109.1	10.01	1.78	9	8.04
	9/12/2016	10:00	23.51	2.84	-78.2	8.46	2.08	13.2	7.5
	9/12/2016	16:00	24.56	1.72	-63.3	8.28	2.03		7.85
	9/13/2016	12:00	23.44	1.53	-93.6	8.7	2.03		8.79
	9/14/2016	12:00	23.44	3.49	-77.6	8.87	2.03	16.8	7.82
	9/21/2016	12:00	23.21	2.81	-73.8	8.47	2.01	22.6	7.37
	9/28/2016	12:00	22.84	2.76	-115.2	8.81	2.05	18.4	7.35
ERT-36S	8/18/2016	12:00:00	6.61	3.01	79	17.4	3.23	48.4	
	8/30/2016	09:15:00	6.61	1.66	108.9	17.3	1.19	38.2	7.42
	8/30/2016	09:55:00	6.73	5.81	118.4	15.4	1.21	36.1	7.26
	8/30/2016	07:15:00	8.21	2.05	238.1	17.8	1.16	32.1	7.07
	8/30/2016	08:25:00	3.91	3.46	124.1	18	1.21	98.7	7.21
	8/30/2016	15:15:00	6.64	1.16	321.8	16.1	1.24	48.3	7.20
	8/30/2016	15:50:00	6.79	2.56	346.1	14.5	21.96	30.4	6.83
	8/30/2016	10:45:00	7.09	0.88	111.5	17.56	12.01	36.4	7.31
	8/31/2016	12:15:00	6.44	1.72	281.3	11.5	2.06	61.4	7.28
	8/31/2016	09:45:00	6.46	1.27	290.5	16	16.6	58.2	7.15
	8/31/2016	16:30:00	6.46	4.86	398.2	14.5	17.79	58.2	7.38
	9/1/2016	07:30:00	6.31	2.34	343.2	16.9	0.9	40.1	7.28
	9/1/2016	16:30:00	7.32	3.16	341.1	16.2	1.95	49.1	
	9/6/2016	12:20:00	6.48	1.28	284.7	18.7	8.61	36.9	7.39
	9/7/2016	08:00:00	7.24	6.92	400.4	18.1	21.76	13.9	6.60
	9/8/2016	08:00:00	6.51	2.16	571.6	10.84	2.34	27.4	7.18
	9/12/2016	10:00	7.39	1.07	484.2	10.35	21.51	9.33	6.94
	9/12/2016	16:00	8.68	1.65	358.4	10.67	21.44		7.31
	9/13/2016	12:00	8.72	1.53	336.2	10.59	30.35		8.79
	9/14/2016	12:00	8.68	2.58	347.7	10.58	30.46	24.1	8.5
	9/21/2016	12:00	7.7	1.23	451.7	10.34	33.81	33.8	6.59
	9/28/2016	12:00	8.12	1.8	378.5	10.22	32.04	21.6	6.67

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-37D	8/24/2016	12:00:00	4.24	1.69	191.6	12.5	1.75	10.7	7.14
	9/6/2016	14:13:00	4.42	7.44	-106.4	8.87	123		7.84
	9/7/2016	08:00:00	5.74	2.28	-123.4	8.84	1.77	31.5	7.89
	9/7/2016	16:00:00	4.16	1.62	-135.1	8.82	0.85		7.99
	9/8/2016	08:00:00	4.93	10.7	-89.1	8.83	1.78	6.3	7.47
ERT-37I	8/17/2016	12:00:00	9.97	1.94	56.5	9.25	0.97	13.2	7.43
	9/6/2016	14:10:00	3.80	5.26	281.3	9.32	0.96		7.42
	9/7/2016	16:00:00	8.62	9.26	344.2	11.7	1.75	28.4	7.82
	9/7/2016	08:00:00	9.17	3.23	322.1	9.31	0.76		7.44
	9/8/2016	08:00:00	3.66	8.41	293.1	9.29	0.91	14.8	7.07
ERT-37S	8/17/2016	12:00:00	6.51	2	-9.4	8.61	1	18.4	7.48
	8/31/2016	11:50:00	4.02	6.24	258.3	12.5	37.35	10.2	6.16
	8/31/2016	14:20:00	6.53	1.78	113.4	13.85	0.85	17.7	6.11
	8/31/2016	13:25:00	8.14	2.25	197.4	18.2	35.07	0.73	7.70
	9/6/2016	14:07:00	6.28	2.87	414.6	18	1.11	34.3	7.59
	9/7/2016	16:00:00	4.08	3.39	426.7	14.4	0.98		7.46
	9/7/2016	08:00:00	6.84	1.68	419.4	12.56	36.98	170	6.05
	9/8/2016	08:00:00	4.08	2.77	361.5	18.6	35.42		6.24
ERT-38I	8/18/2016	12:00:00	2.82	2.24	123.9	10.06	2.61	6.3	7.42
	9/6/2016	14:35:00	5.85	3.47	55.9	10.1	17.3	21.8	7.30
	9/7/2016	08:00:00	2.94	12.81	122.6	13.1	2.03	18.2	7.43
	9/8/2016	08:00:00	2.64	1.01	237.1	9.96	1.86		7.40
	9/9/2016	08:00:00	5.83		285.9	9.91	1.87	34	7.40
	9/12/2016	10:00	5.89	2.56	295.2	10.03	1.86	4.67	7.32
	9/13/2016	12:00	5.94	2.96	264.1	10.14	1.86		7.35
	9/14/2016	12:00	5.96	4.11	307.4	9.99	1.76	11.3	7.46
	9/21/2016	12:00	6.01	2.46	303.8	10.37	1.88	24.9	7.27
	9/28/2016	12:00	7.98	3.91	329.3	10.26	1.84	21.7	7.28
ERT-38S	8/18/2016	12:00:00	2.08	1.39	123.6	13.5	2.05	75.2	7.60
	8/31/2016	15:45:00	3.51	11.01	193.9	15.71	3.18	13.6	7.30
	9/1/2016	08:55:00	2.90		204.7	15.21	2.07	29.6	7.13
	9/1/2016	18:00:00	4.71	3.52		18.9	2.11		7.53
	9/6/2016	14:33:00	2.05		-7.8	15.8	2.01	8.1	7.45
	9/7/2016	08:00:00	2.21	0.78	111.4		2.61	32.6	7.44
	9/8/2016	08:00:00	2.71	1.46	240.2	15.47			7.48
	9/9/2016	08:00:00	2.85	1.56	288.1	14.11	2.07	11.6	
	9/12/2016	10:00	2.77	2.47	305.5	14.86	4.24	6.84	7.11
	9/13/2016	12:00	2.51	3.97	307.1	15.04	4.72		7.1
	9/14/2016	12:00	2.42	4.06	304.1	16.01	2.14	9.23	7.51
	9/21/2016	12:00	2.82	2.6	340.7	15.05	4.93	21.3	6.98
	9/28/2016	12:00	4.03	4.26	342.7	15.01	4.71	19.9	6.97

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-39D	8/18/2016	12:00:00	0.00	6.41	-182.1	10.4	1.38	68.1	9.00
ERT-39I	8/18/2016	12:00:00	86.11	4.02	-148.8	11.3	2.98	52.8	7.70
ERT-40D	8/17/2016	12:00:00	13.28	7.31	36.1	9.48	0.53	6.1	7.87
	9/6/2016	13:04:00	13.38	7.02	-8.7	9.46	0.26	9.6	7.94
	9/7/2016	08:00:00	13.38	3.66	-54.5	12.5	0.23	25.2	7.87
	9/8/2016	08:00:00	13.31	2.55	-43.7	9.61	0.35	6.28	8.36
	9/9/2016	08:00:00	13.34	2.89	-42.7	9.78	0.23	11.4	7.93
	9/12/2016	10:00	13.32	2.05	-44.6	9.46	0.23	4.56	7.8
	9/13/2016	12:00	13.41	2.88	-38.3	9.48	0.23		7.91
	9/14/2016	12:00	13.42	6.27	-26.9	9.57	0.36	6.72	7.61
	9/21/2016	12:00	13.49	3.45	44.1	9.51	0.24	11.1	7.75
	9/28/2016	12:00	13.58	4.22	92.1	9.42	0.34	9.92	7.74
ERT-40I	8/18/2016	12:00:00	15.55	1.83	-64.3	10.22	2.08	17.3	7.44
	9/6/2016	12:59:00	14.79	9.28	-90.5	9.91	2.09	6.2	7.91
	9/7/2016	08:00:00	11.33	7.39	-102.7	9.62	1.85	11	7.62
	9/8/2016	08:00:00	10.19	1.92	-91.2	9.5	20.54	147	7.73
	9/9/2016	08:00:00	11.33	5.44	-84.3	9.74	1.57	12.1	7.48
	9/12/2016	10:00	12.66	1.89	-81	9.79	2.05	8.45	7.37
	9/13/2016	12:00	12.38	3.92	-78.8	9.85	2.11		7.45
	9/14/2016	12:00	12.78	6.96	-64.3	9.91	2.76	11.3	7.39
	9/21/2016	12:00	11.54	2.6	63.4	9.7	2.36	12.3	7.21
	9/28/2016	12:00	12.74	4.25	129.3	9.73	2.49	10.34	7.29
ERT-40S	8/17/2016	12:00:00	10.24	5.76	187.3	14.89	0.69	5.3	8.08
	9/1/2016	10:30:00	9.28	3.85	219.1	14.41	0.57	11.8	7.67
	9/1/2016	17:20:00	9.28	10.17	264.4	14.5	0.57	7.2	7.82
	9/6/2016	12:56:00	10.25	1.61	205.2	14.5	0.62	6.3	7.62
	9/7/2016	08:00:00	10.33	2.11	138.4	14.83	0.65	12.7	7.80
	9/8/2016	08:00:00	10.77	9.27	203.6	14.62	22.47	25.7	6.59
	9/9/2016	08:00:00	11.39	4.31	396.6	14.2	0.46	48.5	7.73
	9/12/2016	10:00	10.73	2.08	349.4	15.21	17.28	7.8	6.5
	9/13/2016	12:00	11.26	5.34	354.1	15.13	19.21	6.56	
	9/14/2016	12:00	11.54	4.87	382.4	14.61	21.43	24.9	6.94
	9/21/2016	12:00	11.37	1.43	387.2	14.64	29.1	10.7	6.44
	9/28/2016	12:00	11.23	3.88	262.7	14.07	5.46	8.86	7.12
ERT-41D	8/18/2016	12:00:00	20.83	4.17	-106.4	8.69	1.09	12.1	8.05
	9/6/2016	14:47:00	20.73	4.14	71.9	8.62	1.03	11.9	8.40
	9/7/2016	16:00:00	20.72	8.04	85.4	8.79	1.07	39.4	8.37
	9/7/2016	08:00:00	13.72	2.63	-141.4	11.3	1.38		7.31
	9/8/2016	08:00:00	10.88	6.33	195.9	8.66	1.25	16.6	8.03
	9/9/2016	08:00:00	20.74	8.14	206.6	8.69	1.06	12.3	8.26
	9/12/2016	10:00	20.61	3.59	16.2	8.53	1.05	6.79	8.51
	9/13/2016	12:00	20.62	4.97	-12.2	8.74	1.06	8.52	
	9/14/2016	12:00	11.6	3.87	-8.2	8.59	1.07	8.16	8.75
	9/21/2016	12:00	20.31	3.91	-56.8	8.59	1.06	7.92	8.87
	9/28/2016	12:00	21.91	3.04	-31.3	8.55	1.06	9.41	8.82

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-41I	8/18/2016	12:00:00	11.63	4.96	-10.3	9.19	1.01	13.7	8.12
	9/6/2016	14:44:00	13.37	2.83	-32.2	10.7	1.06	13.4	9.21
	9/7/2016	16:00:00	10.89	3.13	41.9	9.06	1.06	14.2	8.31
	9/7/2016	08:00:00	10.84	5.84	113.4	9.39	0.98	21.6	8.80
	9/8/2016	08:00:00	12.45	2.15	178.9	8.99	1.02		9.09
	9/9/2016	08:00:00	14.30	5.31	192.1	8.61	1.91	18.2	8.09
	9/12/2016	10:00	11.13	2.38	-98.7	9.15	1.21	8.31	9.04
	9/13/2016	12:00	11.93	2.61	-99.4	9.39	1.2		8.9
	9/14/2016	12:00	12.02	3.07	-110.6	9.1	1.19	12.7	9.45
	9/21/2016	12:00	11.35	4.29	-137.9	8.92	1.23	11.4	9.54
	9/28/2016	12:00	12.2	3.51	-140.5	9.09	1.24	11.8	9.45
ERT-41S	8/18/2016	12:00:00	11.61	7.88	-209.9	16.1	0.74	16.9	9.64
	8/31/2016	17:05:00	5.66	3.55	135.6	14.9	1.65	38.2	7.25
	8/31/2016	14:30:00	5.30	6.18	125.4	12.6	1.02	23.7	12.32
	8/31/2016	13:35:00	5.18	3.72	164.6	12.9	2.09		9.21
	8/31/2016	11:40:00	6.37	4.12	220.8	12.91	1.96	27.8	12.43
	9/1/2016	16:50:00	5.78	5.58	124.2	12.37	0.73	15.3	12.22
	9/1/2016	08:00:00	6.80	2.47	120.4	15.9	0.83	10.8	12.58
	9/6/2016	14:40:00	6.16	6.37	39.6	12.35	1.32	19.9	10.98
	9/7/2016	16:00:00	5.92	2.66	81.3	14.48	0.74	16.7	12.85
	9/7/2016	08:00:00	8.99	5.57	-11.6	13.8	0.88	21.3	11.49
	9/8/2016	08:00:00	5.74	7.12	71.4	15.7	2.63	14.5	9.88
	9/9/2016	08:00:00	6.14	7.56	107.2	12.49	1.95	14.9	11.92
	9/12/2016	10:00	6	2.24	112.3	12.48	2.2	8.52	12.51
	9/13/2016	12:00	5.73	3.07	118.2	13.2	2.28		12.54
	9/14/2016	12:00	5.9	3.91	144.4	12.67	2.21	16.6	12.57
	9/21/2016	12:00	6.18	3.56	145.3	12.79	2.42	10.9	12.7
	9/28/2016	12:00	6.76	3.48	161.6	12.58	2.61	11.2	12.73
ERT-42D	8/24/2016	12:00:00	50.05		196.1			18.6	
	9/6/2016	12:00:00	50.09					38.9	7.94
	9/7/2016	08:00:00	50.03	6.82		10	0.59	13.3	
	9/8/2016	08:00:00	49.33						
ERT-42I	8/24/2016	12:00:00	46.49	9.46	184.7				
	9/6/2016	12:51:00	49.03	1.66	182.1	9.8	0.42	33.1	8.08
	9/7/2016	08:00:00	40.23	3.36	145.4	9.57	0.37	26.2	8.29
	9/8/2016	08:00:00	39.11	8.82		9.3	0.63	103	8.10
	9/9/2016	08:00:00	39.29		288.1	9.16	0.36	0	7.61
	9/12/2016	10:00	44.28	2.67	245.1	8.27	0.35	9.22	7.79
	9/13/2016	12:00	43.47	4.17	256.2	9.27	0.35		7.74
	9/14/2016	12:00	42.97	4.08	255.4	9.26	0.35	9.23	7.73
	9/21/2016	12:00	38.9	2.29	316.8	9.03	0.83	14.6	7.42
	9/28/2016	12:00	36.9	3.52	282.1	8.92	0.39	9.81	7.5

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-42S	8/17/2016	12:00:00	9.94	4.59	-129.1	12.4	11.3	0.73	7.70
	9/1/2016	17:15:00	11.20	7.01	276.6	11.03	5.93	22.3	6.90
	9/1/2016	08:45:00	11.67	8.19	248.6	11.35	1.52		8.00
	9/6/2016	12:47:00	11.21	12.63	201.5				7.65
	9/7/2016	08:00:00	13.39	10.36	231.6	10.75	3.04	17.5	7.45
	9/8/2016	08:00:00	11.41			12.1	0.49	5.1	
	9/9/2016	08:00:00	9.80	7.79	324	12.7	0.49	9.5	7.27
	9/12/2016	10:00	11.91	3.36	337.2	11.38	15.2	24.2	6.63
	9/13/2016	12:00	12.67	6.72	322.1	13.39	13.43		6.68
	9/14/2016	12:00	12.83	5.58	341.9	10.91	21.67	32.9	6.84
	9/21/2016	12:00	12.68	3.81	391.4	11.25	33.63	13.3	6.45
	9/28/2016	12:00	13.05	3.39	352.8	10.91	31.73	10	6.92
ERT-43D	9/6/2016	12:42:00	18.14	7.54	-48.6	8.47	0.35	16	8.42
	9/7/2016	08:00:00	18.08	10.35	-158.2	8.41	0.36	13	8.61
	9/8/2016	08:00:00	18.14	2.11	13.4	8.62	0.35		8.79
	9/12/2016	10:00	17.89	1.91	-103.4	8.31	0.34	17.1	8.29
	9/12/2016	16:00	18.01	2.92	-74.2	8.32	0.34		8.51
	9/13/2016	12:00	18.03	3.58	30.4	8.24	0.36		8.51
	9/14/2016	12:00	18.11	7.23	-41.4	8.23	0.36	16.6	8.15
	9/21/2016	12:00	18.24	2.56	138.4	8.34	0.7	10.4	9.05
	9/28/2016	12:00	8.88	1.6	227.8	8.56	1.38	21.6	7.44
ERT-43I	8/18/2016	12:00:00	10.10	12.05	-13.51	9.38	0.72	24.6	7.52
	9/6/2016	12:39:00	10.02	8.48	280.6	8.53	1.28	9.3	7.87
	9/7/2016	08:00:00	10.08	3.86	-41.3	10.9	1.32	11.8	7.67
	9/8/2016	08:00:00	11.84	8.06	179.2	8.51	1.26	12.6	8.02
	9/12/2016	10:00	9.75	2.52	-38.2	8.72	1.26	8.31	7.51
	9/12/2016	16:00	9.88	3.19	89.1	8.4	1.26		7.62
	9/13/2016	12:00	10.44	3.46	47	8.75	1.29		7.62
	9/14/2016	12:00	10.22	6.91	-22.3	8.47	1.27	12.6	7.67
	9/21/2016	12:00	9.25	3.82	186.9	8.53	1.38	17.3	7.66
	9/28/2016	12:00	9.05	4.92	268.1	10.15	5.33	21.2	6.97
ERT-43S	8/18/2016	12:00:00	7.63	5.24	-30.8	16.1	0.71	13.3	7.48
	8/30/2016	07:20:00	9.43	7.89	215.2	15.6	0.77	19.4	7.76
	8/30/2016	08:27:00	9.68	3.09	211.4	13.5	2.25	20.4	7.55
	8/31/2016	10:10:00	7.74	12.66	302.3	16	2.93	91.6	7.89
	8/31/2016	16:10:00	8.52	11.27	195.4	10.14	2.54	18.2	7.36
	9/1/2016	08:20:00	8.93	12.82	315.6	11.1	0.71	9.6	7.14
	9/1/2016	16:20:00	7.69	9.35	183.6	13.3	0.79	10.8	7.83
	9/6/2016	12:36:00	7.64	16.93	300.7	10	0.73	14.3	7.68
	9/7/2016	08:00:00	9.41	6.51	172.3	11.12	0.76	18.9	7.85
	9/8/2016	08:00:00	8.34	13.89	247.6	15.4	0.78	17.1	7.91
	9/12/2016	10:00	8.71	5.98	231.8	10.29	4.17	16.3	6.96
	9/12/2016	16:00	9.31	5.22	229.1	9.91	4.18		7.17
	9/13/2016	12:00	9.69	6.56	231.7	10.62	4.54		7.07
	9/14/2016	12:00	9.7	8.05	188.4	10.29	4.81	17.5	7.19
	9/21/2016	12:00	9.46	3.26	218.2	10.52	5.96	18.6	6.87
	9/28/2016	12:00	18.08	2.77	172.4	8.52	0.35	17.8	8.29

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
ERT-44S	8/18/2016	12:00:00	6.22	5.34	38.1	11.6	0.29	22.8	8.17
ERT-47S	8/18/2016	12:00:00	4.58	4.71	125.4	13	0.468	32.4	9.00
MW-02D	8/18/2016	12:00:00	18.97	6.91	142.3	12.2	0.39	29	8.30
MW-02S	8/18/2016	12:00:00	5.54	3.87	160.8	16.2	1.04	21.3	
	8/30/2016	11:30:00	6.10	1.6	90.1	14.59	0.94	9	7.80
	8/30/2016	07:30:00	5.23	3.67	203.8	16.3		9.7	6.98
	8/30/2016	12:15:00	5.72	1.59	77.3	16.5	6.57		7.26
	8/30/2016	16:40:00	4.52	3.98		18	0.96	11	7.61
	8/30/2016	13:10:00	5.54	4.71	107.4	17.2	0.92	76.3	7.72
	8/30/2016	14:35:00	5.57	1.99	193.7	16.7	0.92	23.2	7.83
	8/30/2016	18:30:00	4.90	1.87	154.2	14.1	1.07	10.3	7.37
	8/31/2016	12:10:00	5.35	2.23	295.3	16.8	1.43	13.8	7.60
	8/31/2016	10:05:00	4.45	3.65	316.5	15.13	2.26	36.6	7.48
	8/31/2016	16:40:00	4.43	2.07	338.7		4.49		7.37
	9/1/2016	16:35:00	5.50		302.8	11.2	1.1	13.7	7.60
	9/1/2016	07:35:00	5.35	1.74	267.3	13.8	1.2	72.3	7.39
	9/6/2016	13:45:00	4.99	2.38	292.9	17.5	1	31.4	7.00
	9/7/2016	08:00:00	5.52	7.31	337.1	13.3	1	19.5	
	9/8/2016	08:00:00	4.63	0.56	272.7	16.5	0.84	27	7.60
MW-04D	8/18/2016	12:00:00	16.31	8.83	-5.7	12.2	2.4	238	8.10
MW-04S	8/17/2016	12:00:00	5.30	9.3	172	12.6	0.43	8.62	8.00
	9/9/2016	08:00:00	6.14	8.26	275.2	9.82	0.35	12.8	7.47
MW-07	8/18/2016	12:00:00	4.42	5.73	134.4	14.2	1.34	10.7	7.20
	8/31/2016	10:25:00	3.19	1.07	291.3	19.2	55.56	13.1	7.25
	9/1/2016	10:00:00	5.20	1.44	405.1	10.51	15.93	15.2	6.49
	9/1/2016	17:05:00	4.63	7.11	344.7	16.1	16.73	6.5	7.81
	9/6/2016	13:44:00	2.58	2.09	332.7	16.7	56.26	6.8	12.11
	9/7/2016	08:00:00	4.63	6.3	450.3	18.11	0.66	12.4	6.30
	9/8/2016	08:00:00	4.50	8.72	382.2	11.28	57.21		
MW-09	8/18/2016	12:00:00	9.35	3.44	115.7	13.3	0.72	50.3	7.10
MW-10	8/18/2016	12:00:00	5.34	5.06	81.7	19.1	1.17	19.9	
	8/30/2016	17:55:00	5.49	1.7	221.3	18.6	1.12	13.1	7.62
	8/30/2016	16:10:00	4.98	3.41	32.2	18.7	1.12	78.6	7.47
	8/30/2016	16:20:00	5.21				1.68	8.8	7.47
	8/30/2016	16:55:00	5.61	6.16	211.7	15.07	1.56		7.44
	8/31/2016	10:15:00	5.00	1.87	286.4	15.73		13.4	7.62
	8/31/2016	12:20:00	5.03	3.95	279.3	15.4	1.13	12.6	7.50
	8/31/2016	16:05:00	5.14	1.32	195.4	17	1.1	12.1	7.45
	9/1/2016	08:15:00	4.98	4.8	328.2	14.5	1.18	82.1	
	9/1/2016	16:25:00	5.56	5.32	202.1	19.2	1.12	7.8	7.31
	9/6/2016	12:34:00	5.52	6.54	279.5	18.1	1.26	9.4	7.40
	9/7/2016	08:00:00	5.60	4.92	44.8	15.32	1.89	15	7.54
	9/8/2016	08:00:00	4.92	2.66	170.7	15.7	1.29	15.8	7.40

Table 1.
MNA Field Data Summary

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well, Piezometer, and Residential Well Identification	Date	Time	Depth to Water (feet btoc)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	pH
MW-11	8/18/2016	12:00:00	5.22	2.11	25.8	14.4	1.06	27.1	7.50
	8/30/2016	11:15:00	4.83	1.61	36.1	18.1	1.11	14.3	7.86
	8/30/2016	11:55:00	3.93	1.89	40.3	17.5	1.12	15.8	7.82
	8/30/2016	15:00:00	3.71	2.27	229.1	16.05	5.06	15.2	7.61
	8/30/2016	18:30:00	4.18	1.96	51.3	19.4	1.17		7.92
	8/30/2016	14:20:00	3.99	3.16	269.5	17.8	1.16	13.4	7.46
	8/30/2016	12:45:00	4.83	3.31	37.6	17.3	1.14	14.2	7.32
	8/31/2016	11:45:00	5.01	5.14	254.6	18.7	1.11	16.1	7.31
	8/31/2016	17:00:00	4.72	2.24	76.8	17.5	1.09	18.6	
	8/31/2016	10:00:00	4.94	4.21	301.1	17.3	1.1	7.3	
	8/31/2016	13:30:00	4.94	1.84	204.2	15.9	1.09	15.8	7.42
	8/31/2016	14:35:00	4.98	2.95	169.4	15.82	1.34	20.2	7.93
	9/1/2016	16:45:00	5.01	3.1	259.2	15.46	10.83	16.2	7.30
	9/1/2016	07:50:00	4.43	2.33	376.5	17.6	8.47	6.8	6.94
	9/6/2016	14:02:00	3.67	3.55	245.7	19.1	1.12	7.7	7.49
	9/7/2016	08:00:00	4.68	2.16	254.2	18.9	1.24	13.5	6.84
	9/8/2016	08:00:00	3.90	3.91	256.8	15.8	1.12	15.7	7.65
MW-13D	8/16/2016	12:00:00	25.19	3.63	-31	12.2	0.85	2.07	7.58
	9/7/2016	08:00:00	26.33	0.9	136.5	8.52	0.18	13.4	8.45
MW-13S	8/16/2016	12:00:00	23.47	2.11	-63.3	11.3	0.383	6.69	8.14
	9/7/2016	08:00:00	40.30	2.64	107.9	7.83	0.16	12.1	9.16

Table 2.
Baseline PCE Concentrations in Groundwater (ug/L)

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

August 2, 2016

Monitoring Well, Piezometer, and Residential Well Identification	Result
ERT-33D	920
ERT-33I	91
ERT-33S	16,000
ERT-33S (DUP)	14,300
ERT-34D	1,500
ERT-34D (DUP)	30
ERT-34D (DUP)	1,180
ERT-34I	16
ERT-34I (DUP)	ND
ERT-34S	2,400
ERT-34S (DUP)	155
ERT-35D	ND
ERT-35I	ND
ERT-35S	13
ERT-35S (DUP)	326
ERT-36D	ND
ERT-36I	ND
ERT-36S	400
ERT-36S	ND
ERT-36S	249
ERT-37D	ND
ERT-37I	9
ERT-37S	2
ERT-40D	12
ERT-40D (DUP)	7
ERT-40I	7
ERT-40S	ND
ERT-41D	31
ERT-41D (DUP)	10
ERT-41D (DUP)	32
ERT-41I	637
ERT-41S	15
ERT-41S (DUP)	14
ERT-42D	ND
ERT-42I	27
ERT-42S	6,200
ERT-42S (DUP)	2,830
ERT-43D	6.3
ERT-43I	4.1

Monitoring Well, Piezometer, and Residential Well Identification	Result
ERT-43S	460
ERT-43S (DUP)	414
ERT-44S	ND
ERT-44S (DUP)	ND
ERT-45I	ND
ERT-45S	ND
ERT-45S (DUP)	ND
ERT-46I	86
ERT-46I (DUP)	68
ERT-46S	85
ERT-46S (DUP)	6.7
ERT-47I	ND
ERT-47I (DUP)	ND
ERT-47S	ND
ERT-47S (DUP)	ND
ERT-48S	17
ERT-48S (DUP)	17
MW-04D	ND
MW-04D (DUP)	ND
MW-04S	ND
MW-04S (DUP)	ND
MW-04S (DUP)	ND
MW-07	400
MW-07 (DUP)	450
MW-07 (DUP)	239
MW-09	ND
MW-10	9.2
MW-11	1,800
MW-11 (DUP)	1,110
MW-13D	ND
MW-13D (DUP)	ND
MW-13D (DUP)	ND
MW-13S	ND
MW-13S (DUP)	ND
MW-13S (DUP)	ND
MW-18	ND
TB-01	11
TB-01	ND
TB-02	ND
TB-03	ND

Shading indicates that concentration exceeds site closure goal of 50 ug/L.
DUP = Duplicate Sample
ND = Not Detected

Table 3.
Baseline VOC Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Client Sample ID:		ERT-33D	ERT-33I	ERT-33S	ERT-34D	ERT-34I	ERT-34S	ERT-35D	ERT-35I	ERT-35S	ERT-36S	ERT-37D	ERT-37I
Date Sampled:		8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016
Acetone	ug/l	ND<2.8	ND<2.8	ND<2.8	ND (28)	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<5.6	ND<5.6	ND<2.8	ND<2.8
Benzene	ug/l	1.2	5.1	ND<0.45	ND<4.5	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.89	ND<0.89	ND<0.45	0.65
Bromobenzene	ug/l	ND<0.35	ND<0.35	ND<0.35	ND<3.5	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.71	ND<0.71	ND<0.35	ND<0.35
Bromochloromethane	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<3.4	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.69	ND<0.69	ND<0.34	ND<0.34
Bromodichloromethane	ug/l	ND<0.31	ND<0.31	ND<0.31	ND<3.1	ND<0.31	ND<0.31	ND<0.31	ND<0.31	ND<0.61	ND<0.61	ND<0.31	ND<0.31
Bromoform	ug/l	ND<0.33	ND<0.33	ND<0.33	ND<3.3	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.65	ND<0.65	ND<0.33	ND<0.33
Bromomethane	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50
2-Butanone (MEK)	ug/l	ND<2.0	ND<2.0	ND<2.0	ND<20	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<3.9	ND<3.9	ND<2.0	ND<2.0
n-Butylbenzene	ug/l	ND<0.59	ND<0.59	ND<0.59	ND<5.9	ND<0.59	ND<0.59	ND<0.59	ND<0.59	ND<1.2	ND<1.2	ND<0.59	ND<0.59
sec-Butylbenzene	ug/l	ND<0.54	ND<0.54	ND<0.54	ND<5.4	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<1.1	ND<1.1	ND<0.54	ND<0.54
tert-Butylbenzene	ug/l	ND<0.58	ND<0.58	ND<0.58	ND<5.8	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<1.2	ND<1.2	ND<0.58	ND<0.58
Carbon disulfide	ug/l	ND<1.2	ND<1.2	ND<1.2	ND<12	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<2.4	ND<2.4	ND<1.2	ND<1.2
Carbon tetrachloride	ug/l	ND<0.66	ND<0.66	ND<0.66	ND<6.6	ND<0.66	ND<0.66	ND<0.66	ND<0.66	ND<1.3	ND<1.3	ND<0.66	ND<0.66
Chlorobenzene	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<3.0	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<0.60	ND<0.30	ND<0.30
Chloroethane	ug/l	ND<0.62	ND<0.62	ND<0.62	ND<6.2	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<1.2	ND<1.2	ND<0.62	ND<0.62
Chloroform	ug/l	ND<0.41	ND<0.41	ND<0.41	ND<4.1	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.81	ND<0.81	ND<0.41	ND<0.41
Chloromethane	ug/l	ND<0.83	ND<0.83	ND<0.83	ND<8.3	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<1.7	ND<1.7	ND<0.83	ND<0.83
o-Chlorotoluene	ug/l	ND<0.49	ND<0.49	ND<0.49	ND<4.9	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.99	ND<0.99	ND<0.49	ND<0.49
p-Chlorotoluene	ug/l	ND<0.47	ND<0.47	ND<0.47	ND<4.7	ND<0.47	ND<0.47	ND<0.47	ND<0.47	ND<0.95	ND<0.95	ND<0.47	ND<0.47
1,2-Dibromo-3-chloropropane	ug/l	ND<0.96	ND<0.96	ND<0.96	ND (9.6)	ND<0.96	ND<0.96	ND<0.96	ND<0.96	ND<1.9	ND<1.9	ND<0.96	ND<0.96
Dibromochloromethane	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<4.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.79	ND<0.79	ND<0.40	ND<0.40
1,2-Dibromoethane	ug/l	ND<0.13	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.13
1,2-Dichlorobenzene	ug/l	ND<0.38	ND<0.38	0.56	ND<3.8	ND<0.38	ND<0.38	ND<0.38	ND<0.38	ND<0.77	ND<0.77	ND<0.38	ND<0.38
1,3-Dichlorobenzene	ug/l	ND<0.46	ND<0.46	ND<0.46	ND<4.6	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.92	ND<0.92	ND<0.46	ND<0.46
1,4-Dichlorobenzene	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<4.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.79	ND<0.79	ND<0.40	ND<0.40
Dichlorodifluoromethane	ug/l	ND<0.65	ND<0.65	ND<0.65	ND (6.5)	ND<0.65	ND<0.65	ND<0.65	ND<0.65	ND<1.3	ND<1.3	ND<0.65	ND<0.65
1,1-Dichloroethane	ug/l	ND<0.68	ND<0.68	ND<0.68	ND<6.8	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<1.4	ND<1.4	ND<0.68	ND<0.68
1,2-Dichloroethane	ug/l	ND<0.48	ND<0.48	ND<0.48	ND<4.8	ND<0.48	ND<0.48	ND<0.48	ND<0.48	ND<0.95	ND<0.95	ND<0.48	ND<0.48
1,1-Dichloroethene	ug/l	3.3	3.3	ND<0.60	ND<6.0	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<1.2	ND<1.2	ND<0.60	ND<0.60
cis-1,2-Dichloroethene	ug/l	2610	2850	10.3	383	52.9	ND<0.29	4.2	ND<0.29	195	16.8	18.7	331
trans-1,2-Dichloroethene	ug/l	7.2	5.7	1.2	ND<5.0	2.1	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	0.83
1,2-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<0.69	ND<6.9	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<1.4	ND<1.4	ND<0.69	ND<0.69
1,3-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<0.69	ND<6.9	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<1.4	ND<1.4	ND<0.69	ND<0.69
2,2-Dichloropropane	ug/l	ND<0.84	ND<0.84	ND<0.84	ND<8.4	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<1.7	ND<1.7	ND<0.84	ND<0.84
1,1-Dichloropropene	ug/l	ND<0.54	ND<0.54	ND<0.54	ND<5.4	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<1.1	ND<1.1	ND<0.54	ND<0.54
cis-1,3-Dichloropropene	ug/l	ND<0.20	ND<0.20	ND<0.20	ND<2.0	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.40	ND<0.40	ND<0.20	ND<0.20
trans-1,3-Dichloropropene	ug/l	ND<0.26	ND<0.26	ND<0.26	ND<2.6	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.51	ND<0.51	ND<0.26	ND<0.26
Ethylbenzene	ug/l	ND<0.53	ND<0.53	ND<0.53	ND<5.3	ND<0.53	ND<0.53	ND<0.53	ND<0.53	ND<1.1	ND<1.1	ND<0.53	ND<0.53
Hexachlorobutadiene	ug/l	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0
2-Hexanone	ug/l	ND<0.36	ND<0.36	ND<0.36	ND<3.6	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.72	ND<0.72	ND<0.36	ND<0.36
Iodomethane	ug/l	ND<0.78	ND<0.78	ND<0.78	ND<7.8	ND<0.78	ND<0.78	ND<0.78	ND<0.78	ND<1.6	ND<1.6	ND<0.78	ND<0.78
Isopropylbenzene	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50
p-Isopropyltoluene	ug/l	ND<0.51	ND<0.51	ND<0.51	ND<5.1	ND<0.51	ND<0.51	ND<0.51	ND<0.51	ND<1.0	ND<1.0	ND<0.51	ND<0.51
4-Methyl-2-pentanone (MIBK)	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50
Methylene bromide	ug/l	ND<0.23	ND<0.23	ND<0.23	ND<2.3	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.46	ND<0.46	ND<0.23	ND<0.23
Methylene chloride	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<18	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<3.5	ND<3.5	ND<1.8	ND<1.8
Naphthalene	ug/l	ND<0.45	ND<0.45	ND<0.45	ND<4.5	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.90	ND<0.90	ND<0.45	ND<0.45
n-Propylbenzene	ug/l	ND<0.63	ND<0.63	ND<0.63	ND<6.3	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND<1.3	ND<1.3	ND<0.63	ND<0.63
Styrene	ug/l	ND<0.45	ND<0.45	ND<0.45	ND<4.5	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.91	ND<0.91	ND<0.45	ND<0.45
1,1,1,2-Tetrachloroethane	ug/l	ND<0.23	ND<0.23	ND<0.23	ND<2.3	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.46	ND<0.46	ND<0.23	ND<0.23
1,1,2,2-Tetrachloroethane	ug/l	ND<0.13	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.26	ND<0.26	ND<0.13	ND<0.13
Tetrachloroethene	ug/l	920	91	14300	1180	ND<0.45	155	ND<0.45	ND<0.45	326	249	ND<0.45	9.4
Toluene	ug/l	1.3	4.1	ND<0.49	ND<4.9	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND (0.98)	ND (0.98)	ND<0.49	ND<0.49
1,2,3-Trichlorobenzene	ug/l	ND<0.62	ND<0.62	ND<0.62	ND<6.2	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<1.2	ND<1.2	ND<0.62	ND<0.62
1,2,4-Trichlorobenzene	ug/l	ND<0.33	ND<0.33	ND<0.33	ND<3.3	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND (0.67)	ND (0.67)	ND<0.33	ND<0.33
1,1,1-Trichloroethane	ug/l	ND<0.68	ND<0.68	ND<0.68	ND<6.8	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<1.4	ND<1.4	ND<0.68	ND<0.68
1,1,2-Trichloroethane	ug/l	ND<0.21	ND<0.21	ND<0.21	ND<2.1	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.42	ND<0.42	ND<0.21	ND<0.21
Trichloroethene	ug/l	820	1790	232	219	ND<0.48	0.66	ND<0.48	0.7	121	16.5	5.3	49.6
Trichlorofluoromethane	ug/l	ND<0.72	ND<0.72	ND<0.72	ND<7.2	ND<0.72	ND<0.72	ND<0.72	ND<0.72	ND<1.4	ND<1.4	ND<0.72	ND<0.72
1,2,3-Trichloropropane	ug/l	ND<0.58	ND<0.58	ND<0.58	ND<5.8	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<1.2	ND<1.2	ND<0.58	ND<0.58
1,2,4-Trimethylbenzene	ug/l	ND<0.24	ND<0.24	ND<0.24	ND<2.4	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.47	ND<0.47	ND<0.24	ND<0.24
1,3,5-Trimethylbenzene	ug/l	ND<0.41	ND<0.41	ND<0.41	ND<4.1	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.83	ND<0.83	ND<0.41	ND<0.41
Vinyl Acetate	ug/l	ND<1.5	ND<1.5	ND<1.5	ND<15	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<3.0	ND<3.0	ND<1.5	ND<1.5
Vinyl chloride	ug/l	ND<0.69	2.9	ND<0.69	ND<6.9	97.7	ND<0.69	0.78	ND<0.69	2.8	ND<1.4	ND<0.69	ND<0.69
m,p-Xylene	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<4.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.80	ND<0.80	ND<0.40	ND<0.40
o-Xylene	ug/l	ND<0.22	ND<0.22	ND<0.22	ND<2.2	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.43	ND<0.43	ND<0.22	ND<0.22
Xylene (total)	ug/l	ND<0.22	ND<0.22	ND<0.22	ND<2.2	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.43	ND<0.43	ND<0.22	ND<0.22

Notes:
ND = Not Detected
DUP = Duplicate Sample

Table 3.
Baseline VOC Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Client Sample ID:		ERT-37S	ERT-37S (DUP)	ERT-40D	ERT-40I	ERT-40S	ERT-40S (DUP)	ERT-41D	ERT-41I	ERT-41S	ERT-42S	ERT-43I	ERT-43S
Date Sampled:		8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/15/2016
Acetone	ug/l	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND<2.8	ND (14)	18	ND<2.8	ND<2.8	ND<2.8
Benzene	ug/l	ND<0.45	ND<0.45	ND<0.45	0.51	ND<0.45	ND<0.45	ND<0.45	ND<2.2	0.49	ND<0.45	ND<0.45	ND<0.45
Bromobenzene	ug/l	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<0.35	ND<1.8	ND<0.35	ND<0.35	ND<0.35	ND<0.35
Bromochloromethane	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<1.7	ND<0.34	ND<0.34	ND<0.34	ND<0.34
Bromodichloromethane	ug/l	ND<0.31	ND<0.31	ND<0.31	ND<0.31	ND<0.31	ND<0.31	ND<0.31	ND<1.5	ND<0.31	ND<0.31	ND<0.31	ND<0.31
Bromoform	ug/l	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<1.6	ND<0.33	ND<0.33	ND<0.33	ND<0.33
Bromomethane	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND (2.5)	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)	ug/l	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND (9.8)	ND<2.0	ND<2.0	ND<2.0	ND<2.0
n-Butylbenzene	ug/l	ND<0.59	ND<0.59	ND<0.59	ND<0.59	ND<0.59	ND<0.59	ND<0.59	ND (2.9)	ND<0.59	ND<0.59	ND<0.59	ND<0.59
sec-Butylbenzene	ug/l	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND (2.7)	ND<0.54	ND<0.54	ND<0.54	ND<0.54
tert-Butylbenzene	ug/l	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND (2.9)	ND<0.58	ND<0.58	ND<0.58	ND<0.58
Carbon disulfide	ug/l	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<6.0	ND<1.2	ND<1.2	ND<1.2	ND<1.2
Carbon tetrachloride	ug/l	ND<0.66	ND<0.66	ND<0.66	ND<0.66	ND<0.66	ND<0.66	ND<0.66	ND<3.3	ND<0.66	ND<0.66	ND<0.66	ND<0.66
Chlorobenzene	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<1.5	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chloroethane	ug/l	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<3.1	ND<0.62	ND<0.62	ND<0.62	ND<0.62
Chloroform	ug/l	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	0.56	ND<2.0	ND<0.41	ND<0.41	ND<0.41	ND<0.41
Chloromethane	ug/l	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<4.1	ND<0.83	ND<0.83	ND<0.83	ND<0.83
o-Chlorotoluene	ug/l	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND (2.5)	ND<0.49	ND<0.49	ND<0.49	ND<0.49
p-Chlorotoluene	ug/l	ND<0.47	ND<0.47	ND<0.47	ND<0.47	ND<0.47	ND<0.47	ND<0.47	ND<2.4	ND<0.47	ND<0.47	ND<0.47	ND<0.47
1,2-Dibromo-3-chloropropane	ug/l	ND<0.96	ND<0.96	ND<0.96	ND<0.96	ND<0.96	ND<0.96	ND<0.96	ND<4.8	ND<0.96	ND<0.96	ND<0.96	ND<0.96
Dibromochloromethane	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<2.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40
1,2-Dibromoethane	ug/l	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND (0.64)	ND<0.13	ND<0.13	ND<0.13	ND<0.13
1,2-Dichlorobenzene	ug/l	ND<0.38	ND<0.38	ND<0.38	ND<0.38	ND<0.38	ND<0.38	ND<0.38	ND<1.9	ND<0.38	ND<0.38	ND<0.38	ND<0.38
1,3-Dichlorobenzene	ug/l	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<2.3	ND<0.46	ND<0.46	ND<0.46	ND<0.46
1,4-Dichlorobenzene	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<2.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40
Dichlorodifluoromethane	ug/l	ND<0.65	ND<0.65	ND<0.65	ND<0.65	ND<0.65	ND<0.65	ND<0.65	ND (3.2)	ND<0.65	ND<0.65	ND<0.65	ND<0.65
1,1-Dichloroethane	ug/l	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<3.4	ND<0.68	ND<0.68	ND<0.68	ND<0.68
1,2-Dichloroethane	ug/l	ND<0.48	ND<0.48	ND<0.48	ND<0.48	ND<0.48	ND<0.48	ND<0.48	ND<2.4	ND<0.48	ND<0.48	ND<0.48	ND<0.48
1,1-Dichloroethene	ug/l	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<3.0	ND<0.60	ND<0.60	ND<0.60	ND<0.60
cis-1,2-Dichloroethene	ug/l	98.3	100	1.7	1.5	ND<0.29	ND<0.29	28.3	3.3	2.9	88.4	67.1	17.3
trans-1,2-Dichloroethene	ug/l	0.95	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND (2.5)	ND<0.50	ND<0.50	0.81	ND<0.50
1,2-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<3.4	ND<0.69	ND<0.69	ND<0.69	ND<0.69
1,3-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<3.4	ND<0.69	ND<0.69	ND<0.69	ND<0.69
2,2-Dichloropropane	ug/l	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND (4.2)	ND<0.84	ND<0.84	ND<0.84	ND<0.84
1,1-Dichloropropene	ug/l	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND<0.54	ND (2.7)	ND<0.54	ND<0.54	ND<0.54	ND<0.54
cis-1,3-Dichloropropene	ug/l	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<1.0	ND<0.20	ND<0.20	ND<0.20	ND<0.20
trans-1,3-Dichloropropene	ug/l	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<0.26	ND<0.26
Ethylbenzene	ug/l	ND<0.53	ND<0.53	ND<0.53	ND<0.53	ND<0.53	ND<0.53	ND<0.53	ND<2.6	0.6	ND<0.53	ND<0.53	ND<0.53
Hexachlorobutadiene	ug/l	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<5.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Hexanone	ug/l	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<1.8	ND<0.36	ND<0.36	ND<0.36	ND<0.36
Iodomethane	ug/l	ND<0.78	ND<0.78	ND<0.78	ND<0.78	ND<0.78	ND<0.78	ND<0.78	ND<3.9	ND<0.78	ND<0.78	ND<0.78	ND<0.78
Isopropylbenzene	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND (2.5)	ND<0.50	ND<0.50	ND<0.50	ND<0.50
p-Isopropyltoluene	ug/l	ND<0.51	ND<0.51	ND<0.51	ND<0.51	ND<0.51	ND<0.51	ND<0.51	ND (2.5)	ND<0.51	ND<0.51	ND<0.51	ND<0.51
4-Methyl-2-pentanone (MIBK)	ug/l	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND (2.5)	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Methylene bromide	ug/l	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<1.2	ND<0.23	ND<0.23	ND<0.23	ND<0.23
Methylene chloride	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND (8.9)	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Naphthalene	ug/l	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<2.3	ND<0.45	ND<0.45	ND<0.45	ND<0.45
n-Propylbenzene	ug/l	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND<0.63	ND (3.2)	ND<0.63	ND<0.63	ND<0.63	ND<0.63
Styrene	ug/l	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<2.3	ND<0.45	ND<0.45	ND<0.45	ND<0.45
1,1,1,2-Tetrachloroethane	ug/l	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<1.2	ND<0.23	ND<0.23	ND<0.23	ND<0.23
1,1,2,2-Tetrachloroethane	ug/l	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND (0.64)	ND<0.13	ND<0.13	ND<0.13	ND<0.13
Tetrachloroethene	ug/l	2	2.1	7	7.4	ND<0.45	ND<0.45	31.8	637	13.7	2830	4.1	414
Toluene	ug/l	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND (2.5)	ND<0.49	ND<0.49	ND<0.49	ND<0.49
1,2,3-Trichlorobenzene	ug/l	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<3.1	ND<0.62	ND<0.62	ND<0.62	ND<0.62
1,2,4-Trichlorobenzene	ug/l	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<1.7	ND<0.33	ND<0.33	ND<0.33	ND<0.33
1,1,1-Trichloroethane	ug/l	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<0.68	ND<3.4	ND<0.68	ND<0.68	ND<0.68	ND<0.68
1,1,2-Trichloroethane	ug/l	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<0.21	ND<1.1	ND<0.21	ND<0.21	ND<0.21	ND<0.21
Trichloroethene	ug/l	0.71	0.79	40.3	37.4	ND<0.48	ND<0.48	341	91.9	8.5	154	13.8	7.3
Trichlorofluoromethane	ug/l	ND<0.72	ND<0.72	ND<0.72	ND<0.72	ND<0.72	ND<0.72	ND<0.72	ND<3.6	ND<0.72	ND<0.72	ND<0.72	ND<0.72
1,2,3-Trichloropropane	ug/l	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND (2.9)	ND<0.58	ND<0.58	ND<0.58	ND<0.58
1,2,4-Trimethylbenzene	ug/l	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<1.2	0.51	ND<0.24	ND<0.24	ND<0.24
1,3,5-Trimethylbenzene	ug/l	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<2.1	0.49	ND<0.41	ND<0.41	ND<0.41
Vinyl Acetate	ug/l	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND (7.5)	ND<1.5	ND<1.5	ND<1.5	ND<1.5
Vinyl chloride	ug/l	24.4	25.2	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<3.4	1	ND<0.69	ND<0.69	ND<0.69
m,p-Xylene	ug/l	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<2.0	ND<0.40	ND<0.40	ND<0.40	ND<0.40
o-Xylene	ug/l	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<1.1	ND<0.22	ND<0.22	ND<0.22	ND<0.22
Xylene (total)	ug/l	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<1.1	ND<0.22	ND<0.22	ND<0.22	ND<0.22

Notes:
ND = Not Detected
DUP = Duplicate Sample

Table 3.
Baseline VOC Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Client Sample ID:		MW-04D	MW-04S	MW-07	MW-11	MW-13D	MW-13S	TB-01
Date Sampled:		8/15/2016	8/15/2016	8/15/2016	8/15/2016	8/16/2016	8/15/2016	8/15/2016
Acetone	ug/l	ND<2.8	ND<2.8	ND<5.6	ND<2.8	ND<2.8	ND<2.8	
Benzene	ug/l	ND<0.45	ND<0.45	ND<0.89	ND<0.45	ND<0.45	ND<0.45	ND<2.8
Bromobenzene	ug/l	ND<0.35	ND<0.35	ND<0.71	ND<0.35	ND<0.35	ND<0.35	ND<0.45
Bromochloromethane	ug/l	ND<0.34	ND<0.34	ND<0.69	ND<0.34	ND<0.34	ND<0.34	ND<0.35
Bromodichloromethane	ug/l	ND<0.31	ND<0.31	ND<0.61	ND<0.31	ND<0.31	ND<0.31	ND<0.34
Bromoform	ug/l	ND<0.33	ND<0.33	ND<0.65	ND<0.33	ND<0.33	ND<0.33	ND<0.31
Bromomethane	ug/l	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.33
2-Butanone (MEK)	ug/l	ND<2.0	ND<2.0	ND<3.9	ND<2.0	ND<2.0	ND<2.0	ND<0.50
n-Butylbenzene	ug/l	ND<0.59	ND<0.59	ND<1.2	ND<0.59	ND<0.59	ND<0.59	ND<2.0
sec-Butylbenzene	ug/l	ND<0.54	ND<0.54	ND<1.1	ND<0.54	ND<0.54	ND<0.54	ND<0.59
tert-Butylbenzene	ug/l	ND<0.58	ND<0.58	ND<1.2	ND<0.58	ND<0.58	ND<0.58	ND<0.54
Carbon disulfide	ug/l	ND<1.2	ND<1.2	ND<2.4	ND<1.2	ND<1.2	ND<1.2	ND<0.58
Carbon tetrachloride	ug/l	ND<0.66	ND<0.66	ND<1.3	ND<0.66	ND<0.66	ND<0.66	ND<1.2
Chlorobenzene	ug/l	ND<0.30	ND<0.30	ND<0.60	ND<0.30	ND<0.30	ND<0.30	ND<0.66
Chloroethane	ug/l	ND<0.62	ND<0.62	ND<1.2	ND<0.62	ND<0.62	ND<0.62	ND<0.30
Chloroform	ug/l	ND<0.41	ND<0.41	ND<0.81	ND<0.41	ND<0.41	ND<0.41	ND<0.62
Chloromethane	ug/l	ND<0.83	ND<0.83	ND<1.7	ND<0.83	ND<0.83	ND<0.83	ND<0.41
o-Chlorotoluene	ug/l	ND<0.49	ND<0.49	ND<0.99	ND<0.49	ND<0.49	ND<0.49	ND<0.83
p-Chlorotoluene	ug/l	ND<0.47	ND<0.47	ND<0.95	ND<0.47	ND<0.47	ND<0.47	ND<0.49
1,2-Dibromo-3-chloropropane	ug/l	ND<0.96	ND<0.96	ND<1.9	ND<0.96	ND<0.96	ND<0.96	ND<0.47
Dibromochloromethane	ug/l	ND<0.40	ND<0.40	ND<0.79	ND<0.40	ND<0.40	ND<0.40	ND<0.96
1,2-Dibromoethane	ug/l	ND<0.13	ND<0.13	ND<0.26	ND<0.13	ND<0.13	ND<0.13	ND<0.40
1,2-Dichlorobenzene	ug/l	ND<0.38	ND<0.38	ND<0.77	ND<0.38	ND<0.38	ND<0.38	ND<0.13
1,3-Dichlorobenzene	ug/l	ND<0.46	ND<0.46	ND<0.92	ND<0.46	ND<0.46	ND<0.46	ND<0.38
1,4-Dichlorobenzene	ug/l	ND<0.40	ND<0.40	ND<0.79	ND<0.40	ND<0.40	ND<0.40	ND<0.46
Dichlorodifluoromethane	ug/l	ND<0.65	ND<0.65	ND<1.3	ND<0.65	ND<0.65	ND<0.65	ND<0.40
1,1-Dichloroethane	ug/l	ND<0.68	ND<0.68	ND<1.4	ND<0.68	ND<0.68	ND<0.68	ND<0.65
1,2-Dichloroethane	ug/l	ND<0.48	ND<0.48	ND<0.95	ND<0.48	ND<0.48	ND<0.48	ND<0.68
1,1-Dichloroethene	ug/l	ND<0.60	ND<0.60	ND<1.2	4.2	ND<0.60	ND<0.60	ND<0.48
cis-1,2-Dichloroethene	ug/l	ND<0.29	ND<0.29	6.6	1580	ND<0.29	0.72	ND<0.60
trans-1,2-Dichloroethene	ug/l	ND<0.50	ND<0.50	ND<1.0	8.4	ND<0.50	ND<0.50	ND<0.29
1,2-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<1.4	ND<0.69	ND<0.69	ND<0.69	ND<0.50
1,3-Dichloropropane	ug/l	ND<0.69	ND<0.69	ND<1.4	ND<0.69	ND<0.69	ND<0.69	ND<0.69
2,2-Dichloropropane	ug/l	ND<0.84	ND<0.84	ND<1.7	ND<0.84	ND<0.84	ND<0.84	ND<0.69
1,1-Dichloropropene	ug/l	ND<0.54	ND<0.54	ND<1.1	ND<0.54	ND<0.54	ND<0.54	ND<0.84
cis-1,3-Dichloropropene	ug/l	ND<0.20	ND<0.20	ND<0.40	ND<0.20	ND<0.20	ND<0.20	ND<0.54
trans-1,3-Dichloropropene	ug/l	ND<0.26	ND<0.26	ND<0.51	ND<0.26	ND<0.26	ND<0.26	ND<0.20
Ethylbenzene	ug/l	ND<0.53	ND<0.53	ND<1.1	ND<0.53	ND<0.53	ND<0.53	ND<0.26
Hexachlorobutadiene	ug/l	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<0.53
2-Hexanone	ug/l	ND<0.36	ND<0.36	ND<0.72	ND<0.36	ND<0.36	ND<0.36	ND<1.0
Iodomethane	ug/l	ND<0.78	ND<0.78	ND<1.6	ND<0.78	ND<0.78	ND<0.78	ND<0.36
Isopropylbenzene	ug/l	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.78
p-Isopropyltoluene	ug/l	ND<0.51	ND<0.51	ND<1.0	ND<0.51	ND<0.51	ND<0.51	ND<0.50
4-Methyl-2-pentanone (MIBK)	ug/l	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.51
Methylene bromide	ug/l	ND<0.23	ND<0.23	ND<0.46	ND<0.23	ND<0.23	ND<0.23	ND<0.50
Methylene chloride	ug/l	ND<1.8	ND<1.8	ND<3.5	ND<1.8	ND<1.8	ND<1.8	ND<0.23
Naphthalene	ug/l	ND<0.45	ND<0.45	ND<0.90	ND<0.45	ND<0.45	ND<0.45	ND<1.8
n-Propylbenzene	ug/l	ND<0.63	ND<0.63	ND<1.3	ND<0.63	ND<0.63	ND<0.63	ND<0.45
Styrene	ug/l	ND<0.45	ND<0.45	ND<0.91	ND<0.45	ND<0.45	ND<0.45	ND<0.63
1,1,1,2-Tetrachloroethane	ug/l	ND<0.23	ND<0.23	ND<0.46	ND<0.23	ND<0.23	ND<0.23	ND<0.45
1,1,2,2-Tetrachloroethane	ug/l	ND<0.13	ND<0.13	ND<0.26	ND<0.13	ND<0.13	ND<0.13	ND<0.23
Tetrachloroethene	ug/l	ND<0.45	ND<0.45	239	1110	ND<0.45	ND<0.45	ND<0.13
Toluene	ug/l	ND<0.49	ND<0.49	ND (0.98)	ND<0.49	ND<0.49	ND<0.49	ND<0.45
1,2,3-Trichlorobenzene	ug/l	ND<0.62	ND<0.62	ND<1.2	ND<0.62	ND<0.62	ND<0.62	ND<0.49
1,2,4-Trichlorobenzene	ug/l	ND<0.33	ND<0.33	ND (0.67)	ND<0.33	ND<0.33	ND<0.33	ND<0.62
1,1,1-Trichloroethane	ug/l	ND<0.68	ND<0.68	ND<1.4	ND<0.68	ND<0.68	ND<0.68	ND<0.33
1,1,2-Trichloroethane	ug/l	ND<0.21	ND<0.21	ND<0.42	ND<0.21	ND<0.21	ND<0.21	ND<0.68
Trichloroethene	ug/l	ND<0.48	ND<0.48	4.6	712	ND<0.48	0.66	ND<0.21
Trichlorofluoromethane	ug/l	ND<0.72	ND<0.72	ND<1.4	ND<0.72	ND<0.72	ND<0.72	ND<0.48
1,2,3-Trichloropropane	ug/l	ND<0.58	ND<0.58	ND<1.2	ND<0.58	ND<0.58	ND<0.58	ND<0.72
1,2,4-Trimethylbenzene	ug/l	ND<0.24	ND<0.24	ND<0.47	ND<0.24	ND<0.24	ND<0.24	ND<0.58
1,3,5-Trimethylbenzene	ug/l	ND<0.41	ND<0.41	ND<0.83	ND<0.41	ND<0.41	ND<0.41	ND<0.24
Vinyl Acetate	ug/l	ND<1.5	ND<1.5	ND<3.0	ND<1.5	ND<1.5	ND<1.5	ND<0.41
Vinyl chloride	ug/l	ND<0.69	ND<0.69	ND<1.4	ND<0.69	ND<0.69	ND<0.69	ND<1.5
m,p-Xylene	ug/l	ND<0.40	ND<0.40	ND<0.80	ND<0.40	ND<0.40	ND<0.40	ND<0.69
o-Xylene	ug/l	ND<0.22	ND<0.22	ND<0.43	ND<0.22	ND<0.22	ND<0.22	ND<0.40
Xylene (total)	ug/l	ND<0.22	ND<0.22	ND<0.43	ND<0.22	ND<0.22	ND<0.22	ND<0.22

Notes:
ND = Not Detected
DUP = Duplicate Sample

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**MW-04D**	**MW-04D**	**MW-04S**	**MW-04S**	**MW-13D**	**MW-13D**	**MW-13S**	**MW-13S**
Date Sampled		8/18/2016	8/18/2016	8/17/2016	8/17/2016	8/16/2016	8/16/2016	8/16/2016	8/16/2016
Total/Dissolved		T	D	T	D	T	D	T	D
Compound	Units								
Antimony	ug/l	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2
Arsenic	ug/l	ND<2.0	ND<2.0	3.4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Barium	ug/l	45.7	16.4	131	90.8	587	615	111	64.3
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chromium	ug/l	3.5	ND<1.1	1.4	ND<1.1	ND<1.1	ND<1.1	3.1	ND<1.1
Copper	ug/l	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2
Iron	ug/l	2710	1580	1450	72.8	316	307	974	40.5
Lead	ug/l	15.4	11.9	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1
Mercury	ug/l	ND<0.034	ND<0.034	ND<0.034	ND<0.034	<0.20	<0.20	<0.20	<0.20
Nickel	ug/l	4.2	4.8	1.5	2.4	0.6	1.5	1.7	0.5
Selenium	ug/l	4.5	4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4
Thallium	ug/l	ND<3.6	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Zinc	ug/l	18.9	90.4	10.8	23.1	10.2	30.6	12.8	17

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**MW-13S (DUP)**	**MW-13S (DUP)**	**ERT-33D**	**ERT-33D**	**ERT-33I**	**ERT-33I**	**ERT-33S**	**ERT-33S**
Date Sampled		8/16/2016	8/16/2016	8/18/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016	8/17/2016
Total/Dissolved		T	D	T	D	T	D	T	D
Compound	Units								
Antimony	ug/l	ND<1.2	1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2
Arsenic	ug/l	ND<2.0	ND<2.0	7.8	3.7	8.4	8	6.2	2.6
Barium	ug/l	60.5	70.6	117	90.1	68.8	41.7	63.8	40
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	0.3	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chromium	ug/l	ND<1.1	1.6	10.9	ND<1.1	5.8	1.8	ND<1.1	ND<1.1
Copper	ug/l	ND<4.2	4.4	ND<4.2	ND<4.2	9.1	ND<4.2	ND<4.2	ND<4.2
Iron	ug/l	53.1	484	2370	449	4480	2110	706	94.3
Lead	ug/l	ND<1.1	ND<1.1	2.1	ND<1.1	6.6	ND<1.1	1.3	ND<1.1
Mercury	ug/l	<0.20	<0.20	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034
Nickel	ug/l	ND<0.35	1.2	5.4	2.5	4.8	4.1	0.8	1.1
Selenium	ug/l	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4
Thallium	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Zinc	ug/l	16.8	34.5	13.8	28.7	27.7	38	16.9	29.1

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-34D**	**ERT-34D**	**ERT-34I**	**ERT-34I**	**ERT-34S**	**ERT-34S**	**ERT-35D**	**ERT-35D**
Date Sampled		8/18/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016	8/17/2016	8/18/2016	8/18/2016
Total/Dissolved		T	D	T	D	T	D	T	D
Compound	Units								
Antimony	ug/l	1.9	ND<1.2	ND<1.2	ND<1.2	2.5	ND<1.2	ND<1.2	ND<1.2
Arsenic	ug/l	5.2	ND<2.0	11.1	7.5	ND<2.0	ND<2.0	4.9	3
Barium	ug/l	167	142	91.8	73.5	191	154	131	45.6
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chromium	ug/l	2.5	ND<1.1	3.7	1.1	1.6	1.3	13	2.9
Copper	ug/l	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	11.5	ND<4.2
Iron	ug/l	2340	260	3550	1560	580	ND<16	4200	602
Lead	ug/l	4.5	ND<1.1	3.4	1.1	3	ND<1.1	11.4	ND<1.1
Mercury	ug/l	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034
Nickel	ug/l	1.7	2.4	2.8	3.2	1.4	0.9	7.5	3.9
Selenium	ug/l	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4
Thallium	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Zinc	ug/l	19.5	29.6	16.9	23.7	15.2	20	32.3	23.8

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-35I**	**ERT-35I**	**ERT-35S**	**ERT-35S**	**ERT-36S**	**ERT-37D**	**ERT-37D**	**ERT-37I**
Date Sampled		8/18/2016	8/18/2016	8/17/2016	8/17/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016
Total/Dissolved		T	D	T	D	T	T	D	T
Compound	Units								
Antimony	ug/l	ND<1.2	ND<1.2	ND<1.2	ND<1.2		ND<1.2	ND<1.2	ND<1.2
Arsenic	ug/l	12.9	2.3	ND<2.0	ND<2.0		3.7	ND<2.0	3.8
Barium	ug/l	127	69.1	97.5	107		70.7	73.7	119
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34		ND<0.34	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<0.30		ND<0.30	ND<0.30	ND<0.30
Chromium	ug/l	5.4	ND<1.1	1.1	ND<1.1		2.1	ND<1.1	1.5
Copper	ug/l	6.5	ND<4.2	ND<4.2	ND<4.2		ND<4.2	ND<4.2	5.3
Iron	ug/l	7450	75.3	430	ND<16	12700	1110	ND<16	11600
Lead	ug/l	3.1	ND<1.1	ND<1.1	ND<1.1		1.8	ND<1.1	1.8
Mercury	ug/l	ND<0.034	ND<0.034	ND<0.034	ND<0.034		ND<0.034	ND<0.034	ND<0.034
Nickel	ug/l	3.9	1.4	ND<0.35	ND<0.35		2.3	1.6	1.9
Selenium	ug/l	ND<3.4	ND<3.4	ND<3.4	ND<3.4		ND<3.4	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	ND<1.4		ND<1.4	ND<1.4	ND<1.4
Thallium	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<1.8		ND<1.8	ND<1.8	ND<1.8
Zinc	ug/l	20.1	23.4	13.8	16.8		31.2	58	14.4

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-37I**	**ERT-37I**	**ERT-37I**	**ERT-37S**	**ERT-37S**	**ERT-40D**	**ERT-40D**	**ERT-40I**
Date Sampled		8/17/2016	8/18/2016	8/18/2016	8/17/2016	8/17/2016	8/17/2016	8/17/2016	8/18/2016
Total/Dissolved		D	T	D	T	D	D	T	T
Compound	Units								
Antimony	ug/l	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2
Arsenic	ug/l	ND<2.0	2	ND<2.0	3.1	ND<2.0	ND<2.0	ND<2.0	11
Barium	ug/l	127	138	108	297	212	38.3	ND<0.57	88.4
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chromium	ug/l	1.1	2.9	ND<1.1	2.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1
Copper	ug/l	4.4	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	4.4
Iron	ug/l	532	1080	21.7	796	154	17.8	ND<16	1640
Lead	ug/l	ND<1.1	2.4	ND<1.1	1.8	ND<1.1	ND<1.1	ND<1.1	2.4
Mercury	ug/l	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034	ND<0.034
Nickel	ug/l	1.4	2	2.2	1.4	1	0.8	ND<0.35	2.2
Selenium	ug/l	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4
Thallium	ug/l	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Zinc	ug/l	16.1	20.7	26.5	14	16.1	26.6	11.7	15.1

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-40I**	**ERT-40S**	**ERT-40S**	**ERT-41D**	**ERT-41I**	**ERT-41S**	**ERT-42S**	**ERT-42S**
Date Sampled		8/18/2016	8/17/2016	8/17/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016	8/17/2016
Total/Dissolved		D	D	T	T	T	T	T	D
Compound	Units								
Antimony	ug/l	ND<1.2	ND<1.2	ND<1.2	-		-	ND<1.2	ND<1.2
Arsenic	ug/l	7.2	2	ND<2.0	-		-	2.4	2
Barium	ug/l	84.9	58.1	37.1	-		-	131	117
Beryllium	ug/l	ND<0.34	ND<0.34	ND<0.34	-		-	ND<0.34	ND<0.34
Cadmium	ug/l	ND<0.30	ND<0.30	ND<0.30	-		-	ND<0.30	ND<0.30
Chromium	ug/l	ND<1.1	ND<1.1	ND<1.1	-		-	ND<1.1	ND<1.1
Copper	ug/l	4.9	ND<4.2	ND<4.2	-		-	ND<4.2	ND<4.2
Iron	ug/l	1100	ND<16	306	31600	1140	197	245	21.2
Lead	ug/l	1.5	ND<1.1	ND<1.1	-		-	1.4	ND<1.1
Mercury	ug/l	ND<0.034	ND<0.034	ND<0.034	-		-	ND<0.034	ND<0.034
Nickel	ug/l	3.6	1.7	1.6	-		-	1	1.8
Selenium	ug/l	ND<3.4	ND<3.4	ND<3.4	-		-	ND<3.4	ND<3.4
Silver	ug/l	ND<1.4	ND<1.4	ND<1.4	-		-	ND<1.4	ND<1.4
Thallium	ug/l	ND<1.8	ND<1.8	ND<1.8	-		-	ND<1.8	ND<1.8
Zinc	ug/l	34.5	17.3	17.6	-		-	15.3	25.2

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 4.
Baseline Metals Concentrations in Groundwater

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-43I**	**ERT-43S**	**ERT-43S (DUP)**	**ERT-44S**	**RB-01**
Date Sampled		8/18/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016
Total/Dissolved		T	T	T	T	T
Compound	Units					
Antimony	ug/l					ND<1.2
Arsenic	ug/l					ND<2.0
Barium	ug/l					62.9
Beryllium	ug/l					ND<0.34
Cadmium	ug/l					ND<0.30
Chromium	ug/l					ND<1.1
Copper	ug/l					ND<4.2
Iron	ug/l	1710	958	1110	511	51.5
Lead	ug/l					ND<1.1
Mercury	ug/l					ND<0.034
Nickel	ug/l					1.5
Selenium	ug/l					ND<3.4
Silver	ug/l					ND<1.4
Thallium	ug/l					ND<1.8
Zinc	ug/l					10.4

ND = Not Detected
Blank space indicates that compound was not analyzed.

Table 5.
Baseline Chemical MNA Parameters

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**MW-04D**	**MW-04S**	**MW-13D**	**MW-13S**	**MW-13S (DUP)**	**ERT-33D**	**ERT-33I**	**ERT-33S**
Date Sampled		8/18/2016	8/17/2016	8/16/2016	8/16/2016	8/16/2016	8/18/2016	8/18/2016	8/17/2016
Compound	Units								
Alkalinity, Total as CaCO3	mg/l	308	311	270	126	126	195	264	278
Carbon Dioxide	mg/l								
Chloride	mg/l	1640	540	220	27.5	26	1460	610	83
Iron, Ferrous	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10
Nitrogen, Nitrate	mg/l	<0.11	0.39	<0.11	<0.11	<0.11	0.12	0.15	<0.11
Nitrogen, Nitrate + Nitrite	mg/l	<0.10	0.42	<0.10	<0.10	<0.10	0.12	0.19	<0.10
Nitrogen, Nitrite	mg/l	<0.010	0.034	<0.010	<0.010	<0.010	<0.010	0.041	<0.010
Specific Conductivity	umhos/cm	9800	2260	1180	426	420	4880	2450	1080
Sulfate	mg/l	3420	38.4	15.6	49	48.2	136	119	155
Sulfide	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
pH	su								
Methane	ug/l	11.3	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9
Carbon Dioxide	ug/l	6250	2580	1890	407	269	1240	2040	1060

ND = Not Detected
DUP = Duplicate Sample
Blank space indicates that compound was not analyzed.

Table 5.
Baseline Chemical MNA Parameters

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-34D**	**ERT-34I**	**ERT-34S**	**ERT-35D**	**ERT-35I**	**ERT-35S**	**ERT-36S**	**ERT-37D**
Date Sampled		8/18/2016	8/18/2016	8/17/2016	8/18/2016	8/18/2016	8/17/2016	8/18/2016	8/18/2016
Compound	Units								
Alkalinity, Total as CaCO3	mg/l	237	320	231	309	241	229	331	370
Carbon Dioxide	mg/l							40.7	-
Chloride	mg/l	510	590	50.5	150	260	36.5	190	260
Iron, Ferrous	mg/l	<0.10	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrate	mg/l	0.11	<0.11	0.32	0.11	<0.11	<0.11	0.44	0.16
Nitrogen, Nitrate + Nitrite	mg/l	0.12	<0.10	0.33	0.12	<0.10	<0.10	0.47	0.17
Nitrogen, Nitrite	mg/l	0.011	<0.010	<0.010	0.015	<0.010	<0.010	0.029	0.01
Specific Conductivity	umhos/cm	2080	2710	614	2150	1690	549	1150	2090
Sulfate	mg/l	59.4	195	14.1	593	253	13.6	31.4	331
Sulfide	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
pH	su							7.2	-
Methane	ug/l	ND<4.9	6.8	ND<4.9	ND<4.9	44.5	48.6	10.7	ND<4.9
Carbon Dioxide	ug/l	1810	2340	1830	1700	4290	1860		1630

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DUP = Duplicate Sample
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Table 5.
Baseline Chemical MNA Parameters

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-37I**	**ERT-37I**	**ERT-37S**	**ERT-40D**	**ERT-40I**	**ERT-40S**	**ERT-41D**	**ERT-41I**
Date Sampled		8/17/2016	8/18/2016	8/17/2016	8/17/2016	8/18/2016	8/17/2016	8/18/2016	8/18/2016
Compound	Units								
Alkalinity, Total as CaCO3	mg/l	271	266	299	<5.0	412	197	261	293
Carbon Dioxide	mg/l							31.5	16.8
Chloride	mg/l	150	160	205	<1.0	190	58	260	12.5
Iron, Ferrous	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrate	mg/l	<0.11	0.21	<0.11	<0.11	<0.11	0.18	<0.11	<0.11
Nitrogen, Nitrate + Nitrite	mg/l	0.11	0.27	<0.10	<0.10	<0.10	0.18	0.11	0.11
Nitrogen, Nitrite	mg/l	0.093	0.065	<0.010	<0.010	<0.010	<0.010	0.012	0.03
Specific Conductivity	umhos/cm	1070	1110	1240	1.3	2220	557	1700	1310
Sulfate	mg/l	64.7	58.9	28.8	<5.0	521	8.9	317	44.5
Sulfide	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
pH	su							7.2	7.5
Methane	ug/l	75.3	22.3	ND<4.9	ND<4.9	ND<4.9	ND<4.9	11.6	ND<4.9
Carbon Dioxide	ug/l	4530	2910	2140	165	5570	1080	-	

ND = Not Detected
DUP = Duplicate Sample
Blank space indicates that compound was not analyzed.

Table 5.
Baseline Chemical MNA Parameters

Crown Cleaners Superfund Site
35968 State Route 3
Village of Herrings, Jefferson County
Carthage, New York
Site ID NYD986965333 / Spill ID 02QF

Monitoring Well ID		**ERT-41S**	**ERT-42S**	**ERT-43I**	**ERT-43S**	**ERT-43S (DUP)**	**ERT-44S**	**RB-01**
Date Sampled		8/18/2016	8/17/2016	8/18/2016	8/18/2016	8/18/2016	8/18/2016	8/17/2016
Compound	Units							
Alkalinity, Total as CaCO3	mg/l	2630	256	391	248	261	205	27.1
Carbon Dioxide	mg/l	<5.0		26.4	12.2	11.4	9.8	
Chloride	mg/l	220	165	185	73.5	71	15	150
Iron, Ferrous	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrate	mg/l	<0.11	0.13	<0.11	0.16	0.18	0.25	0.21
Nitrogen, Nitrate + Nitrite	mg/l	<0.10	0.16	<0.10	0.17	0.18	0.3	0.22
Nitrogen, Nitrite	mg/l	0.013	0.031	<0.010	<0.010	<0.010	0.047	<0.010
Specific Conductivity	umhos/cm	1900	1040	1880	797	717	443	1110
Sulfate	mg/l	13.5	25.8	261	20.4	19.7	13.9	28.9
Sulfide	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
pH	su	12.2		7.5	7.6	7.7	7.6	
Methane	ug/l	351	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	11.5
Carbon Dioxide	ug/l	-	1390					1670

ND = Not Detected
DUP = Duplicate Sample
Blank space indicates that compound was not analyzed.

APPENDIX A

INJECTION POINT SUMMARY TABLE

Injection Point Summary Table

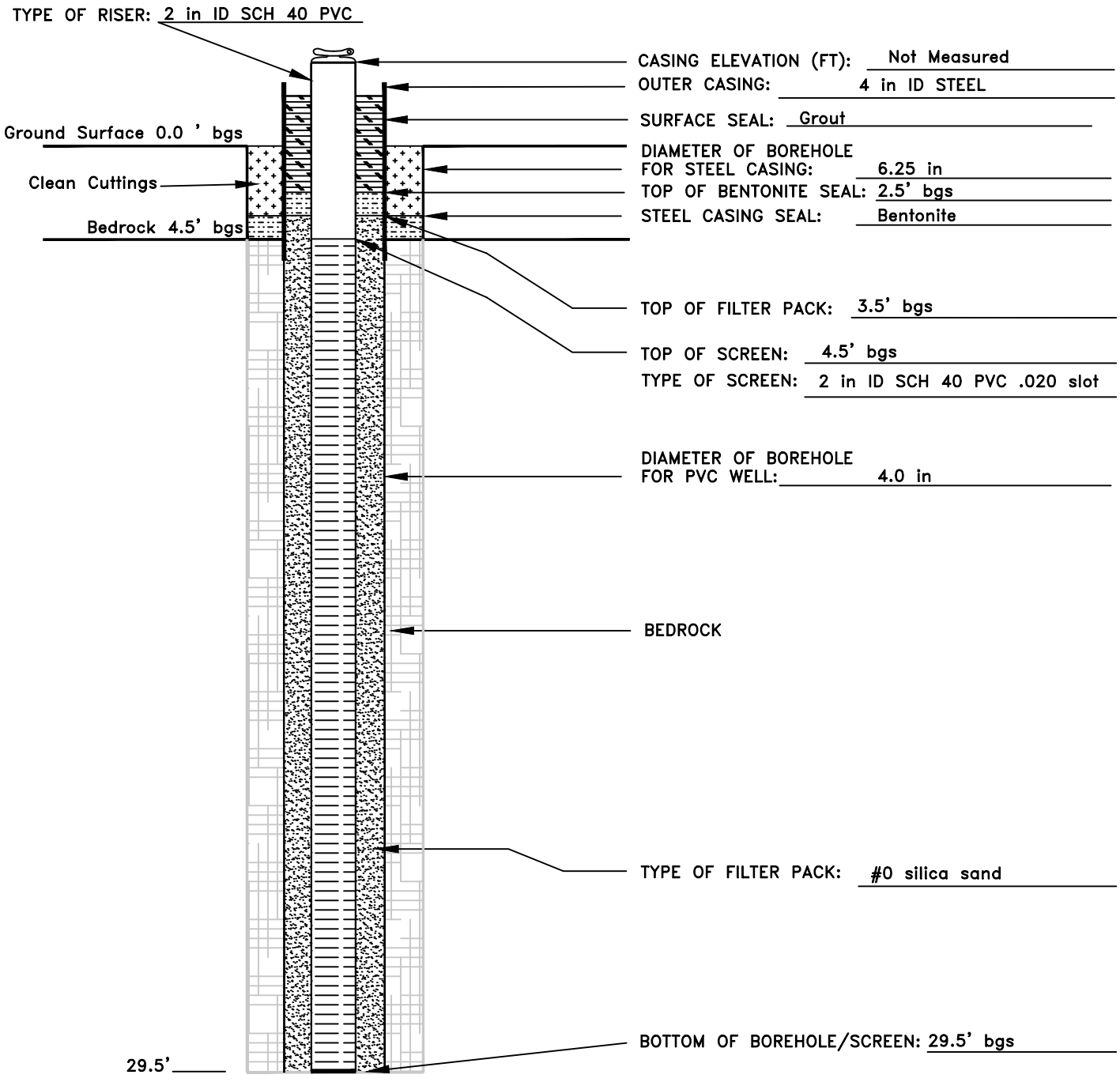
Injection Well Identification	Year Installed	Northing (feet)	Easting (feet)	Total Depth of Well (feet)	Outer Casing Size (inches)	Inner Casing Size (inches)	Top of Bedrock (feet)	Casing Depth (feet)	Screen Length (feet)	Depth of Screen Interval (feet)
IP-01s	2016	1467481.019	1064819.259	29.5	4	2	4.5	5.5	25	4.5-29.5
IP-01i	2016	1467486.322	1064819.096	55	6		5	25.5	25	30-55
IP-01d				75					15	60-75
IP-02s	2016	1467493.048	1064840.042	30	4	2	4.5	6	25	5-30
IP-02i	2016	1467496.245	1064841.058	55	6		4.5	25	25	30-55
IP-02d				75					15	60-75
IP-03s	2016	1467502.343	1064861.544	30	4	2	4.5	5.5	25	5-30
IP-03i	2016	1467508.178	1064861.436	55	6		5	25	25	30-55
IP-03d				75					15	60-75
IP-04s	2016	1467500.415	1064904.310	30	4	2	3.5	4.5	25	5-30
IP-05s	2016	1467490.274	1064881.796	30	4	2	2	4	25	5-30
IP-05i	2016	1467495.308	1064881.379	55	6		3	25	25	30-55
IP-05d				75					15	60-75
IP-06s	2016	1467479.710	1064860.595	30	4	2	3	4	25	5-30
IP-06i	2016	1467482.905	1064856.458	55	6		3	25	25	30-55
IP-06d				75					15	60-75
IP-07s	2016	1467468.521	1064839.192	30	4	2	3.5	5.5	25	5-30
IP-07i	2016	1467473.115	1064838.580	55	6		3.5	25	25	30-55
IP-07d				75					15	60-75
IP-08s	2016	1467457.558	1064817.853	30	4	2	4	5	25	5-30
IP-08i	2016	1467463.002	1064817.310	55	6		3.5	25	25	30-55
IP-08d				75					15	60-75
IP-09s	2016	1467446.221	1064796.563	30	4	2	4.5	5.5	25	5-30
IP-09i	2016	1467451.466	1064797.477	55	6		4.5	25	25	30-55
IP-09d				75					15	60-75
IP-10s	2016	1467422.247	1064794.952	30	4	2	4.5	5.5	25	5-30
IP-10i	2016	1467428.264	1064799.601	55	6		4	6	25	30-55
IP-10d				75					15	60-75
IP-11s	2016	1467434.028	1064816.779	30	4	2	5	5.5	25	5-30
IP-11i	2016	1467438.805	1467445.149	55	6		5	25	25	30-55
IP-11d			1467445.149	75					15	60-75
IP-12s	2016	1467445.149	1064838.938	30	4	2	4.5	5.5	25	5-30
IP-12i	2016	1467449.902	1064837.195	55	6		3.5	25	25	30-55
IP-12d				75					15	60-75
IP-13s	2016	1467455.123	1064859.891	30	4	2	4	5	25	5-30
IP-13i	2016	1467459.907	1064860.260	55	6		4.5	25	25	30-55
IP-13d				75					15	60-75
IP-14s	2016	1467467.080	1064881.127	30	4	2	4	4.5	25	5-30
IP-14i	2016	1467471.271	1064880.951	55	6		4	25	25	30-55
IP-14d				75					15	60-75
IP-15s	2016	1467482.309	1064905.417	30	4	2	5	6	25	5-30
IP-16s	2016	1467488.418	1064924.727	30	4	2	3	4	25	5-30
IP-17s	2016	1467475.478	1064944.308	30	4	2	5.5	6	25	5-30
IP-18s	2016	1467465.034	1064923.668	30	4	2	5	6	25	5-30
IP-19s	2016	1467454.517	1064901.445	30	4	2	3.5	4.5	25	5-30
IP-20s	2016	1467442.420	1064880.750	30	4	2	5.5	7	25	5-30
IP-20i	2016	1467447.748	1064880.282	55	6	2	5	6	25	30-55
IP-20d				75		2			15	60-75
IP-21s	2016	1467431.125	1064858.683	30	4	2	4.5	5.5	25	5-30
IP-21i	2016	1467435.855	1064857.586	55	6	2	7	8	25	30-55
IP-21d				75		2			15	60-75
IP-22s	2016	1467420.412	1064836.584	30	4	2	4.5	5.5	25	5-30
IP-22i	2016	1467425.906	1064836.529	55	6	2	6	7	25	30-55
IP-22d				75		2			15	60-75

Injection Well Identification	Year Installed	Northing (feet)	Easting (feet)	Total Depth of Well (feet)	Outer Casing Size (inches)	Inner Casing Size (inches)	Top of Bedrock (feet)	Casing Depth (feet)	Screen Length (feet)	Depth of Screen Interval (feet)
IP-23s	2016	1467410.664	1064814.910	30	4	2	3.5	4.5	25	5-30
IP-24s	2016	1467400.892	1064791.492	30	4	2	2.5	4	25	5-30
IP-25s	2016	1467400.892	1064791.492	30	4	2	4	5	25	5-30
IP-26s	2016	1467388.317	1064811.111	30	4	2	4	5	25	5-30
IP-27s	2016	1467397.246	1064834.775	30	4	2	4.5	5.5	25	5-30
IP-28s	2016	1467422.816	1064879.012	30	4	2	6	7.5	25	5-30
IP-28i	2016	1467406.149	1064853.630	55	6	2	5.5	6.5	25	30-55
IP-28d				75		2			15	60-75
IP-29s	2016	1467437.312	1064899.732	30	4	2	5.5	6.5	25	5-30
IP-30s	2016	1467440.058	1064921.425	30	4	2	5.5	6.5	25	5-30
IP-31s	2016	1467450.963	1064943.480	30	4	2	4.5	5.5	25	5-30
IP-32s	2016	1467426.605	1064941.440	30	4	2	5.5	6.5	25	5-30
IP-33s	2016	1467416.687	1064919.316	30	4	2	7.5	8.5	25	5-30
IP-34s	2016	1467405.559	1064898.820	30	4	2	5	6	25	5-30
IP-35s	2016	1467393.864	1064876.963	30	4	2	6	8	25	5-30
IP-36s	2016	1467384.514	1064855.353	30	4	2	3.5	4.5	25	5-30
IP-37s	2016	1467385.008	1064833.919	30	4	2	3	4	25	5-30
IP-38s	2016	1467364.214	1064853.659	30	4	2	1.5	3	25	5-30
IP-39s	2016	1467370.865	1064875.483	30	4	2	3	3.5	25	5-30
IP-40s	2016	1467380.958	1064897.280	30	4	2	6.5	7.5	25	5-30
IP-41s	2016	1467358.214	1064896.084	30	4	2	3	4	25	5-30
IP-42s	2016	1467352.398	1064872.425	30	4	2	2.5	3.5	25	5-30
IP-43s	2016	1467327.826	1064902.151	30	4	2	4	5.5	25	5-30
IP-44i	2016	1467435.329	1064774.710	55	6	2	5	6	25	30-55
IP-44d				75					15	60-75
IP-45i	2016	1467437.756	1064752.020	55	6	2	5	6	25	30-55
IP-45d				75					15	60-75
IP-46s	2016	1467347.569	1064918.999	30	6	2	5	6	25	9-30
IP-46i				55					20	35-55
IP-47s	2016	1467367.461	1064926.874	30	6	2	4	6	25	9-30
IP-47i				55					20	35-55
IP-48s	2016	1467339.210	1064943.347	30	6	2	7	8	25	11-30
IP-48i				55					20	35-55
IP-49s	2016	1467344.213	1064969.931	30	6	2	4	6	25	9-30
IP-49i				55					20	35-55

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-01s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

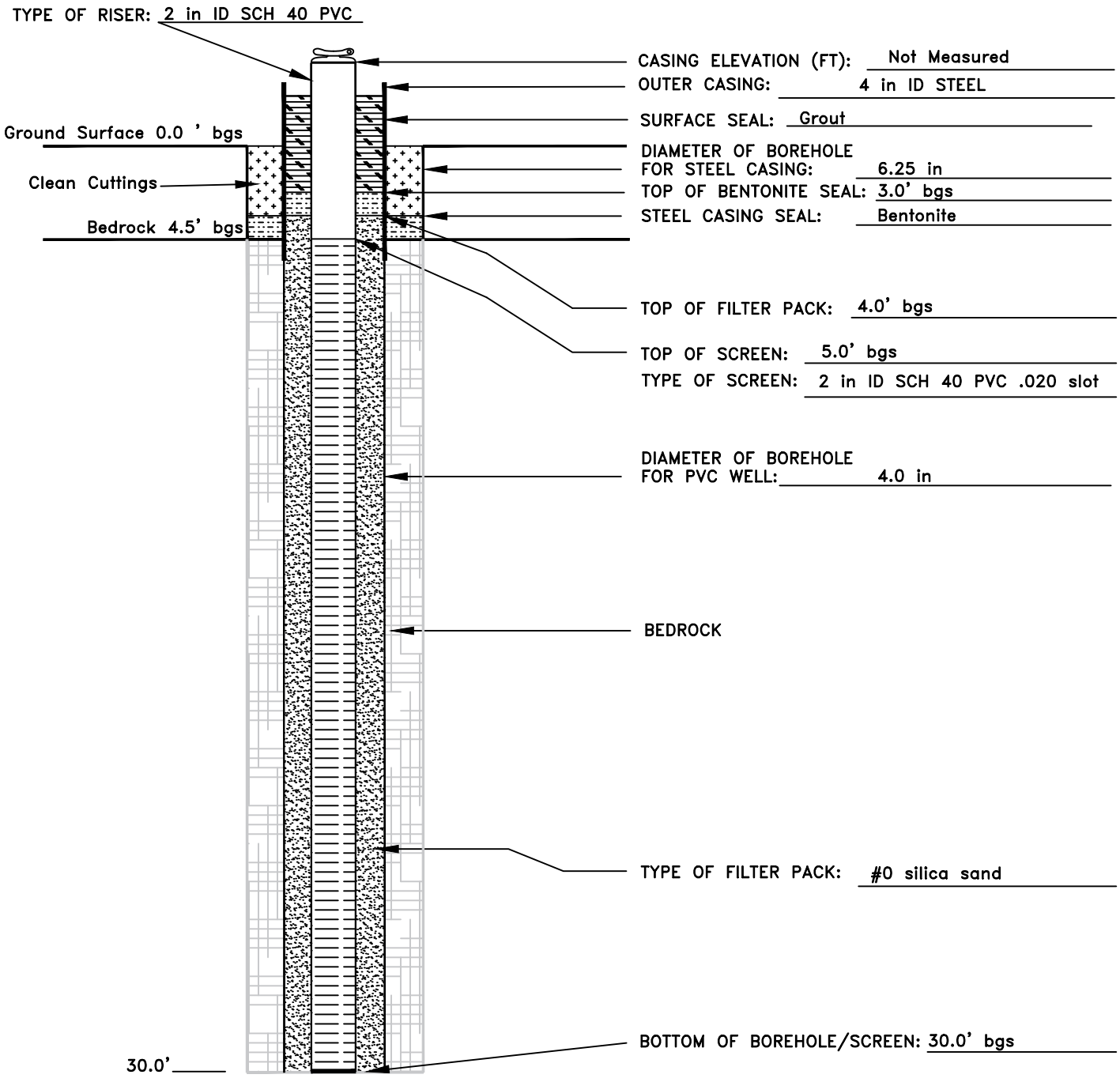


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-02s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

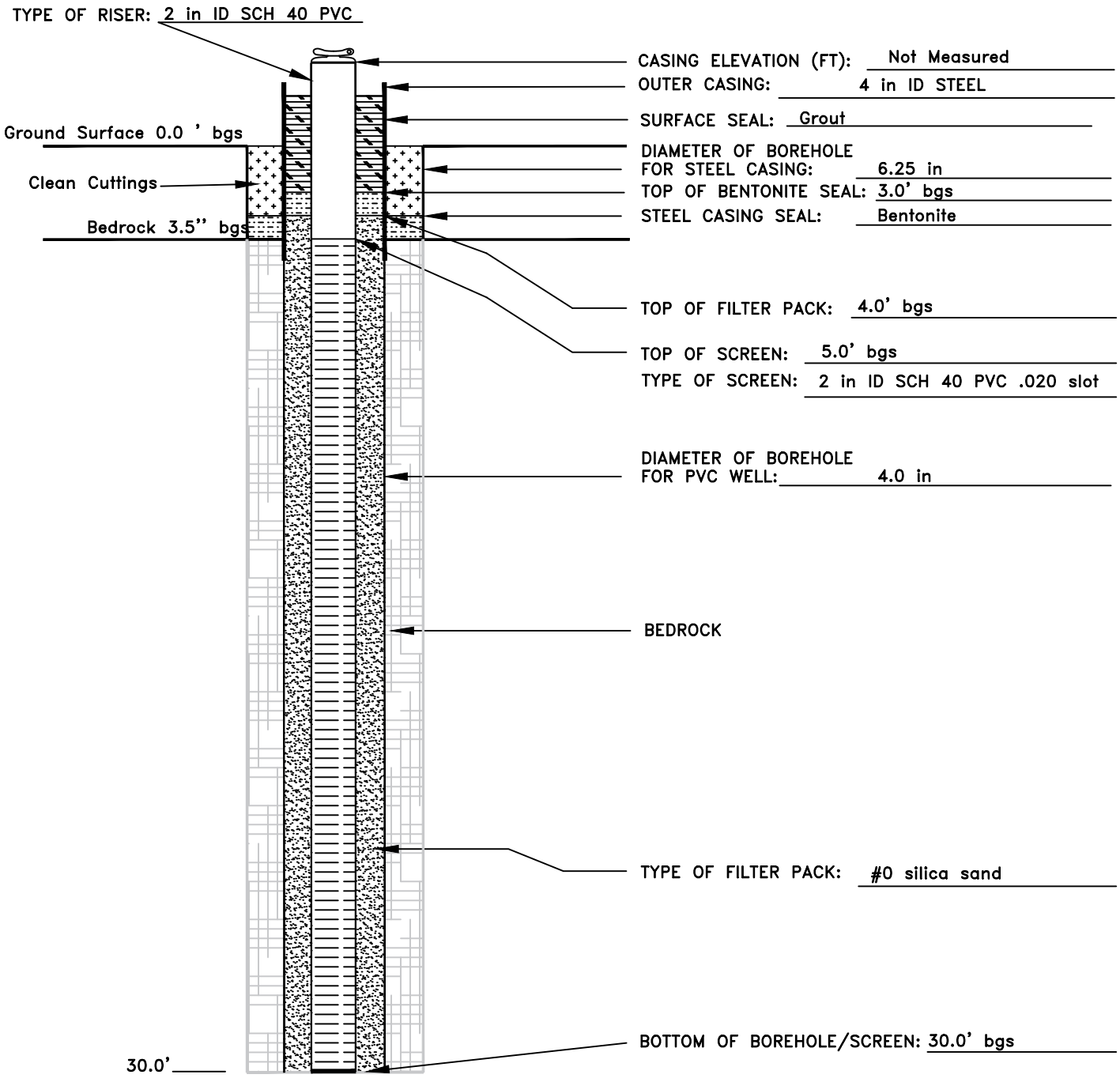


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-03s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

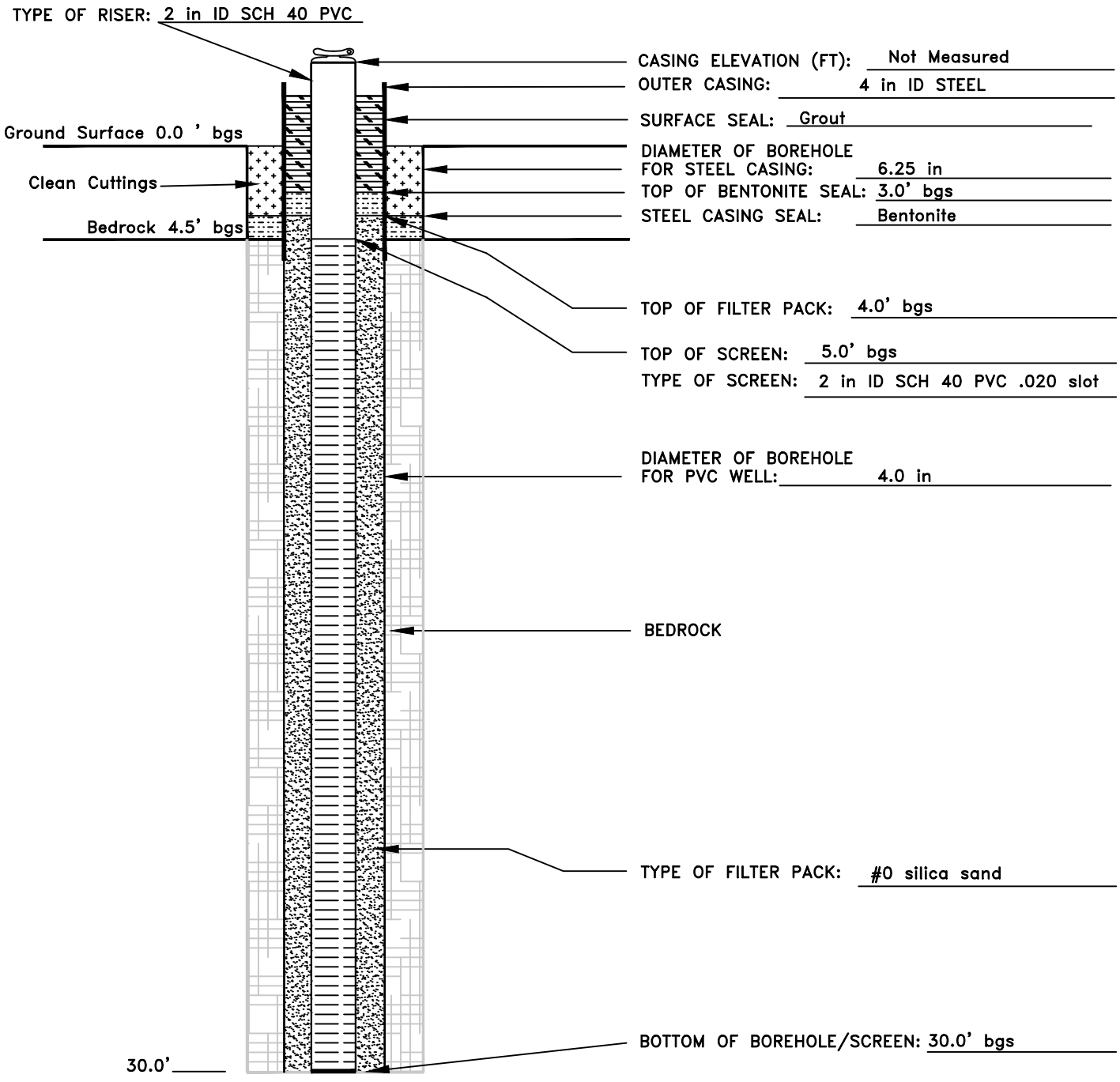


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-04s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



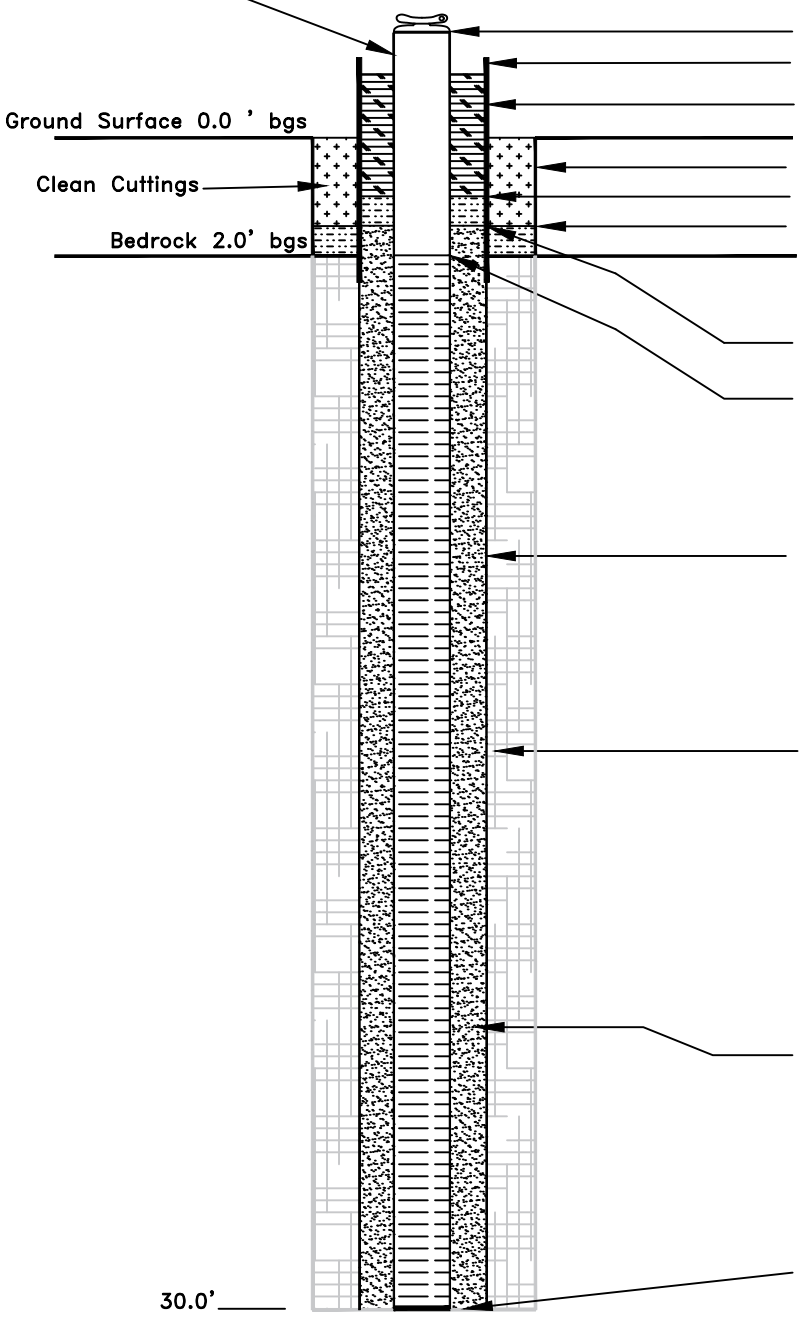
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-05s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich D120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

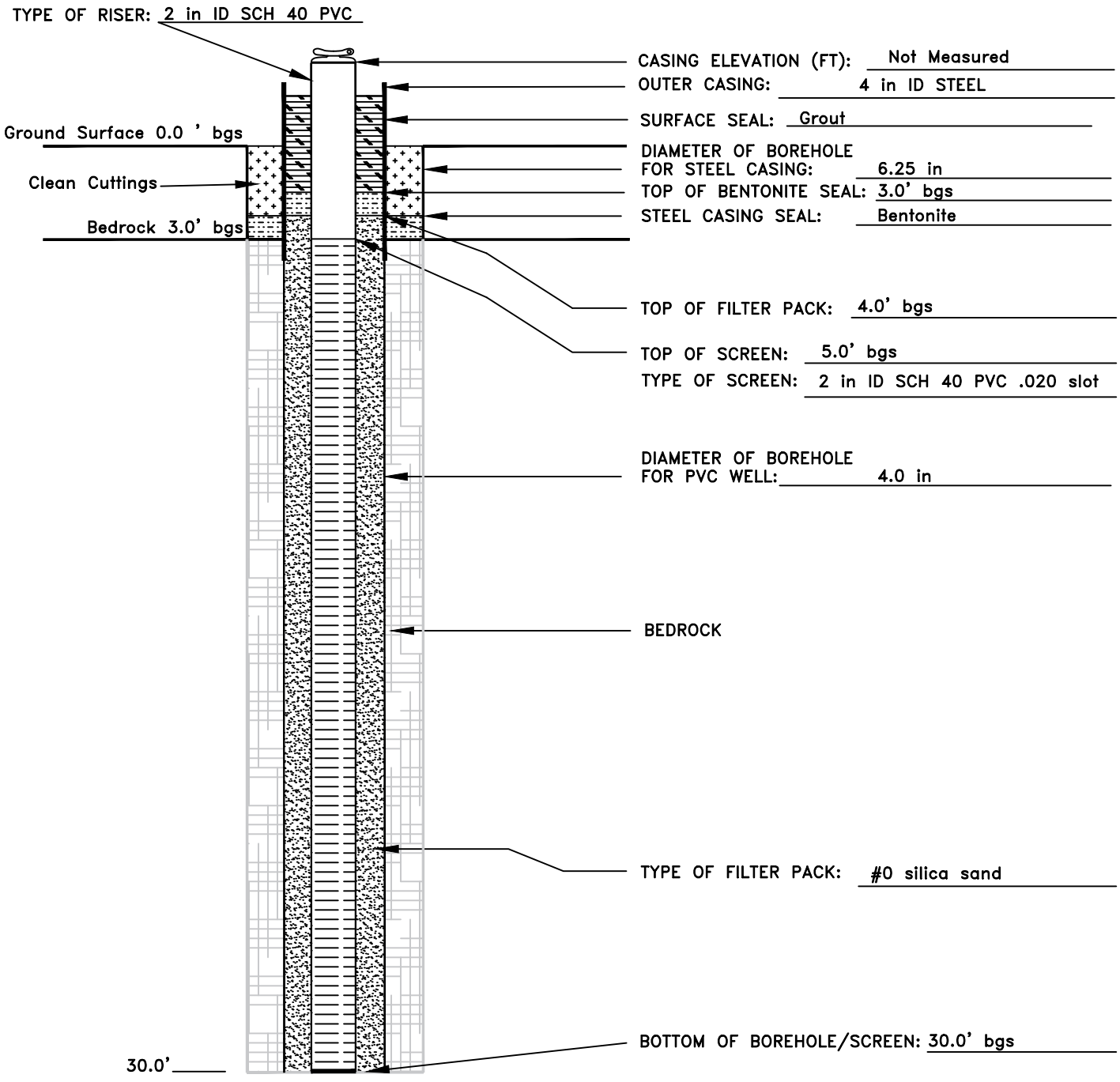
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-06s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

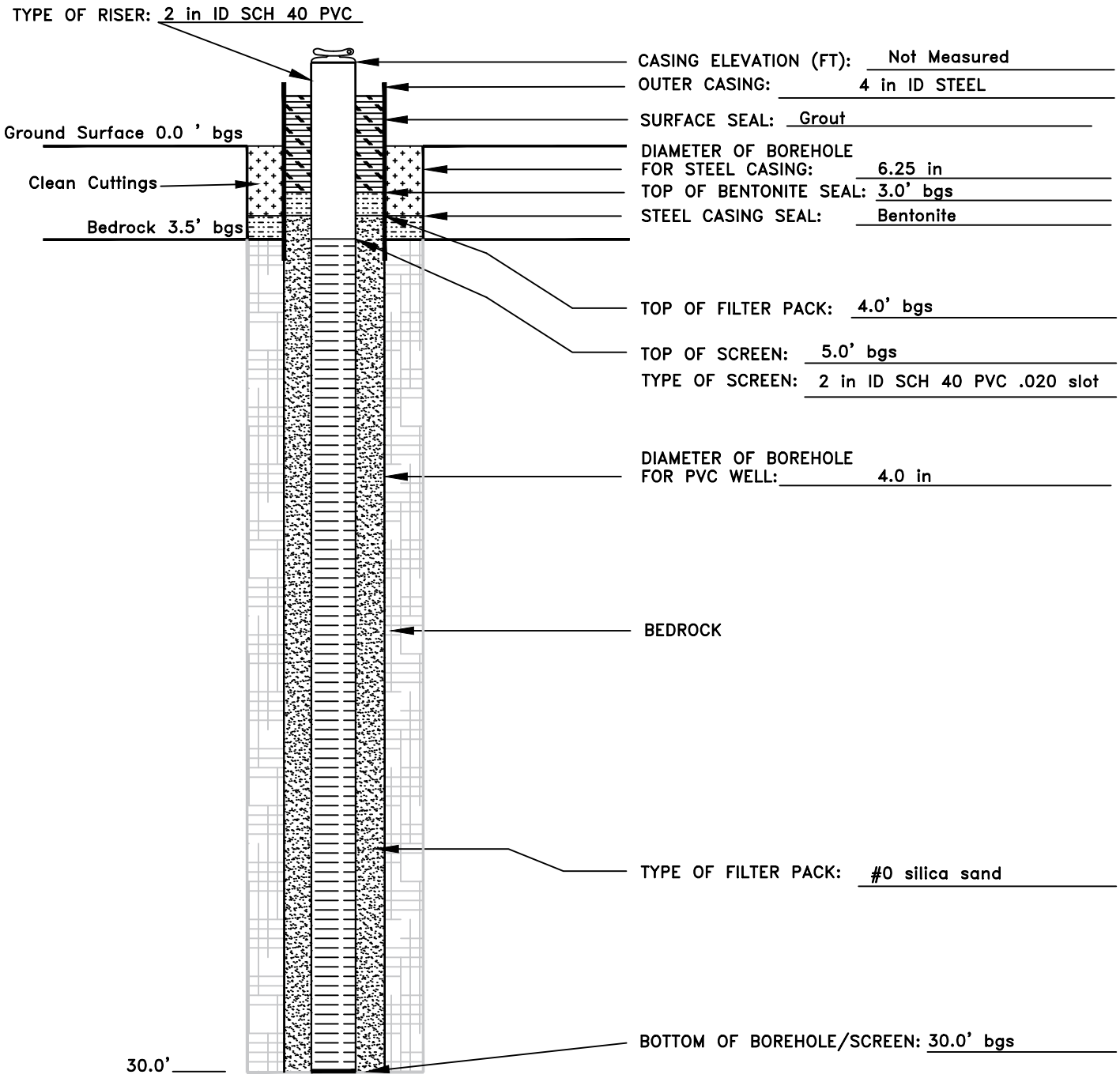


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-07s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

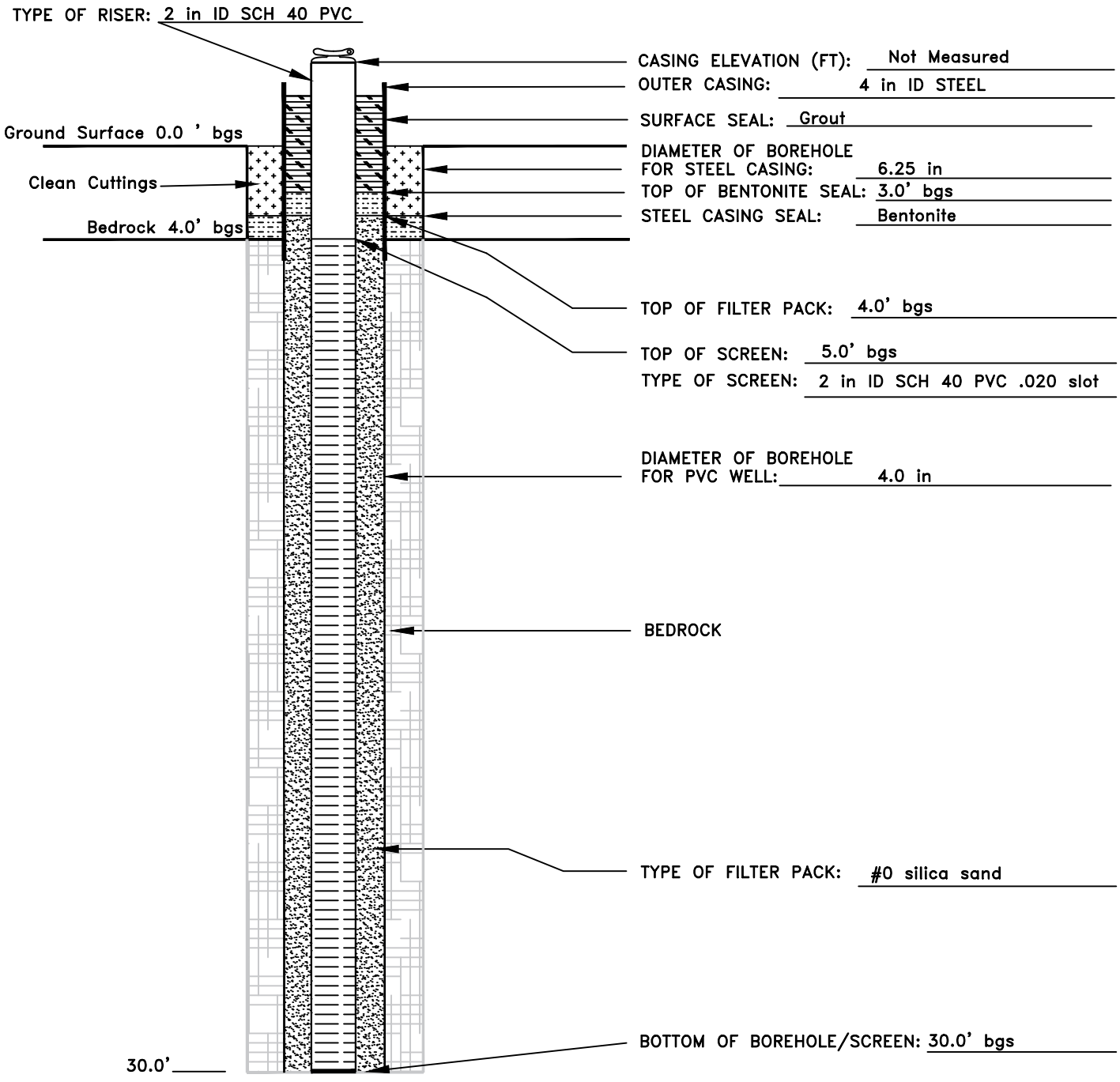


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-08s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

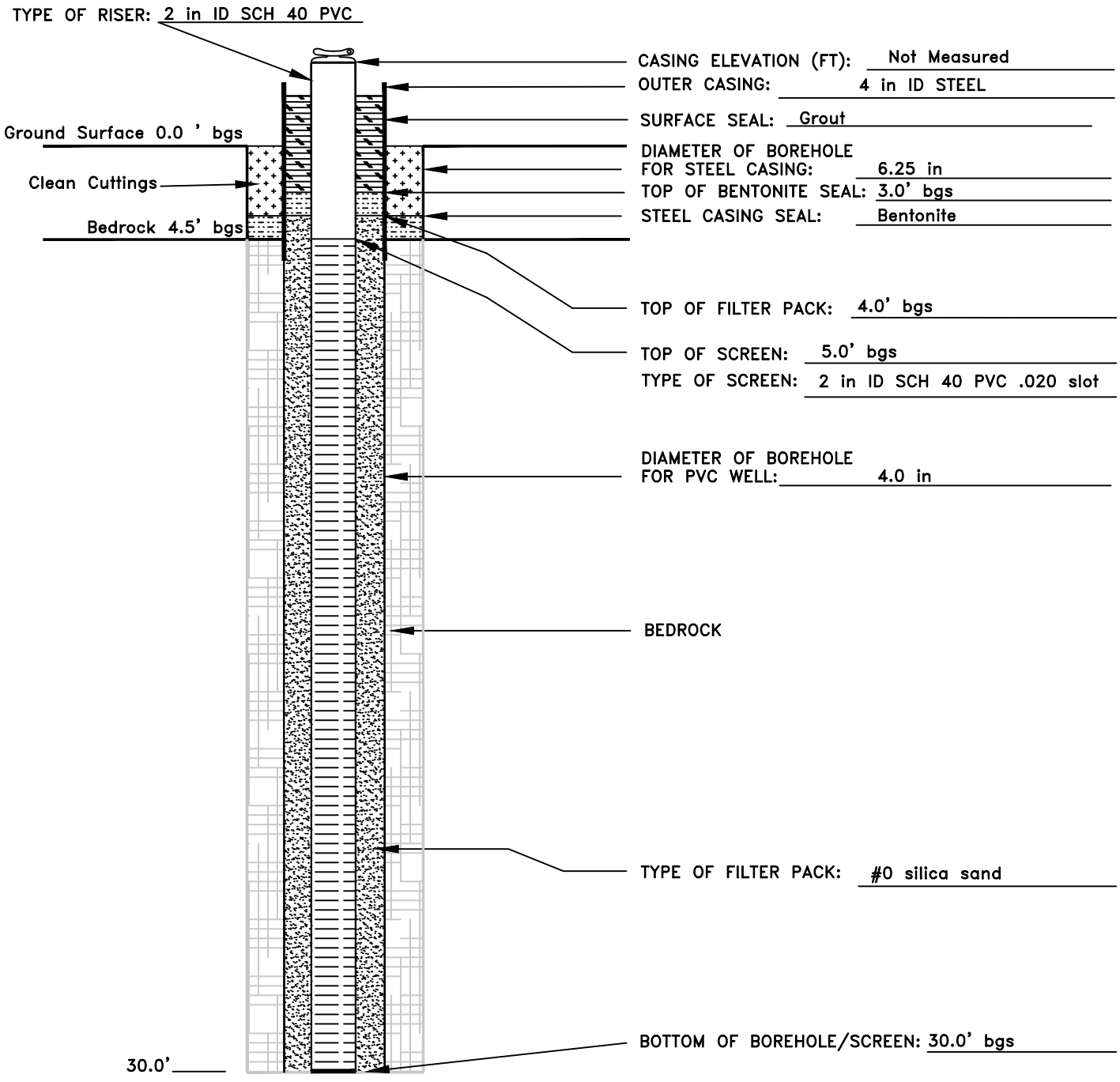


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-09s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

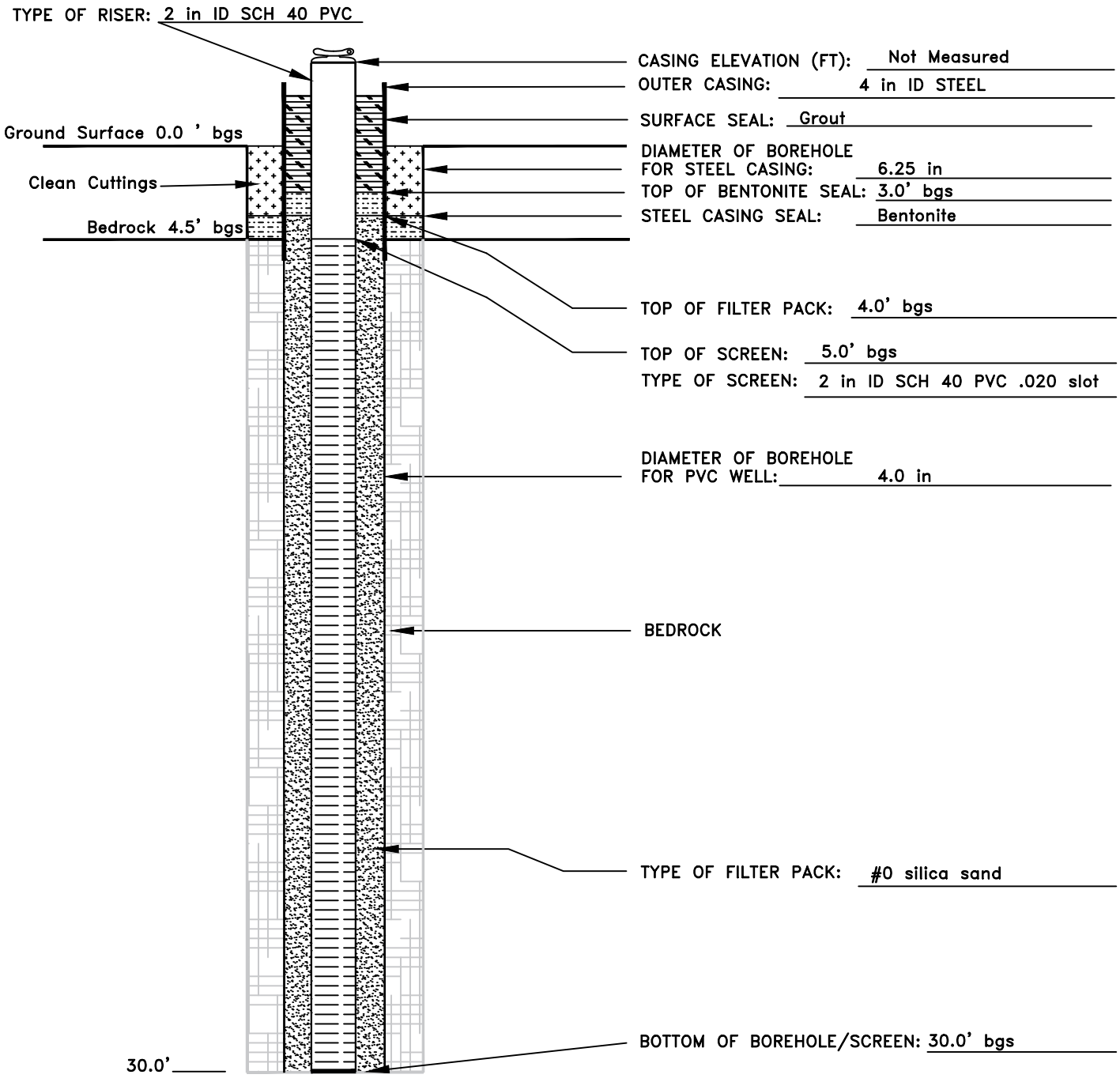


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-10s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

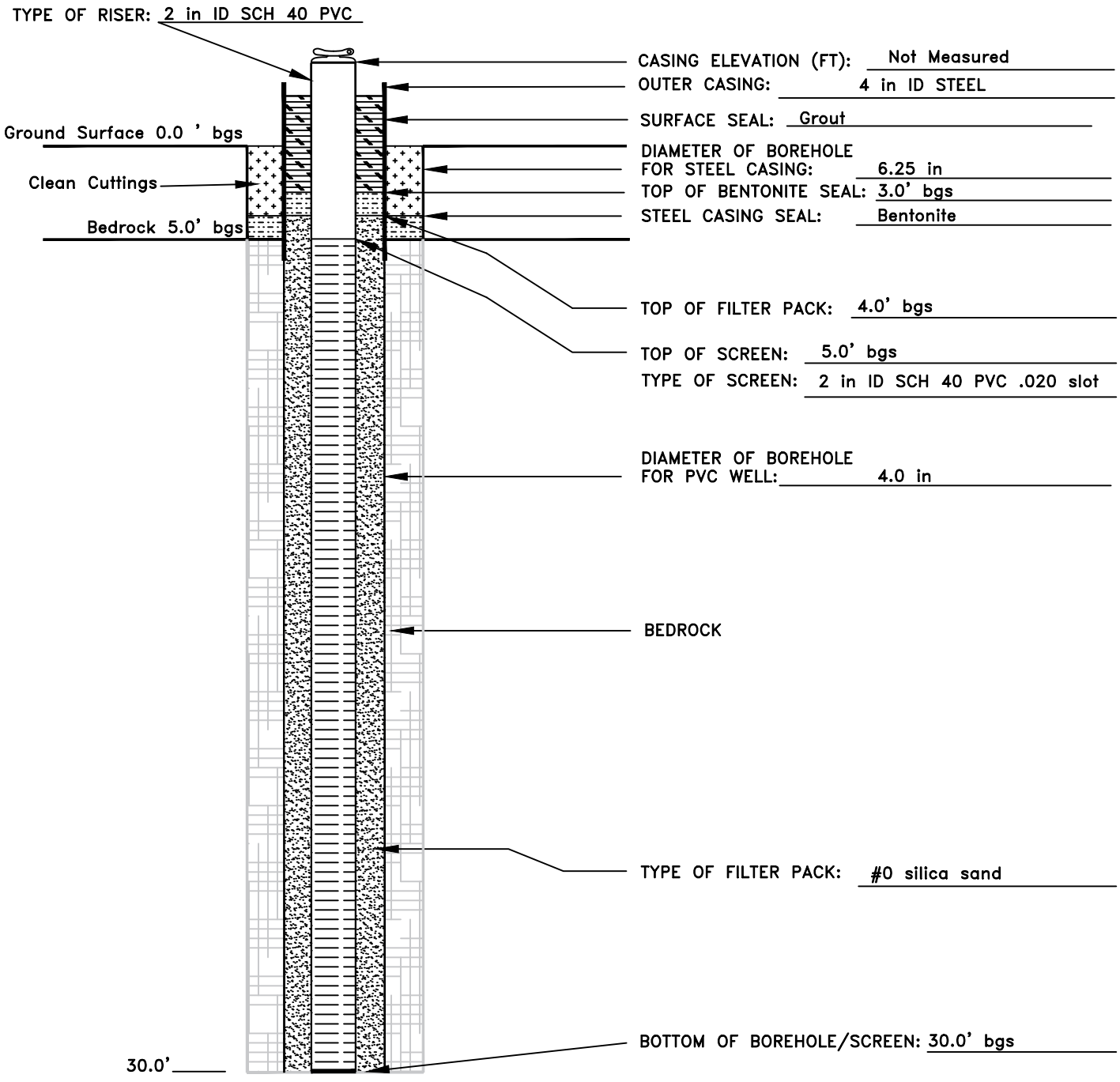


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-11s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

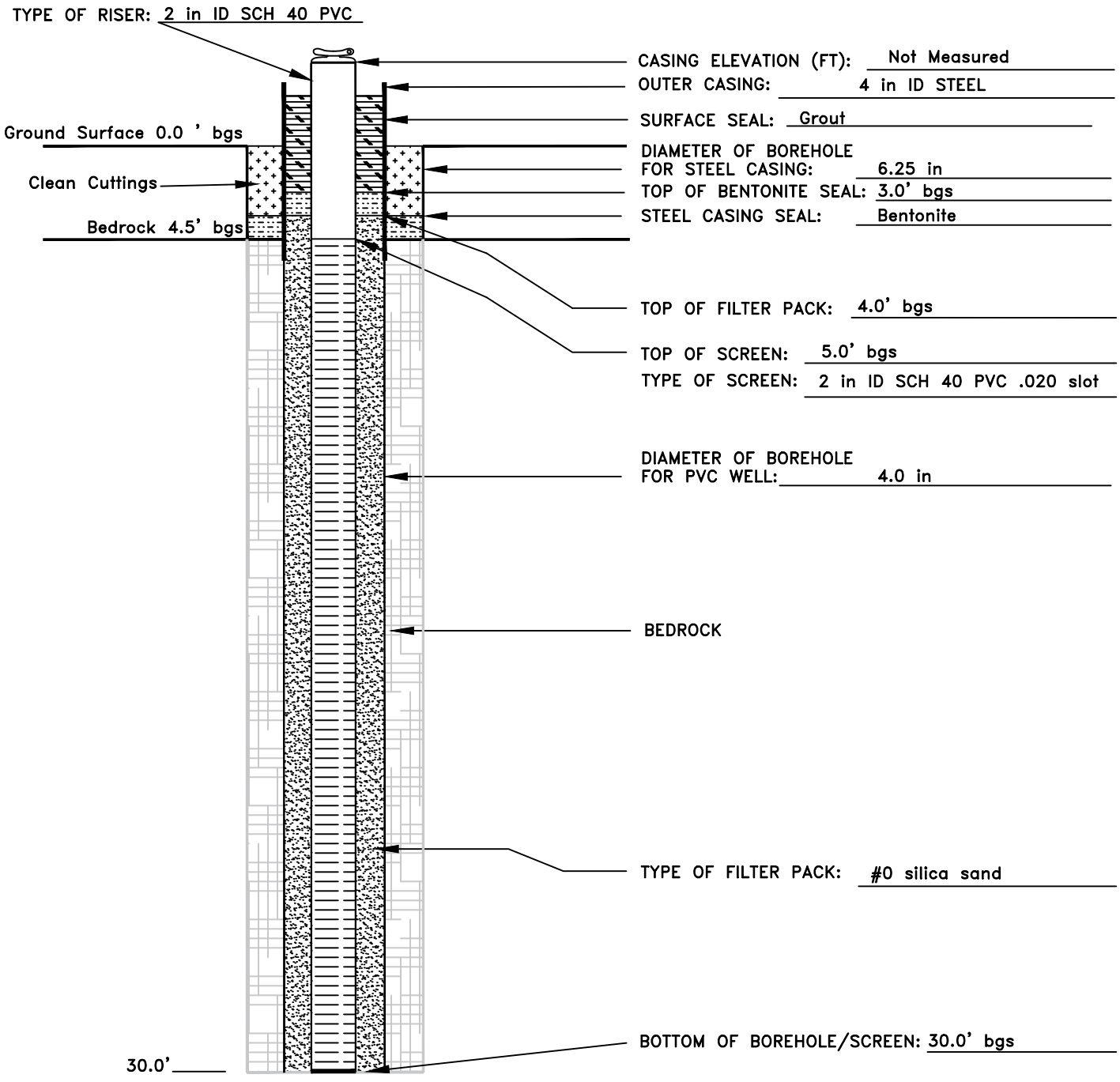


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-12s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

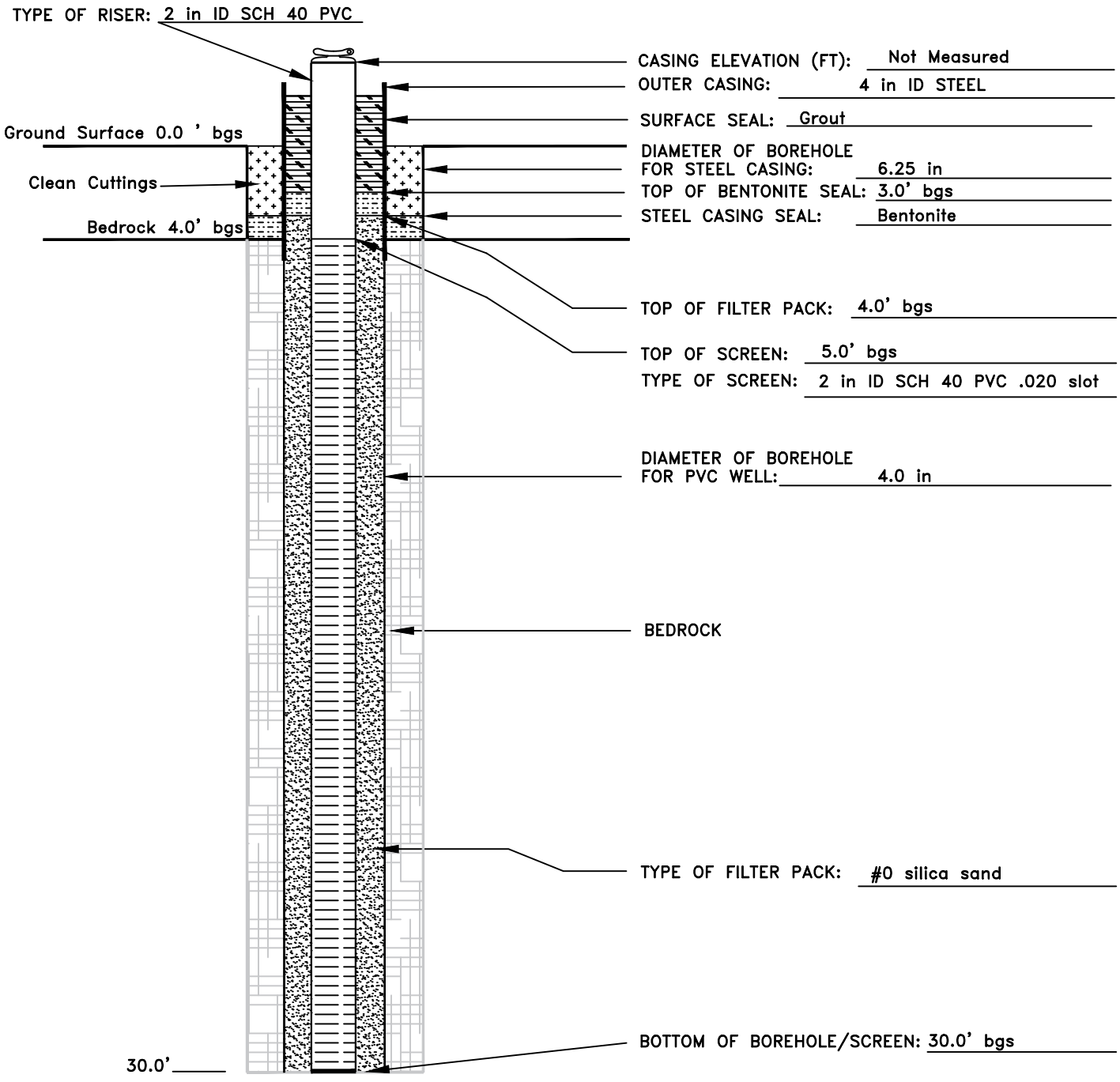


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-13s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



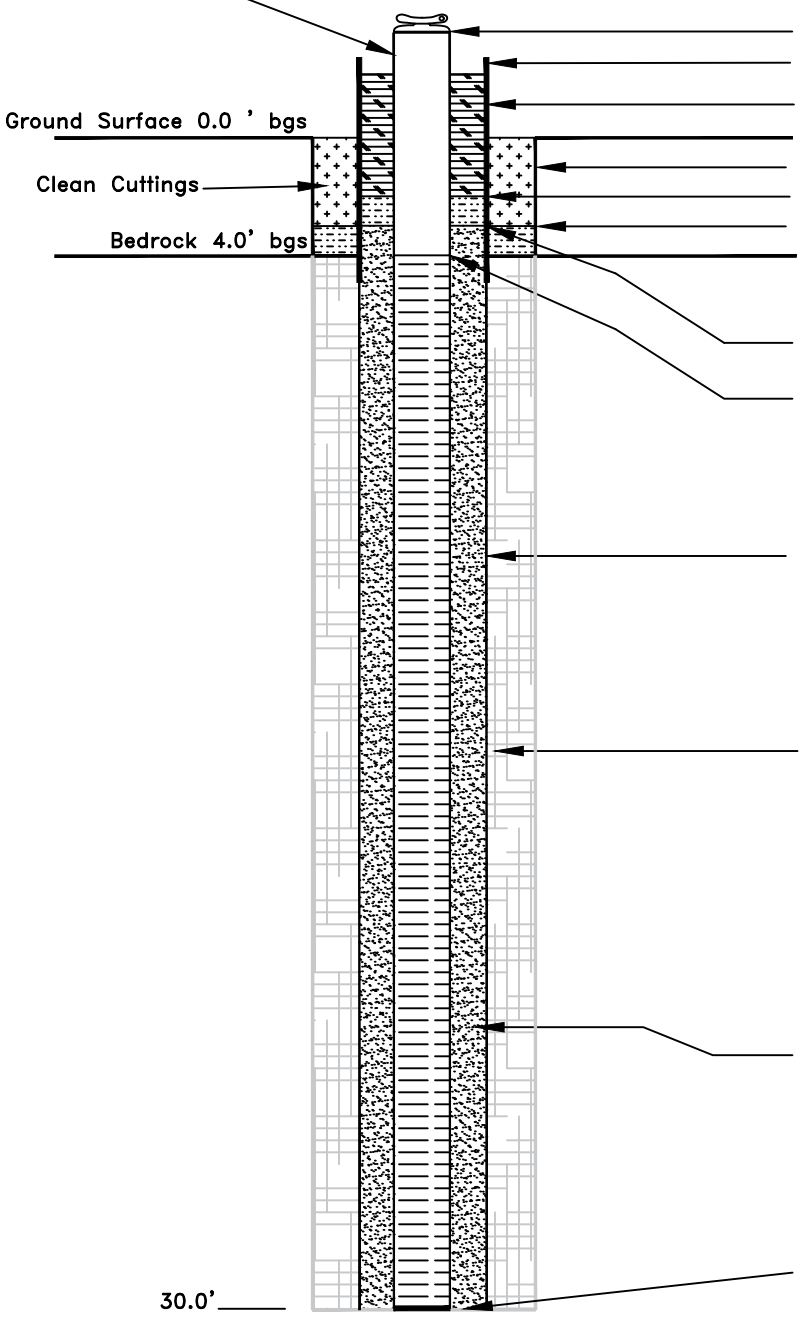
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-14s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

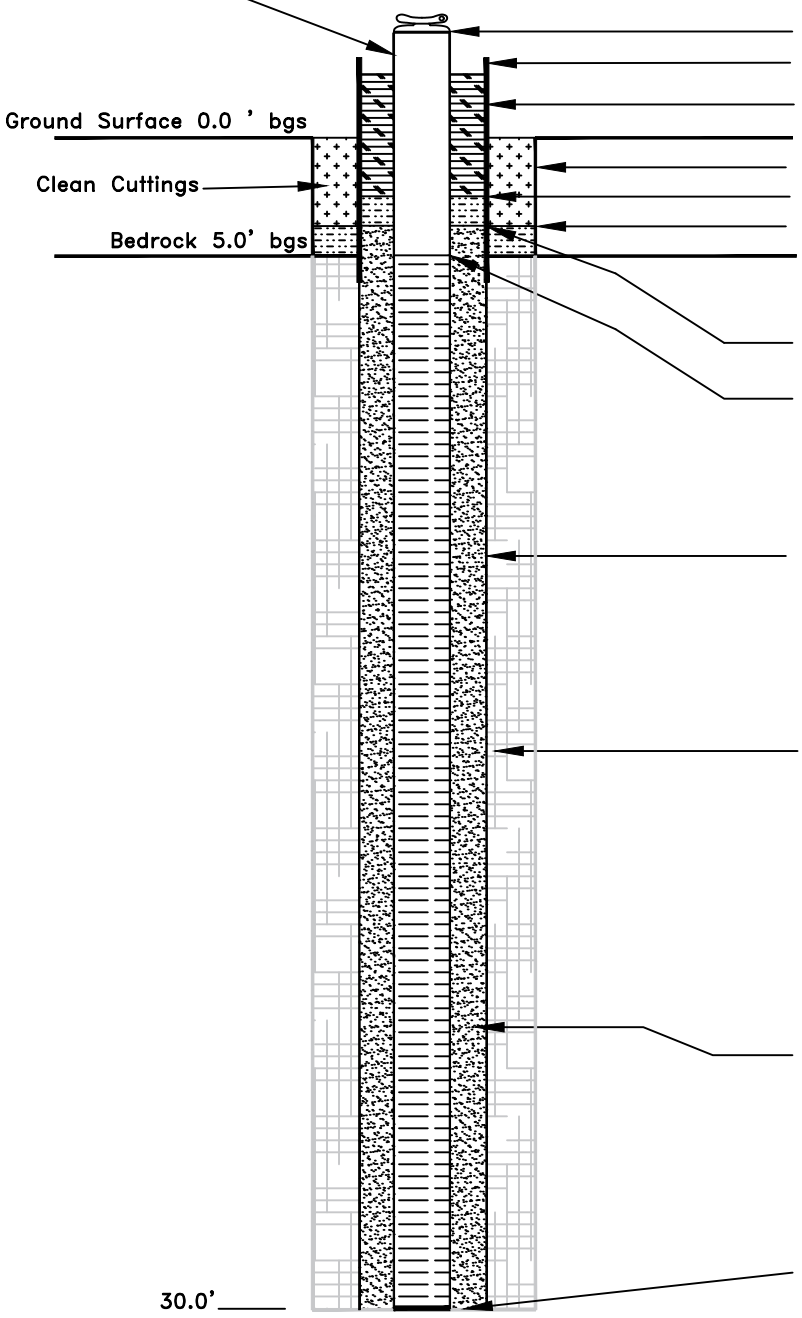
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-15s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

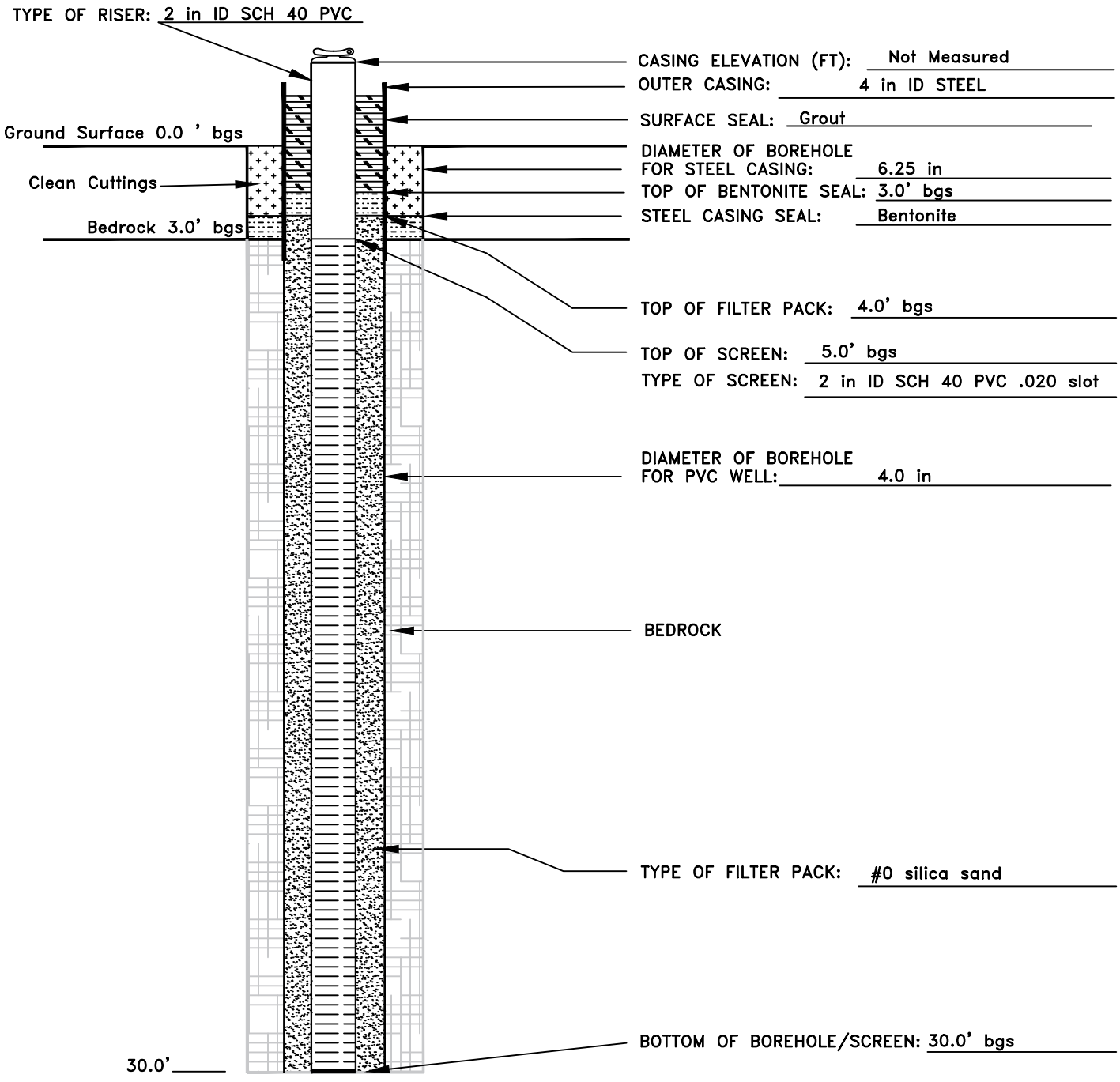
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-16s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason



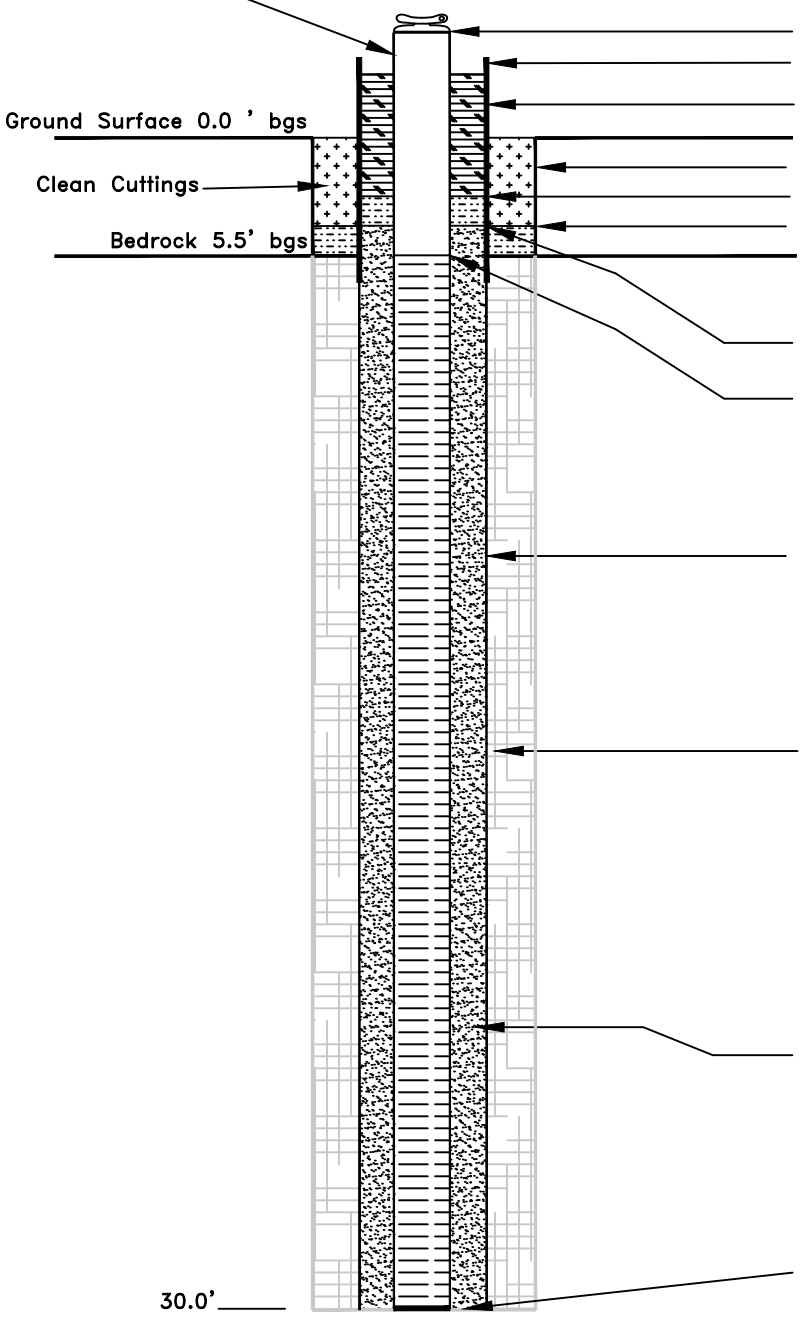
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-17s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

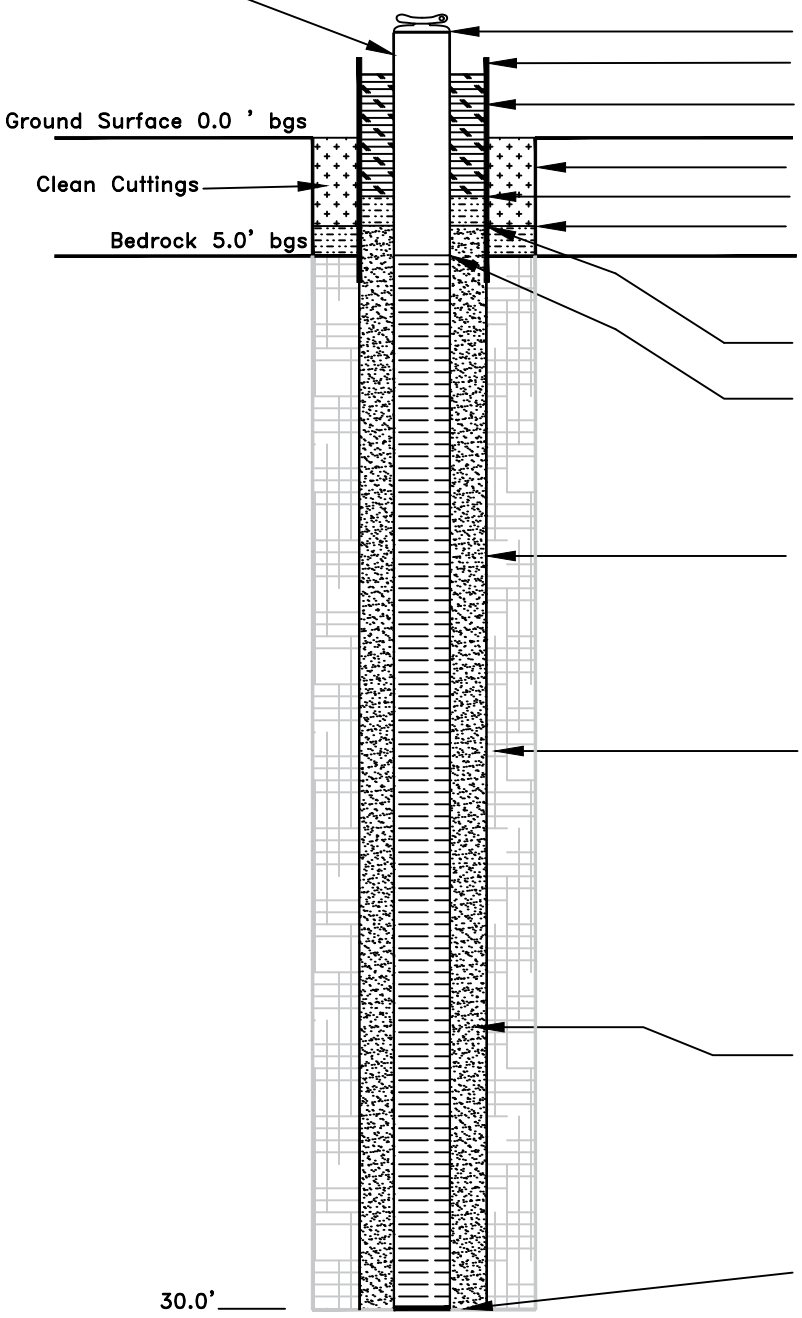
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-18s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

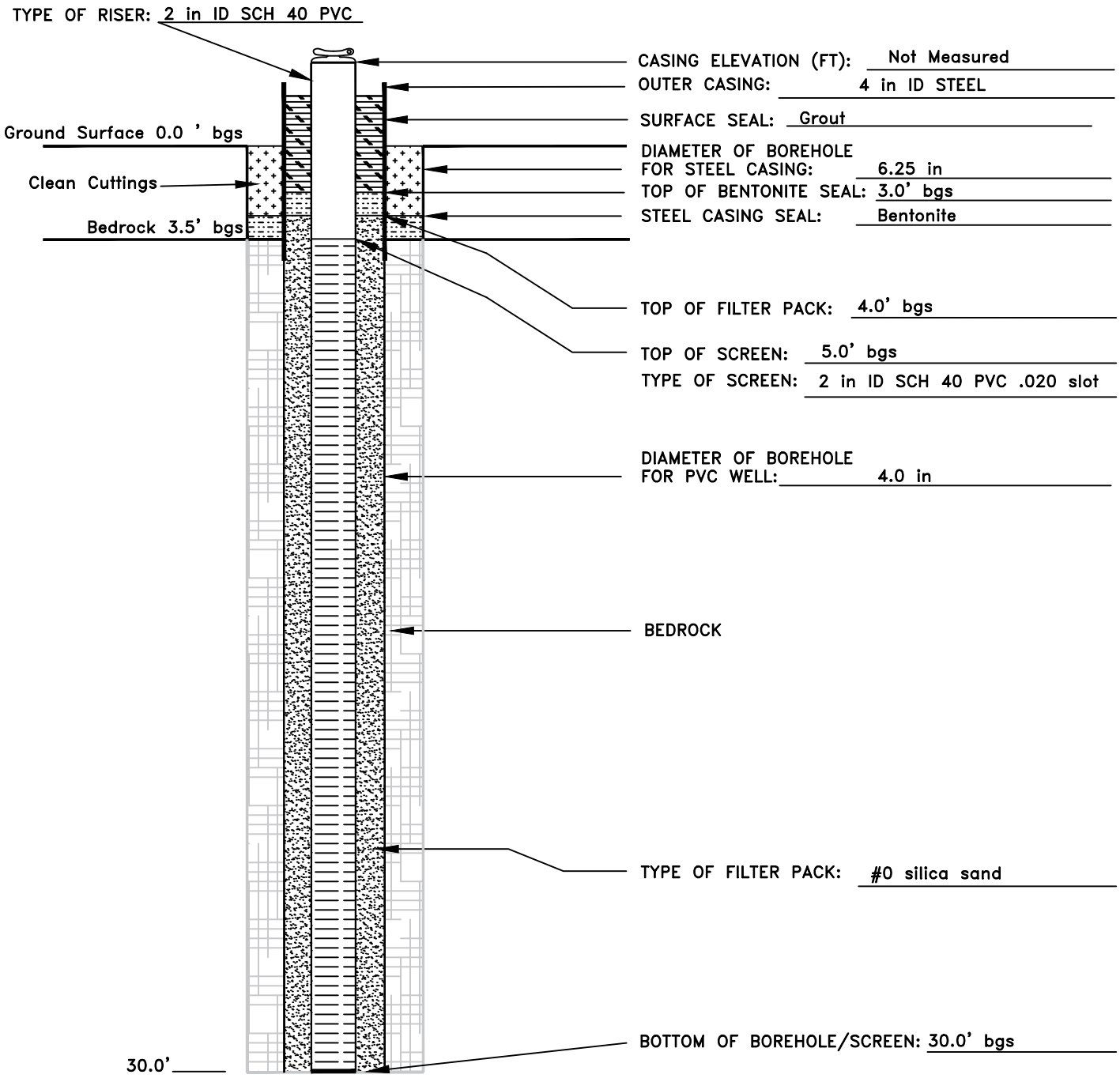
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-19s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



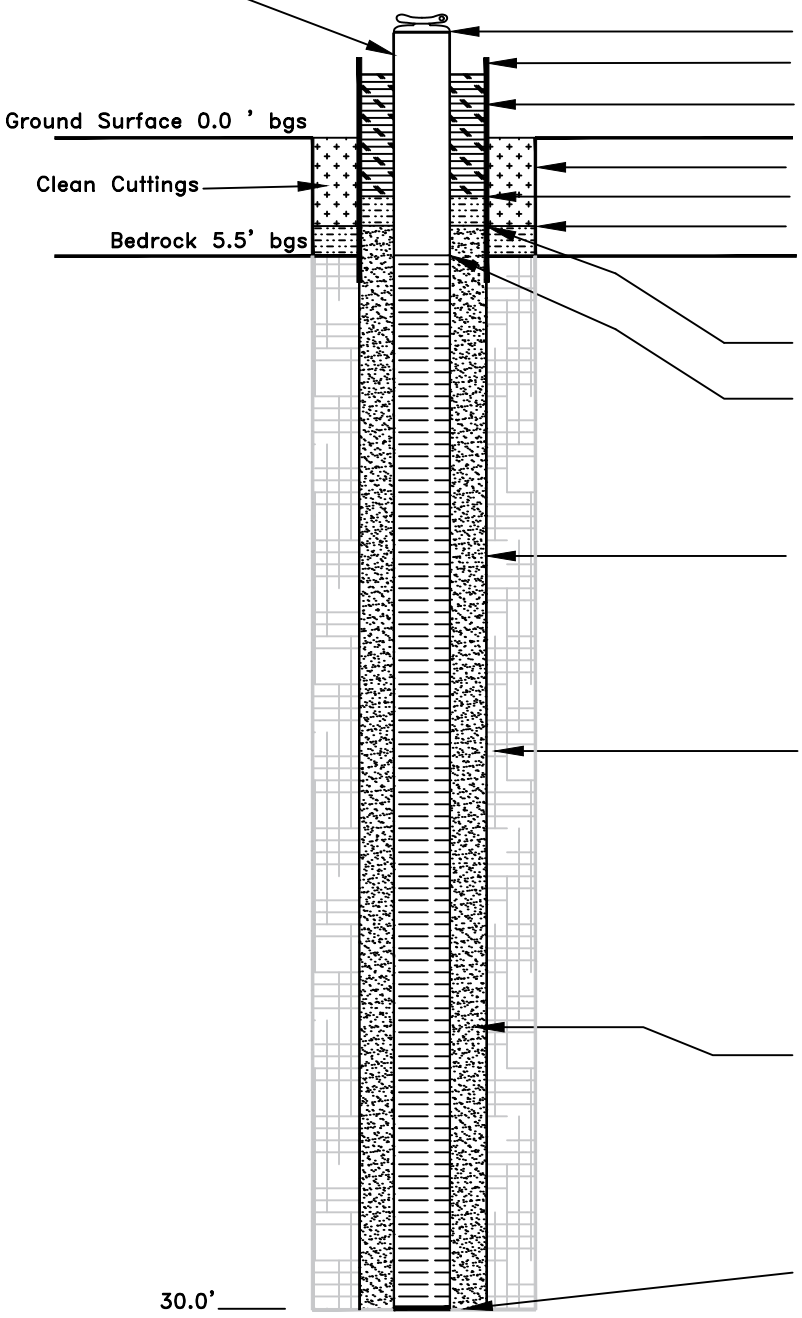
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-20s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

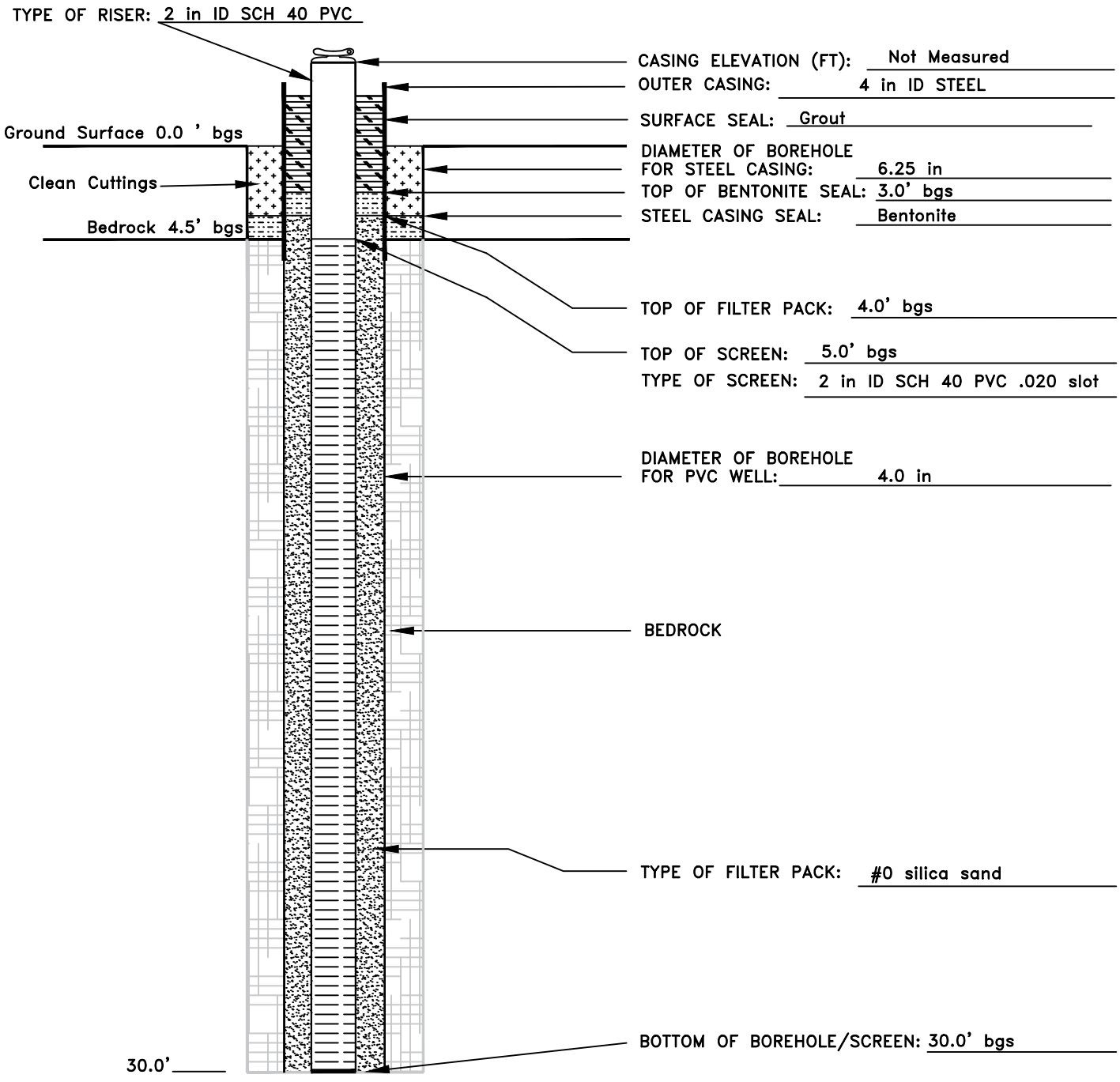
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-21s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

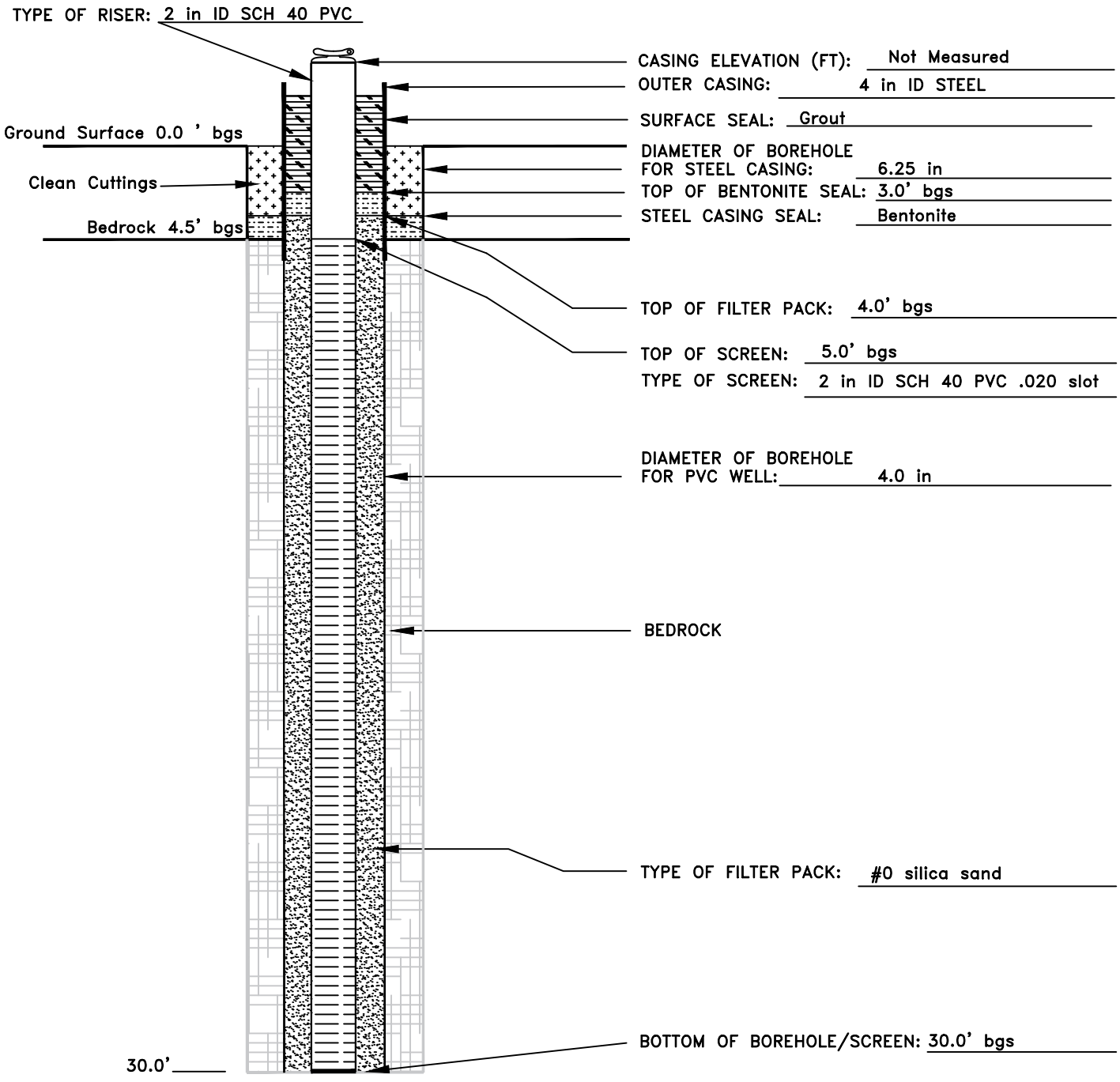


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-22s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

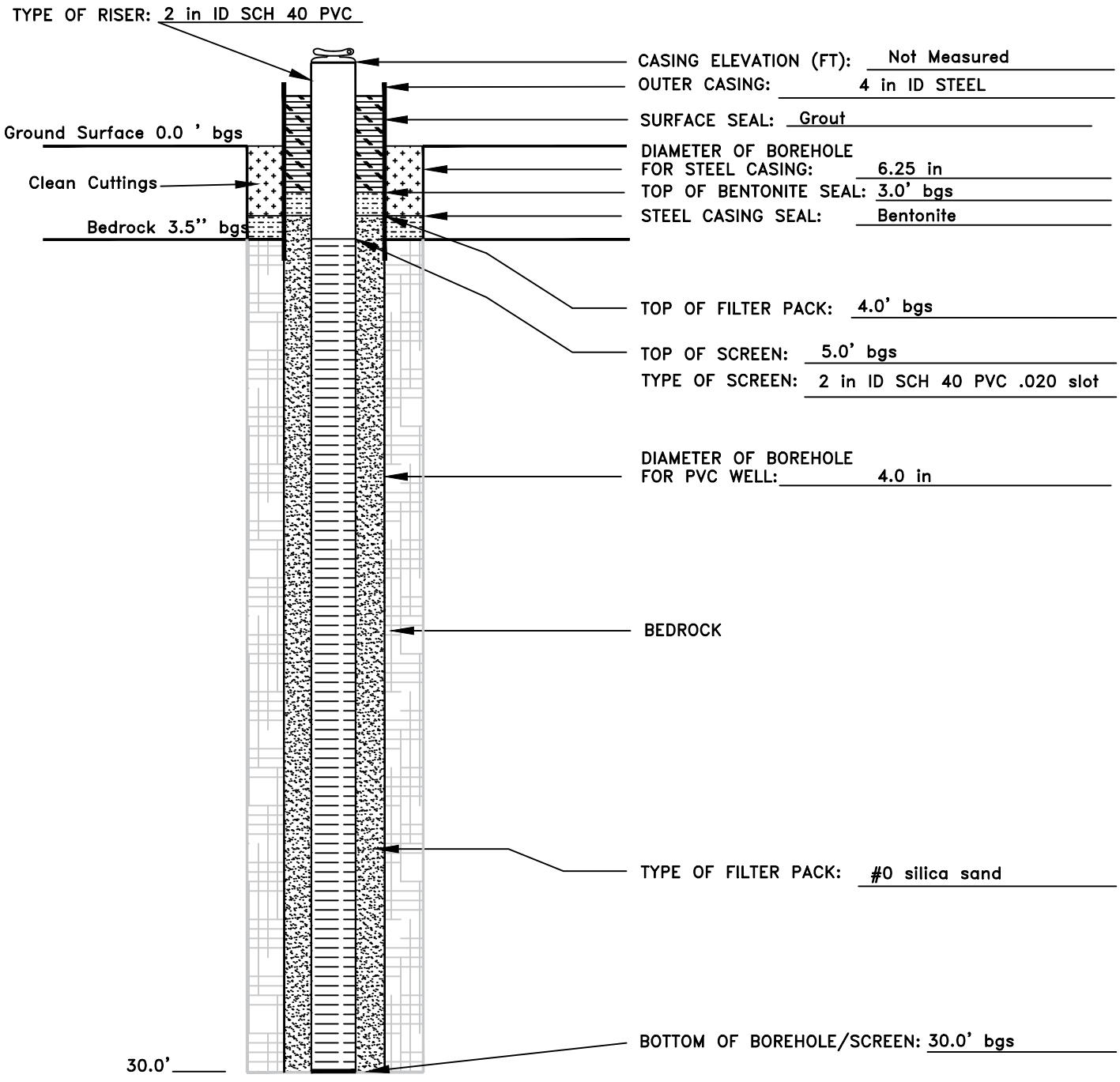


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-23s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

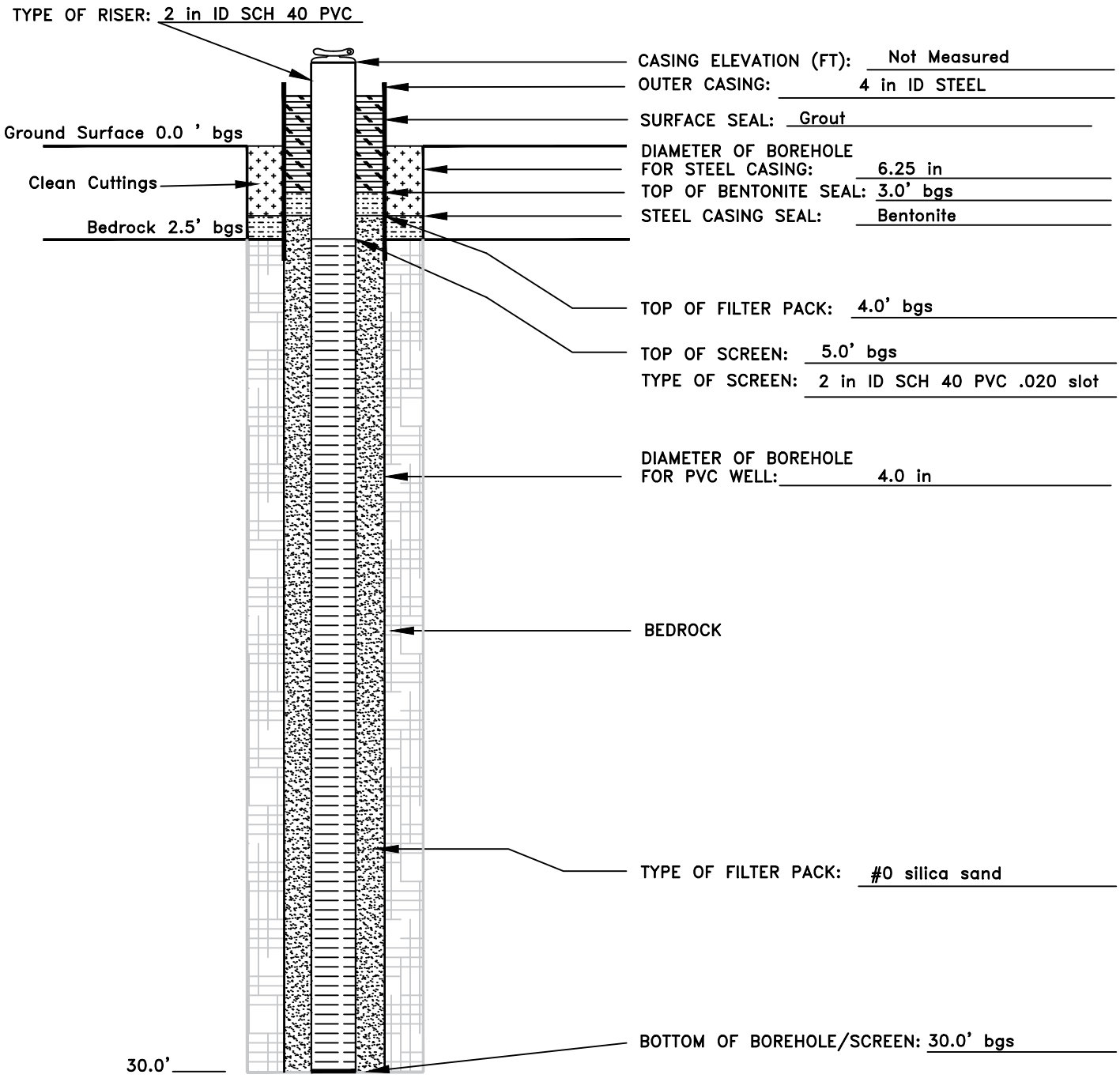


NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-24s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

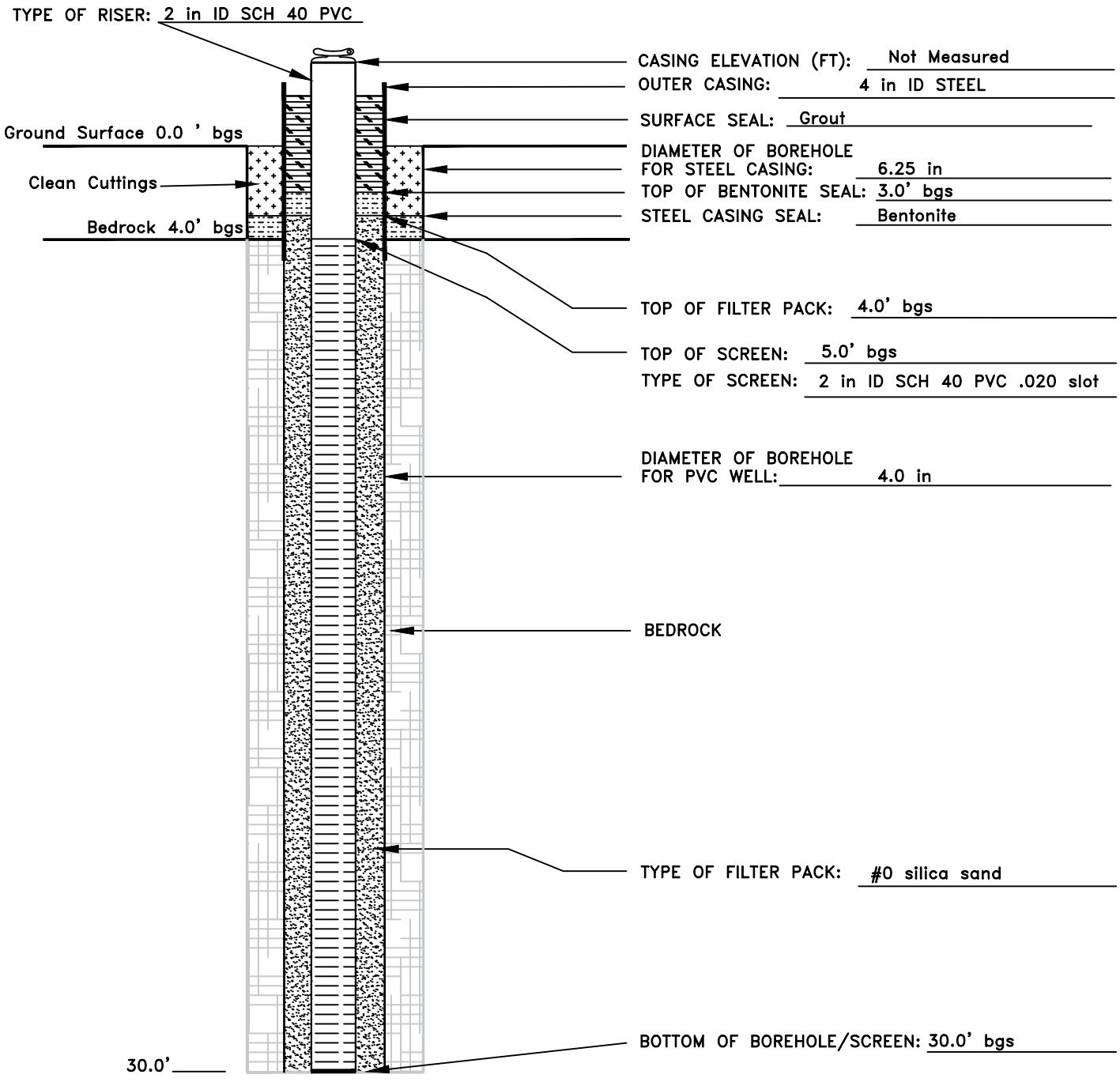


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-25s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevyn
DRILL RIG MODEL:	Versadrill		Brian

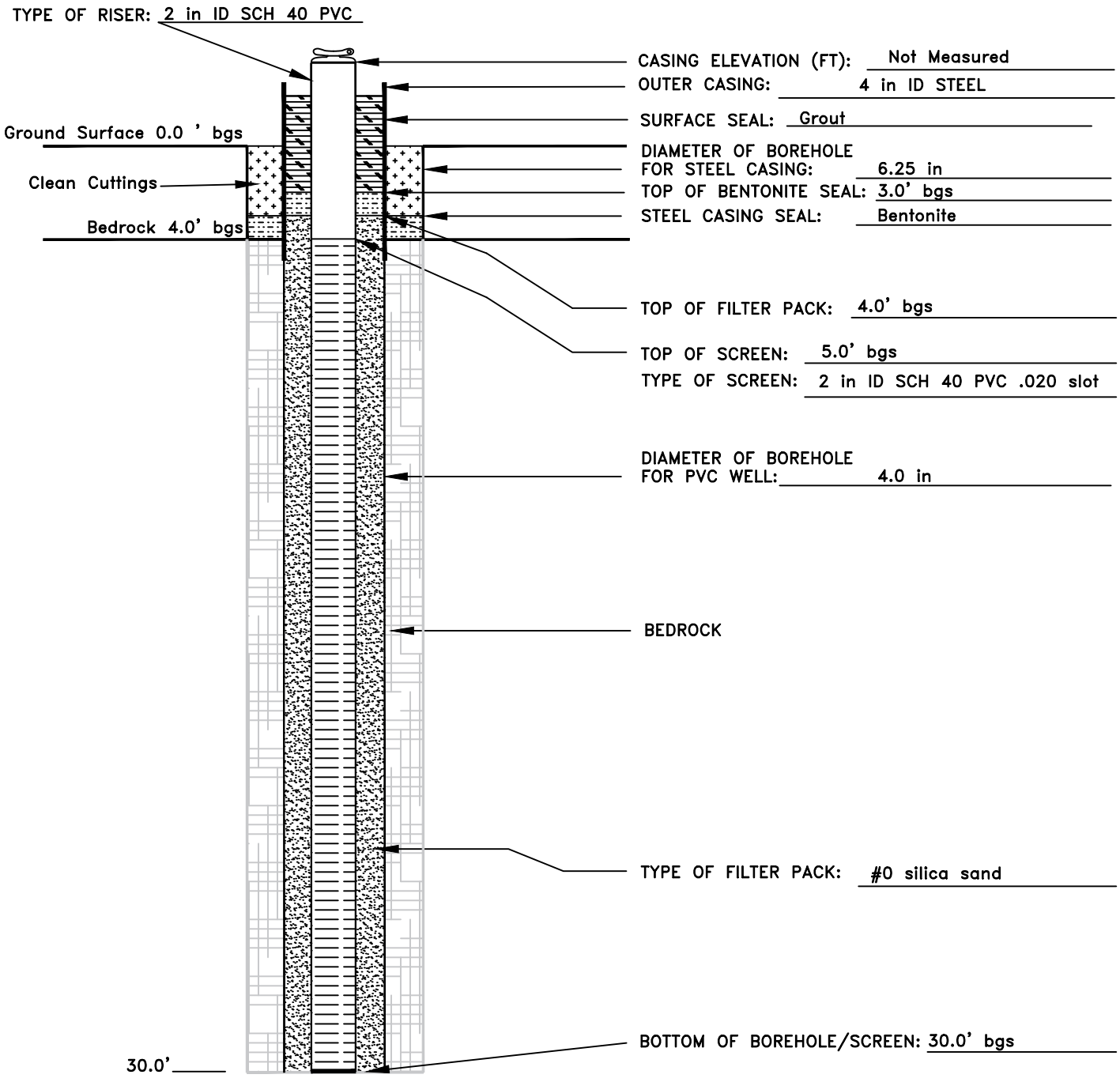


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-26s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

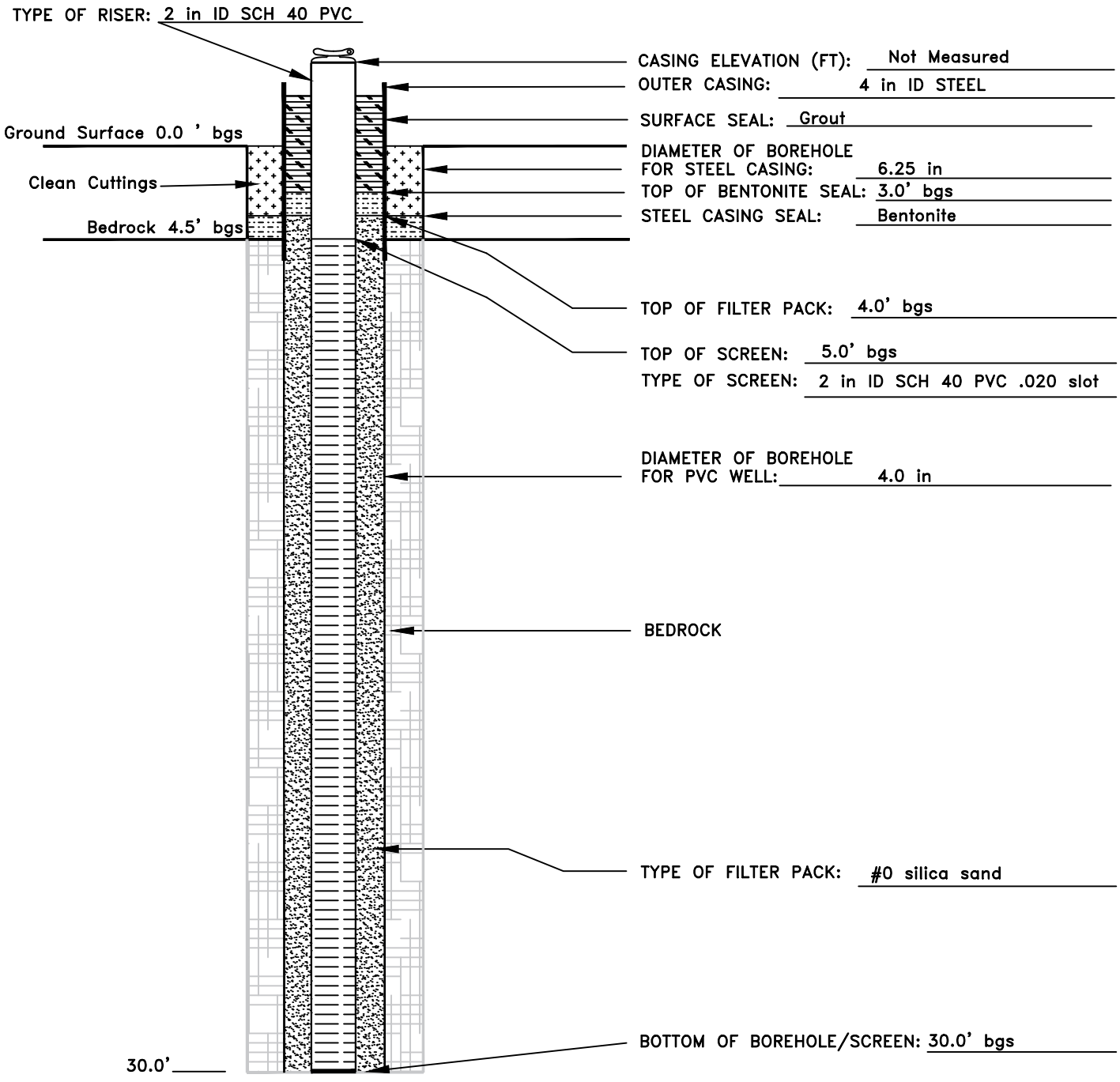


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-27s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



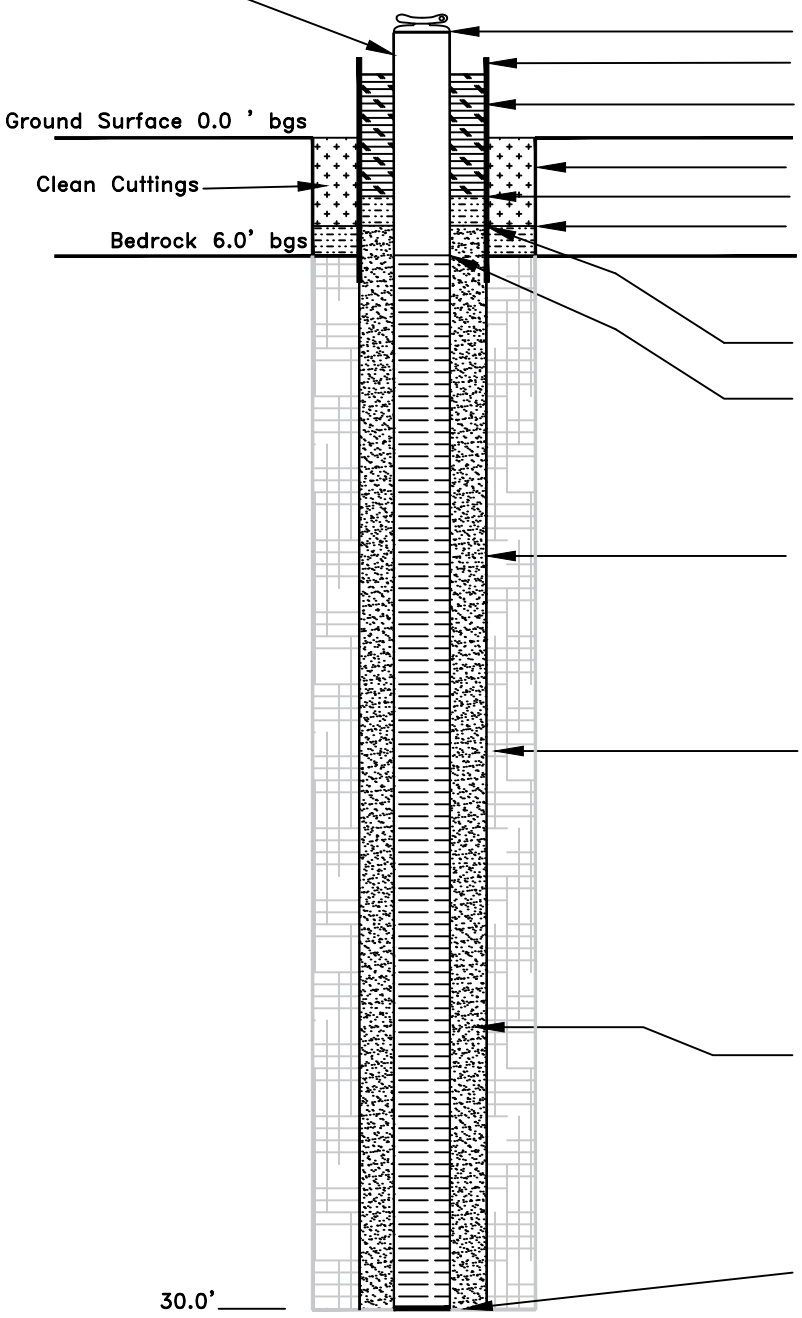
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-28s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

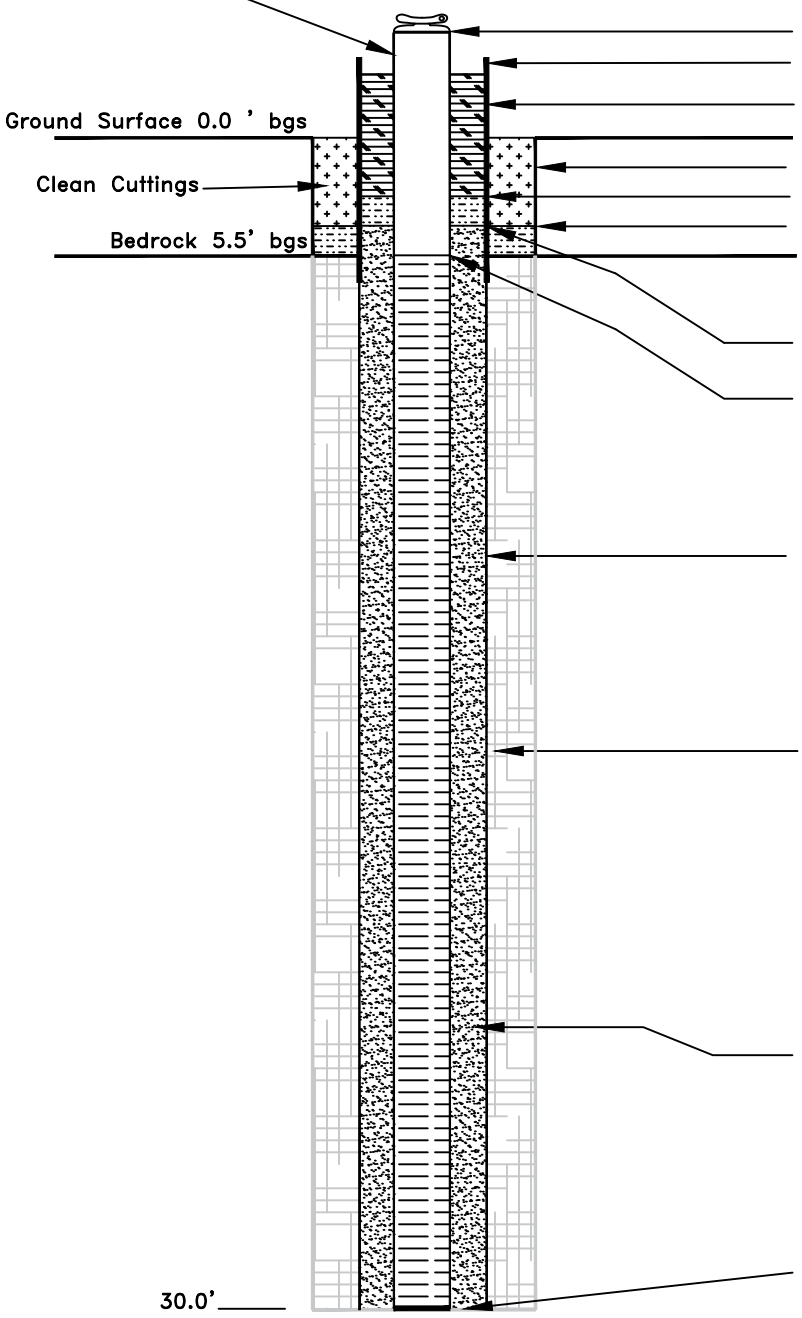
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-29s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

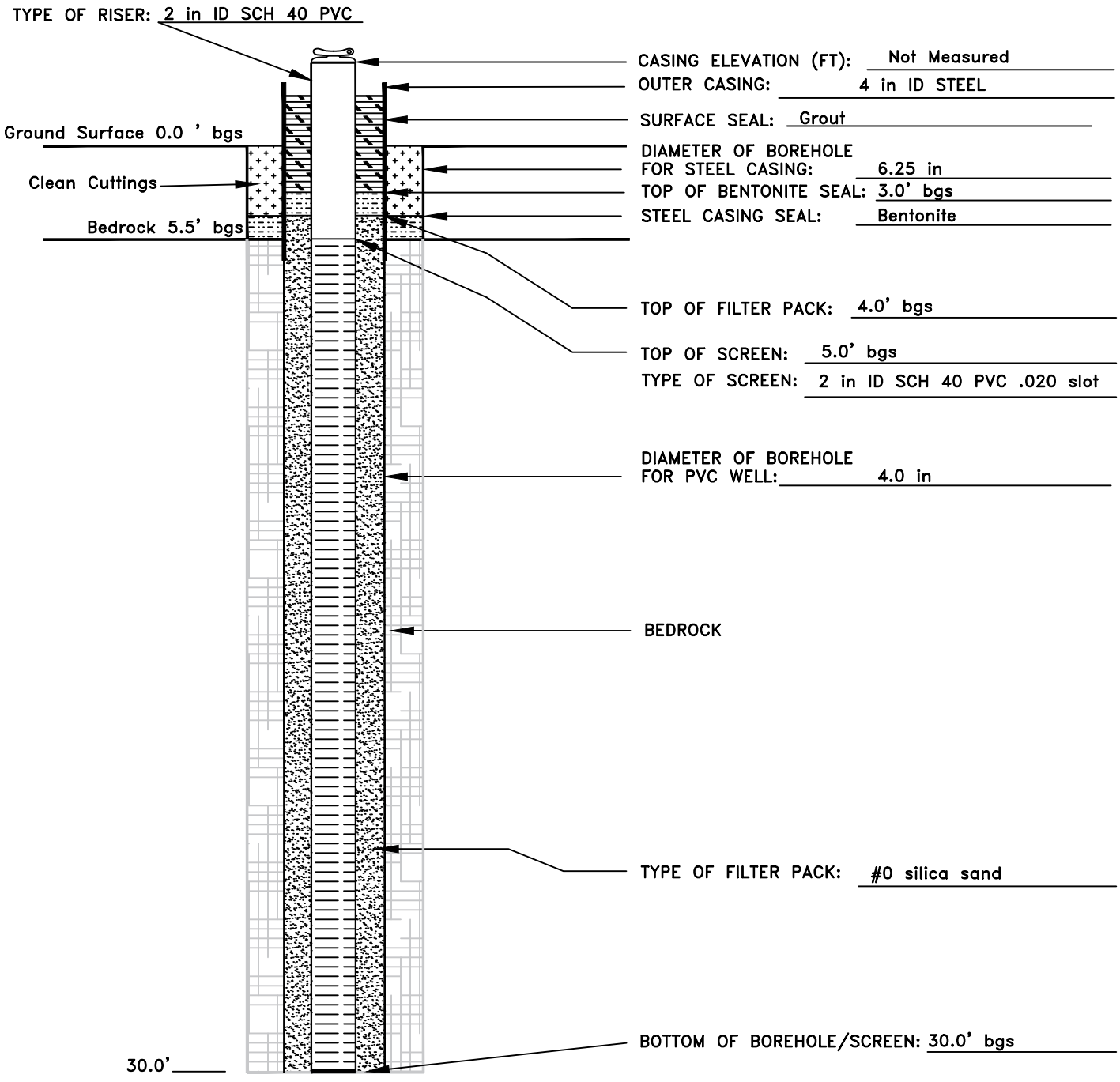
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-30s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse



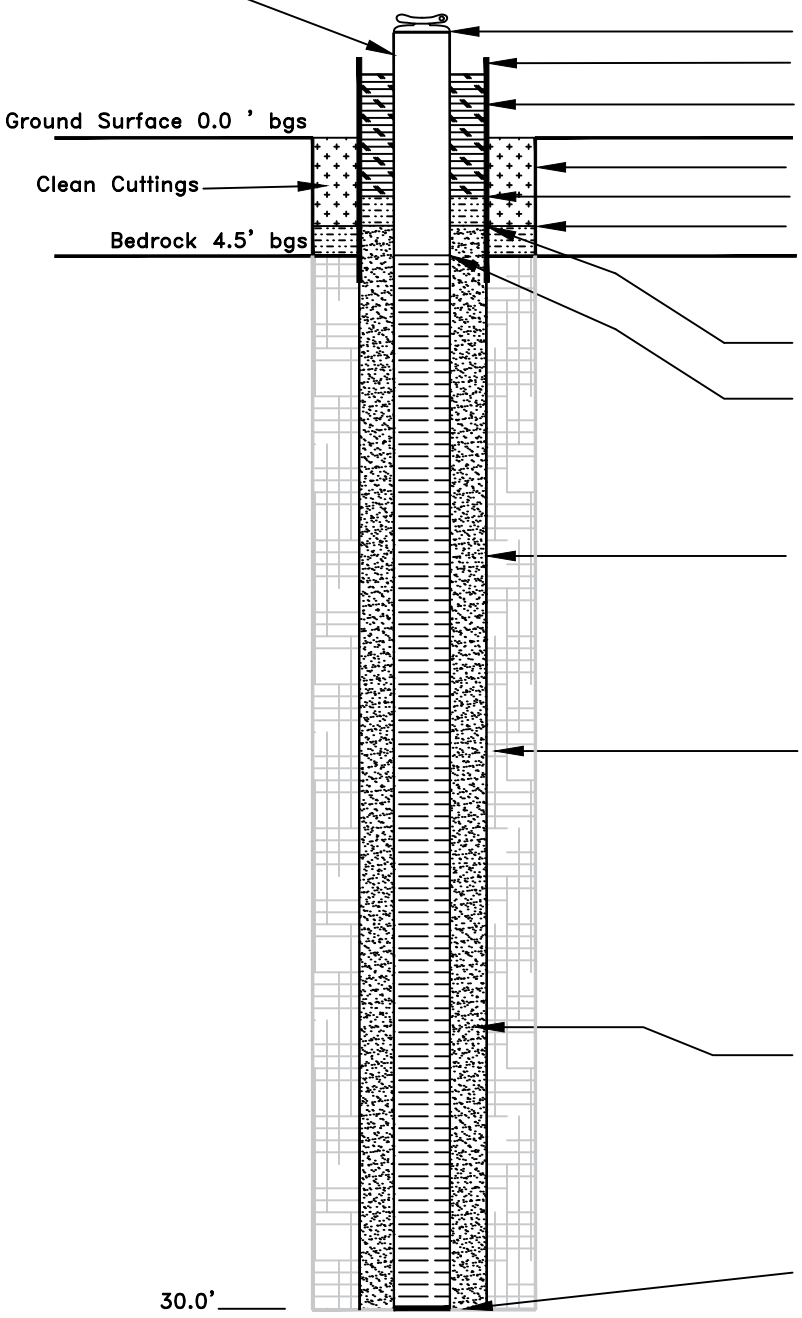
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-31s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Joel
DRILL RIG MODEL:	Dietrich 120		Jason

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

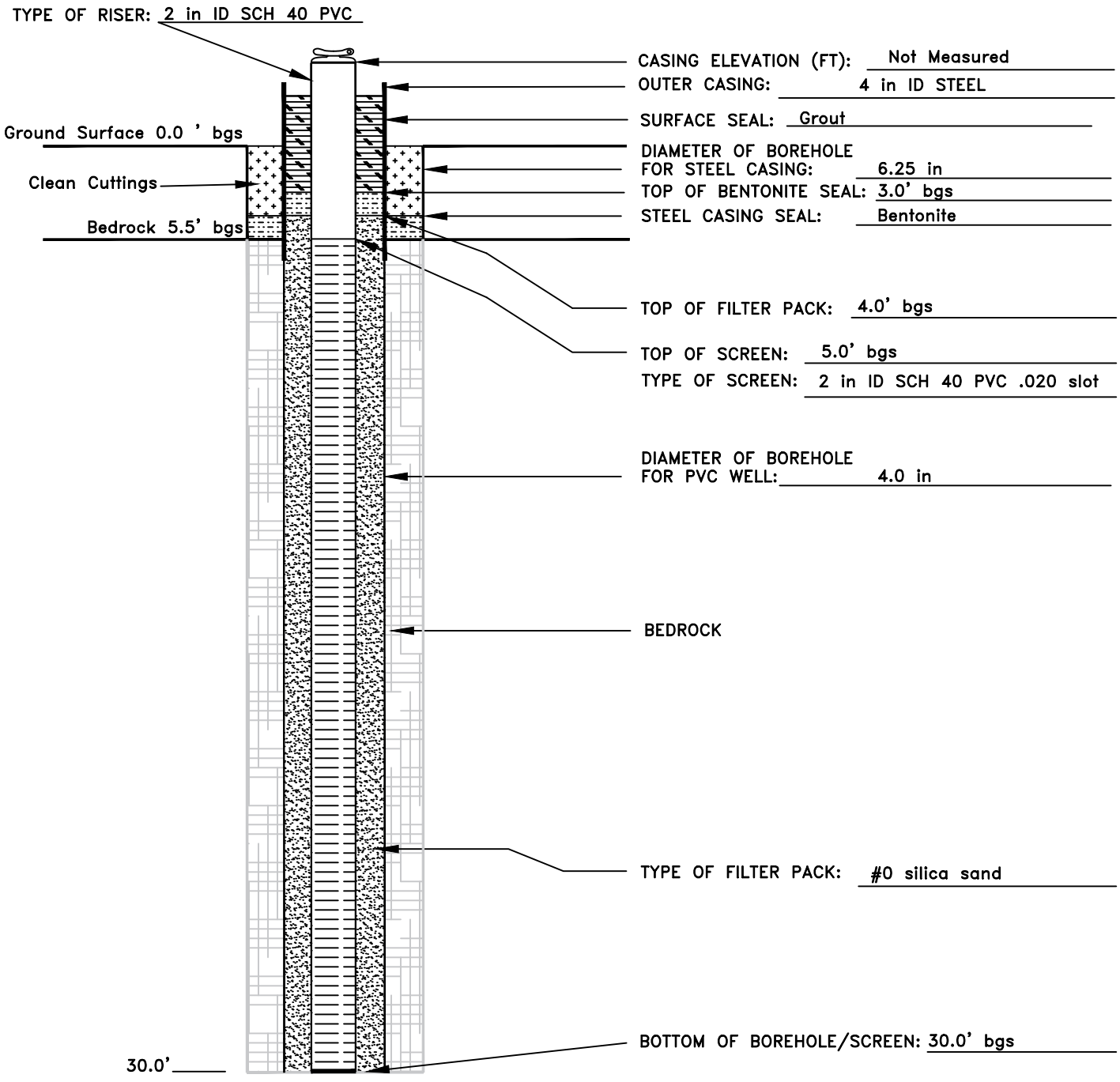
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-32s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse



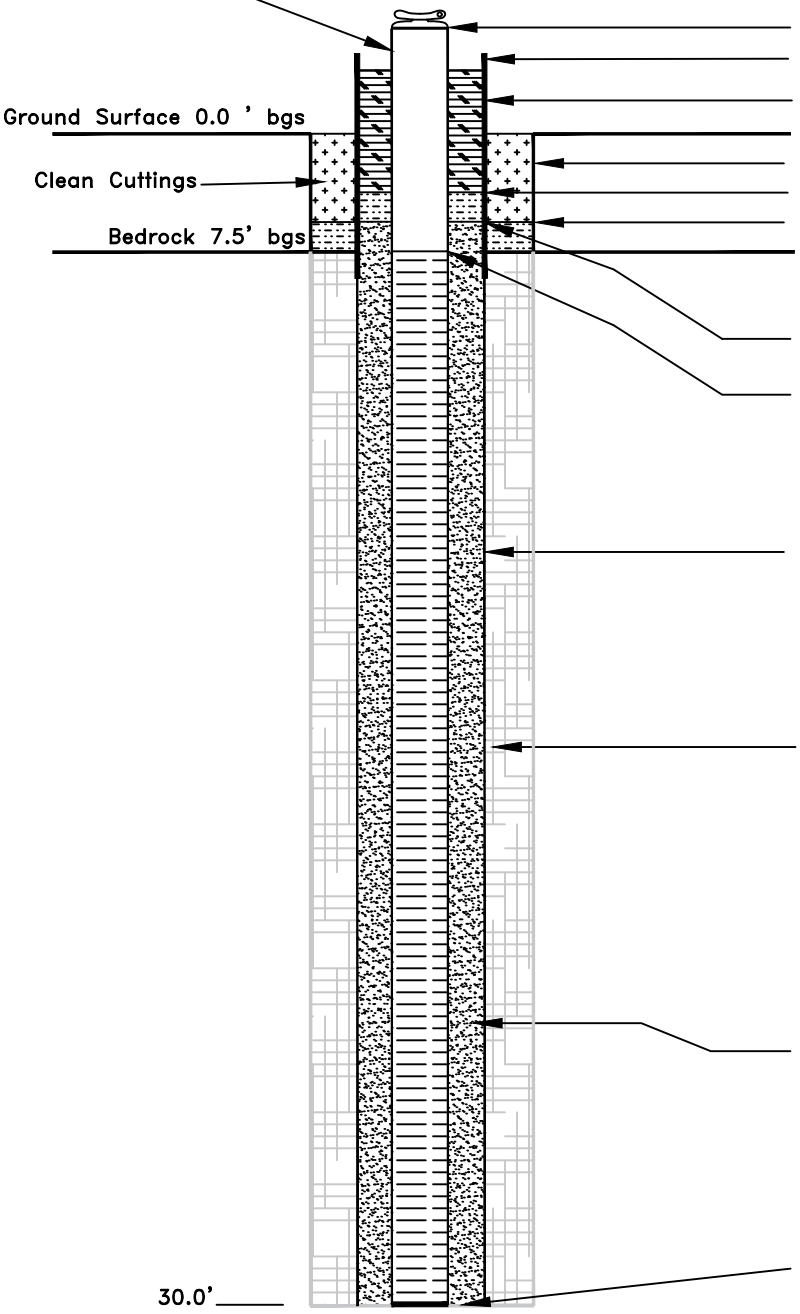
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-33s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

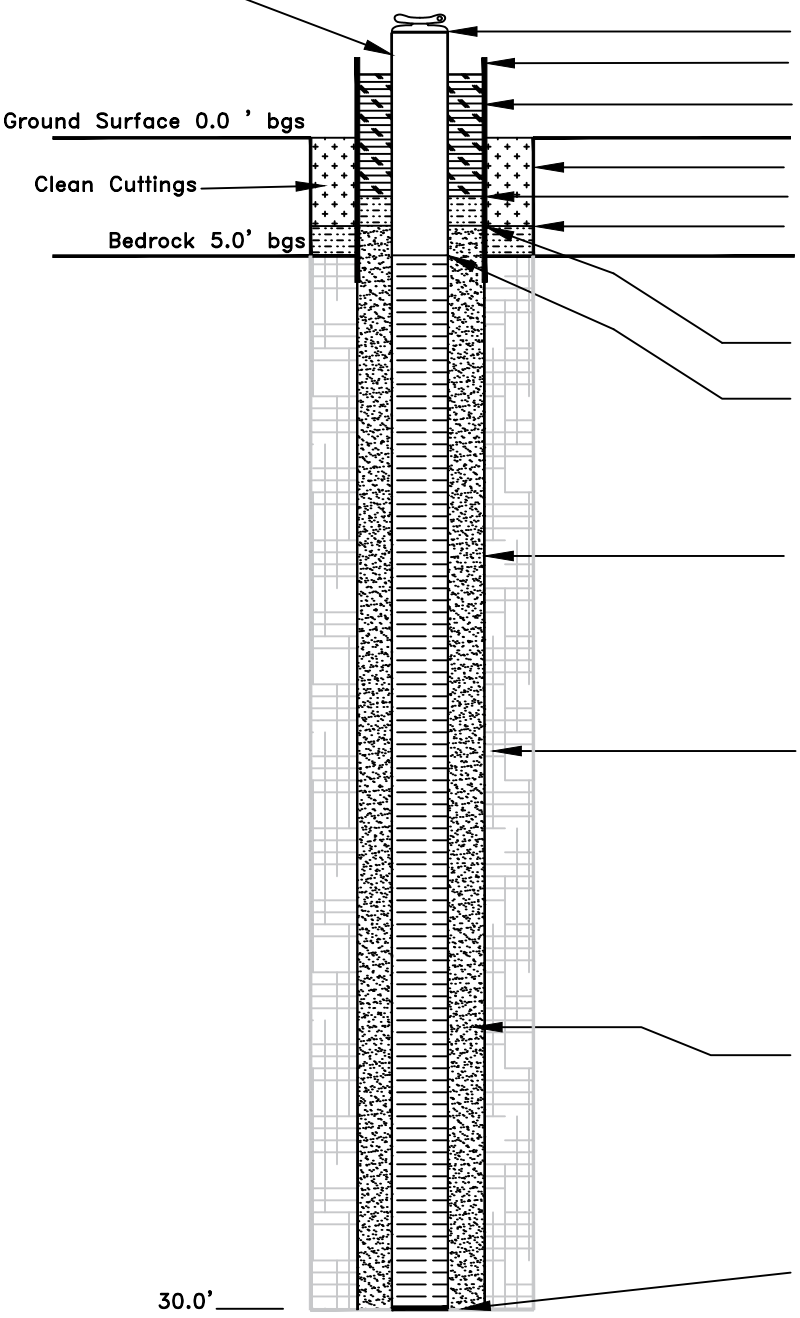
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-34s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

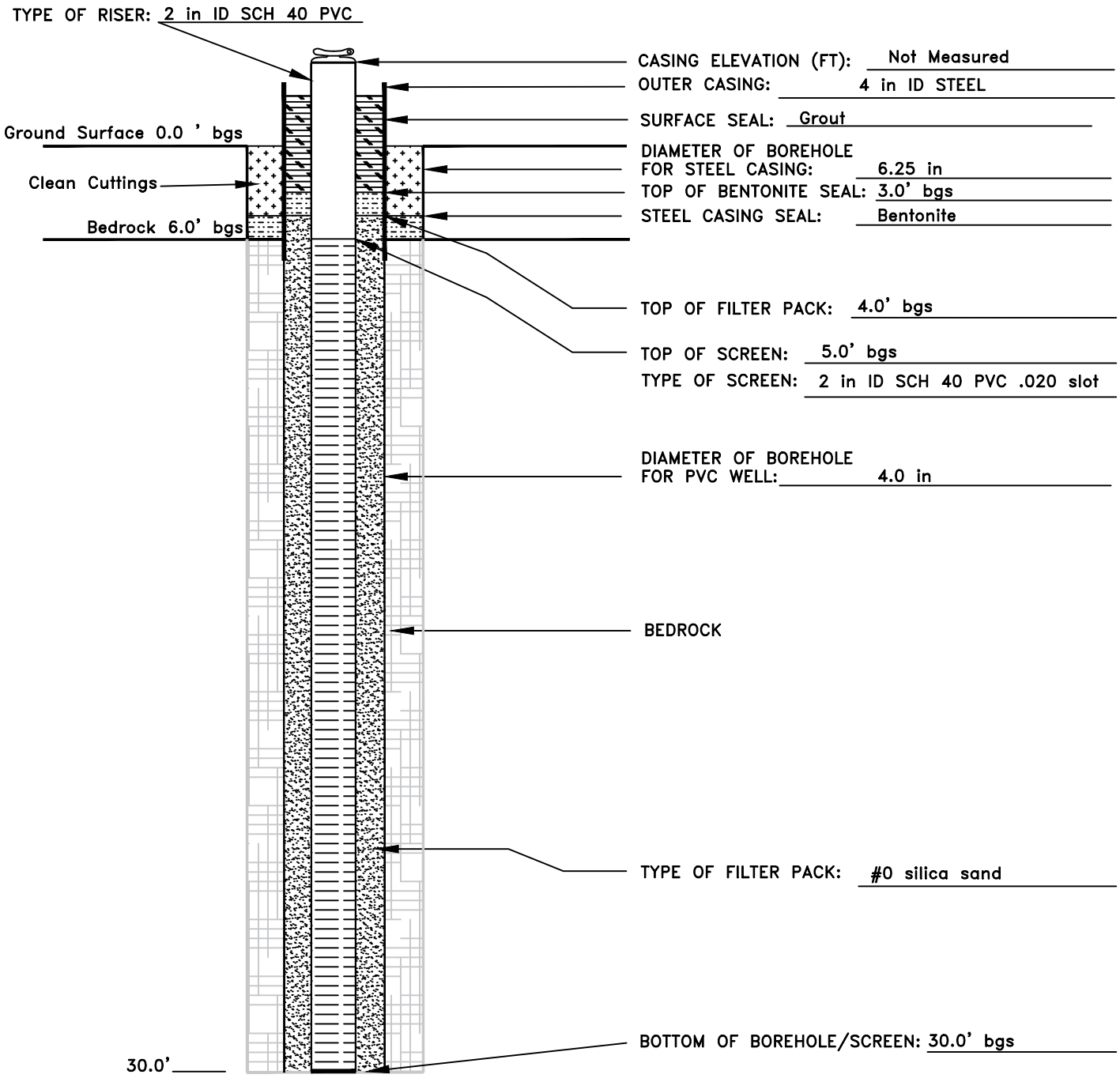
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-35s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



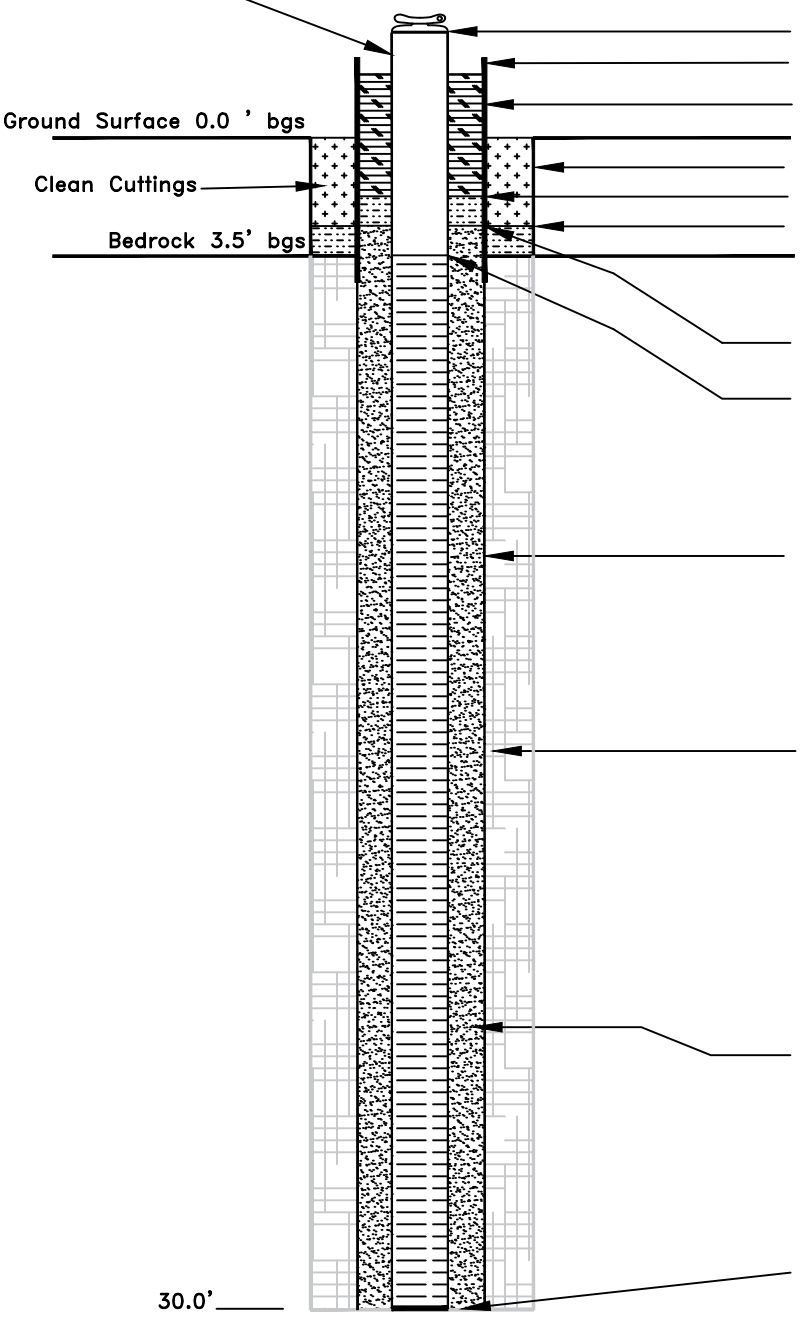
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-36s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

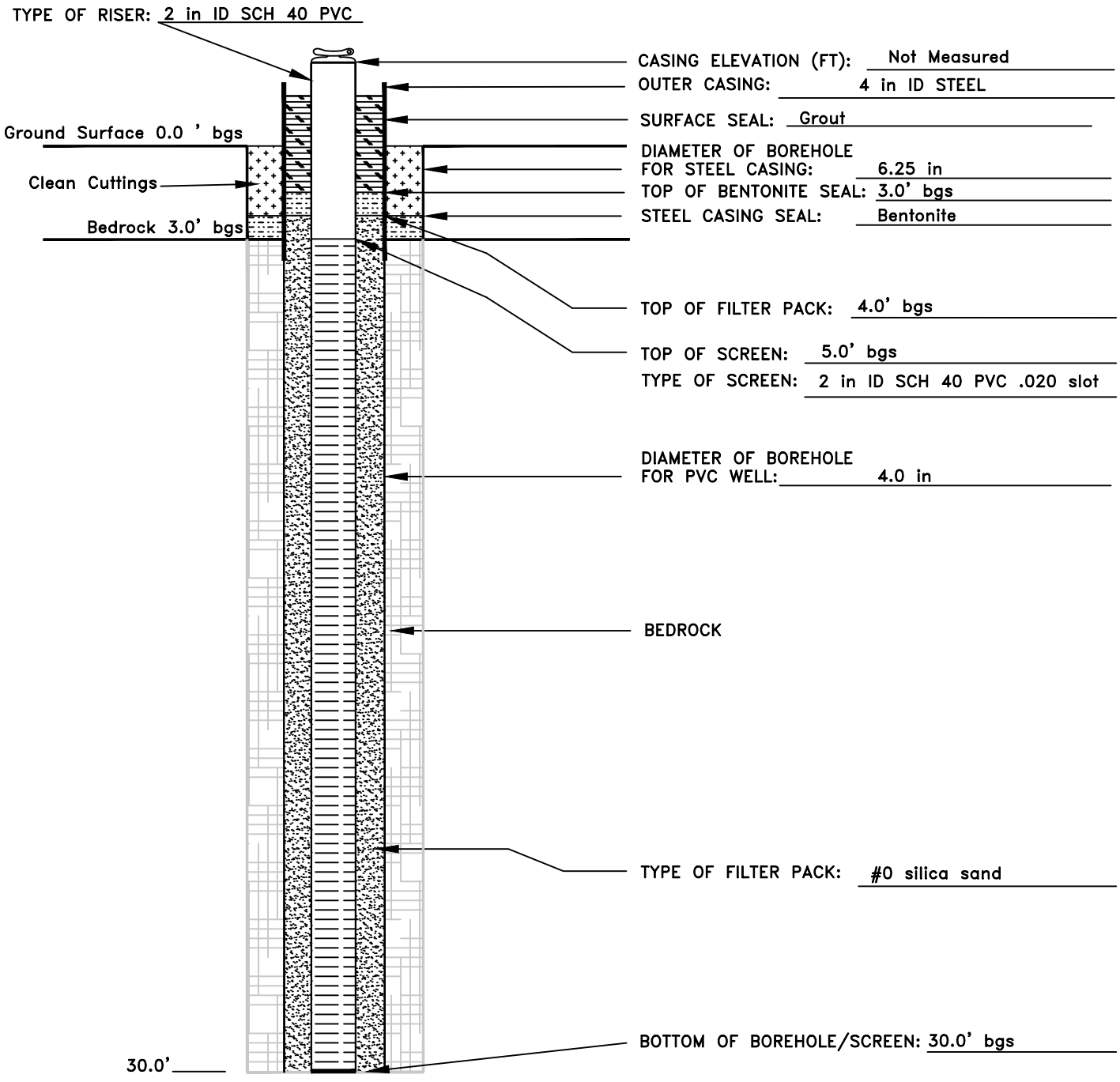
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-37s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

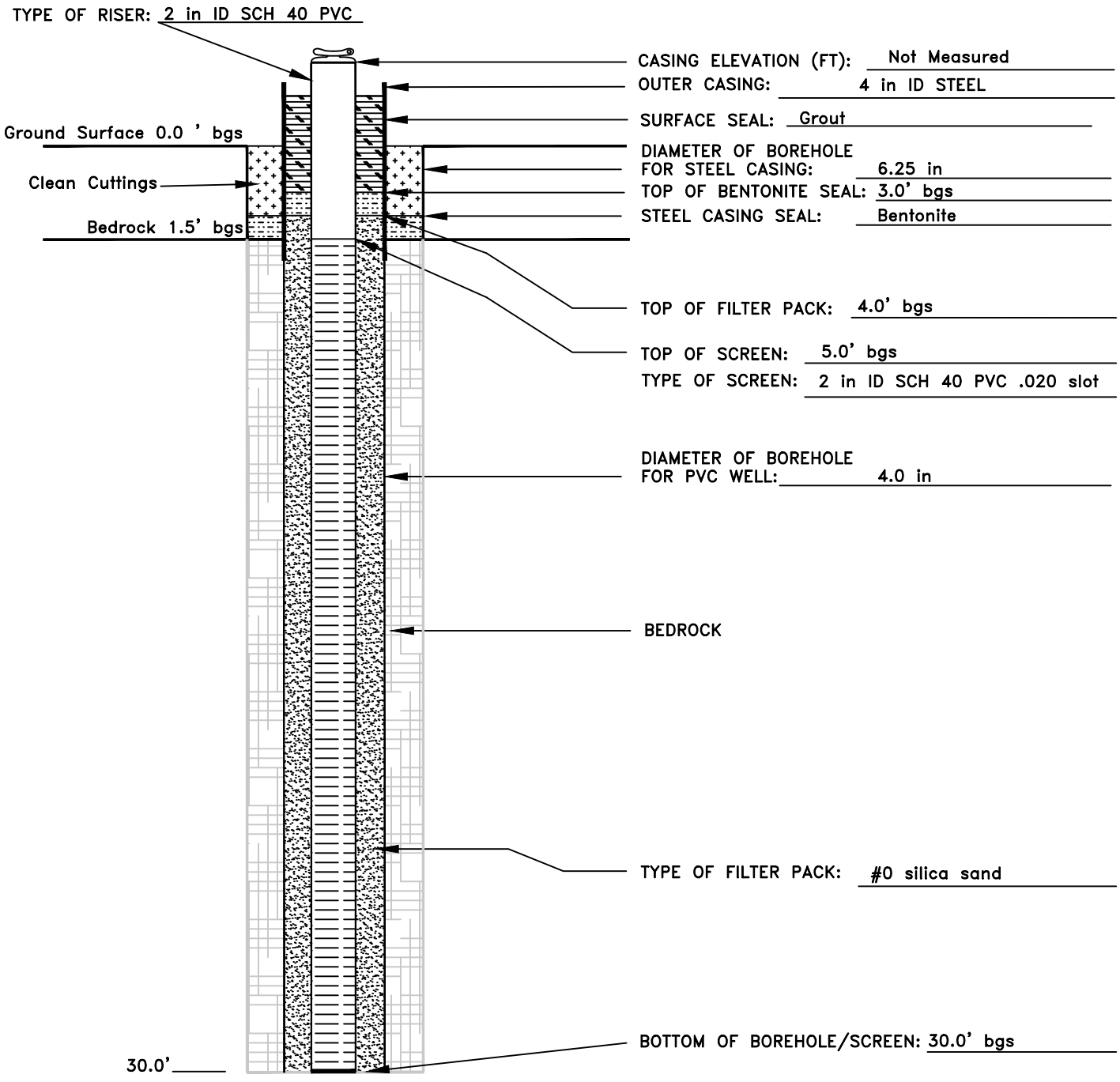


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-38s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian



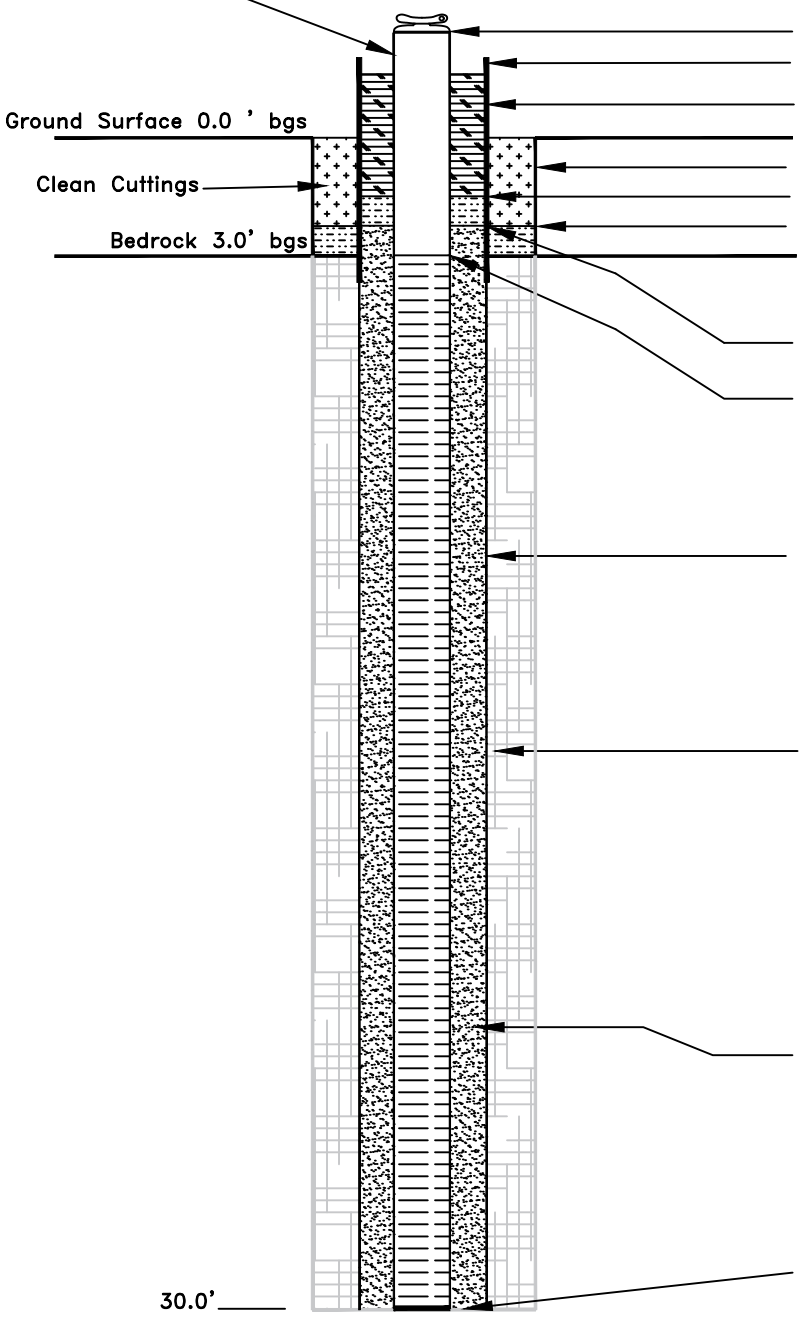
NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-39s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

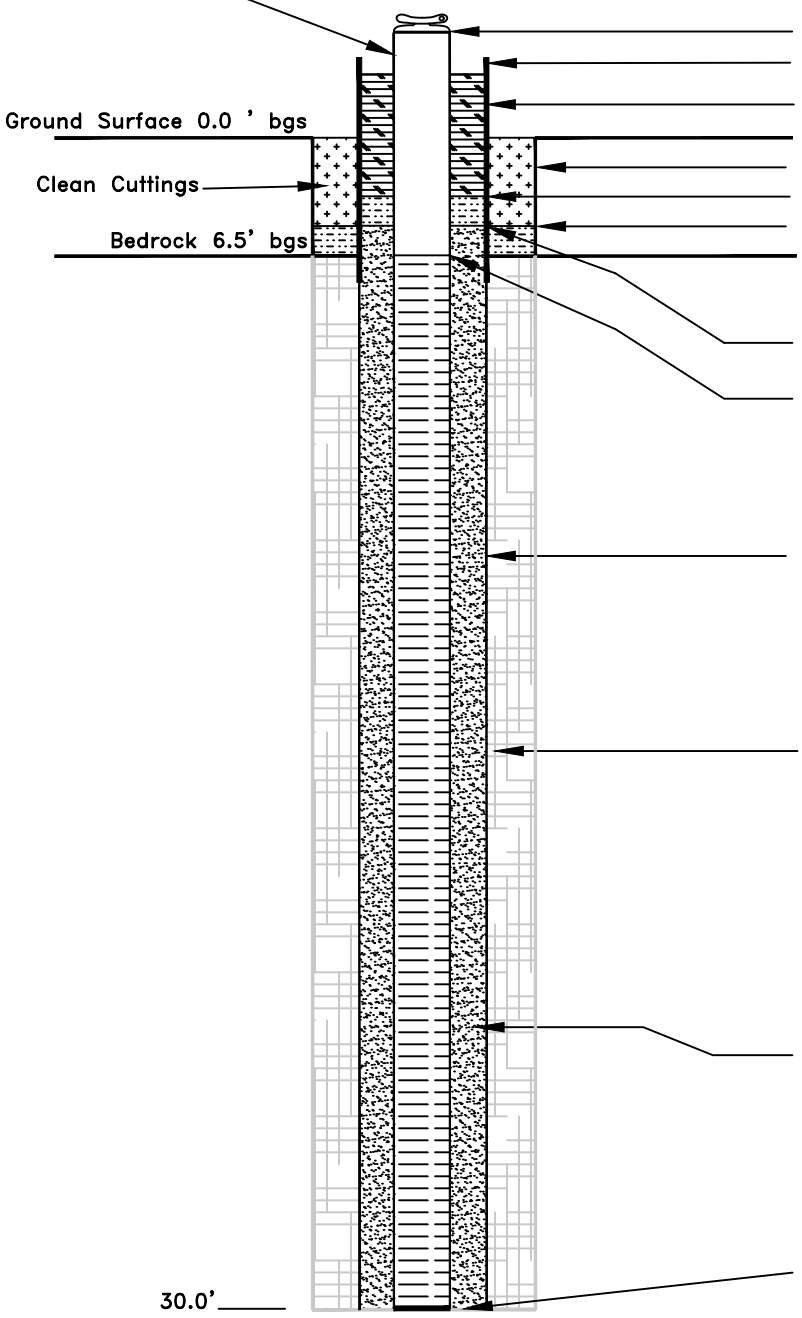
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-40s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATION (FT): Not Measured

OUTER CASING: 4 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 6.25 in

TOP OF BENTONITE SEAL: 3.0' bgs

STEEL CASING SEAL: Bentonite

TOP OF FILTER PACK: 4.0' bgs

TOP OF SCREEN: 5.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

DIAMETER OF BOREHOLE FOR PVC WELL: 4.0 in

BEDROCK

TYPE OF FILTER PACK: #0 silica sand

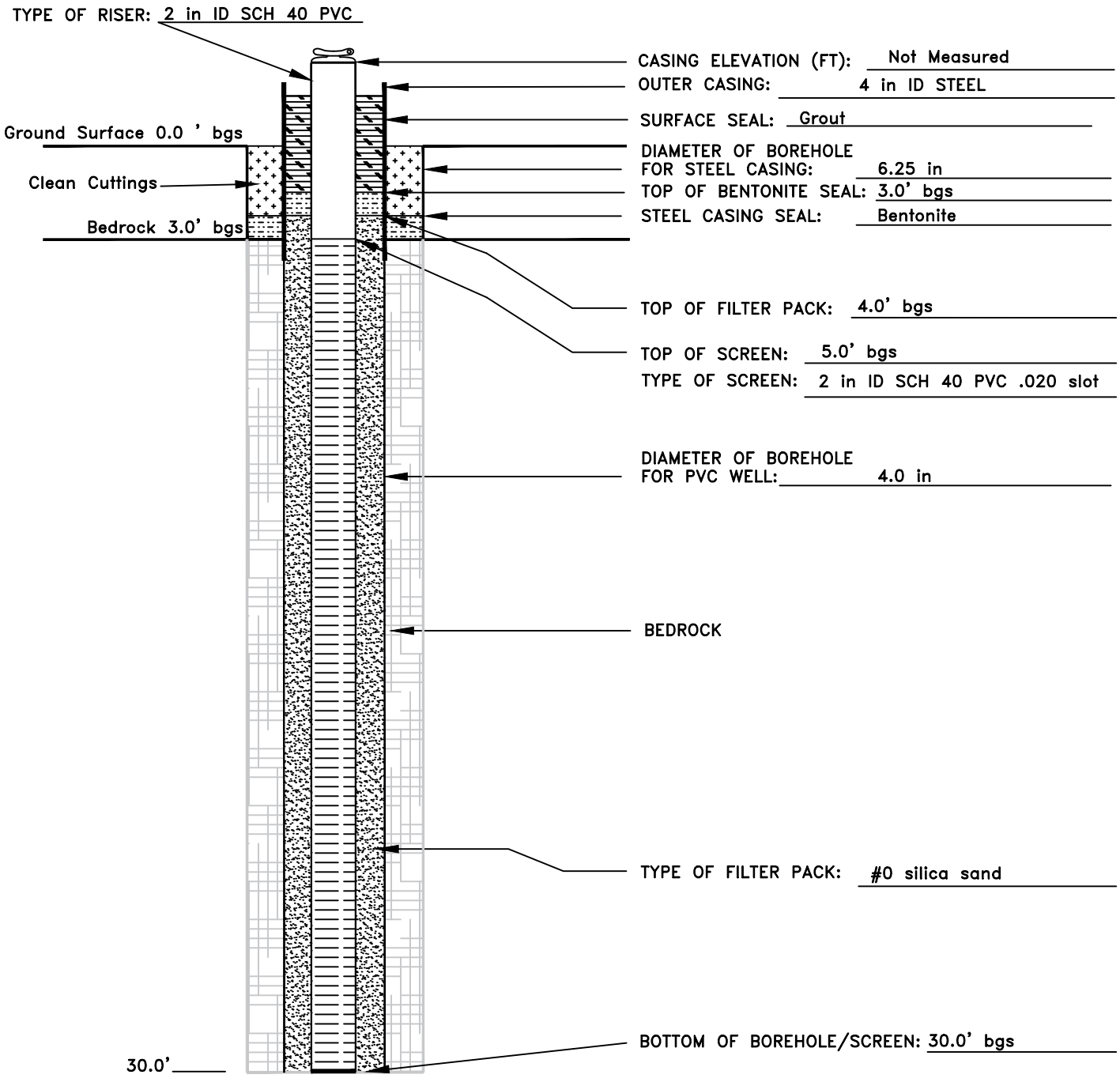
BOTTOM OF BOREHOLE/SCREEN: 30.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-41s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

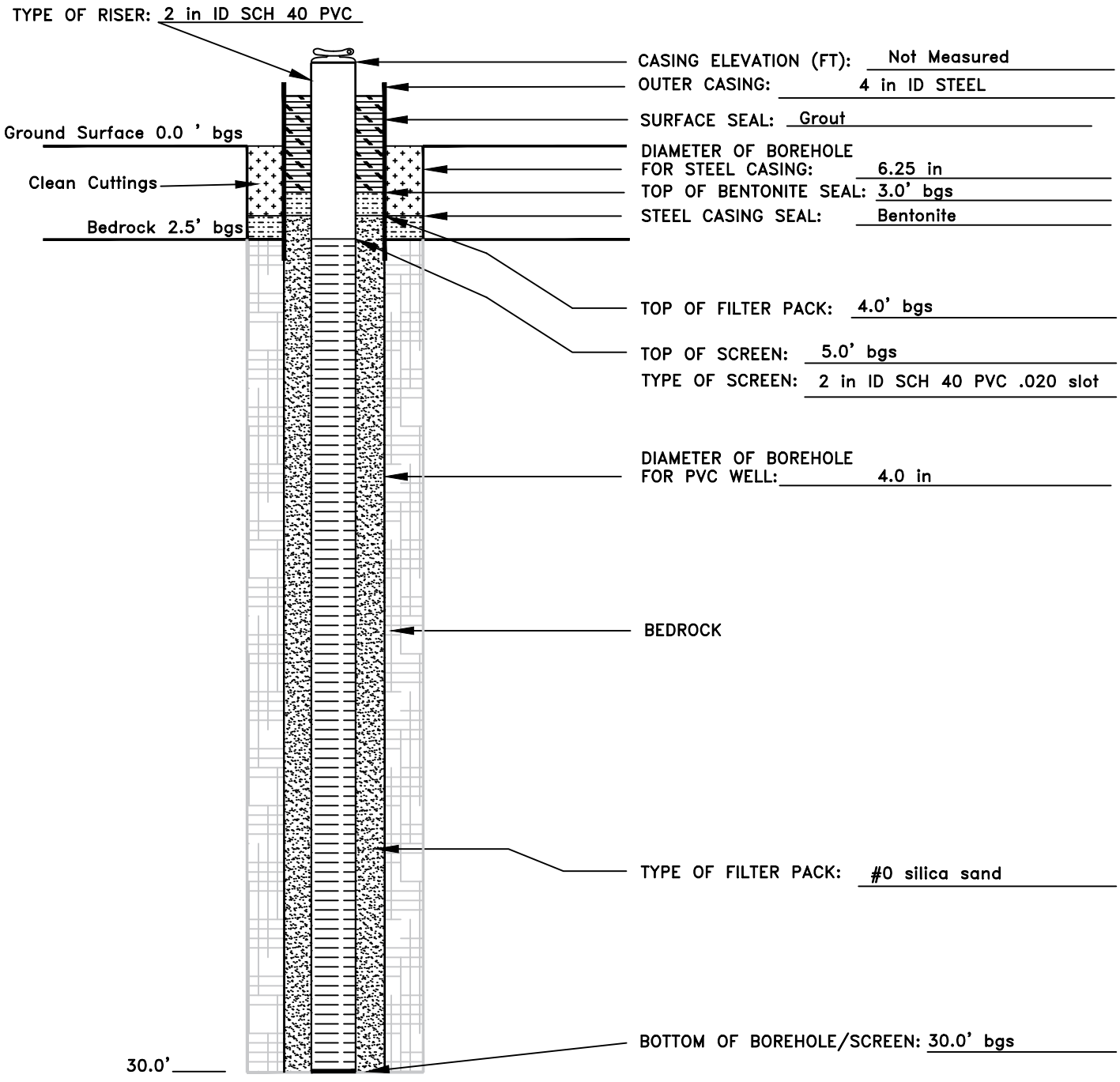


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-42s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill		Brian

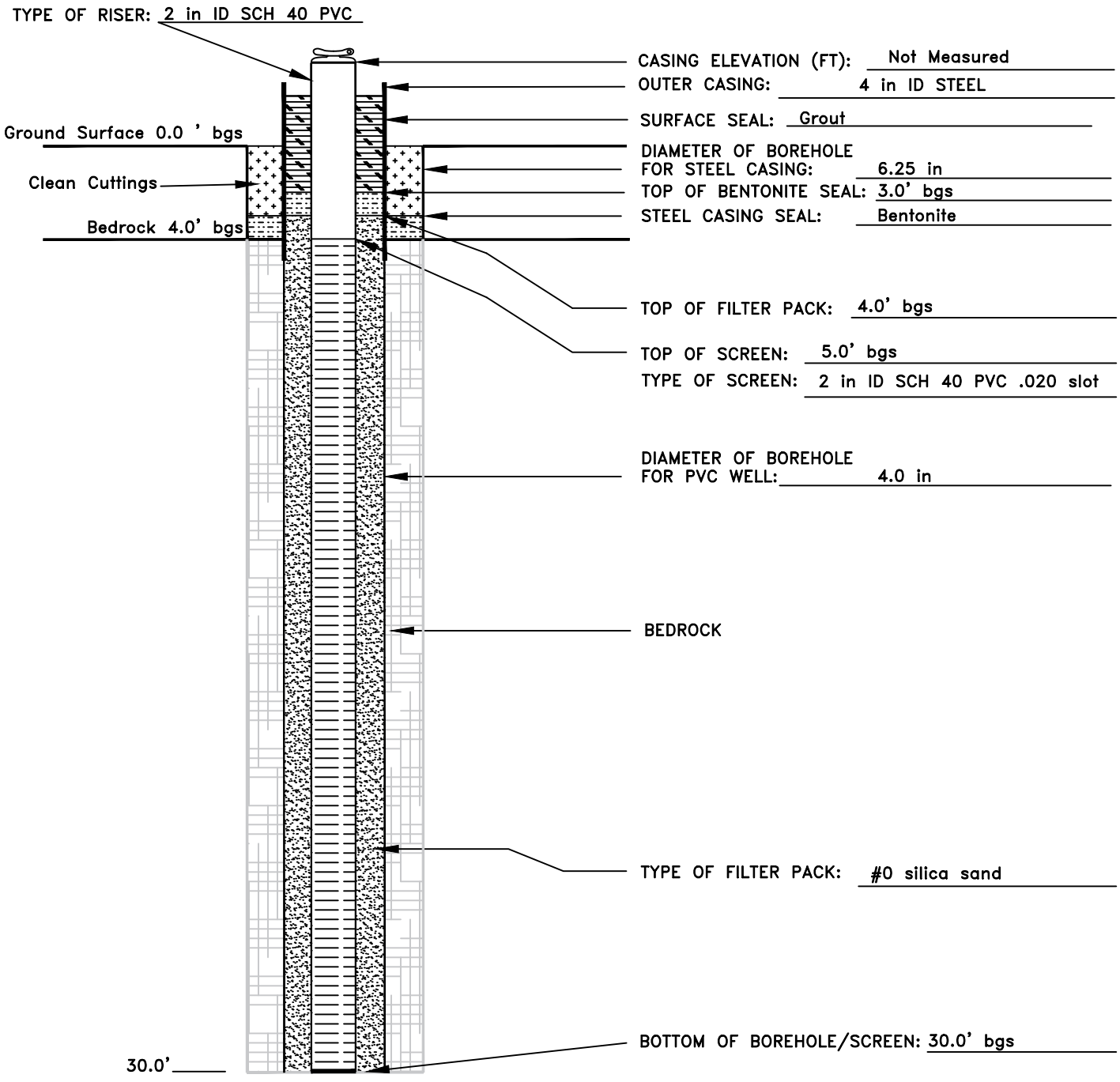


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-43s
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	NYEG Drilling	DRILLERS:	Bryan
DRILL RIG MODEL:	CME 850		Jesse



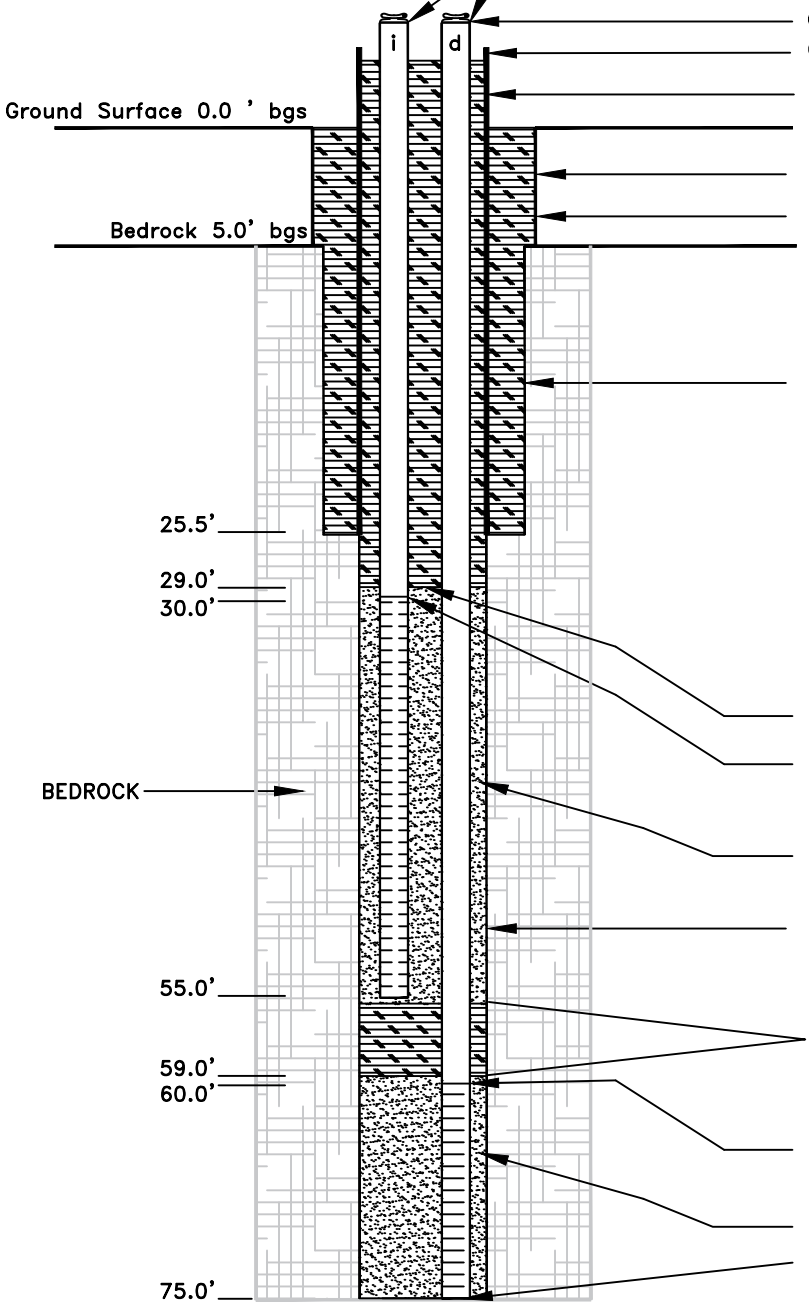
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-01id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

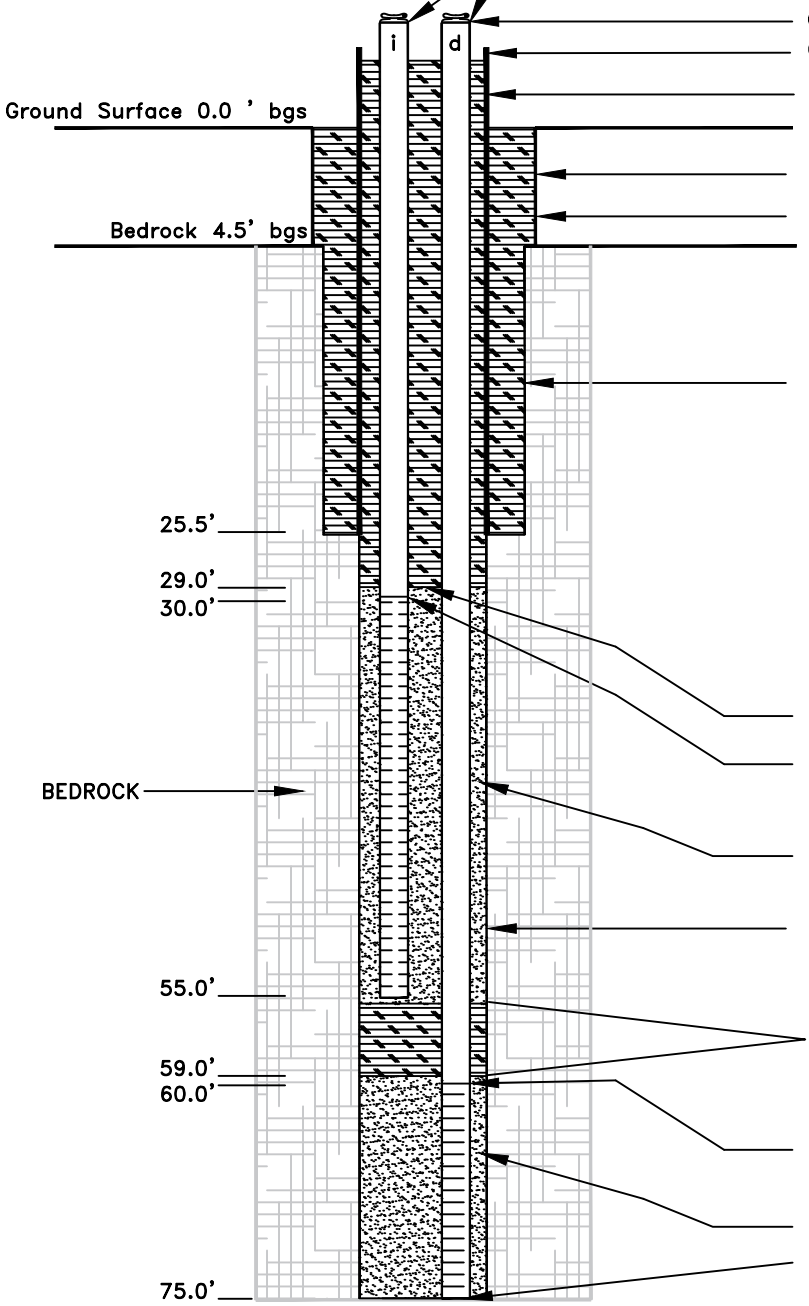
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-02id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

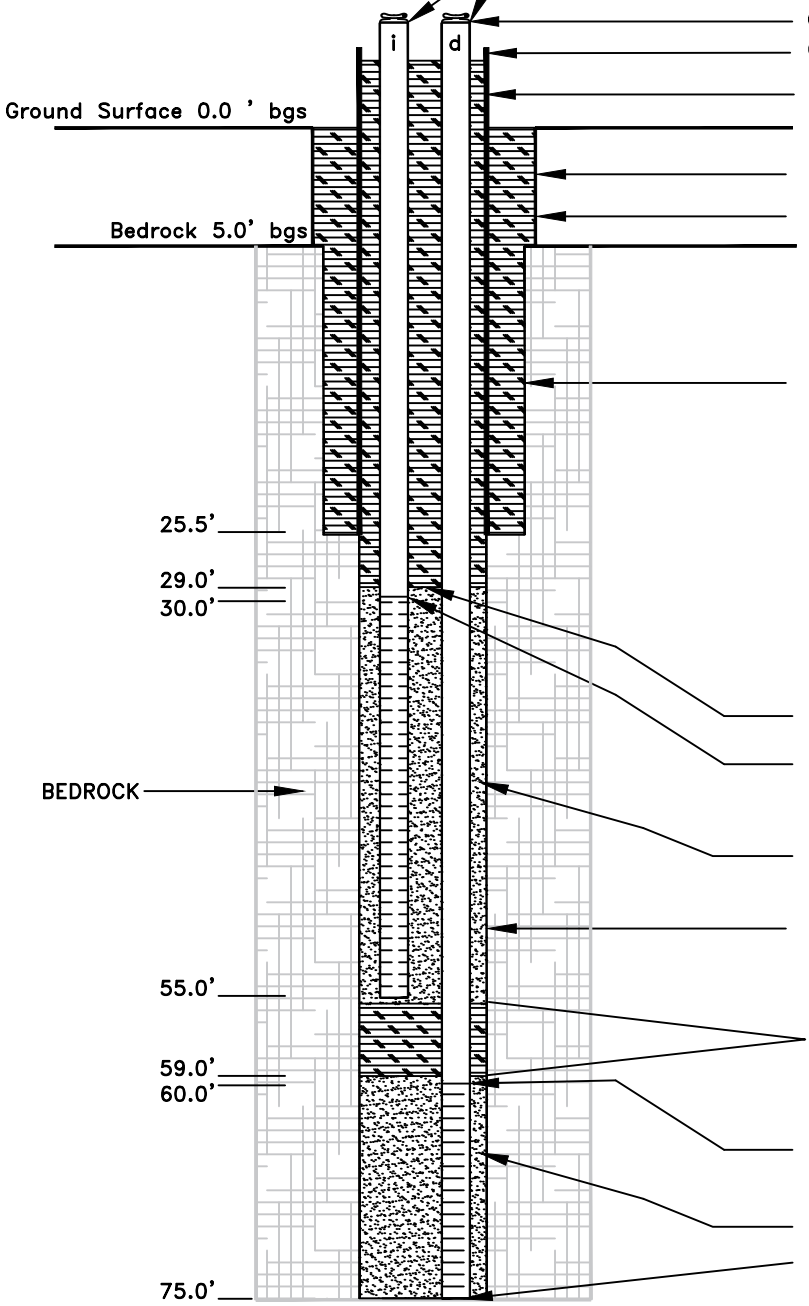
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-03id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

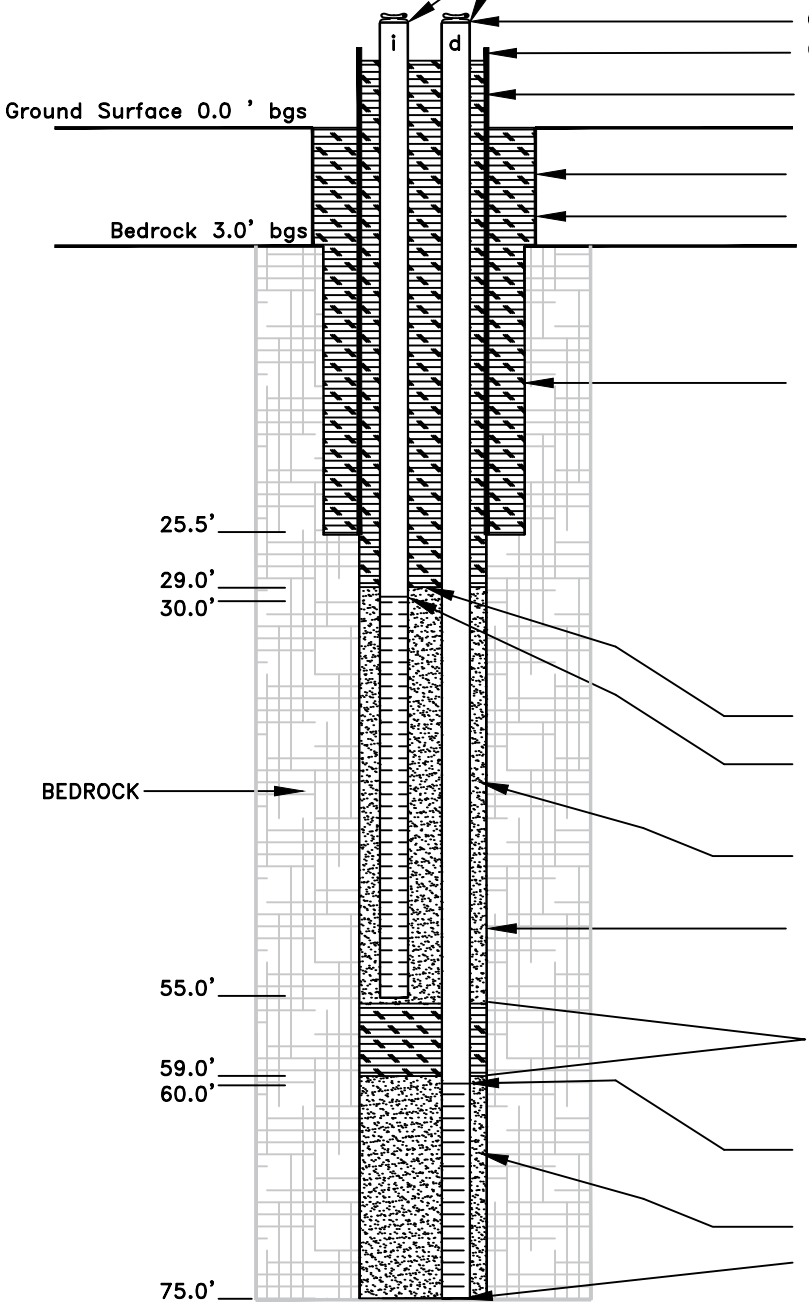
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-05id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

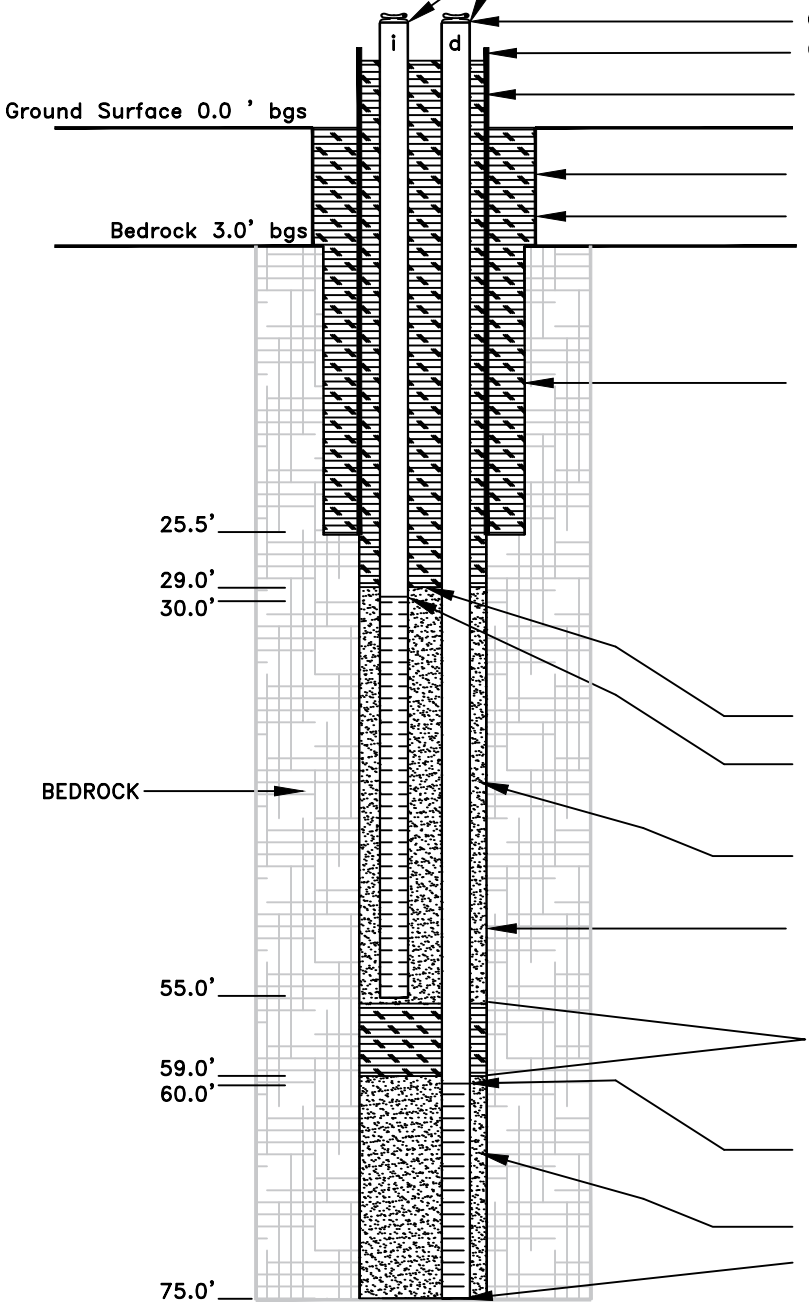
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-06id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

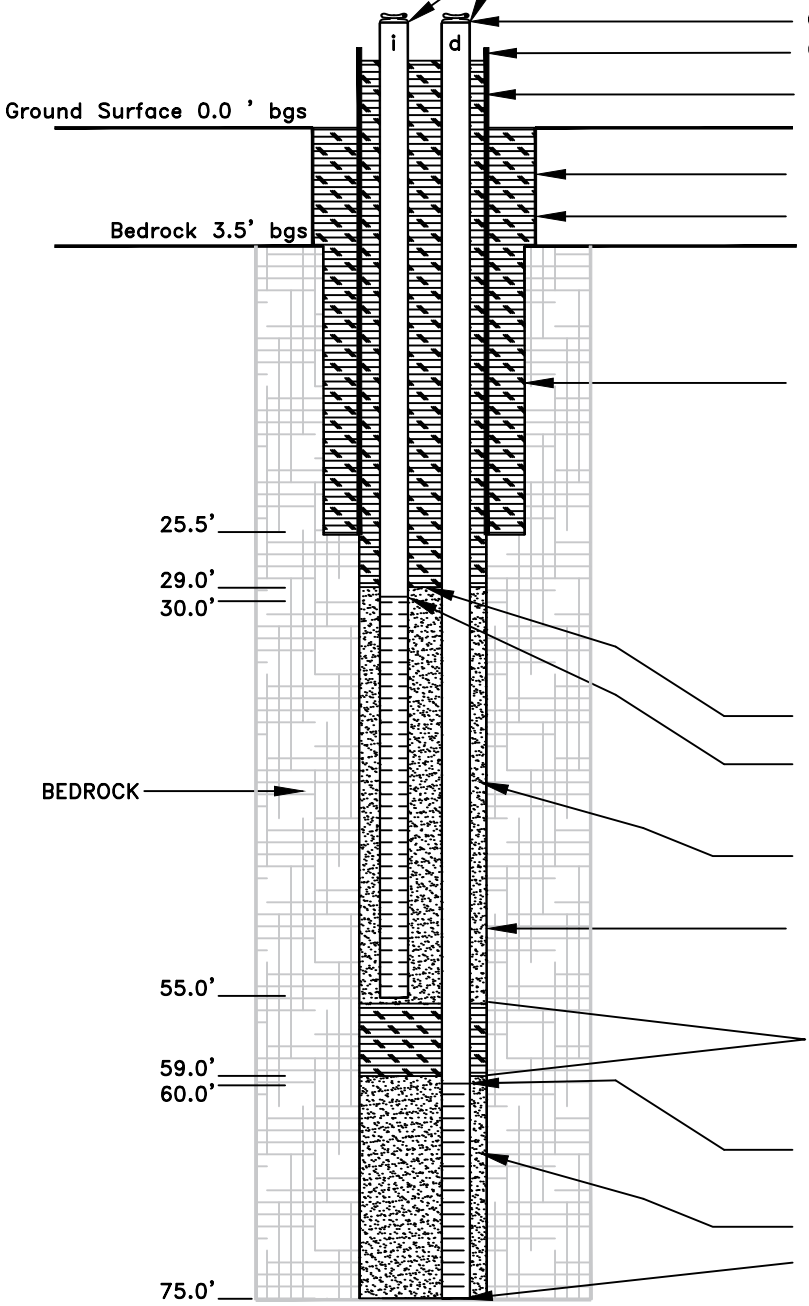
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-07id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

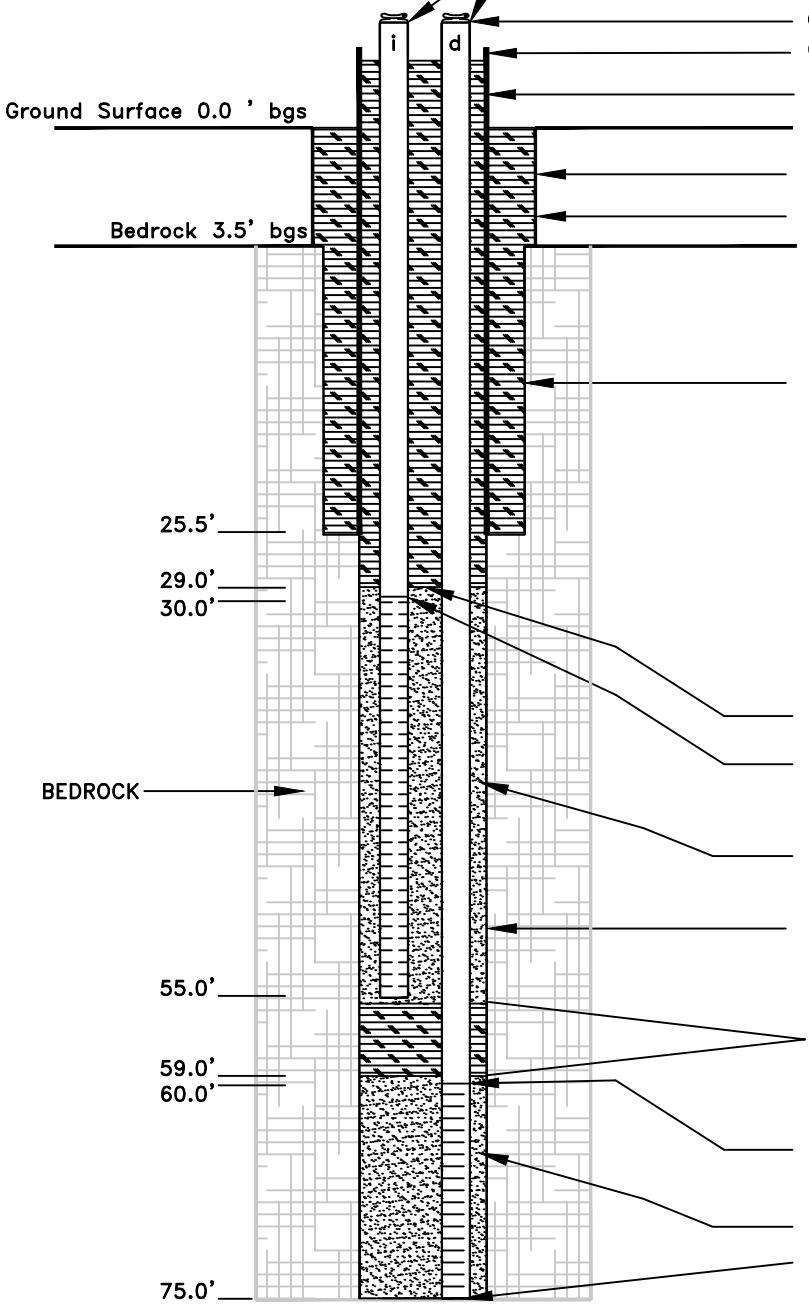
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-08id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

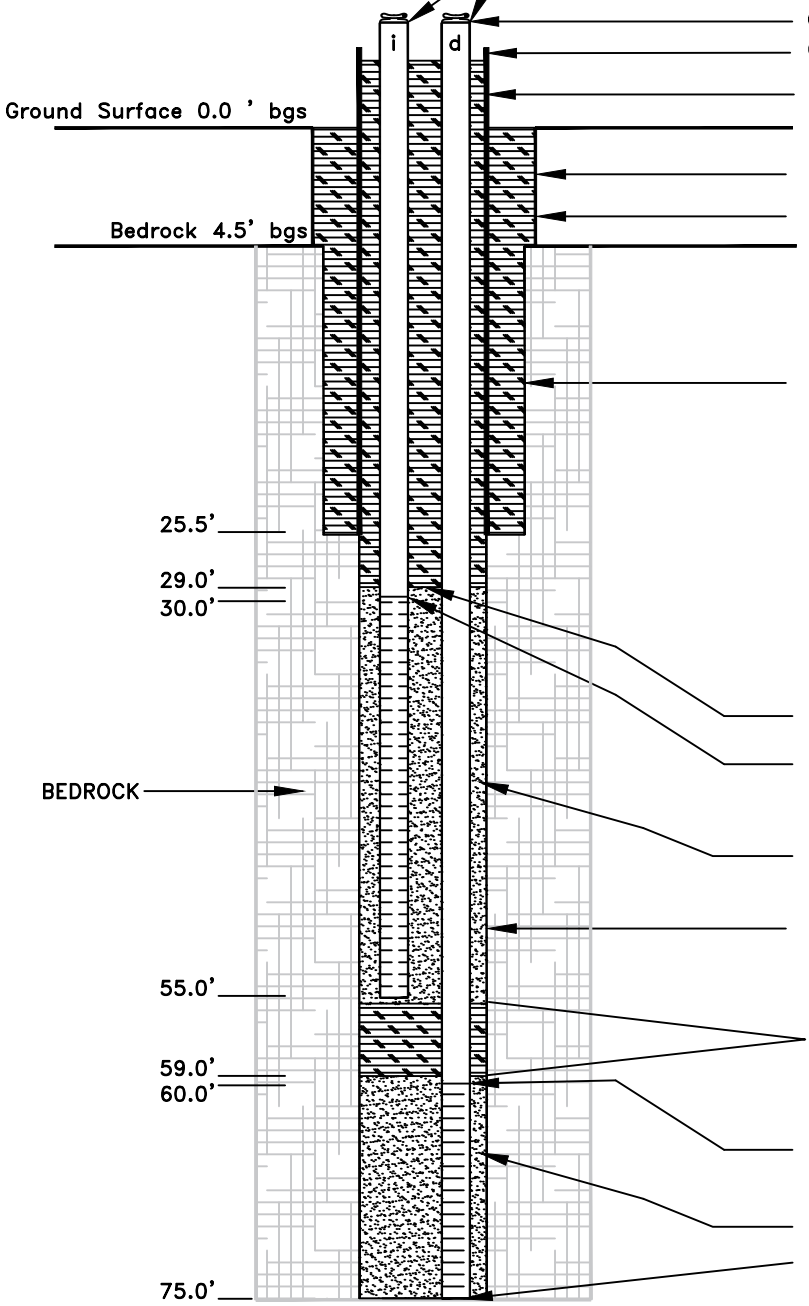
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-09id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

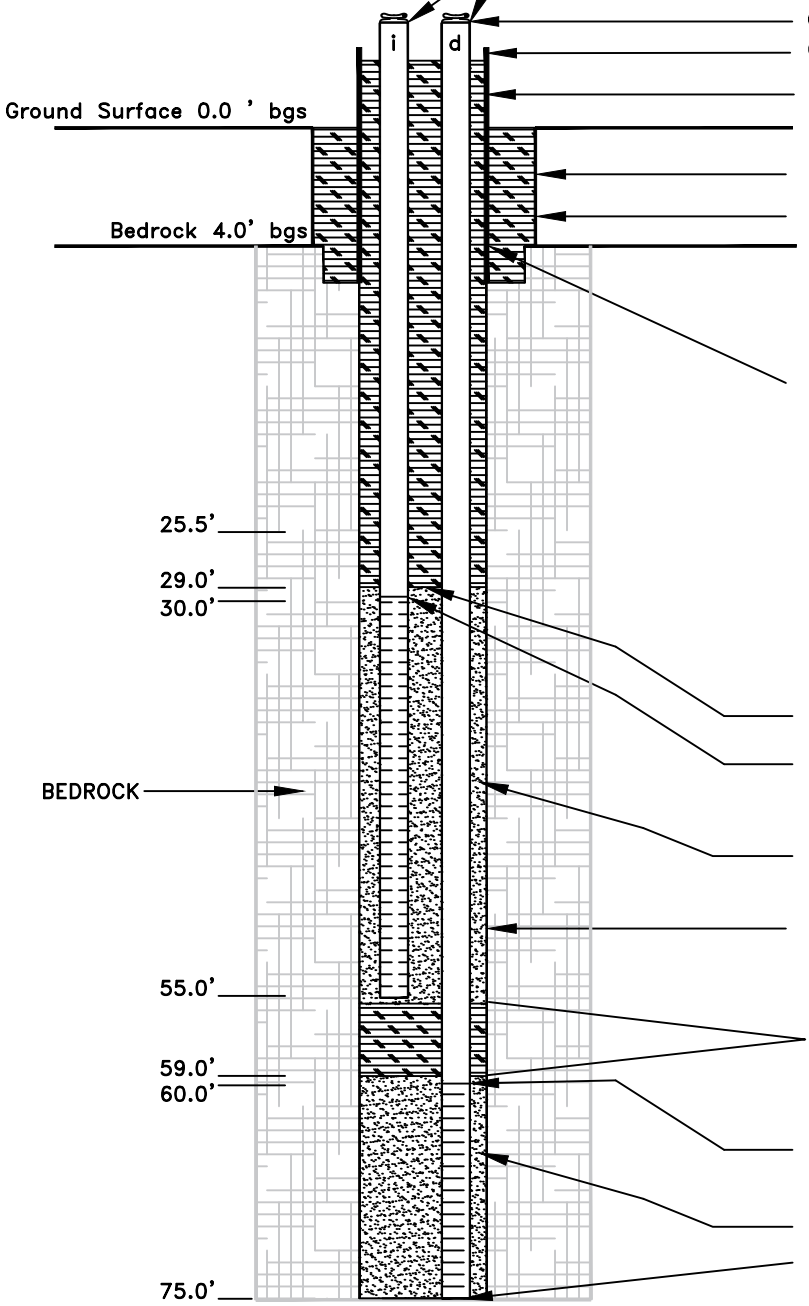
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-10id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

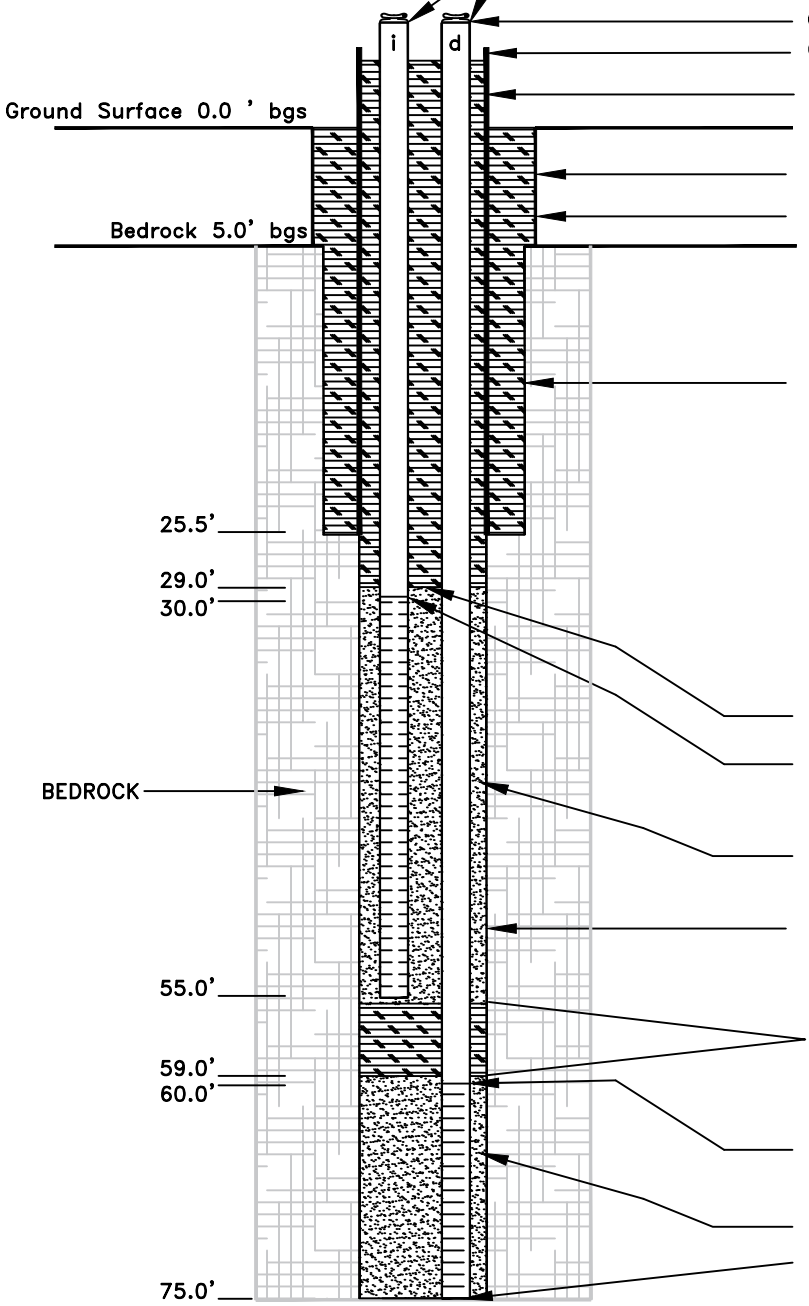
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-11id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

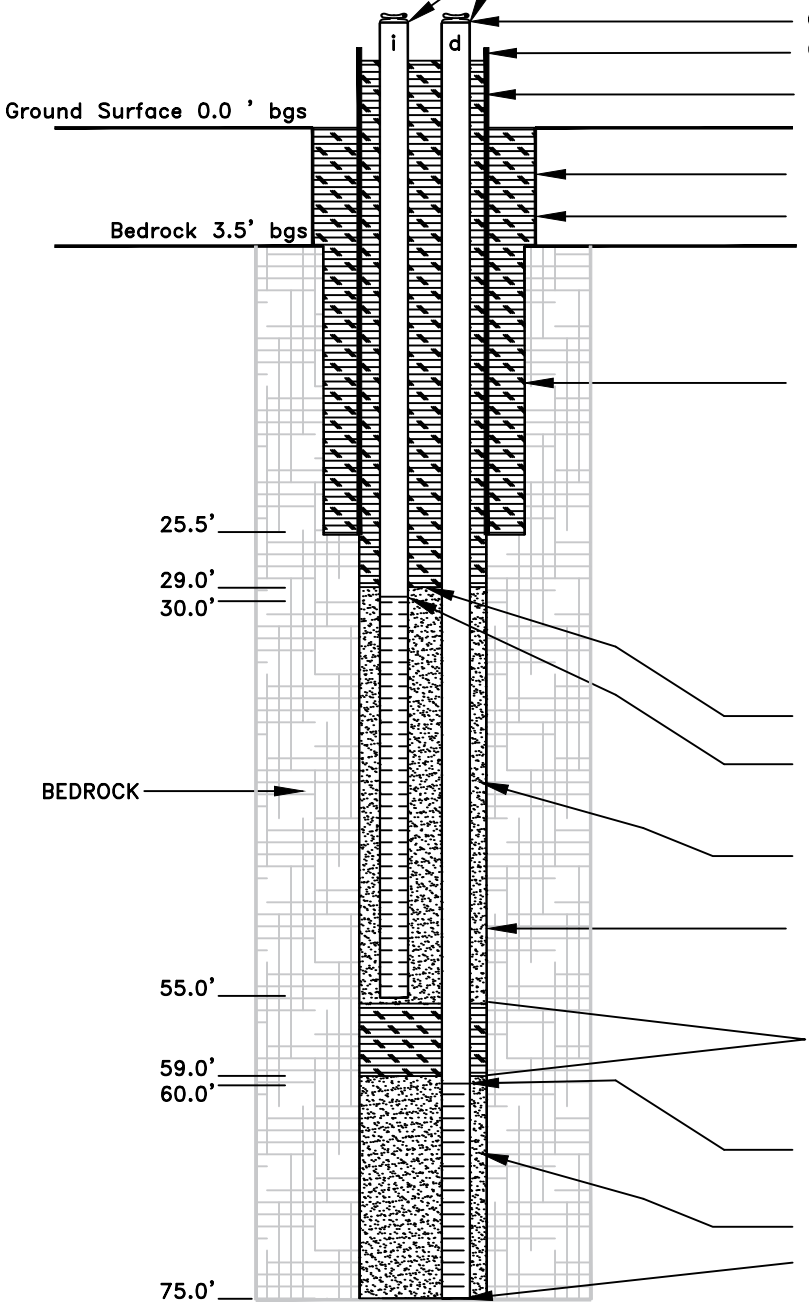
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-12id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

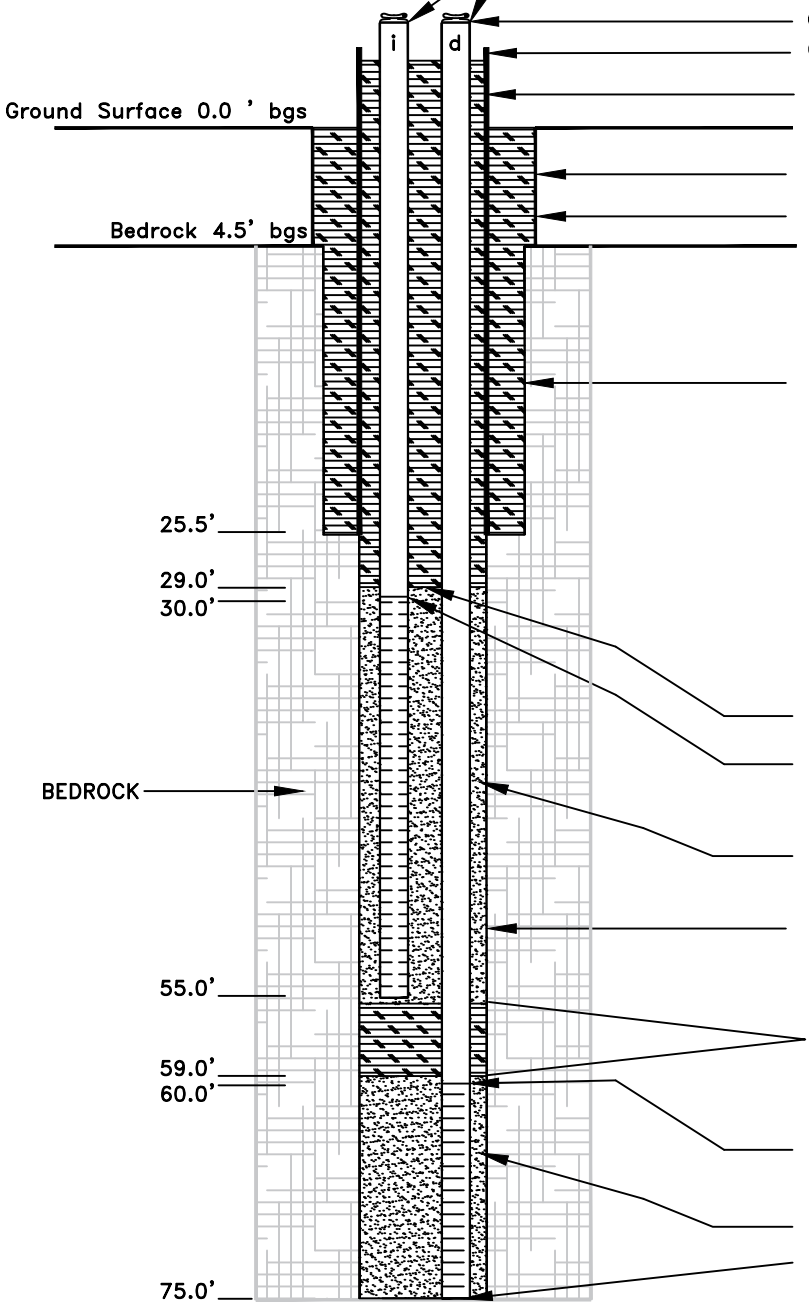
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-13id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

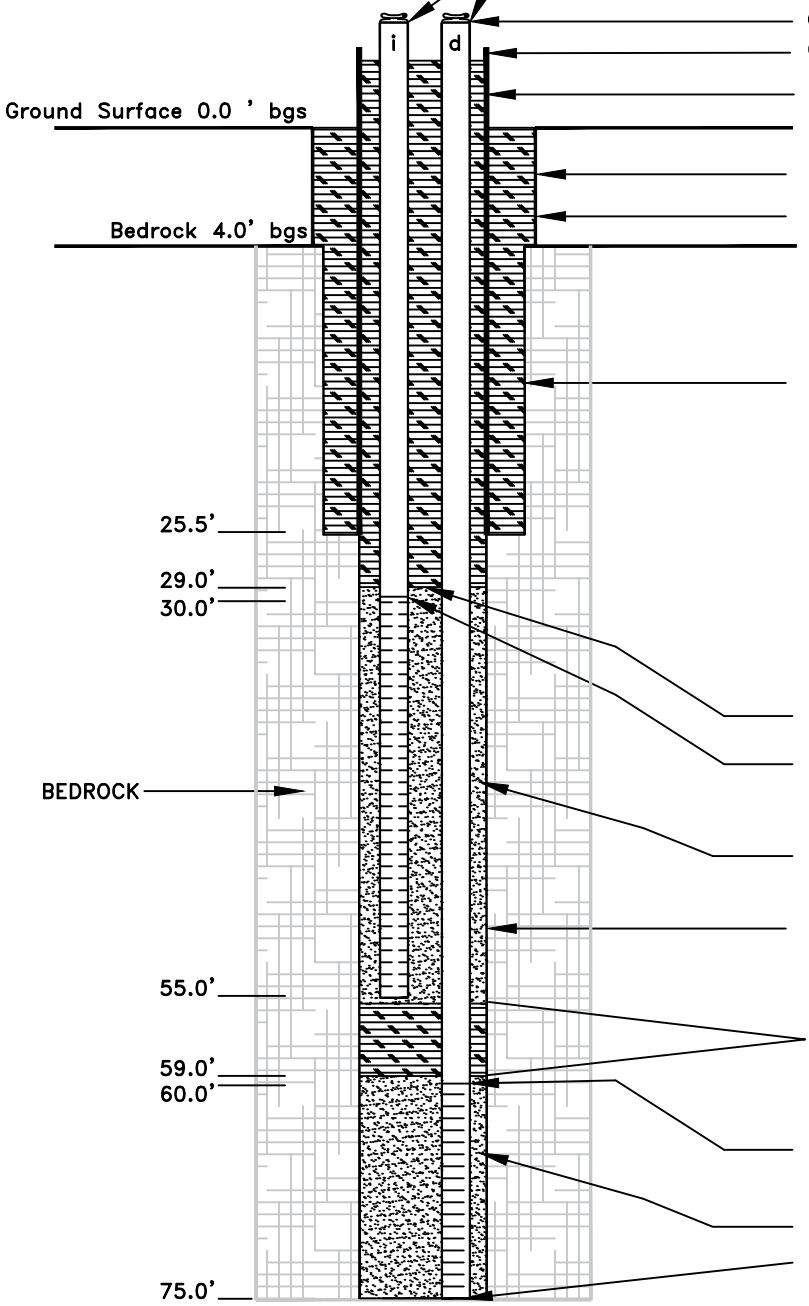
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-14id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

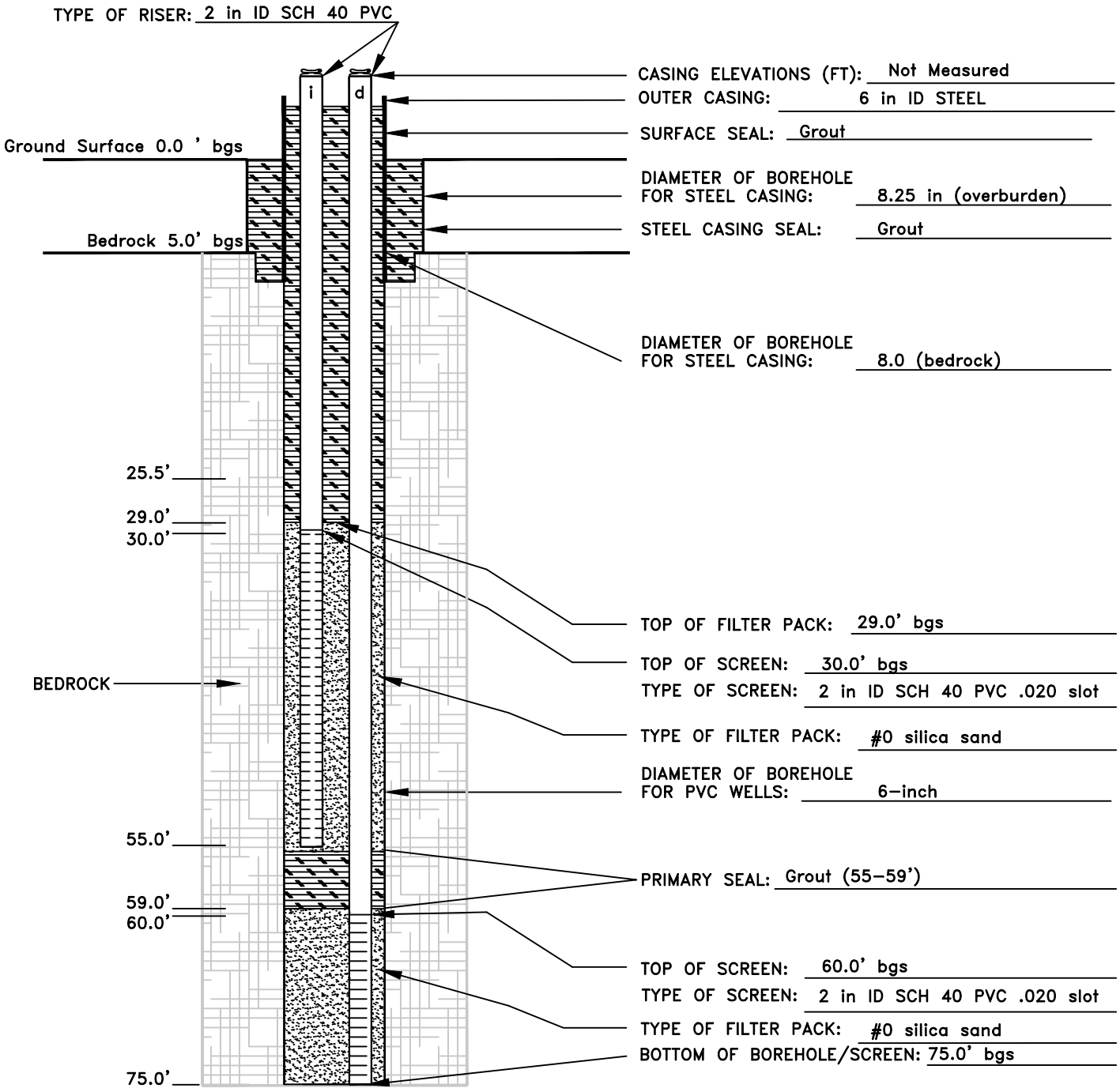
BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-20id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

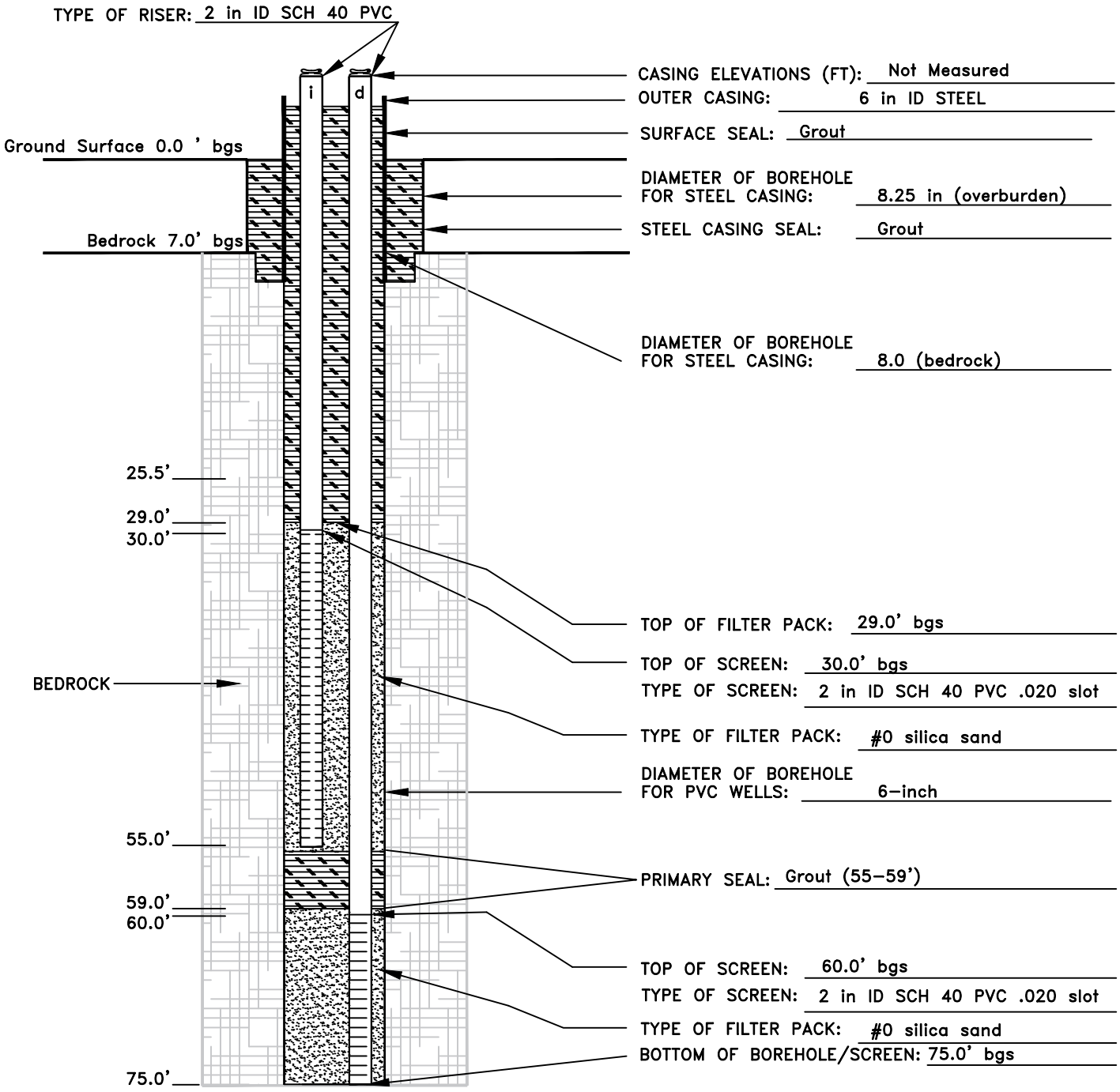


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-21id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian



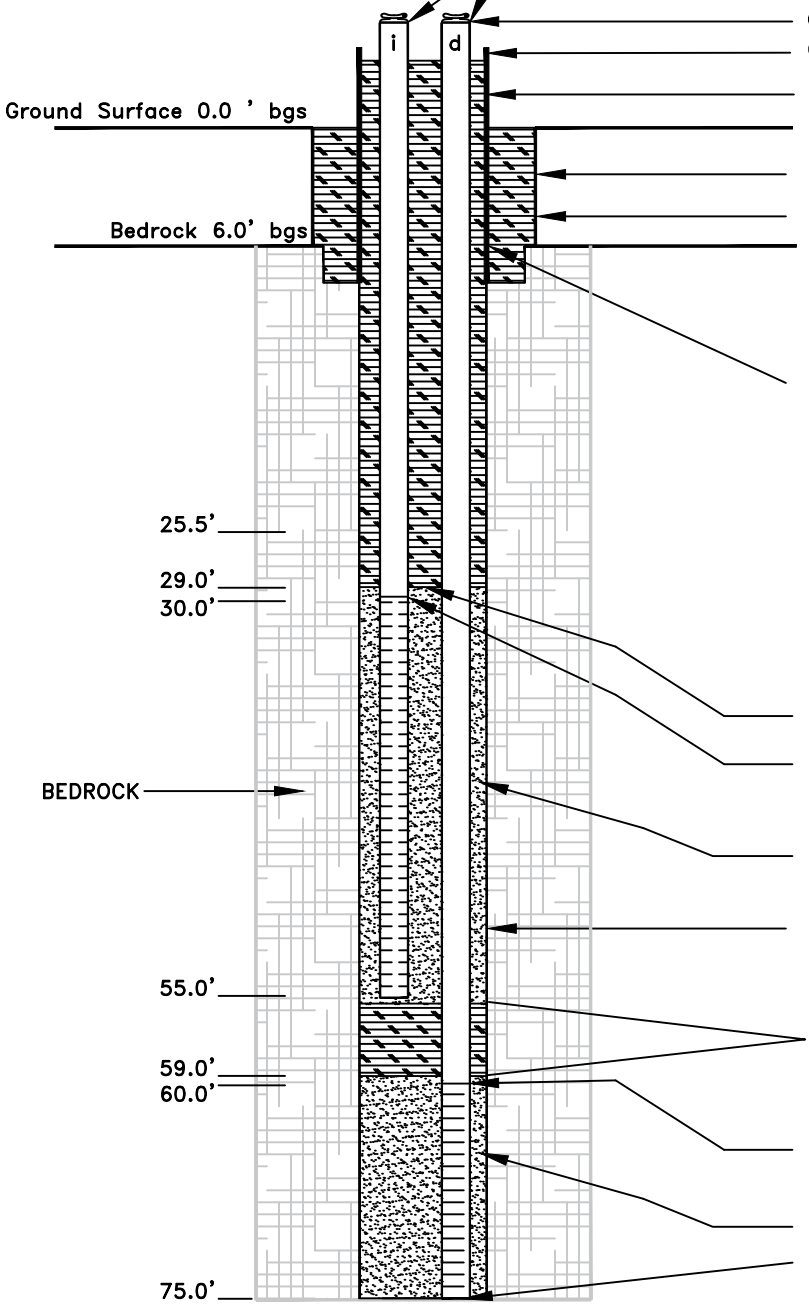
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-22id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 29.0' bgs

TOP OF SCREEN: 30.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

PRIMARY SEAL: Grout (55-59')

TOP OF SCREEN: 60.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

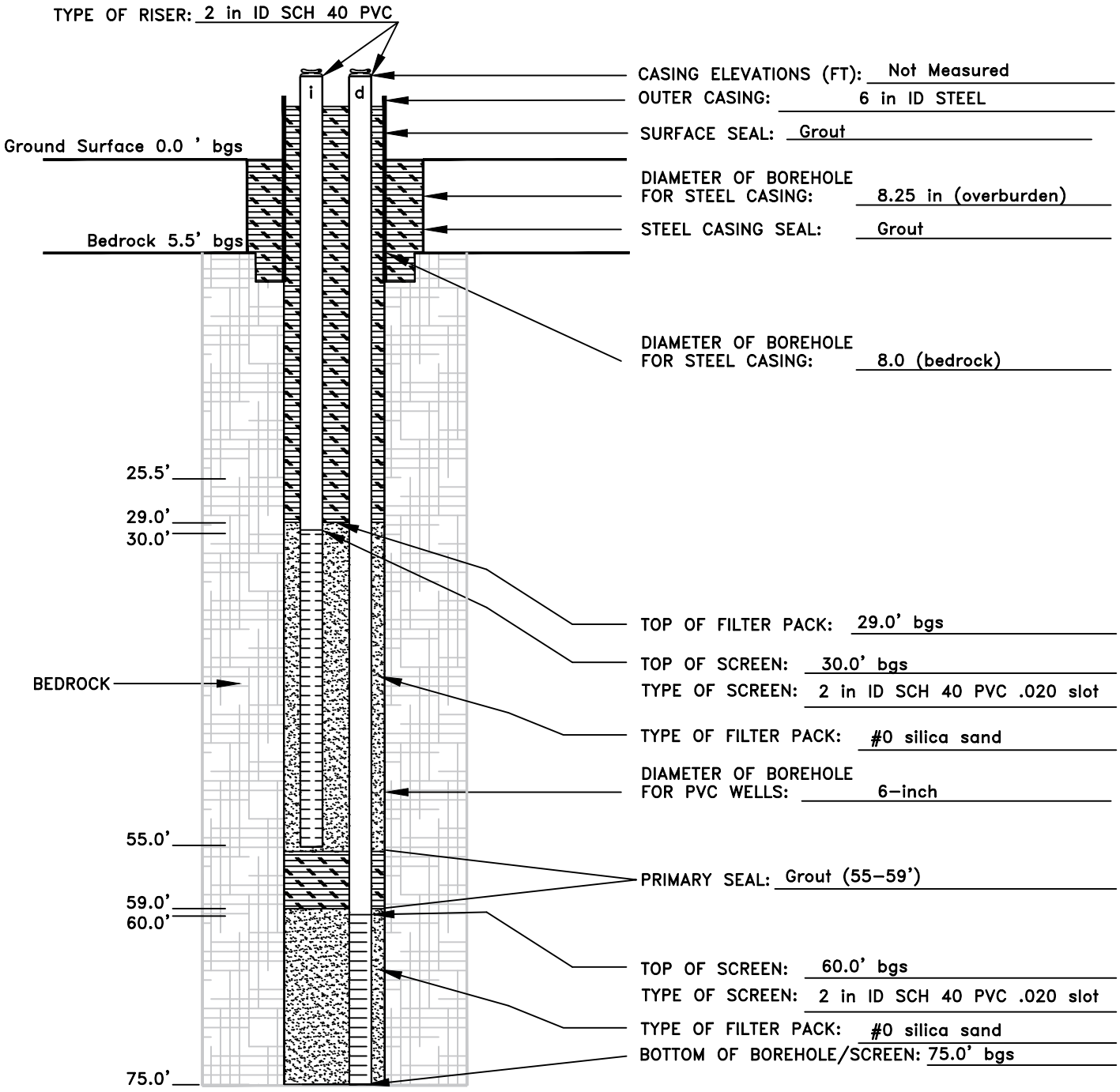
BOTTOM OF BOREHOLE/SCREEN: 75.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-28id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

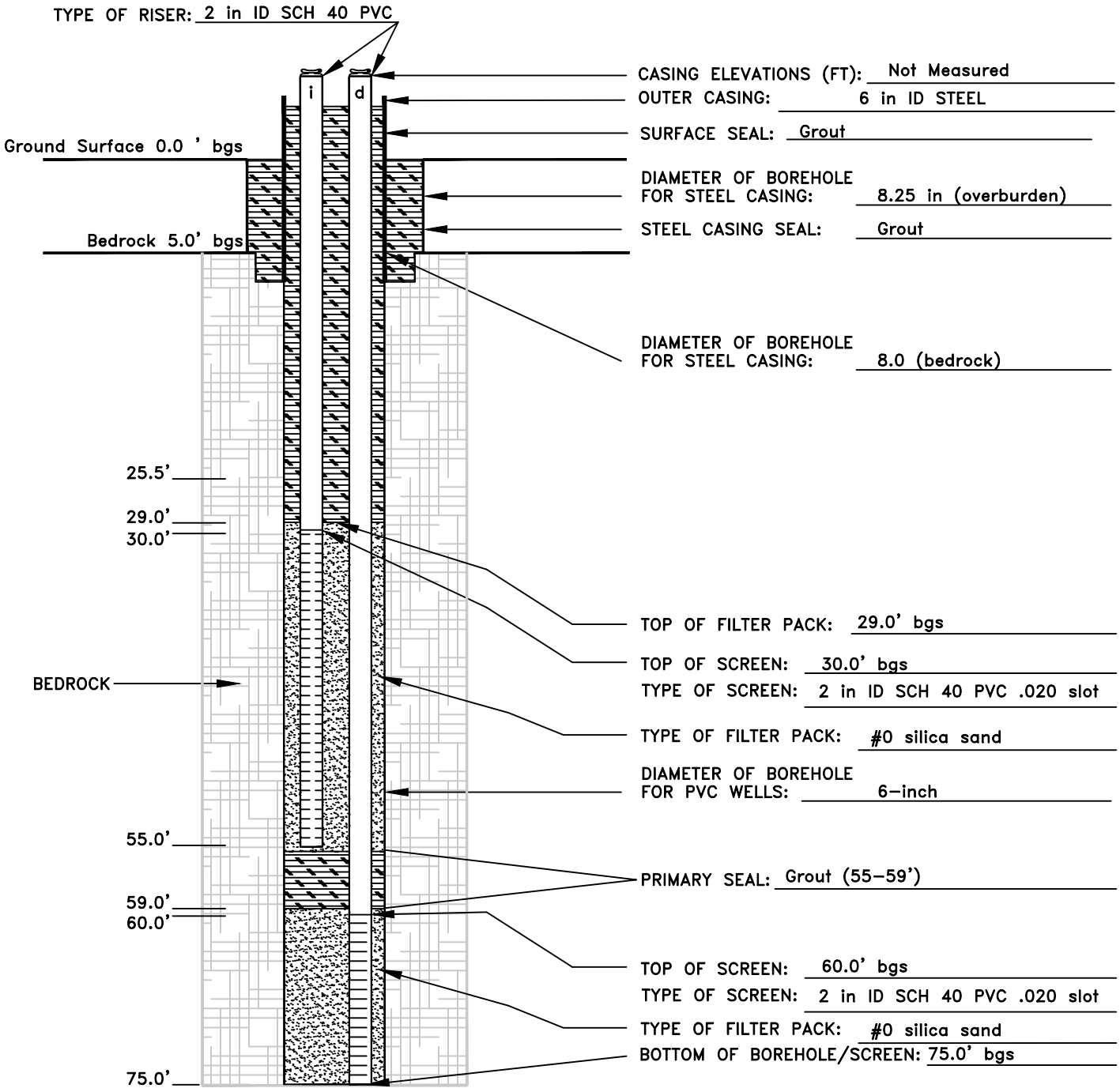


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-44id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

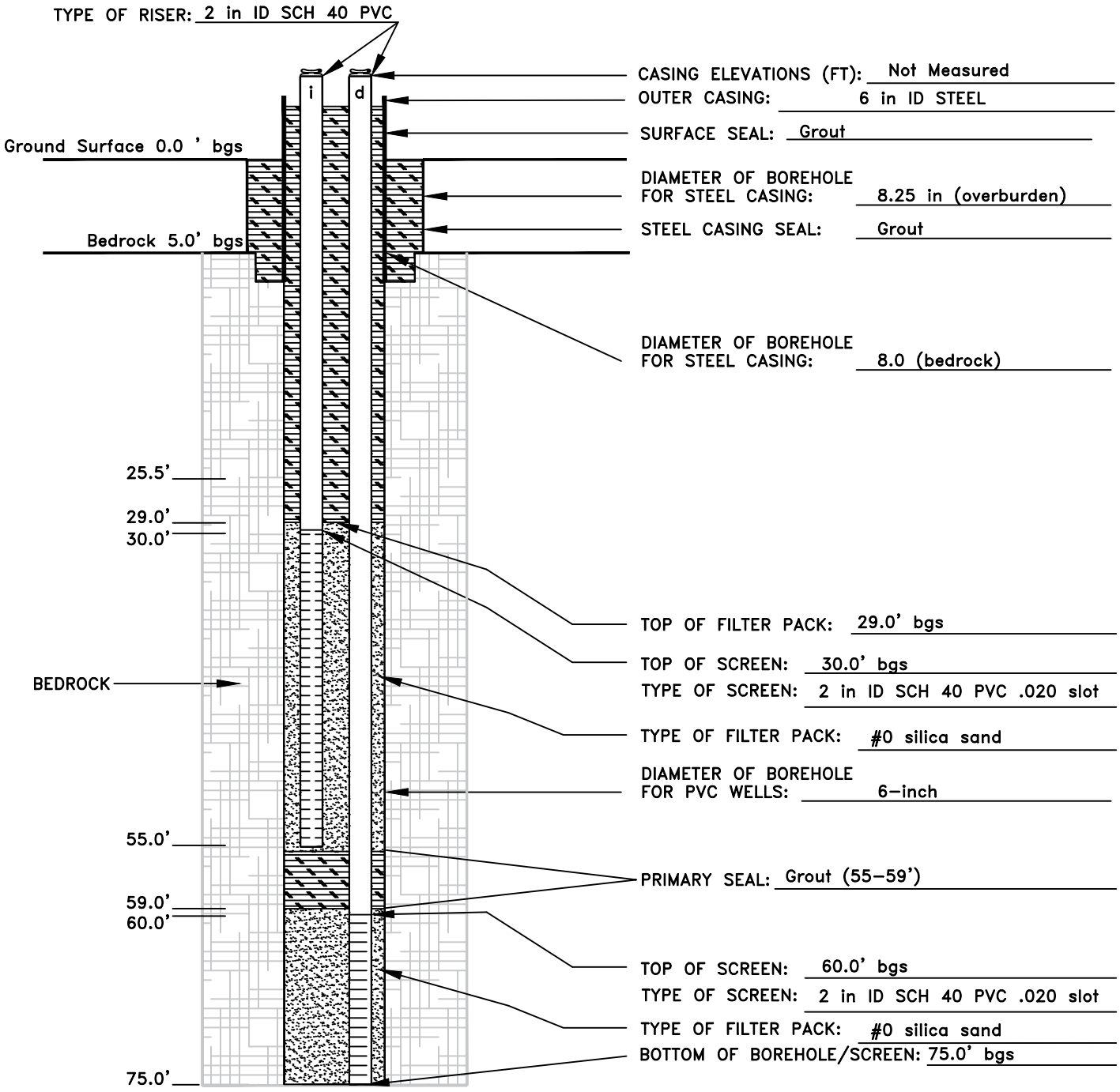


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-45id
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian



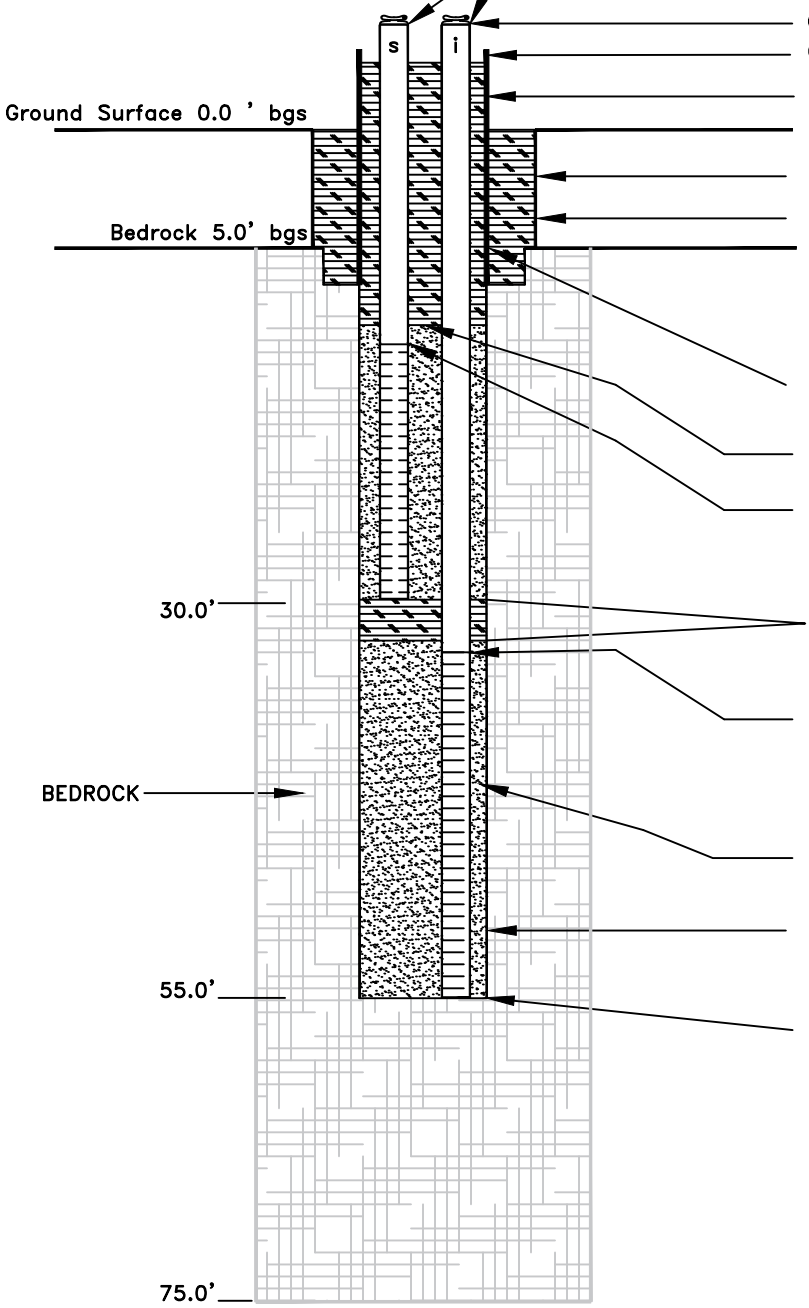
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-46si
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 8.0' bgs

TOP OF SCREEN: 9.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

PRIMARY SEAL: Grout (30-34')

TOP OF SCREEN: 35.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

BOTTOM OF BOREHOLE/SCREEN: 55.0' bgs

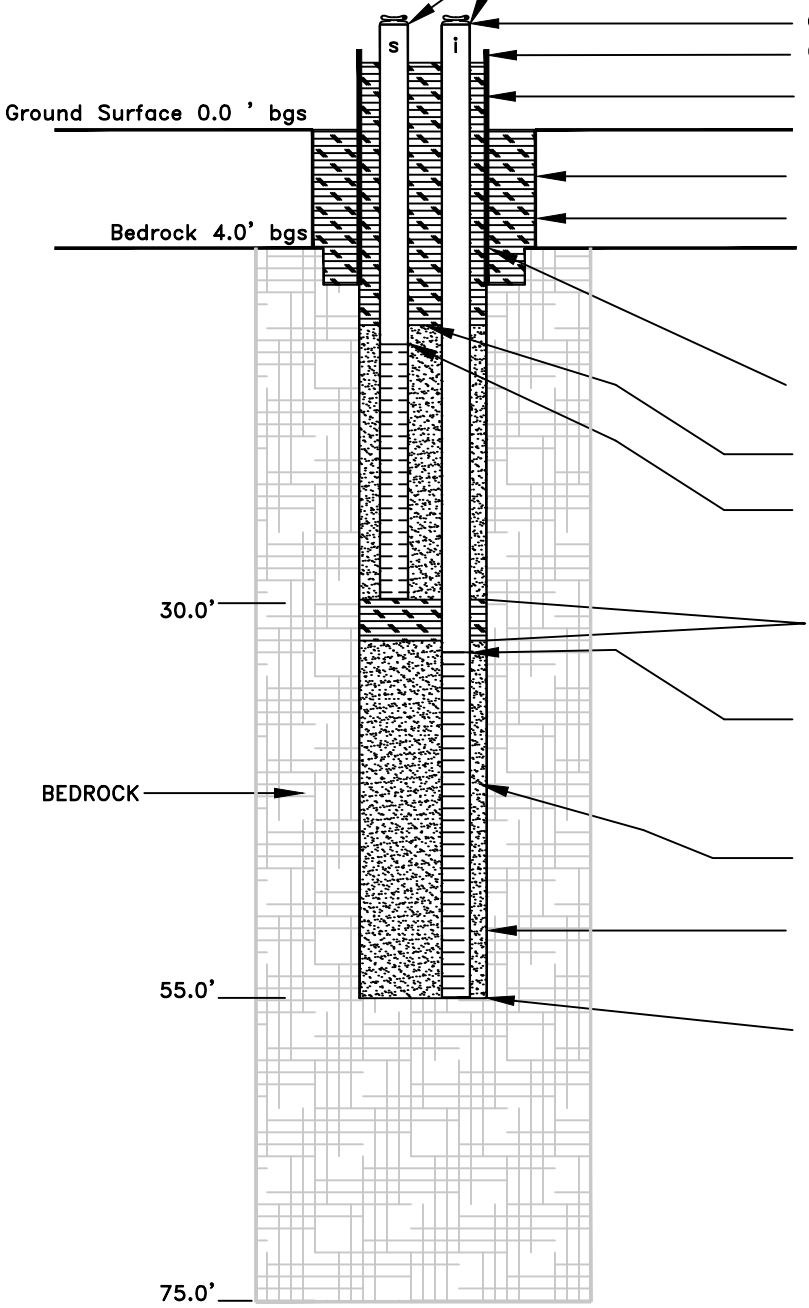
NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-47si
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

TYPE OF RISER: 2 in ID SCH 40 PVC



CASING ELEVATIONS (FT): Not Measured

OUTER CASING: 6 in ID STEEL

SURFACE SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.25 in (overburden)

STEEL CASING SEAL: Grout

DIAMETER OF BOREHOLE FOR STEEL CASING: 8.0 (bedrock)

TOP OF FILTER PACK: 8.0' bgs

TOP OF SCREEN: 9.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

PRIMARY SEAL: Grout (30-34')

TOP OF SCREEN: 35.0' bgs

TYPE OF SCREEN: 2 in ID SCH 40 PVC .020 slot

TYPE OF FILTER PACK: #0 silica sand

DIAMETER OF BOREHOLE FOR PVC WELLS: 6-inch

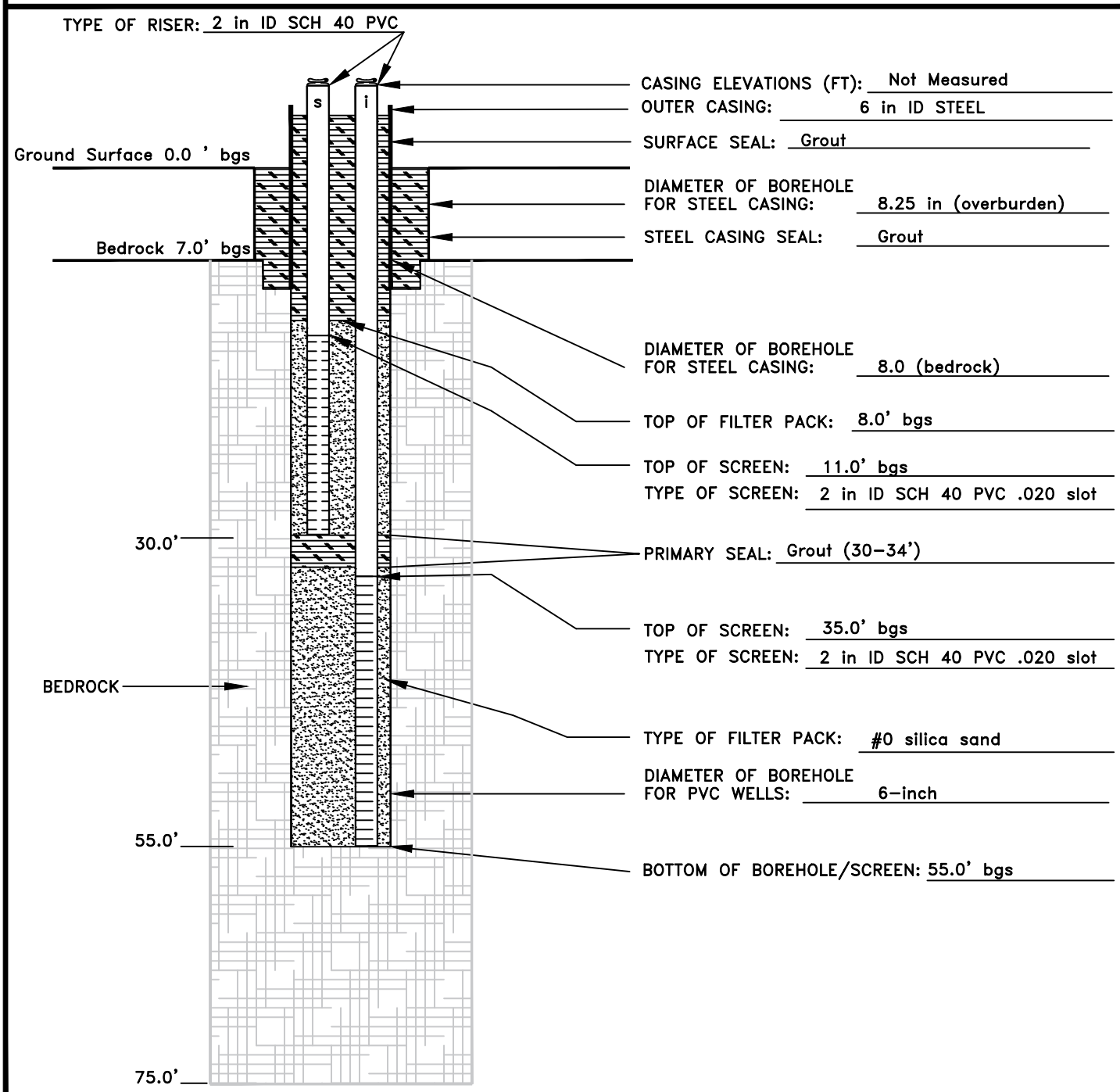
BOTTOM OF BOREHOLE/SCREEN: 55.0' bgs

NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-48si
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian

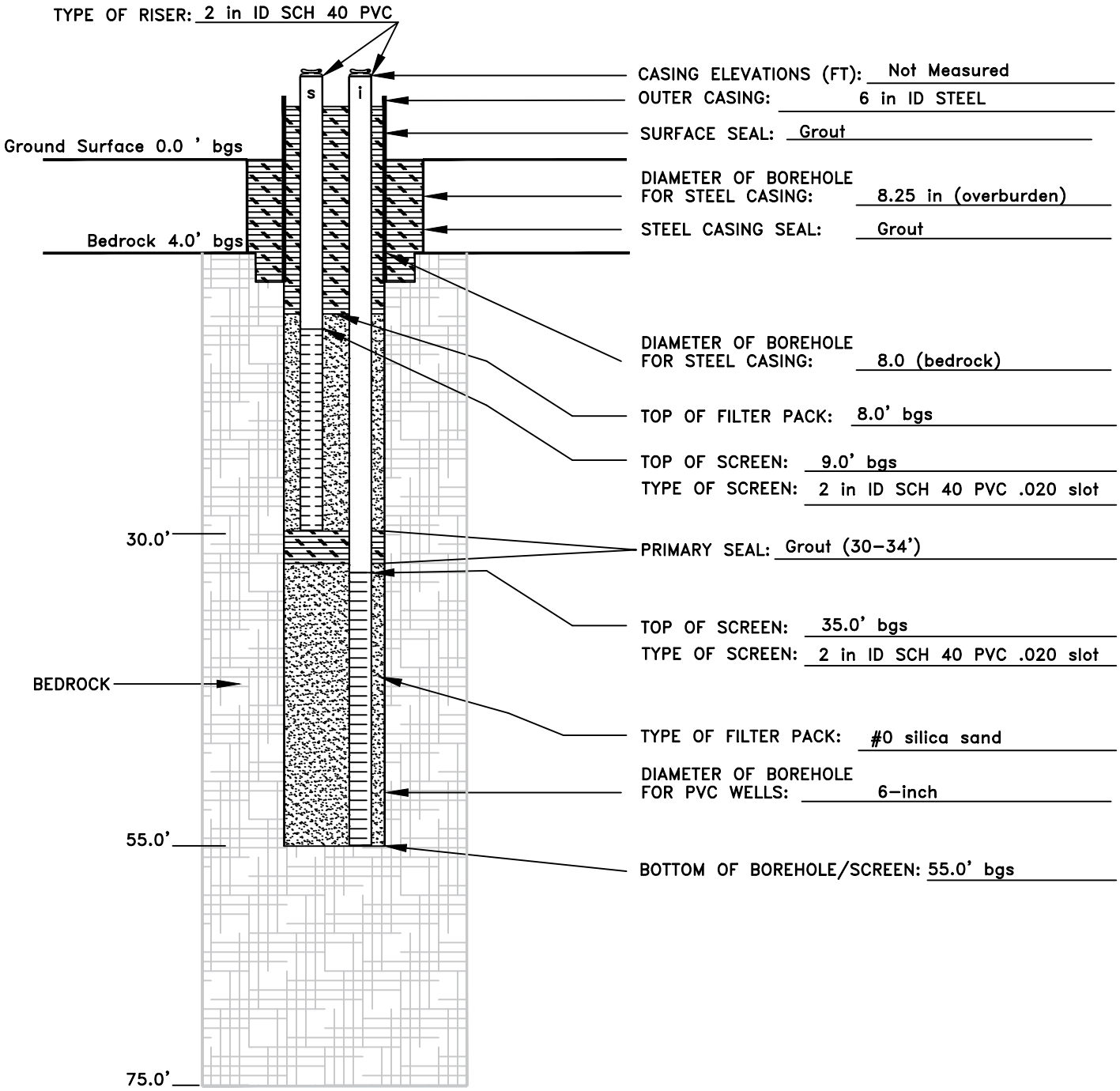


NOT TO SCALE

WELL CONSTRUCTION DETAIL

MATRIX Environmental Technologies

PROJECT INFORMATION:	Crown Cleaners, 35968 St. Rt 3, Carthage, NY	METI PROJECT #:	16-048
WELL TYPE:	Injection Well	WELL NUMBER:	IP-49si
DATE INSTALLED	August 2016	SUPERVISED BY:	METI
DRILLING COMPANY:	Nothnagle Drilling	DRILLERS:	Kevin
DRILL RIG MODEL:	Versadrill 900		Brian



NOT TO SCALE

APPENDIX B

GEOPHYSICAL REPORTS

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV Scan, 8/23/16 KJP	**Boring ID.** ID-2 Page 1 of 3

Project Number/Name: 16126 / Crown Cleaners Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Bedding Fracture	DESCRIPTION	Non-Horizontal Fracture	REMARKS
					Dry hole
2					
4					
6					
8					
10					
12					
14					
16					
18					
20					
22					
24	Casing				
			Top of exposed rock – fissile appearance		Casing to 25.0'
26		25.7'	Limestone Bedrock		Dry, dusk caked surface
		27.1			
28		28.0 28.2, 28.3		28.0 28.7 29.7'	
30					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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Clifton Park, New York 12065

GEOLOGIC LOG

TVScan, 8/26/16 KJP

Boring ID. ID-2

Project Number/Name: 16126/Crown Cleaners Location: Rt. 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Bedding Fracture	DESCRIPTION	Non-Horizontal Fracture	REMARKS
			Limestone bedrock		Dry hole
32				32.5	32.4-slight
			33.5		
34				34.3, 35.1	34.7
			35.5, 35.8, 36.1		
36					
			37.1		
38				37.6	
			38.1	38.5	38.7
40				40.4	
			40.9'		
42			41.9, 42.4		
			43.6		
44					
46					
			47.4		
48			48.1		
			49.4	49.7'	
50			50.3, 50.6		
			51.4	51.8	
52					
			53.6		
54				54.2	
			55.8	55.0-55.3 High-angle Fracture	
56			56.7', 56.8'		
58				58.3, 58.6	

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log 8/26/16 KJT

Boring ID. ID-2

Project Number/Name: 16126 / Crown Cleaners Location: Rt 3. Herrings, NY

Depth (Ft)	Sample No.	Horizontal Bedding Fractures	DESCRIPTION	Non-Horizontal Fractures	REMARKS
			60.3 Limestone bedrock	60.0	Dry hole
			61.7		
62			62.5		
			63.1	62.8	
64			64.3		
			64.9		
66			66.4, 66.5		
68					
			69.3		
70					
			71.0		
			71.3		
72			72.4		
			72.9		Extremely cloudy water/sediment at 73.7'
74			73.7 Bottom of boring / Sediment + Water		
76					
78					
80					
82					
84					
86					
88					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV-log 8/25/1116

Boring ID. ID-3

Page 1 of 1

Project Number/Name: 16126 / Crown Cleaners Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horiz Fract.	DESCRIPTION	Non Horiz Fracture	REMARKS
					Initial water level above 42' pumped down to 53.5' held steady - Scanned dry portion of borehole
10					
20		Casing			
			25.0' Limestone bedrock		casing to 25'
30			29.0'		
			30.8' - faint		
			32.8		
			33.9		
			34.6 - faint		
			35.5, 35.7		
			36.7		
				38.3'	
40			39.8'		
			40.8'	42.0	
			41.4'		
			42.8		
			43.2		
			44.0'		
			47.6'		
			48.9'		
50			51.2 53.4 - wet, dripping	51.3 51.9 53.2 wet	
			Water at 53.5' - End of scan		water too cloudy to scan well bore walls.
			Approximate bottom of well = 75' bgs		
60					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log 8/29/16 KJP

Boring ID. ID-5

Page 1 of 2

Project Number/Name: 16 126 / Clown Cleaners Location: Rt 3, Hemlock, NY

Depth (Ft)	Sample No.	Horizontal Fract.	DESCRIPTION	Non-Horiz. Fract.	REMARKS
					Dry hole
10					
20		casing			
		25.2	Limestone bedrock		casing to 25.2'
		27.1		28.3	
30				30.8, 32.1, 32.6	
		35.1		35.6	
		38.2, 38.5		38.8'	
40		41.5, 42.8			
		49.5 49.2			
50		50.3 51.2, 51.8			
		53.3' 54.1		Hi-Angle 52.7-53.6	
		55.6 56.2'			
		57.8 58.2'			
60		59.9			

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV Scan 8/29/16 KJP	**Boring ID.** ID-5 Page 2 of 7

Project Number/Name: 16126/Crown Cleaners Location: Rt.3 Hermings, NY

Depth (Ft)	Sample No.	Horizont. Fracture	DESCRIPTION	Non-Horiz Fracture	REMARKS
			Limestone bedrock		
			60.0 62.0'		
			65.2		
70					
			72.2		
	▽		water at 73.5 - too cloudy to scan		
			Approximate total depth of boring = 75'		
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log, 8/29/16 KJP

Boring ID. ID-6

Project Number/Name: 16126 / Crown Cleaners Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fracture	DESCRIPTION	2nd Horizontal Fracture	REMARKS
					Dry Hole
10					
20		Lasts			
			25.0 Limestone bedrock		25.0
			27.7		
30			29.5, weathered		
			34.4, dark		
			36.0		
			36.8	36.3	
			39.1		
40			40.1, 40.5		
			42.4		
			43.8		
			48.2		
50			50.1		
			51.8, 52.7	51.6-52.0	High angle fracture
			53.4	52.4	
			55.0 55.9		
60			**59.7**	59.2	dark

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log 8/29/16 KJP

Boring ID. IDC

Project Number/Name: 16126 / Crown Clearr Location: Rt 3, Herrings NY

Depth (Ft)	Sample No.	Horiz. Fracture	DESCRIPTION	Non-Horiz. Fracture	REMARKS
			60.8' 61.3 Limestone bedrock		
			62.2 63.0		
			66.1		
70			70.0', 70.4', 71.0'		
			71.8		
			73.4		
			74.5' wet		
			Water @ 76.1 too cloudy to scan		
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log 8/26/16 KJP

Boring ID. ID-7

Project Number/Name: 16126 / Crown Cleaners Location: Rt. 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fractures (Check Box)	DESCRIPTION	Non-Horizontal Fract.	REMARKS
					Stickup 2.7'
					Well is dry to ~70' bgs run survey to water ~~water~~ KJ
10					
20					
		casing			
			25.0'		casing to 25.0'
			25.5 Limestone bedrock		
			27.8		
30			29.6'		
				32.7	
			33.5'		
			35.8'		
			37.3'		
			38.6'		
			39.2'		
40			41.7'		
			42.5		
			43.6'		
			47.4'		
			48.2' - clamp		
			48.3 "		
50			49.8	50.4	high-angle fracture
			52.2' - weathered		
			53.1'		
			55.8'	54.9	
			56.3, 56.8		
			58.3'		
60			59.4'		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	GEOLOGIC LOG TV log 8/25/16 KJP	Boring ID. ID-7 Page 2 of 2

Project Number/Name: 16126/Crown Cleaners Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fractures (Locations)	DESCRIPTION	Non-Horiz. Fract.	REMARKS
			60.3 60.8' Limestone bedrock		
			62.3' -wet		
			63.0 64.9'		
70	▽	×	69.7' Standing Water - End of scan		Water too cloudy to scan with camera
			-75' Approximate bottom of boring		
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV Scan, 8/29/16 KJP	**Boring ID.** ID-8 Page 1 of 2

Project Number/Name: 16126/Crown Cleaners Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fracture	DESCRIPTION	Non-Horizontal Fracture	REMARKS
					Water pumped down from ~35'± to 61' bgs small pump @ limit
10					
20		Casing			
		25.4	Limestone bedrock		Casing to 25.4
		26.5			
		28.6' 29.1'		29.0'	
30		29.4'			
		33.4 34.1			
		34.7, 35.0, 35.4		35.2	
				37.6	
		37.9'			
		39.3'			
40		40.5'			
		42.2			
		43.1			
		43.9			
		46.6			
		48.4		48.6	
		49.6, 49.7			
50		51.0'			
		51.6'		Hi-Angle Fr 51.8-52.3	52.8 low ∡
		52.5		52.8	
				54.9	
		57.5 57.2, 57.9			
60					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV log, 8/29/12 KSP

Boring ID. ID-8

Project Number/Name: 16126 / Crown Cleaner Location: Rt 3, Herrings, NY

Depth (Ft)	Sample No.	Horiz. Fracture	DESCRIPTION	Non-Horiz. Fx	REMARKS
			60.8 61.0 61.2 61.3 – H2O @ 61.3'		
70					
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV Scan 8/26/16 KJP

Boring ID. ID-9

Project Number/Name: 16126/Crown Cleaners Location: R73, Hernings, NY

Depth (Ft)	Sample No.	Horizontal Fractures (Bedding)	DESCRIPTION		REMARKS
					Stickup 2.7'
					Well is dry to ~77' bgs
10					
20					
		Casing			
			25.0' Limestone bedrock		Casing to 25.0'
			28.5'	26.5	dark
30					
			32.4'		
			33.4'		
			34.3'		
			35.8'		
			36.4'		
			37.6'	38.2'	
			38.1'		
			39.0'	40.4'	
40			40.8' 41.1'		
			43.4; 43.6'		
			47.2		
			48.1 - dark, moist		
50			49.6' 50.7'		
			51.7		
			53.7'		
			54.8'		
			55.8'	56.2	
			56.9' 57.6		
60			59.7'		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV Scan 8/26/16 KJP

Boring ID. IR-9

Project Number/Name: 16126 / Crown Cleaners Location: R73, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fractures (Bedding)	DESCRIPTION	Non-Horiz Fx	REMARKS
			60.5, 60.8 Limestone bedrock		
			62.4		
			63.3		
				65.6'	
70					
			71.7		
			73.1 73.7'		
			74.5'		
	▽		76' – Water in borehole/cloudy near bottom of boring		
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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679 Plank Road
Clifton Park, New York 12065

GEOLOGIC LOG

TV log 8/26/16 KJP

Boring ID. ID-10

Project Number/Name: 16126/Crown Cleaner Location: Rt.3, Herrings, NY

Depth (Ft)	Sample No.	Horiz Fract.	DESCRIPTION	Non-Horiz	REMARKS
					Stick-up 2.7'
					Well is dry to 76' bTOC
					Ran survey to water
10					
20		Cased			
			25.0' Limestone bedrock		-Casing to 25.6'
			27.1		
			28.5'		
30			30.8		
			33.2		
			37.8		
40			40.2, 40.3		
			41.6		
			43.4		
			45.8		
			48.1		
			49.2, 49.6		
50			50.7	51.6'	
			52.1		
			52.8	53.6'	
			55.0'		
			56.2'		
			57.0 58.1'		
60			59.8		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV log 8/26/16 KJP	**Boring ID.** ID-10 Page 1 of 2

Project Number/Name: Location: Rt. 3, Herrings, NY

Depth (Ft)	Sample No.	Horiz. Fracti (Cleaving)	DESCRIPTION	Non-Horiz.	REMARKS
			60.8' Limestone bedrock		
			63.5' - Dark		
			67.7' - Dark		
70			72.8 - dark		
			73.9		
	▽		- Water at 73.9+ - too cloudy to scan	73.2	
			Approximate total depth of well = 75'		
80					
90					
100					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV Scan, 8/22/16 KJP	**Boring ID.** ID-44 Page 1 of 3

Project Number/Name: 16121 / Crown Cleaners Location: Rt. 3, Herrings, NY

Depth (Ft)	Sample No.	Horiz Fracture Plane Fx	DESCRIPTION	Non Horiz. Fx	REMARKS
					6.25" ID casing Stickup is 2.4'
2					- 2.2' Static Water Level 8/23/16 11:30
4					
6			6.1' Bottom of 6.25" ID casing Limestone bedrock		
			6.6		
			6.8		
			7.1, 7.2		7.7' low angle
8			8.0		
			9.2		9.0' low angle
			9.6		
10			10.0, 10.1		9.9' low angle
			10.9, 11.1		
12			11.9' 12.2, 12.3 12.4'		12.5 low angle
			13.2		
			13.5		
14			14.3		
			14.5		
			15.0		15.3 low angle
			15.8'		
16			16.9		
			17.1		
			17.5		
18			18.6		
			18.6		
20			20.0'		
			20.7'		
			21.4		
22			22.6		22.7' low angle
			22.8		
			23.7		23.2 low angle
24			24.2		
			24.4		
			25.2		
			25.6		
26			25.5' 26.2'		
			26.5		
			27.6, 27.7		27.8 - low angle
28			28.2		28.4 high angle
					28.7 high angle
			29.2		
30					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

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GEOLOGIC LOG

TV Scan, 8/22/16 KJP

Boring ID. 1 D 44

Project Number/Name:

Location:

Depth (Ft)	Sample No.	DESCRIPTION	REMARKS
		30.0 Limestone bedrock	
		31.0 31.1	31.7 low angle
		31.6	
32		31.9	
		32.4 32.7	33.4 low angle
		33.5	
34		34.2	
		34.4 **34.6'**	
		34.9 35.2, 35.4, 35.6	35.8 low angle
36		36.0	
		36.6	36.5 low angle
		37.2 37.3	
		37.4, 37.5 37.7	37.7 low angle
38		38.2	37.9 low angle
		38.9'	38.0 low angle
		39.4	38.1 high angle
40		39.9, 40.0	39.7 low angle
		40.3	
		40.7	
42		41.8 42.1	42.0 low angle
		43.5 43.7	
44			
			45.7 low angle
46		46.1	
		47.8'	
48		48.4	48.4 high angle
		48.9, 49.0	49.5 chattered surface
		49.5	49.2 " "
			49.7 low angle
50		50.2 **50.4'**	50.0 high angle
			50.6 low angle
		51.1	50.7
		51.4, 51.6	51.8 chattered surface
52		52.1	
		52.4 52.6	
		53.2 53.4 **53.6'**	
54		53.7 54.1	
		54.2, 54.3 54.5 54.6	
		55.3' 55.5 **55.8'**	
56		56.1	56.5 low angle
			56.9 low angle
		57.1, 57.2, 57.4	57.1-58.1 chattered surface
		57.7	58.1 low angle
58		58.4, 58.5	
		58.8 59.1	59.4 high angle
60		59.8	

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV Scan 8/22/16 KJP	**Boring ID.** ID-44 Page 3 of 3

Project Number/Name: Location:

Depth (Ft)	Sample No.	DESCRIPTION	REMARKS
		60.2, 60.3 60.4 Limestone bedrock	60.6 low angle
			60.8 low angle
		61.5	61.5 low angle
62		62.0	62.2 low angle
		62.2, 62.3	62.7 high angle
		62.8	
64			64.4 low angle
		64.7, 64.8	
		64.7	
66		66.6, 66.7	
			67.0 low angle
			67.7 low angle
68		68.3	
		68.5	
		69.1	
70		69.5, 69.6, 69.9	70.2 low angle
		70.4, 70.5	70.6 low angle
		71.0	71.1 low angle
72		72.0	71.3 low angle x 2
		72.3, 72.4	71.8 low angle
		72.6, 72.7, 72.5	
74		73.3 73.5, 73.6, 73.7	73.8 low angle
		74.5 74.6	74.2 low angle
		74.8 Sedimentary Bar	74.3 broken, chattered surf.
76			
78			
80			

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

GEOLOGIC LOG

TV Scan 8/23/16 KJP

Boring ID. 8S

Page 1 of 1

Project Number/Name: 16126 / Crown Cleaners Location: Rt3 Herrings, NY.

Depth (Ft)	Sample No.	Horizontal Fracture (Bedding)	DESCRIPTION	Non-Horizontal Fractures	REMARKS
2					
4					– 2.8' static water level 8/23/16 ~3pm
5.3	Casing				– Casing to 5.3'
6					– Apparent grout 5.3'-5.9' Broken rock or soil 5.9' to ~8-9'
8			8'-9' begin competent bedrock		
10			9.5' Limestone bedrock; 9.9', 10.4', 10.7'		Dusty, caked surface to ~11'
12			11.7' - weathered fx; ~12.2'-12.4 weathered, red surface; 12.7', 13.1'		12.4-12.7 - broken rock
14			13.8', 14.2', 14.5', 15.0', 15.2, 15.5	14.8; (15.7) 15.4	
16			16.2	16.4	cloudy water; 17.3 choppy surface
18			17.6, 17.9, 18.5, 19.1	18.3	irregular fracture
20			19.9 hole diameter change; 20.2, 20.7', 20.8, 21.2	20.3	
22			21.9, 22.3, 22.4', 22.6', 22.9'		23' surface goo
24			23.8', 24.0', 24.1, 24.2, 24.4', 24.7, 24.9', 25.2, 25.6, 25.7	24.1, 24.0, 24.2, 24.7	24.4
26			26.1 ft - Bottom of boring / sediment goo		
28					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV log 8/25/16 KJP	**Boring ID.** 18S Page 1 of 1

Project Number/Name: 16126 / Crown Cleaners Location: Rt. 3, Herrings NY

Depth (Ft)	Sample No.	Horizontal Fracture Cleavage	DESCRIPTION	Non Horiz. Fx	REMARKS
					Water too cloudy for camera view. Pumped down and ran camera survey to water @ ~23' in dried bore hole.
2					
4					
6		Casing			
8			7.8' Limestone bedrock		Casing to 7.8' bgs
			8.4', 8.6'		
10			9.5' 10.1'	no non-horizontal fractures observed	
12			11.4' - broken 12.3' - broken 13.0'		
14			14.6' 15.5'		
16			16.3		
18			18.1' 19.0'		
20			19.8		
22			21.6' **22.0'** - Water jetting into borehole from 3 sides. 22.9' Water level at time of TV scan Water too cloudy to view		
24					
26					
28					
30			Approximate boring depth = 30'		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience 679 Plank Road Clifton Park, New York 12065	**GEOLOGIC LOG** TV log 8/25/16 KJP	**Boring ID.** 26S Page 1 of 1

Project Number/Name: 16126 / Crown Cleaners Location: Rt. 3, Herrings, NY

Depth (Ft)	Sample No.	Horizontal Fracture (bedding)	DESCRIPTION		REMARKS
					Water too cloudy for camera view. Pumped down and ran camera survey to water @ 30' in drilled borehole
2					
4					
6					
8					
10					
12					
14		casing		casing	
15.3			Limestone bedrock		casing to 15.3'
16					
18		18.0'		18.1	
		18.8'			
20		19.2'			
				21.8'	
22					
24					
		25.1'			
				26.4'	
26		26.2'			
		27.2'			
28		28.1'			
30		▼	30' - Muddy water @ bottom of borehole		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

GEOLOGIC LOG

TV log, 8/19/16 KJP

Boring ID. ID-45

Page 1 of 3

Project Number/Name:

Location:

Depth (Ft)	Sample No.	Horizontal Fractures	DESCRIPTION	NON-Horizontal Fractures	REMARKS
					H_2O @ 2.2' bgs
		casing			
			6.0		Casing to 6.0'
10			10.1, 10.4		
			11.6'		
			12.1'		
			13.1'		
			13.6', dark		
			15.9'		15.6-15.7-dark
			16.2'-irregular		
			17.2', dark 17.8'		16.4
20					18.3
					19.8-20.0-high angle feature
			22.3', 23.0'		
			23.6		23.2
			25.6		
			27.2', 27.3'		27.6', 28.0'
			28.6'		29.3'
30					29.8-high angle feature
			31.3', 31.7'		
			32.5' 33.1', 33.7', 33.9'		32.5'
					35.2'
			36.6' 38.1'		36.2'
			38.1' 40.0'	37.4	37.6' 38.3'
40			40.2 40.4'	41.0	40.8'
			40.6		41.9
			42.3', weathered		
			42.8', 43.2', 43.6'		
			45.5'		
			48.1', 48.3'		
			48.9, 49.6'		
50			50.5 50.7		50.2
			51.2, 51.4-dark		50.9-51.1
			53.0 51.9 51.9		52.7-52.9 medium angle features
			53.6		
			54.5 54.8, 55.3', 55.7'		
			55.9		
			56.8', 57.4', 57.7'		
			58.5		
60			59.5		

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

GEOLOGIC LOG

TV log 8/19/16 KJI

Boring ID. ID-45

Project Number/Name:

Location:

Depth (Ft)	Sample No.	Horizontal Fractures	Fractures	DESCRIPTION	Non-Horizontal Fractures	REMARKS
60			60.0, 60.4, 60.8			
			61.4	62.0'		
			62.8, 63.1			
			65.1			
			66.1			
			68.8', 69.1'			
70			69.8'			
				70.4-70.6 medium Ang		
				71.6-72.2 high-angle fx		
			73.9'			
			74.3'			
				74.5' - Muck/Sediment in bottom of boring		
				Approximate total boring depth = 75'		
80						

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

APPENDIX C

INJECTION LOGS

Redox Tech Data Collection Sheet

Date:	8/30/2016	**Data Taker:**	Keith Precious	**Page No:**	**1**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:11	8:39	IP43s	10.7	40	300	
8:41	8:41	IP37s	0	40	0	Daylighting out of well
9:08	10:52	IP25s	2.9	10	300	
9:30	11:09	IP42s	3.0	20	300	
11:02	1:31	IP24s	2.0	10	300	
11:26	12:51	IP38s	1.2	10	100	Daylighting
1:09	1:36	IP36s	3.7	60	100	Daylight out of casing
1:45	1:46	IP27s	0	90	0	No fractures - Top blew off
2:08	2:08	IP26s	0	100	0	No fractures - Injection point riser lifted up
1:56	2:26	IP10s	10.0	10	300	
2:28	2:42	IP39s	7.1	30	100	Daylighting 15 feet away
3:02	3:50	IP41s	6.3	20	300	
4:07	4:12	IP40s	5.0	20	25	Daylighting around casing
4:24	4:26	IP34s	0	80	0	No fractures
4:30	4:32	IP23s	0	80	0	No fractures
4:41	4:41	IP35s	0	20	0	Daylighting
4:50	4:50	IP30s	0	20	0	Daylighting
4:51	6:01	IP33s	8.2	20	575	
4:55	4:55	IP28s	0	20	0	Daylighting
4:57	4:57	IP29s	0	20	0	Daylighting
5:05	5:05	IP32s	0	20	0	Daylighitng
				Total	**2700**	

Redox Tech Data Collection Sheet

Date:	8/31/2016	**Data Taker:**	Keith Precious	**Page No:**	**2**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
10:05	11:31	IP28s	2.9	10	250	
10:05	11:41	IP40s	3.1	10	300	
11:59	12:05	IP11s	8.3	20	50	
12:09	12:41	IP39s	3.1	10	100	
12:14	12:38	IP11s	10.4	20	250	
12:45	1:29	IP9s	5.7	10	250	
12:59	1:57	IP32s	1.7	10	100	
1:38	1:48	IP8s	10.0	20	100	
1:58	2:18	IP8s	10.0	20	200	
2:18	2:28	IP9s	5.0	10	50	
2:02	2:48	IP32s	2.2	10	100	
2:29	3:39	IP28s	5.0	10	50	
2:52	3:25	IP1s	9.1	20	300	
3:10	3:50	IP32s	2.5	10	100	
3:35	4:01	IP12s	7.7	10	200	
3:50	4:21	IP39s	3.2	10	100	
4:01	4:16	IP13s	6.7	10	100	
4:33	5:25	IP36s	1.9	10	100	
4:30	4:55	IP13s	8.0	10	200	
4:55	5:20	IP6s	4.0	60	100	
				Total	**3000**	

Redox Tech Data Collection Sheet

Date:	9/1/2016	**Data Taker:**	Keith Precious	**Page No:**	**3**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:20	9:05	IP6s	4.4	60	200	
8:20	9:01	IP36s	2.4	10	100	
9:01	10:45	IP38s	1.9	10	200	
9:05	9:36	IP12s	3.2	60	100	
10:01	10:01	IP2s	0.0	80	0	
10:04	10:04	IP7s	0.0	80	0	
10:15	11:05	IP5s	6.0	20	300	
10:58	12:45	IP37s	2.8	10	300	
11:26	12:10	IP5s	6.8	20	300	
12:20	1:22	IP3s	4.8	20	300	
1:01	2:21	IP22s	3.8	10	300	Injection point riser lifted up during injection
1:38	2:34	IP3s	5.4	10	300	
2:51	3:50	IP21s	5.1	50	300	
2:35	3:04	IP13s	10.3	20	300	
3:19	4:00	IP8s	7.3	20	300	
4:01	5:15	IP20s	4.1	20	300	
4:11	4:45	IP1s	8.8	20	300	
				Total	**3900**	

Redox Tech Data Collection Sheet

Date:	9/6/2016	**Data Taker:**	Keith Precious	**Page No:**	**4**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
12:01	12:01	IP44s	0	60	0	No fractures
12:05	12:05	IP45s	0	60	0	No fractures
12:10	12:10	IP46s	0	60	0	No fractures
12:21	12:52	IP4s	9.7	20	300	
12:46	12:46	IP19s	0	60	0	
12:49	2:37	IP15s	2.8	10	300	
1:10	1:42	IP4s	9.4	20	300	
1:50	2:22	IP16s	9.4	20	300	
2:30	2:31	IP18s	0	20	0	Daylighting up well
2:31	3:10	IP31s	7.7	20	300	
2:50	3:21	IP14s	9.7	20	300	
3:20	4:12	IP17s	5.8	20	300	
4:10	4:51	IP5s	7.3	20	300	
4:32	5:02	IP16s	10.0	20	300	
				Total	**2700**	

Redox Tech Data Collection Sheet

Date:	9/7/2016	**Data Taker:**	Keith Precious	**Page No:**	**5**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:50	8:50	IP3i	0	100	0	No fractures
8:52	8:52	IP8i	0	100	0	No fractures
9:10	9:13	IP9i	8.3	80	25	
9:10	9:13	IP1i	8.3	80	25	
9:24	9:31	IP1d	7.1	80	50	
9:25	9:31	IP9d	8.3	100	50	
9:35	9:36	IP3d	0	100	0	
9:39	9:40	IP8d	0	100	0	
9:54	9:56	IP12d	5.0	100	10	
9:54	9:56	IP6d	5.0	100	10	
10:06	10:35	IP6i	0.5	100	15	
10:20	10:20	IP12i	0	100	0	Injection head blew off
10:35	2:38	IP9d	1.3	100	315	
10:39	10:44	IP13d	0	100	0	No fractures
10:53	10:53	IP20d	0	100	0	Injection head blew off
10:59	11:00	IP21d	0	100	0	Injection head blew off
11:31	12:05	IP5s	8.8	10	300	
12:24	12:45	IP14d	1.2	100	25	Exothermic reaction
1:45	1:50	IP11d	5.0	100	25	No fractures
2:01	2:06	IP44d	0	100	0	No fractures
2:10	2:13	IP10d	8.3	100	25	
2:22	2:27	IP10i	3.0	100	15	Injection head blew off
2:31	2:33	IP11i	5.0	100	10	No fractures
2:38	2:38	IP441	0	100	0	No fractures
2:40	3:10	IP4s	10.0	20	300	
3:03	3:03	IP45d	0	100	0	No fractures
				Total	**1200**	

Redox Tech Data Collection Sheet

Date:	9/7/2016	**Data Taker:**	Keith Precious	**Page No:**	**6**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
3:25	3:30	IP13i	5.0	100	25	
3:32	3:37	IP45i	5.0	100	25	
3:51	4:40	IP16s	7.1	20	350	
3:36	3:38	IP20i	5.0	100	10	
3:39	3:44	IP14i	5.0	100	25	
3:45	3:48	IP21i	5.0	100	15	
4:11	5:01	IP4s	7.0	20	350	
				Total	**800**	

Redox Tech Data Collection Sheet

Date:	9/8/2016	**Data Taker:**	Keith Precious	**Page No:**	**7**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:29	9:35	DP1 (4')	6.1	10	400	
8:45	8:47	IP7d	5.0	80	10	
8:48	8:52	IP2d	2.5	80	10	
8:55	8:55	IP22d	0	80	0	
9:00	9:01	IP28d	0	80	0	
9:03	9:07	IP5d	2.5	80	10	
9:12	9:15	IP2i	6.7	80	20	
9:16	9:18	IP5i	5.0	80	10	
9:19	9:21	IP7i	5.0	80	10	
9:40	9:41	IP28i	0	80	0	
9:55	9:55	IP22i	0	80	0	
9:42	10:30	DP2 (4')	8.3	20	400	
10:11	11:06	DP3 (3.5')	6.0	20	330	
10:52	11:45	DP5 (4')	7.6	20	400	
11:23	12:10	DP4 (6')	8.5	20	400	
12:05	12:55	DP7 (4')	8.0	20	400	
12:35	2:02	DP6 (6')	4.6	20	400	
1:15	2:10	DP8 (4')	7.3	20	400	
2:50	3:40	DP10 (4')	8.0	20	400	
2:50	3:50	DP9 (4')	6.7	20	400	
4:10	5:01	DP11 (4')	7.8	20	400	
4:25	5:15	DP12 (4')	8.0	20	400	
				Total	**4800**	

Redox Tech Data Collection Sheet

Date:	9/9/2016	**Data Taker:**	Keith Precious	**Page No:**	**8**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
7:45	10:13	IP44i	2.7	80	400	
8:25	11:51	IP47i	1.5	80	300	
10:27	10:29	IP46i	0	80	0	No fractures
10:29	11:21	DP16 (6')	7.7	20	400	
11:41	11:41	IP46i	0	80	0	No fractures
11:41	12:33	DP15 (4')	7.7	20	400	
11:51	11:51	DP13 (6')	0	20	0	Daylighting out of well
11:51	12:04	DP14 (4')	7.7	20	100	
				Total	**1600**	

Redox Tech Data Collection Sheet

Date:	9/12/2016	**Data Taker:**	Keith Precious	**Page No:**	**9**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
12:22	1:05	DP14 (6')	7.0	20	300	
12:27	1:05	DP17 (4')	5.3	20	200	
1:05	1:29	IP47i	4.2	60	100	
1:09	1:40	DP18 (4')	6.5	20	200	
1:53	3:01	DP19 (6')	5.9	20	400	
2:05	2:35	DP18 (4')	6.7	20	200	
2:35	2:58	IP14s	8.7	20	200	
3:15	3:35	IP14s	10.0	20	200	
3:36	4:00	IP13s	8.3	20	200	
3:37	4:48	DP13 (4')	5.6	20	400	
4:15	4:46	IP13s	6.5	20	200	
4:47	5:17	IP21s	6.7	20	200	
				Total	**2800**	

Redox Tech Data Collection Sheet

Date:	9/13/2016	**Data Taker:**	Keith Precious	**Page No:**	**10**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:03	8:33	IP21s	6.7	20	200	
8:23	8:53	DP20 (4')	6.7	20	200	
8:34	9:20	IP6s	8.7	20	400	
9:21	10:04	IP8s	9.3	20	400	
9:40	10:39	DP21 (4')	6.8	20	400	
10:20	11:05	IP22s	8.9	20	400	
11:11	12:10	DP22 (4')	6.8	20	400	
11:20	11:30	IP9s	5.0	20	50	Daylighting was observed.
11:31	12:16	IP11s	7.8	20	350	
12:48	1:43	DP23 (4')	7.3	20	400	
12:48	1:35	IP1s	8.5	20	400	
1:48	2:31	IP3s	9.3	20	400	
1:59	2:00	IP45d	0	60	0	No fractures
2:02	2:03	IP44d	0	60	0	No fractures
2:04	2:05	IP8d	0	60	0	No fractures
2:06	2:07	IP10d	0	60	0	No fractures
2:09	2:10	IP11d	0	60	0	No fractures
2:10	3:12	IP10s	6.5	20	400	
2:51	3:35	IP14s	9.1	20	400	
3:33	4:28	IP33s	7.3	20	400	
4:01	4:52	IP16s	7.8	20	400	
				Total	**5600**	

Redox Tech Data Collection Sheet

Date:	9/14/2016	**Data Taker:**	Keith Precious	**Page No:**	**11**
Client:	GES	**Site Name:**	Crown Cleaners	**Location:**	Shallow Wells

Rig Type:	NA					
Inj. Tool:	Bedrock Wells					
Pipe Diam (in):		**Fluid Conc:**	26 wt%			
Point Names:	See Below		**Area:**			
Fluid Injected:	Base Activated Sodium Persulfate					
Start Time	**End Time**	**Depth (ft bgs)**	**Flowrate (gpm)**	**Injection Pressure (psi)**	**Solution Injected (gal)**	**Notes (flow change, etc:)**
8:01	8:25	IP8s	8.3	20	200	
7:50	8:12	IP14s	9.1	20	200	
8:12	8:34	IP5s	9.1	20	200	
8:25	8:50	IP1s	8.0	20	200	
8:45	9:08	IP6s	8.7	20	200	
9:02	9:25	IP7s	8.7	20	200	
9:08	9:30	IP4s	9.1	20	200	
9:25	9:52	IP2s	7.4	20	200	
9:50	10:11	IP16s	9.5	20	200	
10:11	10:33	IP13s	9.1	20	200	
10:10	10:32	IP21s	9.1	20	200	
10:32	10:56	IP3s	8.3	20	200	
11:11	11:34	IP14s	8.7	20	200	
11:34	11:58	IP5s	8.3	20	200	
11:43	12:33	DP24 (4')	6.0	20	300	
				Total	**3100**	

APPENDIX D

LABORATORY ANALYTICAL REPORTS (COPY)

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47400

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 20

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47400

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47400-1	08/18/16	12:30		08/19/16	AQ	Ground Water	128M-0878
MC47400-1F	08/18/16	12:30		08/19/16	AQ	Groundwater Filtered	128M-0878
MC47400-2	08/18/16	14:00		08/19/16	AQ	Ground Water	128M-0879
MC47400-3	08/18/16	14:10		08/19/16	AQ	Ground Water	128M-0880

2

Summary of Hits

Job Number: MC47400
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47400-1	**128M-0878**					
Carbon Dioxide		1630	100	84	ug/l	RSK-175
Arsenic		3.7 B	4.0	2.0	ug/l	SW846 6010C
Barium		70.7	50	0.57	ug/l	SW846 6010C
Chromium		2.1 B	10	1.1	ug/l	SW846 6010C
Iron		1110	100	16	ug/l	SW846 6010C
Lead		1.8 B	5.0	1.1	ug/l	SW846 6010C
Nickel		2.3 B	40	0.35	ug/l	SW846 6010C
Zinc		31.2	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		370	5.0		mg/l	SM21 2320B
Chloride		260	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.16	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.17	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.010	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		2090	0.50		umhos/cm	EPA 120.1
Sulfate		331	50		mg/l	ASTM516-90,02
MC47400-1F	**128M-0878**					
Barium		73.7	50	0.57	ug/l	SW846 6010C
Nickel		1.6 B	40	0.35	ug/l	SW846 6010C
Zinc		58.0	20	1.0	ug/l	SW846 6010C
MC47400-2	**128M-0879**					
Methane		351	10	4.9	ug/l	RSK-175
Iron		197	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		2630	5.0		mg/l	SM21 2320B
Carbon Dioxide		< 5.0	5.0		mg/l	SM18 4500CO2D
Chloride		220	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrite		0.013	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1900	0.50		umhos/cm	EPA 120.1
Sulfate		13.5	5.0		mg/l	ASTM516-90,02
pH [b]		12.2			su	SM21 4500HB/EPA150.1
MC47400-3	**128M-0880**					
Methane		11.6	10	4.9	ug/l	RSK-175
Iron		31600	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		261	5.0		mg/l	SM21 2320B
Carbon Dioxide [c]		31.5	5.0		mg/l	SM18 4500CO2D
Chloride		260	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate + Nitrite		0.11	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.012	0.010		mg/l	SM 21 4500 NO2 B

Summary of Hits

Job Number: MC47400
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Specific Conductivity	1700	0.50		umhos/cm	EPA 120.1
Sulfate	317	50		mg/l	ASTM516-90,02
pH [b]	7.2			su	SM21 4500HB/EPA150.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Analysis performed past the required 15 minutes of collection time/holding time.
(c) Field analysis required. Analysis perfomed in the laboratory.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0878		
Lab Sample ID:	MC47400-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24173.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1630	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0878		
Lab Sample ID:	MC47400-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	3.7 B	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	70.7	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	2.1 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	1110	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.8 B	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.3 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	31.2	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0878		
Lab Sample ID:	MC47400-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	370	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	260	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.16	0.11	mg/l	1	08/24/16 15:44	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.17	0.10	mg/l	1	08/24/16 15:44	MC	EPA 353.2
Nitrogen, Nitrite	0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	2090	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	331	50	mg/l	10	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0878		
Lab Sample ID:	MC47400-1F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	73.7	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	16 U	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.6 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	58.0	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0879		
Lab Sample ID:	MC47400-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24194.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	351	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0879		
Lab Sample ID:	MC47400-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	197	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0879		
Lab Sample ID:	MC47400-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	2630	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide	< 5.0	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	220	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:14	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 15:45	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 15:45	MC	EPA 353.2
Nitrogen, Nitrite	0.013	0.010	mg/l	1	08/19/16 16:54	EL	SM 21 4500 NO2 B
Specific Conductivity	1900	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	13.5	5.0	mg/l	1	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [c]	12.2		su	1	08/20/16 12:37	CF	SM21 4500HB/EPA150.1

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(c) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0880		
Lab Sample ID:	MC47400-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24195.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	11.6	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0880		
Lab Sample ID:	MC47400-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	31600	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0880		
Lab Sample ID:	MC47400-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	261	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	31.5	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	260	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:14	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	< 0.11	0.11	mg/l	1	08/24/16 15:47	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.11	0.10	mg/l	1	08/24/16 15:47	MC	EPA 353.2
Nitrogen, Nitrite	0.012	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	1700	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	317	50	mg/l	10	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.2		su	1	08/20/16 12:40	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47400

No: 08/18/16-0041
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0878	ERT-37D	Metals (Total)	Groundwater	8/18/2016	12:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0878	ERT-37D	Metals (Dissolved)	Groundwater	8/18/2016	12:30	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0878	ERT-37D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	12:30	1	250 mL Poly	None		N
	128M-0878	ERT-37D	Methane	Groundwater	8/18/2016	12:30	2	40 mL glass w/septum	HCl pH <2		N
-1F	128M-0878	ERT-37D	Sulfide	Groundwater	8/18/2016	12:30	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0878	ERT-37D	Nitrate	Groundwater	8/18/2016	12:30	1	250 mL Poly	H2SO4		N
	128M-0878	ERT-37D	Carbon Dioxide	Groundwater	8/18/2016	12:30	2	40 mL glass w/septum	None		N
	128M-0878	ERT-37D	Nickel + Iron	Groundwater	8/18/2016	12:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0879	ERT-41S	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:00	1	1 L Poly	None		N
-2	128M-0879	ERT-41S	Methane	Groundwater	8/18/2016	14:00	3	40 mL glass w/septum	HCl pH <2		N
	128M-0879	ERT-41S	Sulfide	Groundwater	8/18/2016	14:00	1	500 mL Poly	ZnAcetate+NaOH		N

Special Instructions: 10D, 5A, 4DY

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix CMV.	8/18/16 4:00pm			
	FEDX	8-19-16 730		INITIAL ASESSMENT	
				LABEL VERIFICATION	

4.9°C

4.1
4

MC47400: Chain of Custody
Page 1 of 3

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47400

No: 08/18/16-0041
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0879	ERT-41S	Nitrate	Groundwater	8/18/2016	14:00	1	250 mL Poly	H2SO4		N
-2	128M-0879	ERT-41S	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:00	1	1 L Poly	None		N
	128M-0879	ERT-41S	Total Fe	Groundwater	8/18/2016	14:00	1	250 mL Poly	HNO3 to pH<2		N
	128M-0880	ERT-41D	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:10	1	1 L Poly	None		N
	128M-0880	ERT-41D	Methane	Groundwater	8/18/2016	14:10	3	40 mL glass w/septum	HCl pH <2		N
-3	128M-0880	ERT-41D	Sulfide	Groundwater	8/18/2016	14:10	1	500 mL Poly	ZnAcetate+NaOH		N
	128M-0880	ERT-41D	Nitrate	Groundwater	8/18/2016	14:10	1	250 mL Poly	H2SO4		N
	128M-0880	ERT-41D	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:10	1	1 L Poly	None		N
	128M-0880	ERT-41D	Total Fe	Groundwater	8/18/2016	14:10	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix CNU.	8/18/16 4:00 Pm			
	FEDX	8-19-16 5:30			

4.9°C

MC47400: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: MC47400 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 7838 6378 0215

Cooler Temps (Initial/Adjusted): #1: (4.9/4.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47400: Chain of Custody
Page 3 of 3

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47399

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 23

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Table of Contents

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

Job No: MC47399

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47399-1	08/18/16	11:30		08/19/16	AQ	Ground Water	128M-0875
MC47399-1F	08/18/16	11:30		08/19/16	AQ	Groundwater Filtered	128M-0875
MC47399-2	08/18/16	11:45		08/19/16	AQ	Ground Water	128M-0876
MC47399-2F	08/18/16	11:45		08/19/16	AQ	Groundwater Filtered	128M-0876
MC47399-3	08/18/16	12:10		08/19/16	AQ	Ground Water	128M-0877
MC47399-3F	08/18/16	12:10		08/19/16	AQ	Groundwater Filtered	128M-0877

2

Summary of Hits

Job Number: MC47399
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47399-1	**128M-0875**					
Methane		44.5	10	4.9	ug/l	RSK-175
Carbon Dioxide		4290	1000	840	ug/l	RSK-175
Arsenic		12.9	4.0	2.0	ug/l	SW846 6010C
Barium		127	50	0.57	ug/l	SW846 6010C
Chromium		5.4 B	10	1.1	ug/l	SW846 6010C
Copper		6.5 B	25	4.2	ug/l	SW846 6010C
Iron		7450	100	16	ug/l	SW846 6010C
Lead		3.1 B	5.0	1.1	ug/l	SW846 6010C
Nickel		3.9 B	40	0.35	ug/l	SW846 6010C
Zinc		20.1	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		241	5.0		mg/l	SM21 2320B
Chloride		260	10		mg/l	SM 4500 CL C-11
Specific Conductivity		1690	0.50		umhos/cm	EPA 120.1
Sulfate		253	50		mg/l	ASTM516-90,02
MC47399-1F	**128M-0875**					
Arsenic		2.3 B	4.0	2.0	ug/l	SW846 6010C
Barium		69.1	50	0.57	ug/l	SW846 6010C
Iron		75.3 B	100	16	ug/l	SW846 6010C
Nickel		1.4 B	40	0.35	ug/l	SW846 6010C
Zinc		23.4	20	1.0	ug/l	SW846 6010C
MC47399-2	**128M-0876**					
Carbon Dioxide		1700	100	84	ug/l	RSK-175
Arsenic		4.9	4.0	2.0	ug/l	SW846 6010C
Barium		131	50	0.57	ug/l	SW846 6010C
Chromium		13.0	10	1.1	ug/l	SW846 6010C
Copper		11.5 B	25	4.2	ug/l	SW846 6010C
Iron		4200	100	16	ug/l	SW846 6010C
Lead		11.4	5.0	1.1	ug/l	SW846 6010C
Nickel		7.5 B	40	0.35	ug/l	SW846 6010C
Zinc		32.3	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		309	5.0		mg/l	SM21 2320B
Chloride		150	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.11	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.12	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.015	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		2150	0.50		umhos/cm	EPA 120.1
Sulfate		593	100		mg/l	ASTM516-90,02

Summary of Hits

Job Number: MC47399
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47399-2F	**128M-0876**					
Arsenic		3.0 B	4.0	2.0	ug/l	SW846 6010C
Barium		45.6 B	50	0.57	ug/l	SW846 6010C
Chromium		2.9 B	10	1.1	ug/l	SW846 6010C
Iron		602	100	16	ug/l	SW846 6010C
Nickel		3.9 B	40	0.35	ug/l	SW846 6010C
Zinc		23.8	20	1.0	ug/l	SW846 6010C
MC47399-3	**128M-0877**					
Methane		22.3	10	4.9	ug/l	RSK-175
Carbon Dioxide		2910	100	84	ug/l	RSK-175
Arsenic		2.0 B	4.0	2.0	ug/l	SW846 6010C
Barium		138	50	0.57	ug/l	SW846 6010C
Chromium		2.9 B	10	1.1	ug/l	SW846 6010C
Iron		1080	100	16	ug/l	SW846 6010C
Lead		2.4 B	5.0	1.1	ug/l	SW846 6010C
Nickel		2.0 B	40	0.35	ug/l	SW846 6010C
Zinc		20.7	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		266	5.0		mg/l	SM21 2320B
Chloride		160	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.21	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.27	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.065	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1110	0.50		umhos/cm	EPA 120.1
Sulfate		58.9	10		mg/l	ASTM516-90,02
MC47399-3F	**128M-0877**					
Barium		108	50	0.57	ug/l	SW846 6010C
Iron		21.7 B	100	16	ug/l	SW846 6010C
Nickel		2.2 B	40	0.35	ug/l	SW846 6010C
Zinc		26.5	20	1.0	ug/l	SW846 6010C

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0875		
Lab Sample ID:	MC47399-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24175.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2	BA24174.D	1	08/22/16	DF	n/a	n/a	GBA1653

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	20.0 ul	23 Deg. C
Run #2	37.0 ml	5.0 ml	200 ul	23 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	44.5 [a]	10	4.9	ug/l	
124-38-9	Carbon Dioxide	4290	1000	840	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0875		
Lab Sample ID:	MC47399-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	12.9	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	127	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	5.4 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	6.5 B	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	7450	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	3.1 B	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	3.9 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	20.1	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0875		
Lab Sample ID:	MC47399-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	241	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	260	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 15:27	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 15:27	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	1690	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	253	50	mg/l	10	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0875		
Lab Sample ID:	MC47399-1F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.3 B	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	69.1	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	75.3 B	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.4 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	23.4	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0876		
Lab Sample ID:	MC47399-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24177.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1700	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0876		
Lab Sample ID:	MC47399-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	4.9	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	131	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	13.0	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	11.5 B	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	4200	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	11.4	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	7.5 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	32.3	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0876		
Lab Sample ID:	MC47399-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	309	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	150	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.11	0.11	mg/l	1	08/24/16 15:28	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.12	0.10	mg/l	1	08/24/16 15:28	MC	EPA 353.2
Nitrogen, Nitrite	0.015	0.010	mg/l	1	08/19/16 17:04	EL	SM 21 4500 NO2 B
Specific Conductivity	2150	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	593	100	mg/l	20	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0876		
Lab Sample ID:	MC47399-2F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	3.0 B	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	45.6 B	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	2.9 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	602	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	3.9 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	23.8	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0877		
Lab Sample ID:	MC47399-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24178.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	22.3	10	4.9	ug/l	
124-38-9	Carbon Dioxide	2910	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0877		
Lab Sample ID:	MC47399-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 B	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	138	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	2.9 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	1080	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	2.4 B	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	20.7	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0877		
Lab Sample ID:	MC47399-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	266	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	160	10	mg/l	10	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.21	0.11	mg/l	1	08/24/16 15:43	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.27	0.10	mg/l	1	08/24/16 15:43	MC	EPA 353.2
Nitrogen, Nitrite	0.065	0.010	mg/l	1	08/19/16 17:04	EL	SM 21 4500 NO2 B
Specific Conductivity	1110	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	58.9	10	mg/l	2	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0877		
Lab Sample ID:	MC47399-3F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	108	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	21.7 B	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.2 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	26.5	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26693

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47399

No: 08/18/16-0040
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0875	ERT-35I	Metals (Total)	Groundwater	8/18/2016	11:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0875	ERT-35I	Metals (Dissolved)	Groundwater	8/18/2016	11:30	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0875	ERT-35I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	11:30	1	250 mL Poly	None		N
1F	128M-0875	ERT-35I	Methane	Groundwater	8/18/2016	11:30	2	40 mL glass w/septum	HCl pH <2		N
	128M-0875	ERT-35I	Sulfide	Groundwater	8/18/2016	11:30	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0875	ERT-35I	Nitrate	Groundwater	8/18/2016	11:30	1	250 mL Poly	H2SO4		N
	128M-0875	ERT-35I	Carbon Dioxide	Groundwater	8/18/2016	11:30	2	40 mL glass w/septum	None		N
	128M-0875	ERT-35I	Nickel + Iron	Groundwater	8/18/2016	11:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0876	ERT-35D	Metals (Total)	Groundwater	8/18/2016	11:45	1	250 mL Poly	HNO3 to pH<2		N
2F	128M-0876	ERT-35D	Metals (Dissolved)	Groundwater	8/18/2016	11:45	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0876	ERT-35D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	11:45	1	250 mL Poly	None		N

Special Instructions: 10D, 5A, 4E

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	[signature]	8/18/16 2:15pm		INITIAL ASESSMENT	[signature]
	FEDX	8-19-16 830	[signature]	LABEL VERIFICATION	[signature]

0.2°C

4.1
4

MC47399: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/18/16-0040
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0876	ERT-35D	Methane	Groundwater	8/18/2016	11:45	2	40 mL glass w/septum	HCl pH <2		N
-2F	128M-0876	ERT-35D	Sulfide	Groundwater	8/18/2016	11:45	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0876	ERT-35D	Nitrate	Groundwater	8/18/2016	11:45	1	250 mL Poly	H2SO4		N
	128M-0876	ERT-35D	Carbon Dioxide	Groundwater	8/18/2016	11:45	2	40 mL glass w/septum	None		N
	128M-0876	ERT-35D	Nickel + Iron	Groundwater	8/18/2016	11:45	1	250 mL Poly	HNO3 to pH<2		N
	128M-0877	ERT-37I	Metals (Total)	Groundwater	8/18/2016	12:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0877	ERT-37I	Metals (Dissolved)	Groundwater	8/18/2016	12:10	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0877	ERT-37I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	12:10	1	250 mL Poly	None		N
-3F	128M-0877	ERT-37I	Methane	Groundwater	8/18/2016	12:10	2	40 mL glass w/septum	HCl pH <2		N
	128M-0877	ERT-37I	Sulfide	Groundwater	8/18/2016	12:10	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0877	ERT-37I	Nitrate	Groundwater	8/18/2016	12:10	1	250 mL Poly	H2SO4		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	[signature]	8/18/16 2:15pm			
	FEDX	8-19-16 9:20	[signature]		

0.2°C

4.1
4

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/18/16-0040
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0877	ERT-37I	Carbon Dioxide	Groundwater	8/18/2016	12:10	2	40 mL glass w/septum	None		N
-37I	128M-0877	ERT-37I	Nickel + Iron	Groundwater	8/18/2016	12:10	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature]	8/18/16 2:15pm	Fed Ex		
	Fed Ex	8/19/16	[signature]		

SGS Accutest Sample Receipt Summary

Job Number: MC47399 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8063 3068 0483

Cooler Temps (Initial/Adjusted): #1: (0.2/0.2);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Thermometer ID:	IRGUN1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

4.1

4

MC47399: Chain of Custody

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e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47398

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **18**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

Job No: MC47398

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47398-1	08/18/16	14:15		08/19/16	AQ	Ground Water	128M-0881
MC47398-2	08/18/16	14:40		08/19/16	AQ	Ground Water	128M-0882
MC47398-3	08/18/16	14:55		08/19/16	AQ	Ground Water	128M-0884

Summary of Hits

Job Number: MC47398
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47398-1	**128M-0881**					
Iron		1140	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		293	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		16.8	5.0		mg/l	SM18 4500CO2D
Chloride		12.5	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate + Nitrite		0.11	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.030	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1310	0.50		umhos/cm	EPA 120.1
Sulfate		44.5	10		mg/l	ASTM516-90,02
pH [b]		7.5			su	SM21 4500HB/EPA150.1
MC47398-2	**128M-0882**					
Iron		958	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		248	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		12.2	5.0		mg/l	SM18 4500CO2D
Chloride		73.5	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [c]		0.16	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.17	0.10		mg/l	EPA 353.2
Specific Conductivity		797	0.50		umhos/cm	EPA 120.1
Sulfate		20.4	5.0		mg/l	ASTM516-90,02
pH [b]		7.6			su	SM21 4500HB/EPA150.1
MC47398-3	**128M-0884**					
Iron		1710	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		391	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		26.4	5.0		mg/l	SM18 4500CO2D
Chloride		185	5.0		mg/l	SM 4500 CL C-11
Specific Conductivity		1880	0.50		umhos/cm	EPA 120.1
Sulfate		261	50		mg/l	ASTM516-90,02
pH [b]		7.5			su	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis performed past the required 15 minutes of collection time/holding time.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0881		
Lab Sample ID:	MC47398-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24187.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0881		
Lab Sample ID:	MC47398-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1140	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0881		
Lab Sample ID:	MC47398-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	293	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	16.8	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	12.5	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:06	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	< 0.11	0.11	mg/l	1	08/24/16 15:23	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.11	0.10	mg/l	1	08/24/16 15:23	MC	EPA 353.2
Nitrogen, Nitrite	0.030	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	1310	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	44.5	10	mg/l	2	08/26/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.5		su	1	08/20/16 12:18	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0882		
Lab Sample ID:	MC47398-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24184.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0882		
Lab Sample ID:	MC47398-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	958	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0882		
Lab Sample ID:	MC47398-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	248	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	12.2	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	73.5	1.0	mg/l	1	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	0.16	0.11	mg/l	1	08/24/16 15:24	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.17	0.10	mg/l	1	08/24/16 15:24	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	797	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	20.4	5.0	mg/l	1	08/26/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.6		su	1	08/20/16 12:25	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0884		
Lab Sample ID:	MC47398-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24188.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0884		
Lab Sample ID:	MC47398-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1710	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0884		
Lab Sample ID:	MC47398-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	391	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	26.4	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	185	5.0	mg/l	5	09/02/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:10	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	< 0.11	0.11	mg/l	1	08/24/16 15:26	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 15:26	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	1880	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	261	50	mg/l	10	08/29/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.5		su	1	08/20/16 12:30	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47398

No: 08/18/16-0042
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0881	ERT-41I	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:15	1	1 L Poly	None		N
	128M-0881	ERT-41I	Methane	Groundwater	8/18/2016	14:15	3	40 mL glass w/septum	HCl pH <2		N
	128M-0881	ERT-41I	Sulfide	Groundwater	8/18/2016	14:15	1	500 mL Poly	ZnAcetate+NaOH		N
-1	128M-0881	ERT-41I	Nitrate	Groundwater	8/18/2016	14:15	1	250 mL Poly	H2SO4		N
	128M-0881	ERT-41I	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:15	1	1 L Poly	None		N
	128M-0881	ERT-41I	Total Fe	Groundwater	8/18/2016	14:15	1	250 mL Poly	HNO3 to pH<2		N
	128M-0882	ERT-43S	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:40	1	1 L Poly	None		N
	128M-0882	ERT-43S	Methane	Groundwater	8/18/2016	14:40	3	40 mL glass w/septum	HCl pH <2		N
	128M-0882	ERT-43S	Sulfide	Groundwater	8/18/2016	14:40	1	500 mL Poly	ZnAcetate+NaOH		N
-2	128M-0882	ERT-43S	Nitrate	Groundwater	8/18/2016	14:40	1	250 mL Poly	H2SO4		N
	128M-0882	ERT-43S	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:40	1	1 L Poly	None		N
	128M-0882	ERT-43S	Total Fe	Groundwater	8/18/2016	14:40	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions: 1-2C INITIAL ASESSMENT M LABEL VERIFICATION M SA, 10D, 4E2

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix Env.	8/18/16 16:30	Ford		
	Ford	8/19/16 9:37			

MC47398: Chain of Custody
Page 1 of 3

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47398

No: 08/18/16-0042
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
MCH	~~128M-0883~~	~~ERT-143S~~	~~Alkalinity, Cl-, SO4, Sp Conductance~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~1~~	~~1 L Poly~~	~~None~~		~~N~~
MCH	~~128M-0883~~	~~ERT-143S~~	~~Methane~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~3~~	~~40 mL glass w/septum~~	~~HCl pH <2~~		~~N~~
MCH	~~128M-0883~~	~~ERT-143S~~	~~Sulfide~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~1~~	~~500 mL Poly~~	~~ZnAcetate+NaOH~~		~~N~~
MCH	~~128M-0883~~	~~ERT-143S~~	~~Nitrate~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~1~~	~~250 mL Poly~~	~~H2SO4~~		~~N~~
MCH	~~128M-0883~~	~~ERT-143S~~	~~CO2, Ferrous Fe, pH~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~1~~	~~1 L Poly~~	~~None~~		~~N~~
MCH	~~128M-0883~~	~~ERT-143S~~	~~Total Fe~~	~~Groundwater~~	~~8/18/2016~~	~~14:40~~	~~1~~	~~250 mL Poly~~	~~HNO3 to pH<2~~		~~N~~
	128M-0884	ERT-43I	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:55	1	1 L Poly	None		N
	128M-0884	ERT-43I	Methane	Groundwater	8/18/2016	14:55	3	40 mL glass w/septum	HCl pH <2		N
-3	128M-0884	ERT-43I	Sulfide	Groundwater	8/18/2016	14:55	1	500 mL Poly	ZnAcetate+NaOH		N
	128M-0884	ERT-43I	Nitrate	Groundwater	8/18/2016	14:55	1	250 mL Poly	H2SO4		N
	128M-0884	ERT-43I	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:55	1	1 L Poly	None		N
	128M-0884	ERT-43I	Total Fe	Groundwater	8/18/2016	14:55	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix Env.	8/18/16 16:30			
		8/19/16 9:30			

4.1
4

MC47398: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: MC47398 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 7838 6378 0204

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47398: Chain of Custody
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e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47397

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **14**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47397

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47397-1	08/18/16	15:20		08/19/16	AQ	Ground Water	128M-0885
MC47397-2	08/18/16	15:45		08/19/16	AQ	Ground Water	128M-0886

2

Summary of Hits

Job Number: MC47397
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47397-1	**128M-0885**					
Iron		511	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		205	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		9.8	5.0		mg/l	SM18 4500CO2D
Chloride		15.0	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [b]		0.25	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.30	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.047	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		443	0.50		umhos/cm	EPA 120.1
Sulfate		13.9	5.0		mg/l	ASTM516-90,02
pH [c]		7.6			su	SM21 4500HB/EPA150.1
MC47397-2	**128M-0886**					
Methane		10.7	10	4.9	ug/l	RSK-175
Iron		12700	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		331	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		40.7	5.0		mg/l	SM18 4500CO2D
Chloride		190	20		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [b]		0.44	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.47	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.029	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1150	0.50		umhos/cm	EPA 120.1
Sulfate		31.4	5.0		mg/l	ASTM516-90,02
pH [c]		7.2			su	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(c) Analysis performed past the required 15 minutes of collection time/holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0885		
Lab Sample ID:	MC47397-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24189.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0885		
Lab Sample ID:	MC47397-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	511	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0885		
Lab Sample ID:	MC47397-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	205	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	9.8	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	15.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	0.25	0.11	mg/l	1	08/24/16 15:18	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.30	0.10	mg/l	1	08/24/16 15:18	MC	EPA 353.2
Nitrogen, Nitrite	0.047	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	443	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	13.9	5.0	mg/l	1	08/26/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.6		su	1	08/20/16 12:10	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0886		
Lab Sample ID:	MC47397-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24190.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	10.7	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0886		
Lab Sample ID:	MC47397-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	12700	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0886		
Lab Sample ID:	MC47397-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	331	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	40.7	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	190	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	0.44	0.11	mg/l	1	08/24/16 15:19	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.47	0.10	mg/l	1	08/24/16 15:19	MC	EPA 353.2
Nitrogen, Nitrite	0.029	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	1150	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	31.4	5.0	mg/l	1	08/26/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.2		su	1	08/20/16 12:14	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/18/16-0043
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

MC47397

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0885	ERT-44S	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	15:20	2	1 L Poly	None		N
	128M-0885	ERT-44S	Methane	Groundwater	8/18/2016	15:20	6	40 mL glass w/septum	HCl pH <2		N
-1	128M-0885	ERT-44S	Sulfide	Groundwater	8/18/2016	15:20	2	500 mL Poly	ZnAcetate+NaOH		N
	128M-0885	ERT-44S	Nitrate	Groundwater	8/18/2016	15:20	2	250 mL Poly	H2SO4		N
	128M-0885	ERT-44S	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	15:20	2	1 L Poly	None		N
	128M-0885	ERT-44S	Total Fe	Groundwater	8/18/2016	15:20	2	250 mL Poly	HNO3 to pH<2		N
	128M-0886	ERT-36S	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	15:45	1	1 L Poly	None		N
	128M-0886	ERT-36S	Methane	Groundwater	8/18/2016	15:45	3	40 mL glass w/septum	HCl pH <2		N
	128M-0886	ERT-36S	Sulfide	Groundwater	8/18/2016	15:45	1	500 mL Poly	ZnAcetate+NaOH		N
-2	128M-0886	ERT-36S	Nitrate	Groundwater	8/18/2016	15:45	1	250 mL Poly	H2SO4		N
	128M-0886	ERT-36S	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	15:45	1	1 L Poly	None		N
	128M-0886	ERT-36S	Total Fe	Groundwater	8/18/2016	15:45	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:
1-3c SA, 10D, 4E2

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix ENV.	8/18/16 16:30	Fed Ex		
	Fed Ex	8/19/16 9:30			
			INITIAL ASESSMENT		
			LABEL VERIFICATION		

MC47397: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC47397 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8063 3068 0483

Cooler Temps (Initial/Adjusted): #1: (1.3/1.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47397: Chain of Custody
Page 2 of 2

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47396

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 23

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47396

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47396-1	08/18/16	10:20		08/19/16	AQ	Ground Water	128M-0871
MC47396-1F	08/18/16	10:20		08/19/16	AQ	Groundwater Filtered	128M-0871
MC47396-2	08/18/16	10:50		08/19/16	AQ	Ground Water	128M-0872
MC47396-2F	08/18/16	10:50		08/19/16	AQ	Groundwater Filtered	128M-0872
MC47396-3	08/18/16	11:05		08/19/16	AQ	Ground Water	128M-0874
MC47396-3F	08/18/16	11:05		08/19/16	AQ	Groundwater Filtered	128M-0874

2

Summary of Hits

Job Number: MC47396
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47396-1	**128M-0871**					
Methane		6.8 J	10	4.9	ug/l	RSK-175
Carbon Dioxide		2340	100	84	ug/l	RSK-175
Arsenic		11.1	4.0	2.0	ug/l	SW846 6010C
Barium		91.8	50	0.57	ug/l	SW846 6010C
Chromium		3.7 B	10	1.1	ug/l	SW846 6010C
Iron		3550	100	16	ug/l	SW846 6010C
Lead		3.4 B	5.0	1.1	ug/l	SW846 6010C
Nickel		2.8 B	40	0.35	ug/l	SW846 6010C
Zinc		16.9 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		320	5.0		mg/l	SM21 2320B
Chloride		590	20		mg/l	SM 4500 CL C-11
Iron, Ferrous [a]		0.13	0.10		mg/l	SM21 3500FE B
Specific Conductivity		2710	0.50		umhos/cm	EPA 120.1
Sulfate		195	25		mg/l	ASTM516-90,02
MC47396-1F	**128M-0871**					
Arsenic		7.5	4.0	2.0	ug/l	SW846 6010C
Barium		73.5	50	0.57	ug/l	SW846 6010C
Chromium		1.1 B	10	1.1	ug/l	SW846 6010C
Iron		1560	100	16	ug/l	SW846 6010C
Lead		1.1 B	5.0	1.1	ug/l	SW846 6010C
Nickel		3.2 B	40	0.35	ug/l	SW846 6010C
Zinc		23.7	20	1.0	ug/l	SW846 6010C
MC47396-2	**128M-0872**					
Carbon Dioxide		1240	100	84	ug/l	RSK-175
Arsenic		7.8	4.0	2.0	ug/l	SW846 6010C
Barium		117	50	0.57	ug/l	SW846 6010C
Chromium		10.9	10	1.1	ug/l	SW846 6010C
Iron		2370	100	16	ug/l	SW846 6010C
Lead		2.1 B	5.0	1.1	ug/l	SW846 6010C
Nickel		5.4 B	40	0.35	ug/l	SW846 6010C
Zinc		13.8 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		195	5.0		mg/l	SM21 2320B
Chloride		1460	20		mg/l	SM 4500 CL C-11
Iron, Ferrous [a]		0.11	0.10		mg/l	SM21 3500FE B
Nitrogen, Nitrate [b]		0.12	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.12	0.10		mg/l	EPA 353.2
Specific Conductivity		4880	0.50		umhos/cm	EPA 120.1
Sulfate		136	25		mg/l	ASTM516-90,02

Summary of Hits

Job Number: MC47396
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47396-2F	**128M-0872**					
Arsenic		3.7 B	4.0	2.0	ug/l	SW846 6010C
Barium		90.1	50	0.57	ug/l	SW846 6010C
Iron		449	100	16	ug/l	SW846 6010C
Nickel		2.5 B	40	0.35	ug/l	SW846 6010C
Zinc		28.7	20	1.0	ug/l	SW846 6010C
MC47396-3	**128M-0874**					
Carbon Dioxide		2040	100	84	ug/l	RSK-175
Arsenic		8.4	4.0	2.0	ug/l	SW846 6010C
Barium		68.8	50	0.57	ug/l	SW846 6010C
Chromium		5.8 B	10	1.1	ug/l	SW846 6010C
Copper		9.1 B	25	4.2	ug/l	SW846 6010C
Iron		4480	100	16	ug/l	SW846 6010C
Lead		6.6	5.0	1.1	ug/l	SW846 6010C
Nickel		4.8 B	40	0.35	ug/l	SW846 6010C
Zinc		27.7	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		264	5.0		mg/l	SM21 2320B
Chloride		610	20		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [b]		0.15	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.19	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.041	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		2450	0.50		umhos/cm	EPA 120.1
Sulfate		119	25		mg/l	ASTM516-90,02
MC47396-3F	**128M-0874**					
Arsenic		8.0	4.0	2.0	ug/l	SW846 6010C
Barium		41.7 B	50	0.57	ug/l	SW846 6010C
Chromium		1.8 B	10	1.1	ug/l	SW846 6010C
Iron		2110	100	16	ug/l	SW846 6010C
Nickel		4.1 B	40	0.35	ug/l	SW846 6010C
Zinc		38.0	20	1.0	ug/l	SW846 6010C

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0871		
Lab Sample ID:	MC47396-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24164.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.8	10	4.9	ug/l	J
124-38-9	Carbon Dioxide	2340	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0871		
Lab Sample ID:	MC47396-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	11.1	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	91.8	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	3.7 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	3550	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	3.4 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	2.8 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	16.9 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0871		
Lab Sample ID:	MC47396-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	320	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	590	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	0.13	0.10	mg/l	1	08/19/16 20:06	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 15:14	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 15:14	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	2710	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	195	25	mg/l	5	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0871		
Lab Sample ID:	MC47396-1F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	7.5	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	73.5	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	1560	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.1 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	3.2 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	23.7	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0872		
Lab Sample ID:	MC47396-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24166.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1240	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0872		
Lab Sample ID:	MC47396-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	7.8	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	117	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	10.9	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	2370	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	2.1 B	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	5.4 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	13.8 B	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0872		
Lab Sample ID:	MC47396-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	195	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	1460	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	0.11	0.10	mg/l	1	08/19/16 20:06	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.12	0.11	mg/l	1	08/24/16 15:16	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.12	0.10	mg/l	1	08/24/16 15:16	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	4880	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	136	25	mg/l	5	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0872		
Lab Sample ID:	MC47396-2F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	3.7 B	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	90.1	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	449	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.5 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	28.7	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0874		
Lab Sample ID:	MC47396-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24167.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	2040	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0874		
Lab Sample ID:	MC47396-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	8.4	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	68.8	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	5.8 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	9.1 B	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	4480	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	6.6	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	4.8 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	27.7	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0874		
Lab Sample ID:	MC47396-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	264	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	610	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:06	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.15	0.11	mg/l	1	08/24/16 15:17	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.19	0.10	mg/l	1	08/24/16 15:17	MC	EPA 353.2
Nitrogen, Nitrite	0.041	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	2450	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	119	25	mg/l	5	08/26/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0874		
Lab Sample ID:	MC47396-3F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	8.0	4.0	2.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	41.7 B	50	0.57	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.8 B	10	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	2110	100	16	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	4.1 B	40	0.35	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	38.0	20	1.0	ug/l	1	08/25/16	08/29/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19414
(2) Instrument QC Batch: MA19419
(3) Prep QC Batch: MP26684
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47396

No: 08/18/16-0039
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0871	ERT-34I	Metals (Total)	Groundwater	8/18/2016	10:20	1	250 mL Poly	HNO3 to pH<2		N
	128M-0871	ERT-34I	Metals (Dissolved)	Groundwater	8/18/2016	10:20	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0871	ERT-34I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	10:20	1	250 mL Poly	None		N
1-F	128M-0871	ERT-34I	Methane	Groundwater	8/18/2016	10:20	2	40 mL glass w/septum	HCl pH <2		N
	128M-0871	ERT-34I	Sulfide	Groundwater	8/18/2016	10:20	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0871	ERT-34I	Nitrate	Groundwater	8/18/2016	10:20	1	250 mL Poly	H2SO4		N
	128M-0871	ERT-34I	Carbon Dioxide	Groundwater	8/18/2016	10:20	2	40 mL glass w/septum	None		N
	128M-0871	ERT-34I	Nickel + Iron	Groundwater	8/18/2016	10:20	1	250 mL Poly	HNO3 to pH<2		N
	128M-0872	ERT-33D	Metals (Total)	Groundwater	8/18/2016	10:50	1	250 mL Poly	HNO3 to pH<2		N
-4F	128M-0872	ERT-33D	Metals (Dissolved)	Groundwater	8/18/2016	10:50	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0872	ERT-33D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	10:50	1	250 mL Poly	None		N

Special Instructions: 2-1C SA, 10D, YE2

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature]	8/18/16 2:15P	[signature]		
~~Sealed~~	[signature]	8/19/16 9:30	[signature]		
				INITIAL ASSESSMENT	
				LABEL VERIFICATION	

4.1
4

MC47396: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/18/16-0039
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0872	ERT-33D	Methane	Groundwater	8/18/2016	10:50	2	40 mL glass w/septum	HCl pH <2		N
	128M-0872	ERT-33D	Sulfide	Groundwater	8/18/2016	10:50	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0872	ERT-33D	Nitrate	Groundwater	8/18/2016	10:50	1	250 mL Poly	H2SO4		N
2F	128M-0872	ERT-33D	Carbon Dioxide	Groundwater	8/18/2016	10:50	2	40 mL glass w/septum	None		N
	128M-0872	ERT-33D	Nickel + Iron	Groundwater	8/18/2016	10:50	1	250 mL Poly	HNO3 to pH<2		N
	128M-0874	ERT-33I	Metals (Total)	Groundwater	8/18/2016	11:05	1	250 mL Poly	HNO3 to pH<2		N
	128M-0874	ERT-33I	Metals (Dissolved)	Groundwater	8/18/2016	11:05	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0874	ERT-33I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	11:05	1	250 mL Poly	None		N
3F	128M-0874	ERT-33I	Methane	Groundwater	8/18/2016	11:05	2	40 mL glass w/septum	HCl pH <2		N
	128M-0874	ERT-33I	Sulfide	Groundwater	8/18/2016	11:05	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0874	ERT-33I	Nitrate	Groundwater	8/18/2016	11:05	1	250 mL Poly	H2SO4		N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature]	8/18/16 2:15P	[signature]		
Sampled	[signature]	8/19/16 9:20	[signature]		

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/18/16-0039
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0874	ERT-33I	Carbon Dioxide	Groundwater	8/18/2016	11:05	2	40 mL glass w/septum	None		N
3	128M-0874	ERT-33I	Nickel + Iron	Groundwater	8/18/2016	11:05	1	250 mL Poly	HNO3 to pH<2		N

MCH

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[illegible]	8/18/16 2:15P	[illegible]		
Samples (MCH)	[illegible]	8/19/16 9:2[illegible]	[illegible]		

SGS Accutest Sample Receipt Summary

Job Number: MC47396 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 7838 6378 0226

Cooler Temps (Initial/Adjusted): #1: (2.1/2.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47396: Chain of Custody
Page 4 of 4

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47391

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **11**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47391

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47391-1	08/18/16	14:40		08/19/16	AQ	Ground Water	128M-0883

Summary of Hits

Job Number: MC47391
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47391-1	**128M-0883**					
Iron		1110	100	16	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		261	5.0		mg/l	SM21 2320B
Carbon Dioxide [a]		11.4	5.0		mg/l	SM18 4500CO2D
Chloride		71.0	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [b]		0.18	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.18	0.10		mg/l	EPA 353.2
Specific Conductivity		717	0.50		umhos/cm	EPA 120.1
Sulfate		19.7	5.0		mg/l	ASTM516-90,02
pH [c]		7.7			su	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(c) Analysis performed past the required 15 minutes of collection time/holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0883		
Lab Sample ID:	MC47391-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24191.D	1	08/23/16	DF	n/a	n/a	GBA1654
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0883		
Lab Sample ID:	MC47391-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1110	100	16	ug/l	1	08/25/16	08/26/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19413
(2) Prep QC Batch: MP26685

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0883		
Lab Sample ID:	MC47391-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	261	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Carbon Dioxide [a]	11.4	5.0	mg/l	1	08/20/16	CF	SM18 4500CO2D
Chloride	71.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [b]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [c]	0.18	0.11	mg/l	1	08/24/16 14:56	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.18	0.10	mg/l	1	08/24/16 14:56	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:16	EL	SM 21 4500 NO2 B
Specific Conductivity	717	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	19.7	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F
pH [d]	7.7		su	1	08/20/16 12:06	CF	SM21 4500HB/EPA150.1

(a) Field analysis required. Analysis perfomed in the laboratory.
(b) Analysis is field recommended as per method.
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47391

No: 08/18/16-0044
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0883	ERT-143S	Alkalinity, Cl-, SO4, Sp Conductance	Groundwater	8/18/2016	14:40	1	1 L Poly	None		N
	128M-0883	ERT-143S	Methane	Groundwater	8/18/2016	14:40	3	40 mL glass w/septum	HCl pH <2		N
	128M-0883	ERT-143S	Sulfide	Groundwater	8/18/2016	14:40	1	500 mL Poly	ZnAcetate+NaOH		N
	128M-0883	ERT-143S	Nitrate	Groundwater	8/18/2016	14:40	1	250 mL Poly	H2SO4		N
	128M-0883	ERT-143S	CO2, Ferrous Fe, pH	Groundwater	8/18/2016	14:40	1	1 L Poly	None		N
	128M-0883	ERT-143S	Total Fe	Groundwater	8/18/2016	14:40	1	250 mL Poly	HNO3 to pH<2		N
	MCH										

Special Instructions: 1-3 C 10D, 5A, 4E1

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Matrix ENV.	8/18/16 16:50	FED EX		
	FED EX			8/19/16 9:30	

INITIAL ASESSMENT

LABEL VERIFICATION

4.1

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MC47391: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC47391 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 7838 6378 0237

Cooler Temps (Initial/Adjusted): #1: (1.3/1.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

4.1

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MC47391: Chain of Custody

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e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47388

Sampling Date: 08/18/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 23

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47388

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47388-1	08/18/16	08:50		08/19/16	AQ	Ground Water	128M-0866
MC47388-1F	08/18/16	08:50		08/19/16	AQ	Groundwater Filtered	128M-0866
MC47388-2	08/18/16	09:20		08/19/16	AQ	Ground Water	128M-0867
MC47388-2F	08/18/16	09:20		08/19/16	AQ	Groundwater Filtered	128M-0867
MC47388-3	08/18/16	10:00		08/19/16	AQ	Ground Water	128M-0870
MC47388-3F	08/18/16	10:00		08/19/16	AQ	Groundwater Filtered	128M-0870

Summary of Hits

Job Number: MC47388
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47388-1	**128M-0866**					
Methane		11.3	10	4.9	ug/l	RSK-175
Carbon Dioxide		6250	1000	840	ug/l	RSK-175
Barium		45.7 B	50	0.57	ug/l	SW846 6010C
Chromium		3.5 B	10	1.1	ug/l	SW846 6010C
Iron		2710	100	16	ug/l	SW846 6010C
Lead [a]		15.4	10	2.2	ug/l	SW846 6010C
Nickel [a]		4.2 B	80	0.70	ug/l	SW846 6010C
Selenium		4.5 B	10	3.4	ug/l	SW846 6010C
Zinc		18.9 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		308	5.0		mg/l	SM21 2320B
Chloride		1640	20		mg/l	SM 4500 CL C-11
Specific Conductivity		9800	0.50		umhos/cm	EPA 120.1
Sulfate		3420	500		mg/l	ASTM516-90,02
MC47388-1F	**128M-0866**					
Barium		16.4 B	50	0.57	ug/l	SW846 6010C
Iron		1580	100	16	ug/l	SW846 6010C
Lead		11.9	5.0	1.1	ug/l	SW846 6010C
Nickel		4.8 B	40	0.35	ug/l	SW846 6010C
Selenium		4.0 B	10	3.4	ug/l	SW846 6010C
Zinc		90.4	20	1.0	ug/l	SW846 6010C
MC47388-2	**128M-0867**					
Carbon Dioxide		5570	1000	840	ug/l	RSK-175
Arsenic		11.0	4.0	2.0	ug/l	SW846 6010C
Barium		88.4	50	0.57	ug/l	SW846 6010C
Copper		4.4 B	25	4.2	ug/l	SW846 6010C
Iron		1640	100	16	ug/l	SW846 6010C
Lead		2.4 B	5.0	1.1	ug/l	SW846 6010C
Nickel		2.2 B	40	0.35	ug/l	SW846 6010C
Zinc		15.1 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		412	5.0		mg/l	SM21 2320B
Chloride		190	20		mg/l	SM 4500 CL C-11
Specific Conductivity		2220	0.50		umhos/cm	EPA 120.1
Sulfate		521	100		mg/l	ASTM516-90,02
MC47388-2F	**128M-0867**					
Arsenic		7.2	4.0	2.0	ug/l	SW846 6010C
Barium		84.9	50	0.57	ug/l	SW846 6010C
Copper		4.9 B	25	4.2	ug/l	SW846 6010C

Summary of Hits

Job Number: MC47388
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/18/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		1100	100	16	ug/l	SW846 6010C
Lead		1.5 B	5.0	1.1	ug/l	SW846 6010C
Nickel		3.6 B	40	0.35	ug/l	SW846 6010C
Zinc		34.5	20	1.0	ug/l	SW846 6010C
MC47388-3	**128M-0870**					
Carbon Dioxide		1810	100	84	ug/l	RSK-175
Antimony		1.9 B	6.0	1.2	ug/l	SW846 6010C
Arsenic		5.2	4.0	2.0	ug/l	SW846 6010C
Barium		167	50	0.57	ug/l	SW846 6010C
Chromium		2.5 B	10	1.1	ug/l	SW846 6010C
Iron		2340	100	16	ug/l	SW846 6010C
Lead		4.5 B	5.0	1.1	ug/l	SW846 6010C
Nickel		1.7 B	40	0.35	ug/l	SW846 6010C
Zinc		19.5 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		237	5.0		mg/l	SM21 2320B
Chloride		510	20		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [b]		0.11	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.12	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.011	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		2080	0.50		umhos/cm	EPA 120.1
Sulfate		59.4	10		mg/l	ASTM516-90,02
MC47388-3F	**128M-0870**					
Barium		142	50	0.57	ug/l	SW846 6010C
Iron		260	100	16	ug/l	SW846 6010C
Nickel		2.4 B	40	0.35	ug/l	SW846 6010C
Zinc		29.6	20	1.0	ug/l	SW846 6010C

(a) Elevated RL due to dilution required for matrix interference.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0866		
Lab Sample ID:	MC47388-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24169.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2	BA24168.D	1	08/22/16	DF	n/a	n/a	GBA1653

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	20.0 ul	23 Deg. C
Run #2	37.0 ml	5.0 ml	200 ul	23 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	11.3 [a]	10	4.9	ug/l	
124-38-9	Carbon Dioxide	6250	1000	840	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0866		
Lab Sample ID:	MC47388-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	45.7 B	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	3.5 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	2710	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	15.4	10	2.2	ug/l	2	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	4.2 B	80	0.70	ug/l	2	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	4.5 B	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	3.6 U	10	3.6	ug/l	2	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	18.9 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0866		
Lab Sample ID:	MC47388-1	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	308	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	1640	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:50	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:50	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:16	EL	SM 21 4500 NO2 B
Specific Conductivity	9800	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	3420	500	mg/l	100	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0866		
Lab Sample ID:	MC47388-1F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	16.4 B	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	1580	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	11.9	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	4.8 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	4.0 B	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	90.4	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0867		
Lab Sample ID:	MC47388-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24171.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2	BA24170.D	1	08/22/16	DF	n/a	n/a	GBA1653

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	20.0 ul	23 Deg. C
Run #2	37.0 ml	5.0 ml	200 ul	23 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND [a]	10	4.9	ug/l	
124-38-9	Carbon Dioxide	5570	1000	840	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0867		
Lab Sample ID:	MC47388-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	11.0	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	88.4	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.4 B	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	1640	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	2.4 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	2.2 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	15.1 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0867		
Lab Sample ID:	MC47388-2	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	412	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	190	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:51	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:51	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	2220	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	521	100	mg/l	20	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0867		
Lab Sample ID:	MC47388-2F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	7.2	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	84.9	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.9 B	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	1100	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.5 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	3.6 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	34.5	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0870		
Lab Sample ID:	MC47388-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24172.D	1	08/22/16	DF	n/a	n/a	GBA1653
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1810	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0870		
Lab Sample ID:	MC47388-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.9 B	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	5.2	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	167	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	2.5 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	2340	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	4.5 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	1.7 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	19.5 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0870		
Lab Sample ID:	MC47388-3	**Date Sampled:**	08/18/16
Matrix:	AQ - Ground Water	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	237	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	510	20	mg/l	20	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/19/16 20:00	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.11	0.11	mg/l	1	08/24/16 14:55	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.12	0.10	mg/l	1	08/24/16 14:55	MC	EPA 353.2
Nitrogen, Nitrite	0.011	0.010	mg/l	1	08/19/16 16:29	EL	SM 21 4500 NO2 B
Specific Conductivity	2080	0.50	umhos/cm	1	08/23/16	EL	EPA 120.1
Sulfate	59.4	10	mg/l	2	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0870		
Lab Sample ID:	MC47388-3F	**Date Sampled:**	08/18/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	142	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	260	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	2.4 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	29.6	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47388

No: 08/18/16-0038
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0866	MW-04D	Metals (Total)	Groundwater	8/18/2016	08:50	1	250 mL Poly	HNO3 to pH<2		N
	128M-0866	MW-04D	Metals (Dissolved)	Groundwater	8/18/2016	08:50	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0866	MW-04D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	08:50	1	250 mL Poly	None		N
	128M-0866	MW-04D	Methane	Groundwater	8/18/2016	08:50	2	40 mL glass w/septum	HCl pH <2		N
	128M-0866	MW-04D	Sulfide	Groundwater	8/18/2016	08:50	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0866	MW-04D	Nitrate	Groundwater	8/18/2016	08:50	1	250 mL Poly	H2SO4		N
	128M-0866	MW-04D	Carbon Dioxide	Groundwater	8/18/2016	08:50	2	40 mL glass w/septum	None		N
	128M-0866	MW-04D	Nickel + Iron	Groundwater	8/18/2016	08:50	1	250 mL Poly	HNO3 to pH<2		N
	128M-0867	ERT-40I	Metals (Total)	Groundwater	8/18/2016	09:20	1	250 mL Poly	HNO3 to pH<2		N
	128M-0867	ERT-40I	Metals (Dissolved)	Groundwater	8/18/2016	09:20	1	250 mL Poly	Filter, HNO3 to pH<2		N

Special Instructions:

INITIAL ASESSMENT

LABEL VERIFICATION 10D, 5A, YEI, 5A

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Rec. 2.5C

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All/Analysis	MATRIX	8/18/16 19:00	Fone		
	Fone			8/19/16 9:30	

MC47388: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47388

No: 08/18/16-0038
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0867	ERT-40I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	09:20	1	250 mL Poly	None		N
	128M-0867	ERT-40I	Methane	Groundwater	8/18/2016	09:20	2	40 mL glass w/septum	HCl pH <2		N
-2P	128M-0867	ERT-40I	Sulfide	Groundwater	8/18/2016	09:20	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0867	ERT-40I	Nitrate	Groundwater	8/18/2016	09:20	1	250 mL Poly	H2SO4		N
	128M-0867	ERT-40I	Carbon Dioxide	Groundwater	8/18/2016	09:20	2	40 mL glass w/septum	None		N
	128M-0867	ERT-40I	Nickel + Iron	Groundwater	8/18/2016	09:20	1	250 mL Poly	HNO3 to pH<2		N
	128M-0870	ERT-34D	Metals (Total)	Groundwater	8/18/2016	10:00	1	250 mL Poly	HNO3 to pH<2		N
	128M-0870	ERT-34D	Metals (Dissolved)	Groundwater	8/18/2016	10:00	1	250 mL Poly	Filter, HNO3 to pH<2		N
-3P	128M-0870	ERT-34D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/18/2016	10:00	1	250 mL Poly	None		N
	128M-0870	ERT-34D	Methane	Groundwater	8/18/2016	10:00	2	40 mL glass w/septum	HCl pH <2		N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analysis	MATRIX	8/18/16 1920	Fed Ex		
	Fed Ex			8/19/16 9:30	

MC47388: Chain of Custody
Page 2 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/18/2016
CarrierName: FedEx
AirbillNo: 8063 3068 0483

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47388

No: 08/18/16-0038
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0870	ERT-34D	Sulfide	Groundwater	8/18/2016	10:00	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0870	ERT-34D	Nitrate	Groundwater	8/18/2016	10:00	1	250 mL Poly	H2SO4		N
-3F	128M-0870	ERT-34D	Carbon Dioxide	Groundwater	8/18/2016	10:00	2	40 mL glass w/septum	None		N
	128M-0870	ERT-34D	Nickel + Iron	Groundwater	8/18/2016	10:00	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analysis	MATRIX	8/18/16 19:00			
	Fed Ex			8/19/16 9:30	

MC47388: Chain of Custody
Page 3 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC47388 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/19/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8063 3068 0483

Cooler Temps (Initial/Adjusted): #1: (2.5/2.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47388: Chain of Custody
Page 4 of 4

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47361

Sampling Date: 08/17/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 23

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Table of Contents

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47361

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47361-1	08/17/16	12:10		08/18/16	AQ	Ground Water	128M-0862
MC47361-1F	08/17/16	12:10		08/18/16	AQ	Groundwater Filtered	128M-0862
MC47361-2	08/17/16	12:30		08/18/16	AQ	Ground Water	128M-0863
MC47361-2F	08/17/16	12:30		08/18/16	AQ	Groundwater Filtered	128M-0863
MC47361-3	08/17/16	13:50		08/18/16	AQ	Ground Water	128M-0864
MC47361-3F	08/17/16	13:50		08/18/16	AQ	Groundwater Filtered	128M-0864

2

Summary of Hits

Job Number: MC47361
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47361-1	**128M-0862**					
Methane		75.3	10	4.9	ug/l	RSK-175
Carbon Dioxide		4530	1000	840	ug/l	RSK-175
Arsenic		3.8 B	4.0	2.0	ug/l	SW846 6010C
Barium		119	50	0.57	ug/l	SW846 6010C
Chromium		1.5 B	10	1.1	ug/l	SW846 6010C
Copper		5.3 B	25	4.2	ug/l	SW846 6010C
Iron		11600	100	16	ug/l	SW846 6010C
Lead		1.8 B	5.0	1.1	ug/l	SW846 6010C
Nickel		1.9 B	40	0.35	ug/l	SW846 6010C
Zinc		14.4 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		271	5.0		mg/l	SM21 2320B
Chloride		150	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate + Nitrite		0.11	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.093	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1070	0.50		umhos/cm	EPA 120.1
Sulfate		64.7	10		mg/l	ASTM516-90,02
MC47361-1F	**128M-0862**					
Barium		127	50	0.57	ug/l	SW846 6010C
Chromium		1.1 B	10	1.1	ug/l	SW846 6010C
Copper		4.4 B	25	4.2	ug/l	SW846 6010C
Iron		532	100	16	ug/l	SW846 6010C
Nickel		1.4 B	40	0.35	ug/l	SW846 6010C
Zinc		16.1 B	20	1.0	ug/l	SW846 6010C
MC47361-2	**128M-0863**					
Carbon Dioxide		1390	100	84	ug/l	RSK-175
Arsenic		2.4 B	4.0	2.0	ug/l	SW846 6010C
Barium		131	50	0.57	ug/l	SW846 6010C
Iron		245	100	16	ug/l	SW846 6010C
Lead		1.4 B	5.0	1.1	ug/l	SW846 6010C
Nickel		1.0 B	40	0.35	ug/l	SW846 6010C
Zinc		15.3 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		256	5.0		mg/l	SM21 2320B
Chloride		165	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.13	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.16	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.031	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		1040	0.50		umhos/cm	EPA 120.1
Sulfate		25.8	5.0		mg/l	ASTM516-90,02

Summary of Hits

Job Number: MC47361
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47361-2F	**128M-0863**					
Arsenic		2.0 B	4.0	2.0	ug/l	SW846 6010C
Barium		117	50	0.57	ug/l	SW846 6010C
Iron		21.2 B	100	16	ug/l	SW846 6010C
Nickel		1.8 B	40	0.35	ug/l	SW846 6010C
Zinc		25.2	20	1.0	ug/l	SW846 6010C
MC47361-3	**128M-0864**					
Methane		48.6	10	4.9	ug/l	RSK-175
Carbon Dioxide		1860	100	84	ug/l	RSK-175
Barium		97.5	50	0.57	ug/l	SW846 6010C
Chromium		1.1 B	10	1.1	ug/l	SW846 6010C
Iron		430	100	16	ug/l	SW846 6010C
Zinc		13.8 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		229	5.0		mg/l	SM21 2320B
Chloride		36.5	1.0		mg/l	SM 4500 CL C-11
Specific Conductivity		549	0.50		umhos/cm	EPA 120.1
Sulfate		13.6	5.0		mg/l	ASTM516-90,02
MC47361-3F	**128M-0864**					
Barium		107	50	0.57	ug/l	SW846 6010C
Zinc		16.8 B	20	1.0	ug/l	SW846 6010C

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0862		
Lab Sample ID:	MC47361-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24156.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2	BA24155.D	1	08/19/16	DF	n/a	n/a	GBA1652

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	20.0 ul	23 Deg. C
Run #2	37.0 ml	5.0 ml	200 ul	23 Deg. C

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	75.3 [a]	10	4.9	ug/l	
124-38-9	Carbon Dioxide	4530	1000	840	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0862		
Lab Sample ID:	MC47361-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	3.8 B	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	119	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.5 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	5.3 B	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	11600	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.8 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.9 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	14.4 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0862		
Lab Sample ID:	MC47361-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	271	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	150	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:55	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:30	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.11	0.10	mg/l	1	08/24/16 14:30	MC	EPA 353.2
Nitrogen, Nitrite	0.093	0.010	mg/l	1	08/18/16 19:11	CF	SM 21 4500 NO2 B
Specific Conductivity	1070	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	64.7	10	mg/l	2	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0862		
Lab Sample ID:	MC47361-1F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	127	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.4 B	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	532	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.4 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	16.1 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0863		
Lab Sample ID:	MC47361-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24157.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1390	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0863		
Lab Sample ID:	MC47361-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.4 B	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	131	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	245	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.4 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	1.0 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	15.3 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0863		
Lab Sample ID:	MC47361-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	256	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	165	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:55	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.13	0.11	mg/l	1	08/24/16 14:31	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.16	0.10	mg/l	1	08/24/16 14:31	MC	EPA 353.2
Nitrogen, Nitrite	0.031	0.010	mg/l	1	08/18/16 19:11	CF	SM 21 4500 NO2 B
Specific Conductivity	1040	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	25.8	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0863		
Lab Sample ID:	MC47361-2F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 B	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	117	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	21.2 B	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	1.8 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	25.2	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0864		
Lab Sample ID:	MC47361-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24158.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	48.6	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1860	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0864		
Lab Sample ID:	MC47361-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	97.5	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	430	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	0.35 U	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	13.8 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0864		
Lab Sample ID:	MC47361-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	229	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	36.5	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:55	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:47	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:47	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:11	CF	SM 21 4500 NO2 B
Specific Conductivity	549	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	13.6	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0864		
Lab Sample ID:	MC47361-3F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Barium	107	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Iron	16 U	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/25/16	08/26/16	EAL	SW846 7470A [2]	SW846 7470A [4]
Nickel	0.35 U	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]
Zinc	16.8 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19408
(2) Instrument QC Batch: MA19414
(3) Prep QC Batch: MP26678
(4) Prep QC Batch: MP26692

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47361

No: 08/17/16-0032
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0862	ERT-37S	Metals (Total)	Groundwater	8/17/2016	12:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0862	ERT-37S	Metals (Dissolved)	Groundwater	8/17/2016	12:10	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0862	ERT-37S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	12:10	1	250 mL Poly	None		N
-1P	128M-0862	ERT-37S	Methane	Groundwater	8/17/2016	12:10	2	40 mL glass w/septum	HCl pH <2		N
	128M-0862	ERT-37S	Sulfide	Groundwater	8/17/2016	12:10	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0862	ERT-37S	Nitrate	Groundwater	8/17/2016	12:10	1	250 mL Poly	H2SO4		N
	128M-0862	ERT-37S	Carbon Dioxide	Groundwater	8/17/2016	12:10	2	40 mL glass w/septum	None		N
	128M-0862	ERT-37S	Nickel + Iron	Groundwater	8/17/2016	12:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0863	ERT-37I	Metals (Total)	Groundwater	8/17/2016	12:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0863	ERT-37I	Metals (Dissolved)	Groundwater	8/17/2016	12:30	1	250 mL Poly	Filter, HNO3 to pH<2		N
-2P	128M-0863	ERT-37I	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	12:30	1	250 mL Poly	None		N

Special Instructions: 10A, 6D, 4D2

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All SAMPLES All ANALYSIS	Nicholas S Minute MATRIX ENV. TECH. Inc	8/17/16 1630	Fed Ex		
	Fed Ex	8/18/16 0930		INITIAL ASESSMENT	
				LABEL VERIFICATION	

1.6 C

MC47361: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47361

No: 08/17/16-0032
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0863	ERT-37I	Methane	Groundwater	8/17/2016	12:30	2	40 mL glass w/septum	HCl pH <2		N
	128M-0863	ERT-37I	Sulfide	Groundwater	8/17/2016	12:30	2	250 mL Poly	ZnAcetate+NaOH		N
-2P	128M-0863	ERT-37I	Nitrate	Groundwater	8/17/2016	12:30	1	250 mL Poly	H2SO4		N
	128M-0863	ERT-37I	Carbon Dioxide	Groundwater	8/17/2016	12:30	2	40 mL glass w/septum	None		N
	128M-0863	ERT-37I	Nickel + Iron	Groundwater	8/17/2016	12:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0864	ERT-42S	Metals (Total)	Groundwater	8/17/2016	13:50	1	250 mL Poly	HNO3 to pH<2		N
	128M-0864	ERT-42S	Metals (Dissolved)	Groundwater	8/17/2016	13:50	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0864	ERT-42S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	13:50	1	250 mL Poly	None		N
-3P	128M-0864	ERT-42S	Methane	Groundwater	8/17/2016	13:50	2	40 mL glass w/septum	HCl pH <2		N
	128M-0864	ERT-42S	Sulfide	Groundwater	8/17/2016	13:50	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0864	ERT-42S	Nitrate	Groundwater	8/17/2016	13:50	1	250 mL Poly	H2SO4		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENV. TECH INC	8/17/16 1630	FedEx		
	FedEx	8/18/16 0930	[illegible]		

MC47361: Chain of Custody
Page 2 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47361

No: 08/17/16-0032
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0864	ERT-42S	Carbon Dioxide	Groundwater	8/17/2016	13:50	2	40 mL glass w/septum	None		N
3F	128M-0864	ERT-42S	Nickel + Iron	Groundwater	8/17/2016	13:50	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENV. TECH. INC	8/17/16 1630	Fed Ex		
	Fed Ex	8/18/16 0930			

4.1
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MC47361: Chain of Custody
Page 3 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC47361 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/18/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8042 4169 2592

Cooler Temps (Initial/Adjusted): #1: (1.6/1.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

MC47361: Chain of Custody
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e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47360

Sampling Date: 08/17/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **12**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47360

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47360-1	08/17/16	14:15		08/18/16	AQ	Ground Water	128M-0865
MC47360-1F	08/17/16	14:15		08/18/16	AQ	Groundwater Filtered	128M-0865

2

Summary of Hits

Job Number: MC47360
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47360-1	**128M-0865**					
Carbon Dioxide		2140	100	84	ug/l	RSK-175
Arsenic		3.1 B	4.0	2.0	ug/l	SW846 6010C
Barium		297	50	0.57	ug/l	SW846 6010C
Chromium		2.2 B	10	1.1	ug/l	SW846 6010C
Iron		796	100	16	ug/l	SW846 6010C
Lead		1.8 B	5.0	1.1	ug/l	SW846 6010C
Nickel		1.4 B	40	0.35	ug/l	SW846 6010C
Zinc		14.0 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		299	5.0		mg/l	SM21 2320B
Chloride		205	10		mg/l	SM 4500 CL C-11
Specific Conductivity		1240	0.50		umhos/cm	EPA 120.1
Sulfate		28.8	5.0		mg/l	ASTM516-90,02
MC47360-1F	**128M-0865**					
Barium		212	50	0.57	ug/l	SW846 6010C
Iron		154	100	16	ug/l	SW846 6010C
Nickel		1.0 B	40	0.35	ug/l	SW846 6010C
Zinc		16.1 B	20	1.0	ug/l	SW846 6010C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0865		
Lab Sample ID:	MC47360-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24154.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	2140	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0865		
Lab Sample ID:	MC47360-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	3.1 B	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	297	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	2.2 B	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	796	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.8 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.4 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	14.0 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0865		
Lab Sample ID:	MC47360-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	299	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	205	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:55	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:28	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:28	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:11	CF	SM 21 4500 NO2 B
Specific Conductivity	1240	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	28.8	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0865		
Lab Sample ID:	MC47360-1F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	212	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	154	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.0 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	16.1 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47360

No: 08/17/16-0034
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0865	ERT-35S	Metals (Total)	Groundwater	8/17/2016	14:15	1	250 mL Poly	HNO3 to pH<2		N
	128M-0865	ERT-35S	Metals (Dissolved)	Groundwater	8/17/2016	14:15	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0865	ERT-35S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	14:15	1	250 mL Poly	None		N
	128M-0865	ERT-35S	Methane	Groundwater	8/17/2016	14:15	2	40 mL glass w/septum	HCl pH <2		N
	128M-0865	ERT-35S	Sulfide	Groundwater	8/17/2016	14:15	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0865	ERT-35S	Nitrate	Groundwater	8/17/2016	14:15	1	250 mL Poly	H2SO4		N
	128M-0865	ERT-35S	Carbon Dioxide	Groundwater	8/17/2016	14:15	2	40 mL glass w/septum	None		N
	128M-0865	ERT-35S	Nickel + Iron	Groundwater	8/17/2016	14:15	1	250 mL Poly	HNO3 to pH<2		N

INITIAL ASESSMENT

Special Instructions:

LABEL VERIFICATION

10A, 6D, 4D1

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas Minute MATRIX ENV. TECH. INC	8/17/16 1630	Fed Ex		
	Fed Ex	8/18/16 0930			

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MC47360: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC47360 **Client:** MATRIX ENV **Project:** CROWN CLEANERS

Date / Time Received: 8/18/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8042 4169 2529

Cooler Temps (Initial/Adjusted): #1: (4.1/4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

4.1

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MC47360: Chain of Custody

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e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47359

Sampling Date: 08/17/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **26**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

Job No: MC47359

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC47359-1	08/17/16	08:45	08/18/16	AQ	Ground Water	128M-0854
MC47359-1F	08/17/16	08:45	08/18/16	AQ	Groundwater Filtered	128M-0854
MC47359-2	08/17/16	09:10	08/18/16	AQ	Ground Water	128M-0855
MC47359-3	08/17/16	09:10	08/18/16	AQ	Ground Water	128M-0857
MC47359-3F	08/17/16	09:10	08/18/16	AQ	Groundwater Filtered	128M-0857
MC47359-4	08/17/16	09:20	08/18/16	AQ	Ground Water	128M-0858
MC47359-4F	08/17/16	09:20	08/18/16	AQ	Groundwater Filtered	128M-0858

Summary of Hits

Job Number: MC47359
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47359-1	**128M-0854**					
Carbon Dioxide		1080	100	84	ug/l	RSK-175
Barium		37.1 B	50	0.57	ug/l	SW846 6010C
Iron		306	100	16	ug/l	SW846 6010C
Nickel		1.6 B	40	0.35	ug/l	SW846 6010C
Zinc		17.6 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		197	5.0		mg/l	SM21 2320B
Chloride		58.0	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.18	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.18	0.10		mg/l	EPA 353.2
Specific Conductivity		557	0.50		umhos/cm	EPA 120.1
Sulfate		8.9	5.0		mg/l	ASTM516-90,02
MC47359-1F	**128M-0854**					
Barium		38.3 B	50	0.57	ug/l	SW846 6010C
Iron		17.8 B	100	16	ug/l	SW846 6010C
Nickel		0.80 B	40	0.35	ug/l	SW846 6010C
Zinc		26.6	20	1.0	ug/l	SW846 6010C
MC47359-2	**128M-0855**					
Carbon Dioxide		165	100	84	ug/l	RSK-175
Zinc		11.7 B	20	1.0	ug/l	SW846 6010C
Specific Conductivity		1.3	0.50		umhos/cm	EPA 120.1
MC47359-3	**128M-0857**					
Carbon Dioxide		1830	100	84	ug/l	RSK-175
Antimony		2.5 B	6.0	1.2	ug/l	SW846 6010C
Barium		191	50	0.57	ug/l	SW846 6010C
Chromium		1.6 B	10	1.1	ug/l	SW846 6010C
Iron		580	100	16	ug/l	SW846 6010C
Lead		3.0 B	5.0	1.1	ug/l	SW846 6010C
Nickel		1.4 B	40	0.35	ug/l	SW846 6010C
Zinc		15.2 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		231	5.0		mg/l	SM21 2320B
Chloride		50.5	1.0		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.32	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.33	0.10		mg/l	EPA 353.2
Specific Conductivity		614	0.50		umhos/cm	EPA 120.1
Sulfate		14.1	5.0		mg/l	ASTM516-90,02

Summary of Hits

Job Number: MC47359
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47359-3F	**128M-0857**					
Barium		154	50	0.57	ug/l	SW846 6010C
Chromium		1.3 B	10	1.1	ug/l	SW846 6010C
Nickel		0.90 B	40	0.35	ug/l	SW846 6010C
Zinc		20.0	20	1.0	ug/l	SW846 6010C
MC47359-4	**128M-0858**					
Carbon Dioxide		1060	100	84	ug/l	RSK-175
Arsenic		6.2	4.0	2.0	ug/l	SW846 6010C
Barium		63.8	50	0.57	ug/l	SW846 6010C
Iron		706	100	16	ug/l	SW846 6010C
Lead		1.3 B	5.0	1.1	ug/l	SW846 6010C
Nickel		0.80 B	40	0.35	ug/l	SW846 6010C
Zinc		16.9 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		278	5.0		mg/l	SM21 2320B
Chloride		83.0	1.0		mg/l	SM 4500 CL C-11
Specific Conductivity		1080	0.50		umhos/cm	EPA 120.1
Sulfate		155	25		mg/l	ASTM516-90,02
MC47359-4F	**128M-0858**					
Arsenic		2.6 B	4.0	2.0	ug/l	SW846 6010C
Barium		40.0 B	50	0.57	ug/l	SW846 6010C
Iron		94.3 B	100	16	ug/l	SW846 6010C
Nickel		1.1 B	40	0.35	ug/l	SW846 6010C
Zinc		29.1	20	1.0	ug/l	SW846 6010C

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0854		
Lab Sample ID:	MC47359-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24149.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1080	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0854		
Lab Sample ID:	MC47359-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	37.1 B	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	306	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.6 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	17.6 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0854		
Lab Sample ID:	MC47359-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	197	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	58.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.18	0.11	mg/l	1	08/24/16 14:21	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.18	0.10	mg/l	1	08/24/16 14:21	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:07	CF	SM 21 4500 NO2 B
Specific Conductivity	557	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	8.9	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0854		
Lab Sample ID:	MC47359-1F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	38.3 B	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	17.8 B	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	0.80 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	26.6	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0855		
Lab Sample ID:	MC47359-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24151.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	165	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0855		
Lab Sample ID:	MC47359-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	0.57 U	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	16 U	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	0.35 U	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	11.7 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26674

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0855		
Lab Sample ID:	MC47359-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	< 1.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:22	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:22	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:07	CF	SM 21 4500 NO2 B
Specific Conductivity	1.3	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	< 5.0	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0857		
Lab Sample ID:	MC47359-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24152.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1830	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0857		
Lab Sample ID:	MC47359-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	2.5 B	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	191	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.6 B	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	580	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	3.0 B	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.4 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	15.2 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0857		
Lab Sample ID:	MC47359-3	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	231	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	50.5	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.32	0.11	mg/l	1	08/24/16 14:26	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.33	0.10	mg/l	1	08/24/16 14:26	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:07	CF	SM 21 4500 NO2 B
Specific Conductivity	614	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	14.1	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0857		
Lab Sample ID:	MC47359-3F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	154	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.3 B	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	16 U	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	0.90 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	20.0	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0858		
Lab Sample ID:	MC47359-4	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24153.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1060	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0858		
Lab Sample ID:	MC47359-4	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	6.2	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	63.8	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	706	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.3 B	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	0.80 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	16.9 B	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0858		
Lab Sample ID:	MC47359-4	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	278	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	83.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 14:27	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 14:27	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:11	CF	SM 21 4500 NO2 B
Specific Conductivity	1080	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	155	25	mg/l	5	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0858		
Lab Sample ID:	MC47359-4F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.6 B	4.0	2.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	40.0 B	50	0.57	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	94.3 B	100	16	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.1 B	40	0.35	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	29.1	20	1.0	ug/l	1	08/23/16	08/25/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19408
(3) Prep QC Batch: MP26674
(4) Prep QC Batch: MP26678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47359

No: 08/17/16-0031
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0854	MW-04S	Metals (Total)	Groundwater	8/17/2016	08:45	1	250 mL Poly	HNO3 to pH<2		N
	128M-0854	MW-04S	Metals (Dissolved)	Groundwater	8/17/2016	08:45	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0854	MW-04S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	08:45	1	250 mL Poly	None		N
	128M-0854	MW-04S	Methane	Groundwater	8/17/2016	08:45	2	40 mL glass w/septum	HCl pH <2		N
1F	128M-0854	MW-04S	Sulfide	Groundwater	8/17/2016	08:45	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0854	MW-04S	Nitrate	Groundwater	8/17/2016	08:45	1	250 mL Poly	H2SO4		N
	128M-0854	MW-04S	Carbon Dioxide	Groundwater	8/17/2016	08:45	2	40 mL glass w/septum	None		N
	128M-0854	MW-04S	Nickel + Iron	Groundwater	8/17/2016	08:45	1	250 mL Poly	HNO3 to pH<2		N
	128M-0855	RB-01	Metals (Total)	Groundwater	8/17/2016	09:10	1	250 mL Poly	HNO3 to pH<2		N
-2	128M-0855	RB-01	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	09:10	1	250 mL Poly	None		N
	128M-0855	RB-01	Methane	Groundwater	8/17/2016	09:10	2	40 mL glass w/septum	HCl pH <2		N

Special Instructions: 10A, 6D, 4D1

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas Minute MATRIX ENV. TECH. INC	8/17/16 1240	FedEx		
	FEDX	8-18-16 9:0		INITIAL ASESSMENT	
				LABEL VERIFICATION	

4.2 °C

MC47359: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2542

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/17/16-0031
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0855	RB-01	Sulfide	Groundwater	8/17/2016	09:10	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0855	RB-01	Nitrate	Groundwater	8/17/2016	09:10	1	250 mL Poly	H2SO4		N
-2F	128M-0855	RB-01	Carbon Dioxide	Groundwater	8/17/2016	09:10	2	40 mL glass w/septum	None		N
-3F	128M-0855	RB-01	Nickel + Iron	Groundwater	8/17/2016	09:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0857	ERT-40S	Metals (Total)	Groundwater	8/17/2016	09:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0857	ERT-40S	Metals (Dissolved)	Groundwater	8/17/2016	09:10	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0857	ERT-40S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	09:10	1	250 mL Poly	None		N
-3F	128M-0857	ERT-40S	Methane	Groundwater	8/17/2016	09:10	2	40 mL glass w/septum	HCl pH <2		N
	128M-0857	ERT-40S	Sulfide	Groundwater	8/17/2016	09:10	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0857	ERT-40S	Nitrate	Groundwater	8/17/2016	09:10	1	250 mL Poly	H2SO4		N
	128M-0857	ERT-40S	Carbon Dioxide	Groundwater	8/17/2016	09:10	2	40 mL glass w/septum	None		N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Nicholas S Minute Matrix Env. Tech Inc	8/17/16 1240	Fed Ex		
	FEDX	8-18-16	[illegible]		

4.2°C

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

No: 08/17/16-0031
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-3F	128M-0857	ERT-40S	Nickel + Iron	Groundwater	8/17/2016	09:10	1	250 mL Poly	HNO3 to pH<2		N
	128M-0858	ERT-40D	Metals (Total)	Groundwater	8/17/2016	09:20	1	250 mL Poly	HNO3 to pH<2		N
	128M-0858	ERT-40D	Metals (Dissolved)	Groundwater	8/17/2016	09:20	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0858	ERT-40D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	09:20	1	250 mL Poly	None		N
-4F	128M-0858	ERT-40D	Methane	Groundwater	8/17/2016	09:20	2	40 mL glass w/septum	HCl pH <2		N
	128M-0858	ERT-40D	Sulfide	Groundwater	8/17/2016	09:20	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0858	ERT-40D	Nitrate	Groundwater	8/17/2016	09:20	1	250 mL Poly	H2SO4		N
	128M-0858	ERT-40D	Carbon Dioxide	Groundwater	8/17/2016	09:20	2	40 mL glass w/septum	None		N
	128M-0858	ERT-40D	Nickel + Iron	Groundwater	8/17/2016	09:20	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	Nicholas S Minute MATRIX ENVI TECH. INC	8/17/16 1240	Fedex		
	FEDX	8-18-16 930			

4.2°C

MC47359: Chain of Custody
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SGS Accutest Sample Receipt Summary

Job Number: MC47359 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/18/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8042 4169 2592

Cooler Temps (Initial/Adjusted): #1: (4.2/4.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47358

Sampling Date: 08/17/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **19**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47358

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47358-1	08/17/16	10:00		08/18/16	AQ	Ground Water	128M-0859
MC47358-1F	08/17/16	10:00		08/18/16	AQ	Groundwater Filtered	128M-0859
MC47358-2	08/17/16	10:30		08/18/16	AQ	Ground Water	128M-0860
MC47358-2F	08/17/16	10:30		08/18/16	AQ	Groundwater Filtered	128M-0860

2

Summary of Hits

Job Number: MC47358
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47358-1	**128M-0859**					
Carbon Dioxide		2580	100	84	ug/l	RSK-175
Arsenic		3.4 B	4.0	2.0	ug/l	SW846 6010C
Barium		131	50	0.57	ug/l	SW846 6010C
Chromium		1.4 B	10	1.1	ug/l	SW846 6010C
Iron		1450	100	16	ug/l	SW846 6010C
Nickel		1.5 B	40	0.35	ug/l	SW846 6010C
Zinc		10.8 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		311	5.0		mg/l	SM21 2320B
Chloride		540	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.39	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.42	0.10		mg/l	EPA 353.2
Nitrogen, Nitrite		0.034	0.010		mg/l	SM 21 4500 NO2 B
Specific Conductivity		2260	0.50		umhos/cm	EPA 120.1
Sulfate		38.4	10		mg/l	ASTM516-90,02
MC47358-1F	**128M-0859**					
Barium		90.8	50	0.57	ug/l	SW846 6010C
Iron		72.8 B	100	16	ug/l	SW846 6010C
Nickel		2.4 B	40	0.35	ug/l	SW846 6010C
Zinc		23.1	20	1.0	ug/l	SW846 6010C
MC47358-2	**128M-0860**					
Methane		11.5	10	4.9	ug/l	RSK-175
Carbon Dioxide		1670	100	84	ug/l	RSK-175
Barium		62.9	50	0.57	ug/l	SW846 6010C
Iron		51.5 B	100	16	ug/l	SW846 6010C
Nickel		1.5 B	40	0.35	ug/l	SW846 6010C
Zinc		10.4 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		27.1	5.0		mg/l	SM21 2320B
Chloride		150	10		mg/l	SM 4500 CL C-11
Nitrogen, Nitrate [a]		0.21	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite		0.22	0.10		mg/l	EPA 353.2
Specific Conductivity		1110	0.50		umhos/cm	EPA 120.1
Sulfate		28.9	5.0		mg/l	ASTM516-90,02
MC47358-2F	**128M-0860**					
Arsenic		2.0 B	4.0	2.0	ug/l	SW846 6010C
Barium		58.1	50	0.57	ug/l	SW846 6010C
Nickel		1.7 B	40	0.35	ug/l	SW846 6010C
Zinc		17.3 B	20	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: MC47358
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/17/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0859		
Lab Sample ID:	MC47358-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24147.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	2580	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0859		
Lab Sample ID:	MC47358-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	3.4 B	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	131	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.4 B	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	1450	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.5 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	10.8 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0859		
Lab Sample ID:	MC47358-1	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	311	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	540	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.39	0.11	mg/l	1	08/24/16 14:19	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.42	0.10	mg/l	1	08/24/16 14:19	MC	EPA 353.2
Nitrogen, Nitrite	0.034	0.010	mg/l	1	08/18/16 19:07	CF	SM 21 4500 NO2 B
Specific Conductivity	2260	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	38.4	10	mg/l	2	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0859		
Lab Sample ID:	MC47358-1F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	90.8	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	72.8 B	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.4 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	23.1	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0860		
Lab Sample ID:	MC47358-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24148.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	11.5	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1670	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0860		
Lab Sample ID:	MC47358-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	62.9	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	51.5 B	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.5 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	10.4 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0860		
Lab Sample ID:	MC47358-2	**Date Sampled:**	08/17/16
Matrix:	AQ - Ground Water	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	27.1	5.0	mg/l	1	08/25/16	BF	SM21 2320B
Chloride	150	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/18/16 12:38	CF	SM21 3500FE B
Nitrogen, Nitrate [b]	0.21	0.11	mg/l	1	08/24/16 14:20	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.22	0.10	mg/l	1	08/24/16 14:20	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/18/16 19:07	CF	SM 21 4500 NO2 B
Specific Conductivity	1110	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	28.9	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/23/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0860		
Lab Sample ID:	MC47358-2F	**Date Sampled:**	08/17/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/18/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.0 B	4.0	2.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	58.1	50	0.57	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	1.1 U	10	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Copper	4.2 U	25	4.2	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Iron	16 U	100	16	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	0.034 U	0.20	0.034	ug/l	1	08/23/16	08/24/16	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.7 B	40	0.35	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Selenium	3.4 U	10	3.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	1.4 U	5.0	1.4	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]
Zinc	17.3 B	20	1.0	ug/l	1	08/22/16	08/24/16	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA19404
(2) Instrument QC Batch: MA19405
(3) Prep QC Batch: MP26664
(4) Prep QC Batch: MP26670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47358

No: 08/17/16-0033
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0859	ERT-34S	Metals (Total)	Groundwater	8/17/2016	10:00	1	250 mL Poly	HNO3 to pH<2		N
	128M-0859	ERT-34S	Metals (Dissolved)	Groundwater	8/17/2016	10:00	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0859	ERT-34S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	10:00	1	250 mL Poly	None		N
-1F	128M-0859	ERT-34S	Methane	Groundwater	8/17/2016	10:00	2	40 mL glass w/septum	HCl pH <2		N
	128M-0859	ERT-34S	Sulfide	Groundwater	8/17/2016	10:00	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0859	ERT-34S	Nitrate	Groundwater	8/17/2016	10:00	1	250 mL Poly	H2SO4		N
	128M-0859	ERT-34S	Carbon Dioxide	Groundwater	8/17/2016	10:00	2	40 mL glass w/septum	None		N
	128M-0859	ERT-34S	Nickel + Iron	Groundwater	8/17/2016	10:00	1	250 mL Poly	HNO3 to pH<2		N
	128M-0860	ERT-33S	Metals (Total)	Groundwater	8/17/2016	10:30	1	250 mL Poly	HNO3 to pH<2		N
-2F	128M-0860	ERT-33S	Metals (Dissolved)	Groundwater	8/17/2016	10:30	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0860	ERT-33S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	10:30	1	250 mL Poly	None		N

Special Instructions: 4D1, 6D, 10A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas Minute MATRIX ENV. TECH	8/17/16 1630	FedEx		
	FEDX	8-18-16 830		INITIAL ASESSMENT	
				LABEL VERIFICATION	

5.4°C

MC47358: Chain of Custody
Page 1 of 4

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47358

No: 08/17/16-0033
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0860	ERT-33S	Methane	Groundwater	8/17/2016	10:30	2	40 mL glass w/septum	HCl pH <2		N
	128M-0860	ERT-33S	Sulfide	Groundwater	8/17/2016	10:30	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0860	ERT-33S	Nitrate	Groundwater	8/17/2016	10:30	1	250 mL Poly	H2SO4		N
-2F	128M-0860	ERT-33S	Carbon Dioxide	Groundwater	8/17/2016	10:30	2	40 mL glass w/septum	None		N
	128M-0860	ERT-33S	Nickel + Iron	Groundwater	8/17/2016	10:30	1	250 mL Poly	HNO3 to pH<2		N
	128M-0861	ERT-42D	Metals (Total)	Groundwater	8/17/2016	11:45	1	250 mL Poly	HNO3 to pH<2		N
	128M-0861	ERT-42D	Metals (Dissolved)	Groundwater	8/17/2016	11:45	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0861	ERT-42D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/17/2016	11:45	1	250 mL Poly	None		N
-3P	128M-0861	ERT-42D	Methane	Groundwater	8/17/2016	11:45	2	40 mL glass w/septum	HCl pH <2		N
	128M-0861	ERT-42D	Sulfide	Groundwater	8/17/2016	11:45	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0861	ERT-42D	Nitrate	Groundwater	8/17/2016	11:45	1	250 mL Poly	H2SO4		N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENV TECH INC	8/17/16 1630	FED EX		
	FEDEX	8-18-16 930	[illegible]		

5.4°C

Matrix Environmental Technologies, Inc.
DateShipped: 8/17/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2592

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47358

No: 08/17/16-0033
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-3P	128M-0861	ERT-42D	Carbon Dioxide	Groundwater	8/17/2016	11:45	2	40 mL glass w/septum	None		N
	128M-0861	ERT-42D	Nickel + Iron	Groundwater	8/17/2016	11:45	1	250 mL Poly	HNO3 to pH<2		N

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENV. TECH INC	8/17/16 1630	FedEx		
	FEDX	8-18-16			

54°

MC47358: Chain of Custody
Page 3 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC47358 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/18/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8042 4169 2592

Cooler Temps (Initial/Adjusted): #1: (5.4/5.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47343

Sampling Dates: 08/15/16 - 08/16/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: **111**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

Job No: MC47343

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47343-1	08/15/16	14:45	NSM	08/17/16	AQ	Ground Water	128M-0792
MC47343-2	08/15/16	15:00	NSM	08/17/16	AQ	Ground Water	128M-0793
MC47343-3	08/15/16	15:01	NSM	08/17/16	AQ	Ground Water	128M-0794
MC47343-4	08/15/16	15:05	NSM	08/17/16	AQ	Ground Water	128M-0795
MC47343-5	08/15/16	15:13	NSM	08/17/16	AQ	Ground Water	128M-0797
MC47343-6	08/15/16	15:13	NSM	08/17/16	AQ	Ground Water	128M-0798
MC47343-7	08/15/16	15:28	NSM	08/17/16	AQ	Ground Water	128M-0800
MC47343-8	08/15/16	15:21	NSM	08/17/16	AQ	Ground Water	128M-0802
MC47343-9	08/15/16	15:21	NSM	08/17/16	AQ	Ground Water	128M-0803
MC47343-10	08/15/16	15:37	NSM	08/17/16	AQ	Ground Water	128M-0804
MC47343-11	08/15/16	15:31	NSM	08/17/16	AQ	Ground Water	028M-0805
MC47343-12	08/15/16	14:45	NSM	08/17/16	AQ	Ground Water	128M-0807
MC47343-13	08/15/16	15:46	NSM	08/17/16	AQ	Ground Water	128M-0808

SGS Accutest

Sample Summary
(continued)

Matrix Environmental Technologies, Inc.

Job No: MC47343

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47343-14	08/15/16	16:00	NSM	08/17/16	AQ	Ground Water	128M-0812
MC47343-15	08/15/16	16:05	NSM	08/17/16	AQ	Ground Water	128M-0814
MC47343-16	08/15/16	16:05	NSM	08/17/16	AQ	Ground Water	128M-0815
MC47343-17	08/15/16	16:10	NSM	08/17/16	AQ	Ground Water	128M-0816
MC47343-18	08/15/16	16:10	NSM	08/17/16	AQ	Ground Water	128M-0817
MC47343-19	08/15/16	16:20	NSM	08/17/16	AQ	Ground Water	128M-0818
MC47343-20	08/15/16	16:20	NSM	08/17/16	AQ	Ground Water	128M-0819
MC47343-21	08/15/16	16:25	NSM	08/17/16	AQ	Ground Water	128M-0820
MC47343-22	08/15/16	16:33	NSM	08/17/16	AQ	Ground Water	128M-0822
MC47343-23	08/15/16	16:33	NSM	08/17/16	AQ	Ground Water	128M-0823
MC47343-24	08/15/16	16:33	NSM	08/17/16	AQ	Ground Water	128M-0824
MC47343-25	08/15/16	16:39	NSM	08/17/16	AQ	Ground Water	128M-0825
MC47343-26	08/15/16	16:44	NSM	08/17/16	AQ	Ground Water	128M-0828

SGS Accutest

Sample Summary
(continued)

Matrix Environmental Technologies, Inc.

Job No: MC47343

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47343-27	08/15/16	16:56	NSM	08/17/16	AQ	Ground Water	128M-0830
MC47343-28	08/15/16	16:56	NSM	08/17/16	AQ	Ground Water	128M-0831
MC47343-29	08/15/16	17:14	NSM	08/17/16	AQ	Ground Water	128M-0836
MC47343-30	08/16/16	17:20	NSM	08/17/16	AQ	Ground Water	128M-0839
MC47343-31	08/15/16	14:45	NSM	08/17/16	AQ	Trip Blank Water	128M-0851

Summary of Hits

Job Number: MC47343
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/15/16 thru 08/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47343-1	**128M-0792**					
1,2-Dichlorobenzene		0.56 J	1.0	0.38	ug/l	SW846 8260C
cis-1,2-Dichloroethene		10.3	1.0	0.29	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.2	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		14300	200	89	ug/l	SW846 8260C
Trichloroethene		232	20	9.7	ug/l	SW846 8260C
MC47343-2	**128M-0793**					
Benzene		5.1	0.50	0.45	ug/l	SW846 8260C
1,1-Dichloroethene		3.3	1.0	0.60	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2850	100	29	ug/l	SW846 8260C
trans-1,2-Dichloroethene		5.7	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		91.0	1.0	0.45	ug/l	SW846 8260C
Toluene		4.1	1.0	0.49	ug/l	SW846 8260C
Trichloroethene		1790	100	48	ug/l	SW846 8260C
Vinyl chloride		2.9	1.0	0.69	ug/l	SW846 8260C
MC47343-3	**128M-0794**					
Benzene		1.2	0.50	0.45	ug/l	SW846 8260C
1,1-Dichloroethene		3.3	1.0	0.60	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2610	25	7.3	ug/l	SW846 8260C
trans-1,2-Dichloroethene		7.2	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		920	25	11	ug/l	SW846 8260C
Toluene		1.3	1.0	0.49	ug/l	SW846 8260C
Trichloroethene		820	25	12	ug/l	SW846 8260C
MC47343-4	**128M-0795**					
cis-1,2-Dichloroethene		88.4	1.0	0.29	ug/l	SW846 8260C
Tetrachloroethene		2830	50	22	ug/l	SW846 8260C
Trichloroethene		154	1.0	0.48	ug/l	SW846 8260C

MC47343-5 **128M-0797**

No hits reported in this sample.

MC47343-6 **128M-0798**

No hits reported in this sample.

Summary of Hits

Job Number: MC47343
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/15/16 thru 08/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47343-7	**128M-0800**					
cis-1,2-Dichloroethene		4.2	1.0	0.29	ug/l	SW846 8260C
Vinyl chloride		0.78 J	1.0	0.69	ug/l	SW846 8260C
MC47343-8	**128M-0802**					
Trichloroethene		0.70 J	1.0	0.48	ug/l	SW846 8260C
MC47343-9	**128M-0803**					
cis-1,2-Dichloroethene		195	2.0	0.59	ug/l	SW846 8260C
Tetrachloroethene		326	2.0	0.89	ug/l	SW846 8260C
Trichloroethene		121	2.0	0.97	ug/l	SW846 8260C
Vinyl chloride		2.8	2.0	1.4	ug/l	SW846 8260C
MC47343-10	**128M-0804**					
cis-1,2-Dichloroethene		6.6	2.0	0.59	ug/l	SW846 8260C
Tetrachloroethene		239	2.0	0.89	ug/l	SW846 8260C
Trichloroethene		4.6	2.0	0.97	ug/l	SW846 8260C
MC47343-11	**028M-0805**					
1,1-Dichloroethene		4.2	1.0	0.60	ug/l	SW846 8260C
cis-1,2-Dichloroethene		1580	50	15	ug/l	SW846 8260C
trans-1,2-Dichloroethene		8.4	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		1110	50	22	ug/l	SW846 8260C
Trichloroethene		712	50	24	ug/l	SW846 8260C
MC47343-12	**128M-0807**					
Tetrachloroethene		155	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		0.66 J	1.0	0.48	ug/l	SW846 8260C
MC47343-13	**128M-0808**					
cis-1,2-Dichloroethene		52.9	1.0	0.29	ug/l	SW846 8260C
trans-1,2-Dichloroethene		2.1	1.0	0.50	ug/l	SW846 8260C
Vinyl chloride		97.7	1.0	0.69	ug/l	SW846 8260C
MC47343-14	**128M-0812**					
cis-1,2-Dichloroethene		383	10	2.9	ug/l	SW846 8260C
Tetrachloroethene		1180	10	4.5	ug/l	SW846 8260C

Summary of Hits

Job Number: MC47343
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/15/16 thru 08/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene		219	10	4.8	ug/l	SW846 8260C
MC47343-15	**128M-0814**					
cis-1,2-Dichloroethene		98.3	1.0	0.29	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.95 J	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		2.0	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		0.71 J	1.0	0.48	ug/l	SW846 8260C
Vinyl chloride		24.4	1.0	0.69	ug/l	SW846 8260C
MC47343-16	**128M-0815**					
cis-1,2-Dichloroethene		100	1.0	0.29	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.98 J	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		2.1	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		0.79 J	1.0	0.48	ug/l	SW846 8260C
Vinyl chloride		25.2	1.0	0.69	ug/l	SW846 8260C
MC47343-17	**128M-0816**					
cis-1,2-Dichloroethene		18.7	1.0	0.29	ug/l	SW846 8260C
Trichloroethene		5.3	1.0	0.48	ug/l	SW846 8260C
MC47343-18	**128M-0817**					
Benzene		0.65	0.50	0.45	ug/l	SW846 8260C
cis-1,2-Dichloroethene		331	10	2.9	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.83 J	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		9.4	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		49.6	1.0	0.48	ug/l	SW846 8260C
MC47343-19	**128M-0818**					
cis-1,2-Dichloroethene		3.3 J	5.0	1.5	ug/l	SW846 8260C
Tetrachloroethene		637	5.0	2.2	ug/l	SW846 8260C
Trichloroethene		91.9	5.0	2.4	ug/l	SW846 8260C
MC47343-20	**128M-0819**					
Acetone		18.0	10	2.8	ug/l	SW846 8260C
Benzene		0.49 J	0.50	0.45	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2.9	1.0	0.29	ug/l	SW846 8260C
Ethylbenzene		0.60 J	1.0	0.53	ug/l	SW846 8260C
Tetrachloroethene		13.7	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		8.5	1.0	0.48	ug/l	SW846 8260C

Summary of Hits

Job Number: MC47343
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/15/16 thru 08/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene		0.51 J	5.0	0.24	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.49 J	5.0	0.41	ug/l	SW846 8260C
Vinyl chloride		1.0	1.0	0.69	ug/l	SW846 8260C
MC47343-21	**128M-0820**					
Chloroform		0.56 J	1.0	0.41	ug/l	SW846 8260C
cis-1,2-Dichloroethene		28.3	1.0	0.29	ug/l	SW846 8260C
Tetrachloroethene		31.8	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		341	10	4.8	ug/l	SW846 8260C
MC47343-22	**128M-0822**					
Benzene		0.51	0.50	0.45	ug/l	SW846 8260C
cis-1,2-Dichloroethene		1.5	1.0	0.29	ug/l	SW846 8260C
Tetrachloroethene		7.4	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		37.4	1.0	0.48	ug/l	SW846 8260C
MC47343-23	**128M-0823**					
No hits reported in this sample.						
MC47343-24	**128M-0824**					
No hits reported in this sample.						
MC47343-25	**128M-0825**					
cis-1,2-Dichloroethene		1.7	1.0	0.29	ug/l	SW846 8260C
Tetrachloroethene		7.0	1.0	0.45	ug/l	SW846 8260C
Trichloroethene		40.3	1.0	0.48	ug/l	SW846 8260C
MC47343-26	**128M-0828**					
cis-1,2-Dichloroethene		16.8	2.0	0.59	ug/l	SW846 8260C
Tetrachloroethene		249	2.0	0.89	ug/l	SW846 8260C
Trichloroethene		16.5	4.0	1.9	ug/l	SW846 8260C
MC47343-27	**128M-0830**					
cis-1,2-Dichloroethene		17.3	1.0	0.29	ug/l	SW846 8260C
Tetrachloroethene		414	10	4.5	ug/l	SW846 8260C
Trichloroethene		7.3	1.0	0.48	ug/l	SW846 8260C

Summary of Hits

Job Number: MC47343
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/15/16 thru 08/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47343-28	**128M-0831**					
cis-1,2-Dichloroethene [a]		67.1	1.0	0.29	ug/l	SW846 8260C
trans-1,2-Dichloroethene [a]		0.81 J	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene [a]		4.1	1.0	0.45	ug/l	SW846 8260C
Trichloroethene [a]		13.8	1.0	0.48	ug/l	SW846 8260C
MC47343-29	**128M-0836**					
cis-1,2-Dichloroethene		0.72 J	1.0	0.29	ug/l	SW846 8260C
Trichloroethene		0.66 J	1.0	0.48	ug/l	SW846 8260C
MC47343-30	**128M-0839**					
No hits reported in this sample.						
MC47343-31	**128M-0851**					
No hits reported in this sample.						

(a) Sample received and analyzed with bubble > 6mm.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0792		
Lab Sample ID:	MC47343-1	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99422.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2	K99459.D	20	08/23/16	AD	n/a	n/a	MSK3077
Run #3	K99458.D	200	08/23/16	AD	n/a	n/a	MSK3077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	0.56	1.0	0.38	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	10.3	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0792		
Lab Sample ID:	MC47343-1	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	1.2	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	14300 [b]	200	89	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	232 [c]	20	9.7	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0792		
Lab Sample ID:	MC47343-1	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	102%	101%	102%	76-129%
2037-26-5	Toluene-D8	100%	99%	100%	83-114%
460-00-4	4-Bromofluorobenzene	93%	93%	92%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 3
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0793		
Lab Sample ID:	MC47343-2	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99411.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2	K99455.D	100	08/23/16	AD	n/a	n/a	MSK3077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	5.1	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	3.3	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	2850 [b]	100	29	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.7	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0793		
Lab Sample ID:	MC47343-2	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	91.0	1.0	0.45	ug/l	
108-88-3	Toluene	4.1	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	1790 [b]	100	48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	2.9	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	101%	76-129%
2037-26-5	Toluene-D8	95%	100%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0793		
Lab Sample ID:	MC47343-2	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	94%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0794		
Lab Sample ID:	MC47343-3	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99412.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2	K99456.D	25	08/23/16	AD	n/a	n/a	MSK3077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	1.2	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	3.3	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	2610 [b]	25	7.3	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.2	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0794		
Lab Sample ID:	MC47343-3	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	920 [b]	25	11	ug/l	
108-88-3	Toluene	1.3	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	820 [b]	25	12	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	103%	76-129%
2037-26-5	Toluene-D8	96%	101%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0794		
Lab Sample ID:	MC47343-3	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	91%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0795		
Lab Sample ID:	MC47343-4	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99413.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2	K99454.D	50	08/23/16	AD	n/a	n/a	MSK3077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	88.4	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0795		
Lab Sample ID:	MC47343-4	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	2830 [b]	50	22	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	154	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	103%	76-129%
2037-26-5	Toluene-D8	98%	99%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0795		
Lab Sample ID:	MC47343-4	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	95%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0797		
Lab Sample ID:	MC47343-5	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99440.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0797		
Lab Sample ID:	MC47343-5	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-129%
2037-26-5	Toluene-D8	96%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0797		
Lab Sample ID:	MC47343-5	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0798		
Lab Sample ID:	MC47343-6	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99415.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0798		
Lab Sample ID:	MC47343-6	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-129%
2037-26-5	Toluene-D8	99%		83-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0798		
Lab Sample ID:	MC47343-6	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0800		
Lab Sample ID:	MC47343-7	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99441.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.2	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0800		
Lab Sample ID:	MC47343-7	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	0.78	1.0	0.69	ug/l	J
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-129%
2037-26-5	Toluene-D8	94%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0800		
Lab Sample ID:	MC47343-7	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0802		
Lab Sample ID:	MC47343-8	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99442.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0802		
Lab Sample ID:	MC47343-8	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.70	1.0	0.48	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-129%
2037-26-5	Toluene-D8	101%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0802		
Lab Sample ID:	MC47343-8	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0803		
Lab Sample ID:	MC47343-9	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99449.D	2	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	5.6	ug/l	
71-43-2	Benzene	ND	1.0	0.89	ug/l	
108-86-1	Bromobenzene	ND	10	0.71	ug/l	
74-97-5	Bromochloromethane	ND	10	0.69	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.61	ug/l	
75-25-2	Bromoform [a]	ND	2.0	0.65	ug/l	
74-83-9	Bromomethane	ND	4.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	20	3.9	ug/l	
104-51-8	n-Butylbenzene	ND	10	1.2	ug/l	
135-98-8	sec-Butylbenzene	ND	10	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.2	ug/l	
75-15-0	Carbon disulfide	ND	10	2.4	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.60	ug/l	
75-00-3	Chloroethane	ND	4.0	1.2	ug/l	
67-66-3	Chloroform	ND	2.0	0.81	ug/l	
74-87-3	Chloromethane	ND	4.0	1.7	ug/l	
95-49-8	o-Chlorotoluene	ND	10	0.99	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.95	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.9	ug/l	
124-48-1	Dibromochloromethane [a]	ND	2.0	0.79	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.77	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.79	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.95	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.2	ug/l	
156-59-2	cis-1,2-Dichloroethene	195	2.0	0.59	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	1.4	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0803		
Lab Sample ID:	MC47343-9	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	10	1.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.0	ug/l	
591-78-6	2-Hexanone	ND	20	0.72	ug/l	
74-88-4	Iodomethane	ND	10	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	10	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	1.0	ug/l	
74-95-3	Methylene bromide	ND	10	0.46	ug/l	
75-09-2	Methylene chloride	ND	4.0	3.5	ug/l	
91-20-3	Naphthalene	ND	10	0.90	ug/l	
103-65-1	n-Propylbenzene	ND	10	1.3	ug/l	
100-42-5	Styrene	ND	10	0.91	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethene	326	2.0	0.89	ug/l	
108-88-3	Toluene	ND	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	0.67	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.42	ug/l	
79-01-6	Trichloroethene	121	2.0	0.97	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.2	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	0.83	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.0	ug/l	
75-01-4	Vinyl chloride	2.8	2.0	1.4	ug/l	
	m,p-Xylene	ND	2.0	0.80	ug/l	
95-47-6	o-Xylene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-129%
2037-26-5	Toluene-D8	98%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0803		
Lab Sample ID:	MC47343-9	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0804		
Lab Sample ID:	MC47343-10	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99473.D	2	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	5.6	ug/l	
71-43-2	Benzene	ND	1.0	0.89	ug/l	
108-86-1	Bromobenzene	ND	10	0.71	ug/l	
74-97-5	Bromochloromethane	ND	10	0.69	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.61	ug/l	
75-25-2	Bromoform [a]	ND	2.0	0.65	ug/l	
74-83-9	Bromomethane	ND	4.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	20	3.9	ug/l	
104-51-8	n-Butylbenzene	ND	10	1.2	ug/l	
135-98-8	sec-Butylbenzene	ND	10	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.2	ug/l	
75-15-0	Carbon disulfide	ND	10	2.4	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.60	ug/l	
75-00-3	Chloroethane	ND	4.0	1.2	ug/l	
67-66-3	Chloroform	ND	2.0	0.81	ug/l	
74-87-3	Chloromethane	ND	4.0	1.7	ug/l	
95-49-8	o-Chlorotoluene	ND	10	0.99	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.95	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	10	1.9	ug/l	
124-48-1	Dibromochloromethane [a]	ND	2.0	0.79	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.77	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.79	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.95	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.2	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.6	2.0	0.59	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	1.4	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0804		
Lab Sample ID:	MC47343-10	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	10	1.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.0	ug/l	
591-78-6	2-Hexanone	ND	20	0.72	ug/l	
74-88-4	Iodomethane	ND	10	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	10	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	1.0	ug/l	
74-95-3	Methylene bromide	ND	10	0.46	ug/l	
75-09-2	Methylene chloride	ND	4.0	3.5	ug/l	
91-20-3	Naphthalene [a]	ND	10	0.90	ug/l	
103-65-1	n-Propylbenzene	ND	10	1.3	ug/l	
100-42-5	Styrene	ND	10	0.91	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	2.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethene	239	2.0	0.89	ug/l	
108-88-3	Toluene	ND	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	0.67	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.42	ug/l	
79-01-6	Trichloroethene	4.6	2.0	0.97	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.2	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	0.83	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	3.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.4	ug/l	
	m,p-Xylene	ND	2.0	0.80	ug/l	
95-47-6	o-Xylene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-129%
2037-26-5	Toluene-D8	97%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0804		
Lab Sample ID:	MC47343-10	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	028M-0805		
Lab Sample ID:	MC47343-11	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99416.D	1	08/22/16	AD	n/a	n/a	MSK3076
Run #2	K99457.D	50	08/23/16	AD	n/a	n/a	MSK3077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	4.2	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	1580 [b]	50	15	ug/l	
156-60-5	trans-1,2-Dichloroethene	8.4	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	028M-0805		
Lab Sample ID:	MC47343-11	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	1110 [b]	50	22	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	712 [b]	50	24	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	76-129%
2037-26-5	Toluene-D8	100%	101%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	028M-0805		
Lab Sample ID:	MC47343-11	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	94%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0807		
Lab Sample ID:	MC47343-12	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99447.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0807		
Lab Sample ID:	MC47343-12	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	155	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.66	1.0	0.48	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-129%
2037-26-5	Toluene-D8	99%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0807		
Lab Sample ID:	MC47343-12	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0808		
Lab Sample ID:	MC47343-13	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99445.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	52.9	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.1	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0808		
Lab Sample ID:	MC47343-13	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	97.7	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-129%
2037-26-5	Toluene-D8	100%		83-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0808		
Lab Sample ID:	MC47343-13	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0812		
Lab Sample ID:	MC47343-14	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99448.D	10	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	28	ug/l	
71-43-2	Benzene	ND	5.0	4.5	ug/l	
108-86-1	Bromobenzene	ND	50	3.5	ug/l	
74-97-5	Bromochloromethane	ND	50	3.4	ug/l	
75-27-4	Bromodichloromethane	ND	10	3.1	ug/l	
75-25-2	Bromoform [a]	ND	10	3.3	ug/l	
74-83-9	Bromomethane	ND	20	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	20	ug/l	
104-51-8	n-Butylbenzene	ND	50	5.9	ug/l	
135-98-8	sec-Butylbenzene	ND	50	5.4	ug/l	
98-06-6	tert-Butylbenzene	ND	50	5.8	ug/l	
75-15-0	Carbon disulfide	ND	50	12	ug/l	
56-23-5	Carbon tetrachloride	ND	10	6.6	ug/l	
108-90-7	Chlorobenzene	ND	10	3.0	ug/l	
75-00-3	Chloroethane	ND	20	6.2	ug/l	
67-66-3	Chloroform	ND	10	4.1	ug/l	
74-87-3	Chloromethane	ND	20	8.3	ug/l	
95-49-8	o-Chlorotoluene	ND	50	4.9	ug/l	
106-43-4	p-Chlorotoluene	ND	50	4.7	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	9.6	ug/l	
124-48-1	Dibromochloromethane [a]	ND	10	4.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	1.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	3.8	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	4.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	6.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	6.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	4.8	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	6.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	383	10	2.9	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	6.9	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0812		
Lab Sample ID:	MC47343-14	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	6.9	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	8.4	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	5.4	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.6	ug/l	
100-41-4	Ethylbenzene	ND	10	5.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	10	ug/l	
591-78-6	2-Hexanone	ND	100	3.6	ug/l	
74-88-4	Iodomethane	ND	50	7.8	ug/l	
98-82-8	Isopropylbenzene	ND	50	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	5.0	ug/l	
74-95-3	Methylene bromide	ND	50	2.3	ug/l	
75-09-2	Methylene chloride	ND	20	18	ug/l	
91-20-3	Naphthalene	ND	50	4.5	ug/l	
103-65-1	n-Propylbenzene	ND	50	6.3	ug/l	
100-42-5	Styrene	ND	50	4.5	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	2.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/l	
127-18-4	Tetrachloroethene	1180	10	4.5	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	6.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	3.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	6.8	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.1	ug/l	
79-01-6	Trichloroethene	219	10	4.8	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	7.2	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	5.8	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	4.1	ug/l	
108-05-4	Vinyl Acetate	ND	50	15	ug/l	
75-01-4	Vinyl chloride	ND	10	6.9	ug/l	
	m,p-Xylene	ND	10	4.0	ug/l	
95-47-6	o-Xylene	ND	10	2.2	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-129%
2037-26-5	Toluene-D8	99%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0812		
Lab Sample ID:	MC47343-14	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0814		
Lab Sample ID:	MC47343-15	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99443.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	98.3	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.95	1.0	0.50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0814		
Lab Sample ID:	MC47343-15	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	2.0	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.71	1.0	0.48	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	24.4	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-129%
2037-26-5	Toluene-D8	102%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0814		
Lab Sample ID:	MC47343-15	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0815		
Lab Sample ID:	MC47343-16	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99444.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	100	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.98	1.0	0.50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0815		
Lab Sample ID:	MC47343-16	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	2.1	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.79	1.0	0.48	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	25.2	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-129%
2037-26-5	Toluene-D8	99%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0815		
Lab Sample ID:	MC47343-16	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0816		
Lab Sample ID:	MC47343-17	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99450.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	18.7	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0816		
Lab Sample ID:	MC47343-17	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	5.3	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-129%
2037-26-5	Toluene-D8	100%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0816		
Lab Sample ID:	MC47343-17	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0817		
Lab Sample ID:	MC47343-18	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99453.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2	K99478.D	10	08/24/16	AD	n/a	n/a	MSK3078

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	0.65	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	331 [b]	10	2.9	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.83	1.0	0.50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0817		
Lab Sample ID:	MC47343-18	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	9.4	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	49.6	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	76-129%
2037-26-5	Toluene-D8	99%	98%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0817		
Lab Sample ID:	MC47343-18	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	96%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0818		
Lab Sample ID:	MC47343-19	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99474.D	5	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	14	ug/l	
71-43-2	Benzene	ND	2.5	2.2	ug/l	
108-86-1	Bromobenzene	ND	25	1.8	ug/l	
74-97-5	Bromochloromethane	ND	25	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.5	ug/l	
75-25-2	Bromoform [a]	ND	5.0	1.6	ug/l	
74-83-9	Bromomethane	ND	10	2.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	9.8	ug/l	
104-51-8	n-Butylbenzene	ND	25	2.9	ug/l	
135-98-8	sec-Butylbenzene	ND	25	2.7	ug/l	
98-06-6	tert-Butylbenzene	ND	25	2.9	ug/l	
75-15-0	Carbon disulfide	ND	25	6.0	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	3.3	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.5	ug/l	
75-00-3	Chloroethane	ND	10	3.1	ug/l	
67-66-3	Chloroform	ND	5.0	2.0	ug/l	
74-87-3	Chloromethane	ND	10	4.1	ug/l	
95-49-8	o-Chlorotoluene	ND	25	2.5	ug/l	
106-43-4	p-Chlorotoluene	ND	25	2.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	25	4.8	ug/l	
124-48-1	Dibromochloromethane [a]	ND	5.0	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	0.64	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	3.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.3	5.0	1.5	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	3.4	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0818		
Lab Sample ID:	MC47343-19	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	3.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	4.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	2.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	1.3	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	5.1	ug/l	
591-78-6	2-Hexanone	ND	50	1.8	ug/l	
74-88-4	Iodomethane	ND	25	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	25	2.5	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	2.5	ug/l	
74-95-3	Methylene bromide	ND	25	1.2	ug/l	
75-09-2	Methylene chloride	ND	10	8.9	ug/l	
91-20-3	Naphthalene [a]	ND	25	2.3	ug/l	
103-65-1	n-Propylbenzene	ND	25	3.2	ug/l	
100-42-5	Styrene	ND	25	2.3	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	5.0	1.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.64	ug/l	
127-18-4	Tetrachloroethene	637	5.0	2.2	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	3.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	1.7	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	3.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/l	
79-01-6	Trichloroethene	91.9	5.0	2.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	3.6	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	2.9	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.2	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	2.1	ug/l	
108-05-4	Vinyl Acetate [a]	ND	25	7.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	3.4	ug/l	
	m,p-Xylene	ND	5.0	2.0	ug/l	
95-47-6	o-Xylene	ND	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-129%
2037-26-5	Toluene-D8	98%		83-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0818		
Lab Sample ID:	MC47343-19	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0819		
Lab Sample ID:	MC47343-20	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99451.D	1	08/23/16	AD	n/a	n/a	MSK3077
Run #2	P88596.D	1	08/25/16	AD	n/a	n/a	MSP2928

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.0 [a]	10	2.8	ug/l	
71-43-2	Benzene	0.49	0.50	0.45	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [b]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [b]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.9	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0819		
Lab Sample ID:	MC47343-20	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	0.60	1.0	0.53	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	13.7	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	8.5	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.51	5.0	0.24	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.49	5.0	0.41	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	1.0	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	76-129%
2037-26-5	Toluene-D8	99%	96%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0819		
Lab Sample ID:	MC47343-20	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	95%	75-124%

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0820		
Lab Sample ID:	MC47343-21	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99485.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2	K99547.D	10	08/26/16	AD	n/a	n/a	MSK3080

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	0.56	1.0	0.41	ug/l	J
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	28.3	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0820		
Lab Sample ID:	MC47343-21	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	31.8	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	341 [b]	10	4.8	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	76-129%
2037-26-5	Toluene-D8	96%	95%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0820		
Lab Sample ID:	MC47343-21	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0822		
Lab Sample ID:	MC47343-22	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99479.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	0.51	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.5	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0822		
Lab Sample ID:	MC47343-22	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	7.4	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	37.4	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-129%
2037-26-5	Toluene-D8	97%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0822		
Lab Sample ID:	MC47343-22	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0823		
Lab Sample ID:	MC47343-23	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99480.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0823		
Lab Sample ID:	MC47343-23	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-129%
2037-26-5	Toluene-D8	97%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0823		
Lab Sample ID:	MC47343-23	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0824		
Lab Sample ID:	MC47343-24	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99481.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0824		
Lab Sample ID:	MC47343-24	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-129%
2037-26-5	Toluene-D8	95%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0824		
Lab Sample ID:	MC47343-24	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0825		
Lab Sample ID:	MC47343-25	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99486.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.7	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0825		
Lab Sample ID:	MC47343-25	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	7.0	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	40.3	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-129%
2037-26-5	Toluene-D8	97%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0825		
Lab Sample ID:	MC47343-25	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0828		
Lab Sample ID:	MC47343-26	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99511.D	2	08/25/16	AD	n/a	n/a	MSK3079
Run #2	K99491.D	4	08/24/16	AD	n/a	n/a	MSK3078

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	5.6	ug/l	
71-43-2	Benzene	ND	1.0	0.89	ug/l	
108-86-1	Bromobenzene	ND	10	0.71	ug/l	
74-97-5	Bromochloromethane	ND	10	0.69	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.61	ug/l	
75-25-2	Bromoform [a]	ND	2.0	0.65	ug/l	
74-83-9	Bromomethane	ND	4.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	20	3.9	ug/l	
104-51-8	n-Butylbenzene	ND	10	1.2	ug/l	
135-98-8	sec-Butylbenzene	ND	10	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.2	ug/l	
75-15-0	Carbon disulfide	ND	10	2.4	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.60	ug/l	
75-00-3	Chloroethane	ND	4.0	1.2	ug/l	
67-66-3	Chloroform	ND	2.0	0.81	ug/l	
74-87-3	Chloromethane	ND	4.0	1.7	ug/l	
95-49-8	o-Chlorotoluene	ND	10	0.99	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.95	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.79	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.77	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.79	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.95	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.2	ug/l	
156-59-2	cis-1,2-Dichloroethene	16.8	2.0	0.59	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	1.4	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0828		
Lab Sample ID:	MC47343-26	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	10	1.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.0	ug/l	
591-78-6	2-Hexanone	ND	20	0.72	ug/l	
74-88-4	Iodomethane	ND	10	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	10	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	1.0	ug/l	
74-95-3	Methylene bromide	ND	10	0.46	ug/l	
75-09-2	Methylene chloride	ND	4.0	3.5	ug/l	
91-20-3	Naphthalene	ND	10	0.90	ug/l	
103-65-1	n-Propylbenzene	ND	10	1.3	ug/l	
100-42-5	Styrene	ND	10	0.91	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethene	249	2.0	0.89	ug/l	
108-88-3	Toluene	ND	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	0.67	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.42	ug/l	
79-01-6	Trichloroethene	16.5 [b]	4.0	1.9	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.2	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	0.83	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.4	ug/l	
	m,p-Xylene	ND	2.0	0.80	ug/l	
95-47-6	o-Xylene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	76-129%
2037-26-5	Toluene-D8	92%	94%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0828		
Lab Sample ID:	MC47343-26	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	92%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0830		
Lab Sample ID:	MC47343-27	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99487.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2	K99514.D	10	08/25/16	AD	n/a	n/a	MSK3079

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	17.3	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0830		
Lab Sample ID:	MC47343-27	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	414 [b]	10	4.5	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	7.3	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	76-129%
2037-26-5	Toluene-D8	96%	95%	83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0830		
Lab Sample ID:	MC47343-27	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%	94%	75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0831		
Lab Sample ID:	MC47343-28	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K99484.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [b]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [b]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	67.1	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.81	1.0	0.50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0831		
Lab Sample ID:	MC47343-28	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [b]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [b]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	4.1	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	13.8	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [b]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-129%
2037-26-5	Toluene-D8	93%		83-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0831		
Lab Sample ID:	MC47343-28	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		75-124%

(a) Sample received and analyzed with bubble > 6mm.
(b) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0836		
Lab Sample ID:	MC47343-29	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99482.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.72	1.0	0.29	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0836		
Lab Sample ID:	MC47343-29	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.66	1.0	0.48	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-129%
2037-26-5	Toluene-D8	96%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0836		
Lab Sample ID:	MC47343-29	**Date Sampled:**	08/15/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0839		
Lab Sample ID:	MC47343-30	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99483.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0839		
Lab Sample ID:	MC47343-30	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-129%
2037-26-5	Toluene-D8	97%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0839		
Lab Sample ID:	MC47343-30	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0851		
Lab Sample ID:	MC47343-31	**Date Sampled:**	08/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K99472.D	1	08/24/16	AD	n/a	n/a	MSK3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.33	ug/l	
74-83-9	Bromomethane	ND	2.0	0.50	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.59	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.58	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.66	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.30	ug/l	
75-00-3	Chloroethane	ND	2.0	0.62	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	0.83	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.49	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.47	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	5.0	0.96	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.38	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.46	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.65	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.60	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.29	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.69	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0851		
Lab Sample ID:	MC47343-31	**Date Sampled:**	08/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.69	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.84	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.54	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	0.36	ug/l	
74-88-4	Iodomethane	ND	5.0	0.78	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.8	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.45	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.63	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane [a]	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.45	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.33	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.68	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.72	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.41	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	1.5	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.69	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-129%
2037-26-5	Toluene-D8	95%		83-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0851		
Lab Sample ID:	MC47343-31	**Date Sampled:**	08/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		75-124%

(a) Continuing Calibration outside of acceptance criteria. Reporting Limit response verified by low-level standard.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47343

No: 08/16/16-0027
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-1	128M-0792	ERT-33S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	31.4 ppb historical data	N
-2	128M-0793	ERT-33I	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	6.4 ppm historical data	N
-3	128M-0794	ERT-33D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	2.1 ppm historical data	N
-4	128M-0795	ERT-42S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	12.3 ppm historical data	N
-5	128M-0797	MW-04D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	ND historical data	N
-6	128M-0798	MW-04S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2		N
-7	128M-0800	ERT-35D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	<5 ppb historical data	N
-8	128M-0802	ERT-35I	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	2.2 ppb historical data	N
-9	128M-0803	ERT-35S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	0.6 ppm historical data	N
-10	128M-0804	MW-07	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	1.5 ppm historical data	N

Special Instructions: YC2, YC3

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENVIRONMENTAL TECH.	8/16/16 1900	FedEx		
	FedEx	09:30 8/17/16			
				INITIAL ASSESSMENT	
				LABEL VERIFICATION	

Rec 4.30

4.1
4

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47343

No: 08/16/16-0027
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-11	128M-0805	MW-11	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2		N
-12	128M-0807	ERT-34S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	4 ppm historical data	N
-13	128M-0808	ERT-34I	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	500 ppb historical data	N
-14	128M-0812	ERT-34D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	2.6 ppm historical data	N
-15	128M-0814	ERT-37S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	17 ppb historical data	N
-16	128M-0815	ERT-137S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	17 ppb historical data	N
-17	128M-0816	ERT-37D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	11 ppb historical data	N
-18	128M-0817	ERT-37I	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	196 ppb historical data	N
-19	128M-0818	ERT-41I	(VOA) Volatile Organics.	Groundwater	8/15/2016	6	40 mL glass w/septum	Ice + HCl pH <2	1200 ppb historical data	Y
-20	128M-0819	ERT-41S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	14 ppb historical data	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENV. TECH.	8/16/16 1900	FEDEX		
	FEDEX	8/17/16 09:30			

Rec 4.30

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47343

No: 08/16/16-0027
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-21	128M-0820	ERT-41D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	52 ppb historical data	N
-22	128M-0822	ERT-40I	(VOA) Volatile Organics.	Groundwater	8/15/2016	6	40 mL glass w/septum	Ice + HCl pH <2	3.9 ppb historical data	Y
-23	128M-0823	ERT-40S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	5 ppb historical data	N
-24	128M-0824	ERT-140S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	5 ppb historical data	N
-25	128M-0825	ERT-40D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	81 ppb historical data	N
-26	128M-0828	ERT-36S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	700 ppb historical data	N
-27	128M-0830	ERT-43S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	120 ppb historical data	N
-28	128M-0831	ERT-43I	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	8.3 ppb historical data	N
-29	128M-0836	MW-13S	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	5 ppb historical data	N
-30 ~~-30~~	128M-0839	MW-13D	(VOA) Volatile Organics.	Groundwater	8/15/2016	3	40 mL glass w/septum	Ice + HCl pH <2	5 ppb historical data	N

TF 8/18/16

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES/ ALL ANALYSIS	Nicholas S Minute MATRIX ENV. TECH. INC.	8/16/16 1100	FEDEX		
	FEDEX	8/17/16 09:30	[illegible]		

REC 4.30

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47343

No: 08/16/16-0027
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
-31 ~~-30~~	128M-0851	TB-01	(VOA) Volatile Organics.	Trip Blank Water	8/16/2016	3	40 mL glass w/septum	Ice + HCl pH <2		N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Nicholas S Minute Matrix Env. Tech	8/16/16	[illegible]		

SGS Accutest Sample Receipt Summary

Job Number: MC47343 **Client:** MATRIX **Project:** CROWN CLEANERS

Date / Time Received: 8/17/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 7883 4359 9385

Cooler Temps (Initial/Adjusted): #1: (4.3/4.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IRGUN1
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☑	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample rec'd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-25 "128M-0825": 2 of 3 vials received have bubble >6mm. (25.2, 25.3)
-28 "128M-0831": All 3 vials received have bubble >6mm. (28.1, 28.2, 28.3)

*Note: COC did not have collection times. Collection times were obtained from sample labels.

Sample Receipt Summary - Problem Resolution

Job Number: MC47343

CSR: Rob Soll **Response Date** 8/19/2016

Response: Proceed, per email on file.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix Environmental Technologies, Inc.

Crown Cleaners, Carthage, NY

SGS Accutest Job Number: MC47340

Sampling Date: 08/16/16

Report to:

Matrix Environmental
238 Bay Road
Queensbury, NY 12804
nminute@matrixbiotech.com; analytical@matrixbiotech.com

ATTN: Nick Minute

Total number of pages in report: 24

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Table of Contents

-1-

SGS Accutest

Sample Summary

Matrix Environmental Technologies, Inc.

Job No: MC47340

Crown Cleaners, Carthage, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC47340-1	08/16/16	11:20		08/17/16	AQ	Ground Water	128M-0848
MC47340-1F	08/16/16	11:20		08/17/16	AQ	Groundwater Filtered	128M-0848
MC47340-2	08/16/16	11:20		08/17/16	AQ	Ground Water	128M-0849
MC47340-2F	08/16/16	11:20		08/17/16	AQ	Groundwater Filtered	128M-0849
MC47340-3	08/16/16	12:15		08/17/16	AQ	Ground Water	128M-0852
MC47340-3F	08/16/16	12:15		08/17/16	AQ	Groundwater Filtered	128M-0852

2

Summary of Hits

Job Number: MC47340
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC47340-1	**128M-0848**					
Carbon Dioxide		407	100	84	ug/l	RSK-175
Barium		111	50	0.57	ug/l	SW846 6010C
Chromium		3.1 B	10	1.1	ug/l	SW846 6010C
Iron		974	100	16	ug/l	SW846 6010C
Nickel		1.7 B	40	0.35	ug/l	SW846 6010C
Zinc		12.8 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		126	5.0		mg/l	SM21 2320B
Chloride		27.5	1.0		mg/l	SM 4500 CL C-11
Specific Conductivity		426	0.50		umhos/cm	EPA 120.1
Sulfate		49.0	10		mg/l	ASTM516-90,02
MC47340-1F	**128M-0848**					
Barium		64.3	50	0.57	ug/l	SW846 6010C
Iron		40.5 B	100	16	ug/l	SW846 6010C
Nickel		0.50 B	40	0.35	ug/l	SW846 6010C
Zinc		17.0 B	20	1.0	ug/l	SW846 6010C
MC47340-2	**128M-0849**					
Carbon Dioxide		269	100	84	ug/l	RSK-175
Barium		60.5	50	0.57	ug/l	SW846 6010C
Iron		53.1 B	100	16	ug/l	SW846 6010C
Zinc		16.8 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3		126	5.0		mg/l	SM21 2320B
Chloride		26.0	1.0		mg/l	SM 4500 CL C-11
Specific Conductivity		420	0.50		umhos/cm	EPA 120.1
Sulfate		48.2	10		mg/l	ASTM516-90,02
MC47340-2F	**128M-0849**					
Antimony		1.3 B	6.0	1.2	ug/l	SW846 6010C
Barium		70.6	50	0.57	ug/l	SW846 6010C
Cadmium		0.30 B	4.0	0.30	ug/l	SW846 6010C
Chromium		1.6 B	10	1.1	ug/l	SW846 6010C
Copper		4.4 B	25	4.2	ug/l	SW846 6010C
Iron		484	100	16	ug/l	SW846 6010C
Nickel		1.2 B	40	0.35	ug/l	SW846 6010C
Zinc		34.5	20	1.0	ug/l	SW846 6010C
MC47340-3	**128M-0852**					
Carbon Dioxide		1890	100	84	ug/l	RSK-175

Summary of Hits

Job Number: MC47340
Account: Matrix Environmental Technologies, Inc.
Project: Crown Cleaners, Carthage, NY
Collected: 08/16/16

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Barium	587	50	0.57	ug/l	SW846 6010C
Iron	316	100	16	ug/l	SW846 6010C
Nickel	0.60 B	40	0.35	ug/l	SW846 6010C
Zinc	10.2 B	20	1.0	ug/l	SW846 6010C
Alkalinity, Total as CaCO3	270	5.0		mg/l	SM21 2320B
Chloride	220	10		mg/l	SM 4500 CL C-11
Specific Conductivity	1180	0.50		umhos/cm	EPA 120.1
Sulfate	15.6	5.0		mg/l	ASTM516-90,02
MC47340-3F 128M-0852					
Barium	615	50	0.57	ug/l	SW846 6010C
Iron	307	100	16	ug/l	SW846 6010C
Nickel	1.5 B	40	0.35	ug/l	SW846 6010C
Zinc	30.6	20	1.0	ug/l	SW846 6010C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	128M-0848		
Lab Sample ID:	MC47340-1	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24144.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	407	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0848		
Lab Sample ID:	MC47340-1	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	111	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	3.1 B	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	974	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.7 B	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	12.8 B	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0848		
Lab Sample ID:	MC47340-1	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	126	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	27.5	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/17/16 19:04	MC	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 11:59	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 11:59	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/17/16 18:06	CF	SM 21 4500 NO2 B
Specific Conductivity	426	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	49.0	10	mg/l	2	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/18/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0848		
Lab Sample ID:	MC47340-1F	**Date Sampled:**	08/16/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	64.3	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	40.5 B	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	0.50 B	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	17.0 B	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0849		
Lab Sample ID:	MC47340-2	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24145.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	269	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0849		
Lab Sample ID:	MC47340-2	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	60.5	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	53.1 B	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	0.35 U	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	16.8 B	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0849		
Lab Sample ID:	MC47340-2	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	126	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	26.0	1.0	mg/l	1	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/17/16 19:04	MC	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 12:00	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 12:00	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/17/16 18:06	CF	SM 21 4500 NO2 B
Specific Conductivity	420	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	48.2	10	mg/l	2	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/18/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0849		
Lab Sample ID:	MC47340-2F	**Date Sampled:**	08/16/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.3 B	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	70.6	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 B	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.6 B	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.4 B	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	484	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.2 B	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	34.5	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0852		
Lab Sample ID:	MC47340-3	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
Method:	RSK-175	**Percent Solids:**	n/a
Project:	Crown Cleaners, Carthage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BA24146.D	1	08/19/16	DF	n/a	n/a	GBA1652
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	37.0 ml	5.0 ml	200 ul	23 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	10	4.9	ug/l	
124-38-9	Carbon Dioxide	1890	100	84	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	128M-0852		
Lab Sample ID:	MC47340-3	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	587	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	316	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	0.60 B	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	10.2 B	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	128M-0852		
Lab Sample ID:	MC47340-3	**Date Sampled:**	08/16/16
Matrix:	AQ - Ground Water	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	270	5.0	mg/l	1	08/20/16	CF	SM21 2320B
Chloride	220	10	mg/l	10	08/26/16	EL	SM 4500 CL C-11
Iron, Ferrous [a]	< 0.10	0.10	mg/l	1	08/17/16 19:04	MC	SM21 3500FE B
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	08/24/16 12:01	MC	EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	08/24/16 12:01	MC	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	08/17/16 18:06	CF	SM 21 4500 NO2 B
Specific Conductivity	1180	0.50	umhos/cm	1	08/19/16	EL	EPA 120.1
Sulfate	15.6	5.0	mg/l	1	08/25/16	HS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	08/18/16	BF	SM21 4500 S F

(a) Analysis is field recommended as per method.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	128M-0852		
Lab Sample ID:	MC47340-3F	**Date Sampled:**	08/16/16
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/17/16
		Percent Solids:	n/a
Project:	Crown Cleaners, Carthage, NY		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.2 U	6.0	1.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	2.0 U	4.0	2.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Barium	615	50	0.57	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	0.34 U	4.0	0.34	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	0.30 U	4.0	0.30	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.1 U	10	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Copper	4.2 U	25	4.2	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Iron	307	100	16	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Lead	1.1 U	5.0	1.1	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	0.034	ug/l	1	08/18/16	08/18/16	EAL	SW846 7470A [1]	SW846 7470A [3]
Nickel	1.5 B	40	0.35	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Selenium	3.4 U	10	3.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Silver	1.4 U	5.0	1.4	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.8 U	5.0	1.8	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]
Zinc	30.6	20	1.0	ug/l	1	08/18/16	08/19/16	EAL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA19394
(2) Instrument QC Batch: MA19397
(3) Prep QC Batch: MP26643
(4) Prep QC Batch: MP26645

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2 OF 2

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47340

No: 08/16/16-0028
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0848	MW-13S	Metals (Total)	Groundwater	8/16/2016	1	250 mL Poly	HNO3 to pH<2		N
	128M-0848	MW-13S	Metals (Dissolved)	Groundwater	8/16/2016	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0848	MW-13S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/16/2016	1	250 mL Poly	None		N
-1F	128M-0848	MW-13S	Methane	Groundwater	8/16/2016	2	40 mL glass w/septum	HCl pH <2		N
	128M-0848	MW-13S	Sulfide	Groundwater	8/16/2016	2	250 mL Poly	ZnAcetate+NaOH		N
	128M-0848	MW-13S	Nitrate	Groundwater	8/16/2016	1	250 mL Poly	H2SO4		N
	128M-0848	MW-13S	Carbon Dioxide	Groundwater	8/16/2016	2	40 mL glass w/septum	None		N
	128M-0848	MW-13S	Nickel + Iron	Groundwater	8/16/2016	1	250 mL Poly	HNO3 to pH<2		N
	128M-0849	MW-113S	Metals (Total)	Groundwater	8/16/2016	1	250 mL Poly	HNO3 to pH<2		N
-2F	128M-0849	MW-113S	Metals (Dissolved)	Groundwater	8/16/2016	1	250 mL Poly	Filter, HNO3 to pH<2		N
	128M-0849	MW-113S	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/16/2016	1	250 mL Poly	None		N

Special Instructions: 4B4, 9B, 6D.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas S Minute MATRIX ENVTECH INC	8/16/16 1900	FedEx		
	FedEx	8/17/16 09:30	[illegible]	INITIAL ASESSMENT	
				LABEL VERIFICATION	

5.2°
0.0°C

4.1
4

MC47340: Chain of Custody
Page 1 of 5

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47340

No: 08/16/16-0028
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0849	MW-113S	Methane	Groundwater	8/16/2016	2	40 mL glass w/septum	HCl pH <2		N
	128M-0849	MW-113S	Sulfide	Groundwater	8/16/2016	2	250 mL Poly	ZnAcetate+NaOH		N
-2F	128M-0849	MW-113S	Nitrate	Groundwater	8/16/2016	1	250 mL Poly	H2SO4		N
	128M-0849	MW-113S	Carbon Dioxide	Groundwater	8/16/2016	2	40 mL glass w/septum	None		N
	128M-0849	MW-113S	Nickel + Iron	Groundwater	8/16/2016	1	250 mL Poly	HNO3 to pH<2		N
	128M-0852	MW-13D	Metals (Total)	Groundwater	8/16/2016	2	250 mL Poly	HNO3 to pH<2		Y
	128M-0852	MW-13D	Metals (Dissolved)	Groundwater	8/16/2016	2	250 mL Poly	Filter, HNO3 to pH<2		Y
	128M-0852	MW-13D	Alkalinity, Cl-, SO4, Ferrous Iron, Sp Conductance	Groundwater	8/16/2016	2	250 mL Poly	None		Y
-3F	128M-0852	MW-13D	Methane	Groundwater	8/16/2016	4	40 mL glass w/septum	HCl pH <2		Y
	128M-0852	MW-13D	Sulfide	Groundwater	8/16/2016	4	250 mL Poly	ZnAcetate+NaOH		Y
	128M-0852	MW-13D	Nitrate	Groundwater	8/16/2016	2	250 mL Poly	H2SO4		Y

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas Minute MATRIX ENV. TECH INC	8/16/16 1900	FEDEX		
	FEDEX	8/17/16 09:30			

5.2°

MC47340: Chain of Custody
Page 2 of 5

Matrix Environmental Technologies, Inc.
DateShipped: 8/16/2016
CarrierName: FedEx
AirbillNo: 8042 4169 2607

CHAIN OF CUSTODY RECORD
Crown Cleaners/NY
Contact Name: Nicholas Minute
Contact Phone: (716) 432-4345

MC47340

No: 08/16/16-0028
Cooler #: 1 of 1
Lab: SGS Accutest of New England
Lab Phone: 5084816200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample_Remarks	Lab QC
	128M-0852	MW-13D	Carbon Dioxide	Groundwater	8/16/2016	4	40 mL glass w/septum	None		Y
-3A	128M-0852	MW-13D	Nickel + Iron	Groundwater	8/16/2016	2	250 mL Poly	HNO3 to pH<2		Y

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	Nicholas Minute MATRIX ENV'TECH	8/16/16 1900	FedEx		
	FedEx	8/17/16 09:30	[signature]		

5.2°

SGS Accutest Sample Receipt Summary

Job Number: MC47340 **Client:** MATRIX ENV **Project:** CROWN CLEANERS

Date / Time Received: 8/17/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8042 4169 2607

Cooler Temps (Initial/Adjusted): #1: (5.2/5.2);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IRGUN1
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	
2. Trip Blank listed on COC:	☐	☑	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample rec'd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Collection times are as follows per sample labels. Times were not noted on COC.

-1 "128M-048 / MW-13S" 11:20
-2 "128M-0849 / MW-113S" 11:20
-3 "128M-0852 / MW-13D" 12:15

4.1

4

Sample Receipt Summary - Problem Resolution

Job Number: MC47340

CSR: Rob Soll **Response Date** 8/19/2016

Response: Proceed, per email on file.