



Phase 2 Environmental Site Assessment Report

**Oak Park Properties, LLC (Kessenich's)
125 and 131 S Fair Oaks Avenue
Madison, Wisconsin**

Prepared for:

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SCS ENGINEERS

November 2, 2016
File No. 25216180.00

Mr. Michael Thorson
Inventure Capital LLC
2820 Walton Commons West, Suite 125
Madison, WI 53718

Subject: Phase 2 Environmental Site Assessment Report
Oak Park Properties, LLC Property (Kessenich's)
125 and 131 S. Fair Oaks Avenue, Madison, Wisconsin

Dear Mr. Thorson:

SCS Engineers (SCS) is pleased to present the results of a Phase 2 Environmental Site Assessment (ESA) conducted at the Oak Park Properties, LLC property located at 125 and 131 S. Fair Oaks Avenue, Madison, Wisconsin. SCS conducted a Phase 1 ESA on the property in October 2016. This Phase 2 ESA was performed as a follow-up to the findings of the Phase 1 ESA. The investigation findings are discussed in greater detail below.

BACKGROUND

The Property is currently owned by Oak Park Properties, LLC, and is managed by Cheri Miller. It is operated as Kessenich's Ltd., a food service equipment and supply store. A small, fenced area in the northern corner of the Property is leased as a communications utility switching station. The southern part of the main building on the property is primarily the offices and showroom, and the northern part of the building is primarily the warehouse. Customer parking is located south of the building, on a lot leased from the adjoining railroad. Additional parking for employees and loading docks are present along the eastern face of the building.

The available records indicate that the Property was initially developed in about 1900 as a farm machinery manufacturer (American Plow Co). About 10 years later it was converted to Madison Plow Company and operated in much the same manner. A fire on November 19, 1950 damaged parts of the factory, and the company ceased operations in 1951. Red Dot Foods, a potato chip and snack foods company, also known as "Circle M" Foods, operated at the Property beginning in 1952. Red Dot Foods sold the Property to Kessenich's in 1961, which has operated there ever since.

The 2016 Phase 1 ESA identified the following recognized environmental conditions (RECs) in connection with property:

1. The potential for historical fill material on the Property that may contain contaminants.



2. The historical presence of a 10,000-gallon fuel tank that was likely filled from rail cars, the transfer of fuel oil from the tank to the building via a pipe, and the potential for the historical use of solvents in the metal manufacturing and painting process.
3. The presence of residual soil and groundwater contamination related to the closed Kessenich's Ltd. leaking underground storage tank (LUST) site and the potential for subsurface petroleum vapors on the Property.
4. The residual petroleum contamination on the adjoining property to the west at 166 S. Fair Oaks Avenue and the potential for chlorinated volatile organic compound (CVOC)-contaminated groundwater from the Madison Kipp Corp open Environmental Repair Program (ERP) site, with the shallow groundwater flow direction toward the Property.
5. Pole-mounted transformers located near the northeast side of the Property building may be a source for a release of polychlorinated biphenyls (PCBs)-containing oil.

LOCAL SOILS, GEOLOGY, AND HYDROGEOLOGY

A review of the 2013 USGS Madison East Quadrangle, Wisconsin topographic map reveals the Property is located approximately 850 feet above mean sea level. A portion of the topographic map is included as **Figure 1**.

Groundwater was observed in the soil borings as shallow as 2 feet below ground surface (bgs) to as deep as 6.5 feet bgs. Groundwater flow was identified in nearby LUST investigations, including the on-site case, towards Starkweather Creek, varying from the southeast to the northeast.

Observed soils generally consisted of poorly graded sand and gravel (non-native fill), highly organic silt (peat), poorly graded sand, silt, silty sand, and lean clay.

INVESTIGATION SUMMARY

Soil Investigation

SCS supervised the installation of 14 direct-push soil borings (G-1 to G-14) at the property on October 11, 2016, and collected soil and groundwater samples for laboratory analysis. **Figure 2** shows the boring locations along with other site features. The soil borings were each extended to a depth of 10 feet bgs and were abandoned consistent with Chapter NR 141, Wis. Adm. Code requirements.

During the soil boring activities, SCS logged each borehole, performed headspace screening, and collected soil samples for laboratory analysis. Soil samples were collected continuously at each boring and screened with a photoionization detector for the presence of volatile organic compounds (VOCs) in the field. Soil samples were examined for evidence of contamination.

Information for each completed soil boring was recorded directly on a standard soil boring log form. Soil classification, sample recovery length, headspace screening results, and moisture content were recorded. The soil boring logs and borehole abandonment forms are included in **Attachment A**.

One soil sample was collected from each soil boring and submitted to TestAmerica for analysis. All soil samples were analyzed for VOCs. Selected soil samples were also analyzed for polycyclic aromatic hydrocarbons (PAHs), PCBs, and the following metals: arsenic, barium, cadmium, total chromium, and lead.

Groundwater Investigation

SCS collected groundwater samples from four of the 14 soil borings (G-1, G-4, G-8, and G-11). Boring locations are shown on **Figure 2**. Groundwater samples were analyzed for VOCs. Groundwater collected from both G-5 and G-13 contained significant free-phase petroleum product (potentially fuel oil) making the samples unsuitable for laboratory analysis.

FIELD OBSERVATIONS

Evidence of separate phase petroleum product (some type of heavy oil) floating on the water table was observed in the field in borings G-1, G-2, G-5, G-13, and possibly G-4, G-6, and G-14. Strong petroleum odors were noted in the shallow soil in many of the borings on the northern half of the Property.

Non-native fill soil (including cinders) was present in most of the borings at depths ranging from 4 to 7.5 feet below the present ground surface.

ANALYTICAL RESULTS

Separate analytical laboratory reports for soil and groundwater samples are included in **Attachment B**.

Groundwater Analytical Results

Groundwater analytical data are summarized in **Table 1**. Groundwater concentrations were compared to the NR 140 enforcement standards (ES) and preventive action limits (PALs). Four compounds were detected in groundwater at levels greater than the PALs: benzene, chloromethane, tetrachloroethylene (PCE), and vinyl chloride. One vinyl chloride concentration was greater than the ES. Low level detections below the PALs were reported in G-1 and G-11. Analytical results for individual groundwater contaminants are discussed in detail below.

Groundwater Contaminant Summary

- Vinyl chloride was detected at a concentration of 0.65 micrograms per liter ($\mu\text{g/L}$) in sample G-1, which is greater than the ES of 0.2 $\mu\text{g/L}$.
- PCE, a common chlorinated solvent, was detected at concentrations below the PAL in each of the four samples.
- Chloromethane was detected at levels greater than the PAL in two of the four samples.
- Benzene was detected in G-1 at a concentration greater than the PAL.

Soil Analytical Results

Soil analytical data are summarized in **Table 2**, **Table 3**, and **Table 4**. Soil concentrations were compared to the NR 720 residual contaminant levels (RCLs) established by the Wisconsin Department of Natural Resources (WDNR) for protection of groundwater quality and direct contact.

Seven PAH compounds were detected at concentrations greater than their respective RCLs in one or more of the five samples analyzed for PAHs. Many of the PAH concentrations that appeared to exceed RCLs were estimated concentrations, where the concentration is below the minimum laboratory quantitation limit (MQL). In the case of these estimated concentrations, there is some uncertainty about whether the RCL has been exceeded. Two PAHs, benzo(b)fluoranthene and benzo(a)pyrene, clearly exceeded non-industrial property use direct contact RCLs.

The metals arsenic, barium, cadmium, and lead were detected in one or more of the four samples analyzed at concentrations greater than their RCLs for the groundwater pathway. The concentrations of arsenic, barium, and cadmium were below or just slightly above background threshold values (BTVs) and may be attributed to naturally occurring soil constituents. Elevated lead concentrations were detected in only one sample. Additional analysis of the sample with elevated lead showed that the leachable lead concentration is within acceptable limits for landfill disposal.

Three VOCs were detected at concentrations greater than the groundwater pathway RCLs: benzene, naphthalene, and PCE. Benzene exceeded the RCL in five samples. PCE and naphthalene each exceeded their corresponding RCLs in one sample: PCE in G-6 and naphthalene in G-5.

Analytical results for individual soil contaminants are discussed in detail below.

Detected Soil Contaminants

- Benzo(a)anthracene and benzo(a)pyrene were detected in multiple samples at concentrations greater than their direct contact RCLs. Estimated concentrations of three other PAH compounds were reported above the direct contact RCLs.

- Chrysene and naphthalene were reported at estimated concentrations greater than their groundwater protection RCLs in G-1 and G-14, respectively.
- Naphthalene via VOC was detected via VOC analysis in G-5 at an estimated concentration greater than the groundwater protection RCL (see **Table 4**).
- Arsenic was detected in all of the soil borings at concentrations greater than the direct contact and groundwater protection RCLs. However, only the result from G-4 (11 milligrams per kilogram [mg/kg]) exceeded the background threshold value of 8 mg/kg.
- Barium was detected in G-6 at a concentration greater than the RCL for groundwater protection; however, the concentration was below the BTV.
- Cadmium was detected at concentrations greater than the RCL for groundwater protection in two soil borings (G-4 and G-6). Both results were slightly greater than the BTV.
- Lead was detected in sample G-4 at a concentration (1,300 mg/kg) greater than the RCLs for groundwater protection and direct contact. Further analysis of this sample showed a leachable concentration of 0.7 milligrams per liter (mg/L), which is much less than the hazardous waste limit of 5.0 mg/L.
- PCB compounds were not detected in the two samples submitted for analysis (G-5 and G-6). These results were not tabulated.
- Benzene was detected in five samples at concentrations greater than the groundwater protection RCL. The highest concentration was reported in the sample collected at G-6.
- PCE was detected in one sample (G-6) at a concentration of 1,200 micrograms per kilogram ($\mu\text{g}/\text{kg}$), which is greater than the groundwater protection RCL. The detected concentration of PCE would not be considered hazardous for disposal purposes. The 20 times dilution factor in the leaching test protocol would produce a PCE concentration well below the hazardous waste limit of 0.7 mg/L.

FINDINGS AND CONCLUSIONS

- Based on the history of the Property, a soil and groundwater investigation was completed to determine the potential environmental impacts of historical uses of the property.
- The analytical results show that soil contamination exceeding WDNR NR 720 RCLs is present in the soil at the site.

- The analytical results indicate one groundwater sample that exceeds the ES for vinyl chloride.
- The field observations indicate the presence of free-phase petroleum product and strong petroleum odors over a significant portion of the northern part of the Property. The product may extend below a portion of the building. Field observations were consistent with fuel oil free-phase product. The presence of fuel oil contamination at the site may be attributable to a potentially significant release from the historical 10,000-gallon fuel oil storage tank system in that area.
- Fill soil with debris is present at most locations on the Property. The thickness of non-native fill ranges few inches to more than 7 feet, and is about 4 to five 5 thick on average.
- If excavated, the fill soils with debris will need to be handled as special waste and disposed at a licensed solid waste landfill. Additional soil testing would likely be required if soil disposal at other than a licensed solid waste landfill were to be considered by the WDNR under an NR 500 solid waste exemption for low-hazard waste.
- The presence of PCE in soil in G-6 at concentrations greater than the RCL indicates a release of solvents, which is consistent with concerns related to the historical use in that area. Vinyl chloride, observed in the groundwater at G-1 at a concentration greater than the ES, is a breakdown product of PCE. These two concentrations may be linked and may be an indication of a solvent release in the area.
- The analytical results are indicative of multiple releases at the Property, including fuel oil and solvents. The Wisconsin Spills law requires that these releases be reported to the WDNR and appropriate follow-up actions be completed to address these releases to prevent further impacts to human health and the environment.
- The PAH and metals contamination detected in the soil at the property are common in the Madison urban environment and will likely not be a significant concern to WDNR. These types of contaminants may be capped in place to achieve regulatory closure.
- Overall detected concentrations of petroleum constituents in soil and groundwater were relatively low. However, WDNR typically requires some level of effort to remove separate phase product as a prerequisite for case closure.
- WDNR will very likely require additional investigation to identify the full nature and extent of the solvent (PCE and vinyl chloride) contamination in soil and groundwater.

Please feel free to contact us at (608) 224-2830 if you have any questions regarding this report.

Sincerely,



Jackie DeBruyne
Associate Scientist
SCS ENGINEERS



Tony Kollasch
Senior Hydrogeologist
SCS ENGINEERS

JD/TJK/lmh/EO

Enclosures: Table 1 – Groundwater Analytical Results Summary – Detected VOCs
Table 2 – Soil Analytical Results Summary – PAHs
Table 3 – Soil Analytical Results Summary – Metals
Table 4 – Soil Analytical Results Summary – VOCs
Figure 1 – Site Location Map
Figure 2 – Site Plan
Attachment A – Soil Boring Logs and Abandonment Forms
Attachment B – Analytical Laboratory Reports

TABLES

- 1 Groundwater Analytical Results Summary – Detected VOCs
- 2 Soil Analytical Results Summary – PAHs
- 3 Soil Analytical Results Summary – Metals
- 4 Soil Analytical Results Summary – VOCs

Table 1. Groundwater Analytical Results Summary - Detected VOCs
Kessenich's Property, 131 S. Fair Oaks Ave., Madison, WI / SCS Engineers Project #25216180.00
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloromethane	cis-1,2-Dichloroethylene	Isopropylbenzene	n-Propylbenzene	Tetrachloroethylene	Toluene	TMBs	Vinyl Chloride	Xylenes
G-1	10/11/2016	--	<u>2.9</u>	1.3	0.79 J	<u>8.0</u>	1.5	1.4	1.6	<u>0.77</u> J	0.53	0.79 J	<u>0.65</u>	1.7
G-4	10/11/2016	--	<0.15	<0.39	<0.40	<u>6.9</u>	<0.41	<0.39	<0.41	<u>0.64</u> J	<0.15	<0.61	<0.20	<0.22
G-8	10/11/2016	--	<0.15	<0.39	<0.40	<0.32	<0.41	<0.39	<0.41	<u>1.0</u>	0.42 J	<0.61	<0.20	<0.22
G-11	10/11/2016	--	<0.15	0.92 J	0.46 J	0.92 J	<0.41	0.62 J	2.7	<u>0.82</u> J	0.48 J	2.3	<0.20	0.70 J
Trip Blank	10/11/2016	--	<0.15	<0.39	<0.40	<0.32	<0.41	<0.39	<0.41	<0.37	<0.15	<0.61	<0.20	<0.22
NR 140 Enforcement Standards			5	NE	NE	30	70	NE	NE	5	800	480	0.2	2,000
NR 140 Preventive Action Limits			0.5	NE	NE	3	7	NE	NE	0.5	160	96	0.02	400

Abbreviations:

µg/L = micrograms per liter or parts per billion (ppb)
 TMBs = 1,2,4- and 1,3,5-trimethylbenzenes
 NA = Not Analyzed
 -- = Not Applicable

DRO = Diesel Range Organics
 MTBE = Methyl-tert-butyl ether
 ND = Not Detected

GRO = Gasoline Range Organics
 VOCs = Volatile Organic Compounds
 NE = No Standard Established

Notes:

NR 140 Enforcement Standards - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from January 2012.

NR 140 Preventive Action Limits - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from January 2012.

Bold+underlined values meet or exceed NR 140 enforcement standards.

Italic+underlined values meet or exceed NR 140 preventive action limits.

Laboratory Notes/Qualifiers:

* = LCS or LCSD is outside acceptance limits.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

F1 = MS and/or MSD Recovery is outside acceptance limits.

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Table 2. Soil Analytical Results Summary - PAHs
Kessenich's Property, 131 S. Fair Oaks Ave., Madison, WI / SCS Engineers Project #25216180.00
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
G-1	10/11/2016	3.5	--	<70	<52	72 J	<u>300</u> J	<u>470</u>	170 J	<u>300</u> J	150 J	<u>370</u> J	<u>82</u> J	710	<55	<u>150</u> J	<96	90 J	67 J	410	790
G-4	10/11/2016	2	--	<7.6	9.2 J	8.1 J	42	64	36 J	<u>50</u>	32 J	53	12 J	54	<5.9	33 J	33 J	40 J	19 J	53	53
G-6	10/11/2016	3.5	--	26 J	<5.3	96	120	63	14 J	<u>62</u>	13 J	110	<7.8	100	41	11 J	940	1,500	360	750	140
G-12	10/11/2016	1.8	--	13 J	6.8 J	17 J	64	77	29 J	<u>61</u>	38 J	65	8.8 J	110	9.1 J	31 J	37 J	50 J	25 J	79	110
G-13	10/11/2016	2	--	<6.4	<4.7	7.4 J	96	<u>150</u>	70	<u>140</u>	130	140	<u>24</u> J	130	<5.0	48	<8.7	8.4 J	<5.5	44	130
G-14	10/11/2016	3.8	(1)	<440	<330	<410	<330	<530	<730	<480	<790	<670	<480	1,000 J	<350	<640	1,100 J	1,800 J	<u>700</u> J	<340	1,500 J
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2				NE	NE	196,949.2	NE	479.3	NE	470	NE	144.6	NE	88,877.8	14,829.9	NE	NE	NE	658.2	NE	54,545.5
NR 720 Non-Industrial Direct Contact RCLs				3,440,000	NE	17,200,000	147	148	1,480	15	NE	14,800	15	2,290,000	2,290,000	148	15,600	229,000	5,150	NE	1,720,000
NR 720 Industrial Direct Contact RCLs				33,000,000	NE	100,000,000	2,100	2,110	21,100	211	NE	211,000	211	22,000,000	22,000,000	2,110	53,100	2,200,000	26,000	NE	16,500,000

Abbreviations:
 µg/kg = micrograms per kilogram or parts per billion (ppb) -- = Not Applicable NE = Not Established
 PAHs = Polynuclear Aromatic Hydrocarbons RCLs = Residual Contaminant Levels

Notes:
Bold+underlined values meet or exceed an NR 720 RCL, as of June 2016.

Laboratory Notes/Qualifiers:
 J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 (1) D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

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Table 3. Soil Analytical Results Summary - Metals
Kessenich's Property, 131 S. Fair Oaks Ave., Madison, WI / SCS Engineers Project #25216180.00
 (Results are in mg/kg)

Sample	Date	Depth (feet)	Lab Notes	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
G-1	10/11/2016	3.5	--	<u>3.8</u>	72	NA	0.28	12	NA	NA	13	NA	NA	NA	NA
G-4	10/11/2016	2	--	<u>11</u>	160	NA	<u>1.6</u>	43	NA	NA	<u>1,300</u>	NA	NA	NA	NA
G-6	10/11/2016	3.5	--	<u>5.2</u>	<u>180</u>	NA	<u>1.2</u>	14	NA	NA	12	NA	NA	NA	NA
G-11	10/11/2016	2-4	--	<u>4.0</u>	68	NA	0.49	12	NA	NA	12	NA	NA	NA	NA
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2				0.584	164.8	6.32	0.752	360,000	91.6	NE	27	0.208	0.52	0.8491	NE
NR 720 Non-Industrial Not-To-Exceed Direct Contact RCLs				0.613	15,300	156	70	NE ¹	3,130	54,800	400	3.13	391	391	23,500
NR 720 Industrial Direct Contact RCLs				2.39	100,000	2,010	799	NE ¹	40,900	100,000	800	3.13	5,110	5,110	100,000
Background Threshold Value				8	364	NE	1	44	35	34,314	52	NE	NE	NE	150

Abbreviations:

mg/kg - milligrams per kilogram or parts per million (ppm)
 RCLs = Residual Contaminant Levels

-- = Not Applicable

NA = Not Analyzed

NE = No Standard Established

Notes:

Bold+underlined values exceed NR 720 RCLs, as of June 2016.

¹ Chromium Direct Contact Standards: III Non-Industrial Direct Contact RCL = 100,000 mg/kg; Industrial Direct Contact RCL = 100,000 mg/kg
 VI Non-Industrial Direct Contact RCL = 0.293 mg/kg; Industrial Direct Contact RCL = 5.58 mg/kg

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: <http://pubs.usgs.gov/sir/2011/5202>, as listed in the WDNR RR Program's RCL spreadsheet at: <http://dnr.wi.gov/topic/Brownfields/professionals.html>.

Laboratory Notes/Qualifiers:

None

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Table 4. Soil Analytical Results Summary - VOCs
Kessenich's Property, 131 S. Fair Oaks Ave., Madison, WI / SCS Engineers Project #25216180.00
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	DRO (mg/kg)	GRO (mg/kg)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	1,2,4- & 1,3,5-TMB Combined	MTBE	Other VOCs
G-1	10/11/2016	3.5	151	--	NA	NA	<u>170</u>	120	160	720	410	<56	410	<58	Napthalene 360
G-2	10/11/2016	3-3.5	297	--	NA	NA	<21	<27	<22	<32	<52	<56	<108	<58	Napthalene 200
G-3	10/11/2016	1.8	10.6	--	NA	NA	<11	<14	<12	<17	<28	<30	<58	<31	ND
G-4	10/11/2016	2	6.1	--	NA	NA	<13	33	96	120	<31	<33	<64	<34	ND
G-5	10/11/2016	5	63.6	--	NA	NA	<u>20</u>	55	<10	88	710	<26	710	<27	Napthalene <u>790</u>
G-6	10/11/2016	3.5	25	--	NA	NA	<u>330</u>	240	470	1,000	570	130	700	<29	Isopropylbenzene 140 Napthalene 190 N-Propylbenzene 200 Tetrachloroethene <u>1,200</u>
G-7	10/11/2016	4	4.2	--	NA	NA	<9.1	<11	<9.1	<14	<22	<24	<46	<25	Napthalene 140
G-8	10/11/2016	5	3.3	(1),(2)	NA	NA	<9.6	<12	<9.7	<15	<24	<25	<49	<26	ND
G-9	10/11/2016	3	2.2	--	NA	NA	<9.7	<12	<9.8	130	<24	<25	<49	<26	ND
G-10	10/11/2016	6	1.4	--	NA	NA	<9.7	<12	<9.8	<15	<24	<25	<49	<26	ND
G-11	10/11/2016	2-4	2.6	--	NA	NA	<u>120</u>	290	460	1,200	740	200	940	<29	Napthalene 240
G-12	10/11/2016	1.8	2.7	--	NA	NA	<11	<14	<11	<17	<27	<29	<56	<30	ND
G-13	10/11/2016	2	34.4	--	NA	NA	<9.1	<11	<9.2	<14	<22	<24	<46	<25	ND
G-14	10/11/2016	3.8	360	--	NA	NA	<u>120</u>	150	110	510	220	<41	220	<43	Napthalene 300
Methanol Blank	10/11/2016	--	--	--	NA	NA	<7.3	<9.2	<7.4	<11	<18	<19	<37	<20	ND
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					NE	NE	5.1	1,570	1,107.20	3,960	(a)		1,382.1	27	Isopropylbenzene (Cumene) NE Napthalene 658.2 Tetrachloroethene 4.5
NR 720 Non-Industrial Direct Contact RCLs					NE	NE	1,490	7,470	818,000	260,000	89,800	182,000	NE	59,400	Isopropylbenzene (Cumene) 268,000 Napthalene 5,150 Tetrachloroethene 30,700
NR 720 Industrial Direct Contact RCLs					NE	NE	7,410	37,000	818,000	260,000	219,000	182,000	NE	293,000	Isopropylbenzene (Cumene) 268,000 Napthalene 26,000 Tetrachloroethene 153,000

Table 4. Soil Analytical Results Summary - VOCs
Kessenich's Property, 131 S. Fair Oaks Ave., Madison, WI / SCS Engineers Project #25216180.00

Abbreviations:

µg/kg = micrograms per kilogram or parts per billion (ppb)

GRO = Gasoline Range Organics

RCLs = Residual Contaminant Levels

NA = Not Analyzed

-- = Not Applicable

mg/kg - milligrams per kilogram or parts per million (ppm)

MTBE = Methyl-tert-butyl ether

TMB = Trimethylbenzene

ND = Not Detected

ppm = parts per million

DRO = Diesel Range Organics

PID = Photo-Ionization Detector

VOCs = Volatile Organic Compounds

NE = Not Established

Notes:

Bold+underlined values exceed an NR 720 RCL, as of June 2016.

(a) NR 720 Groundwater Pathway RCLs for 1,2,4 and 1,3,5 Trimethylbenzene Combined = 1,382.1

Laboratory Notes/Qualifiers:

(1) 1,1-Dichloroethene - F2 = MS/MSD RPD exceeds control limits

(2) Vinyl Chloride - F1 = MS and-or MSD Recovery is outside acceptance limits.

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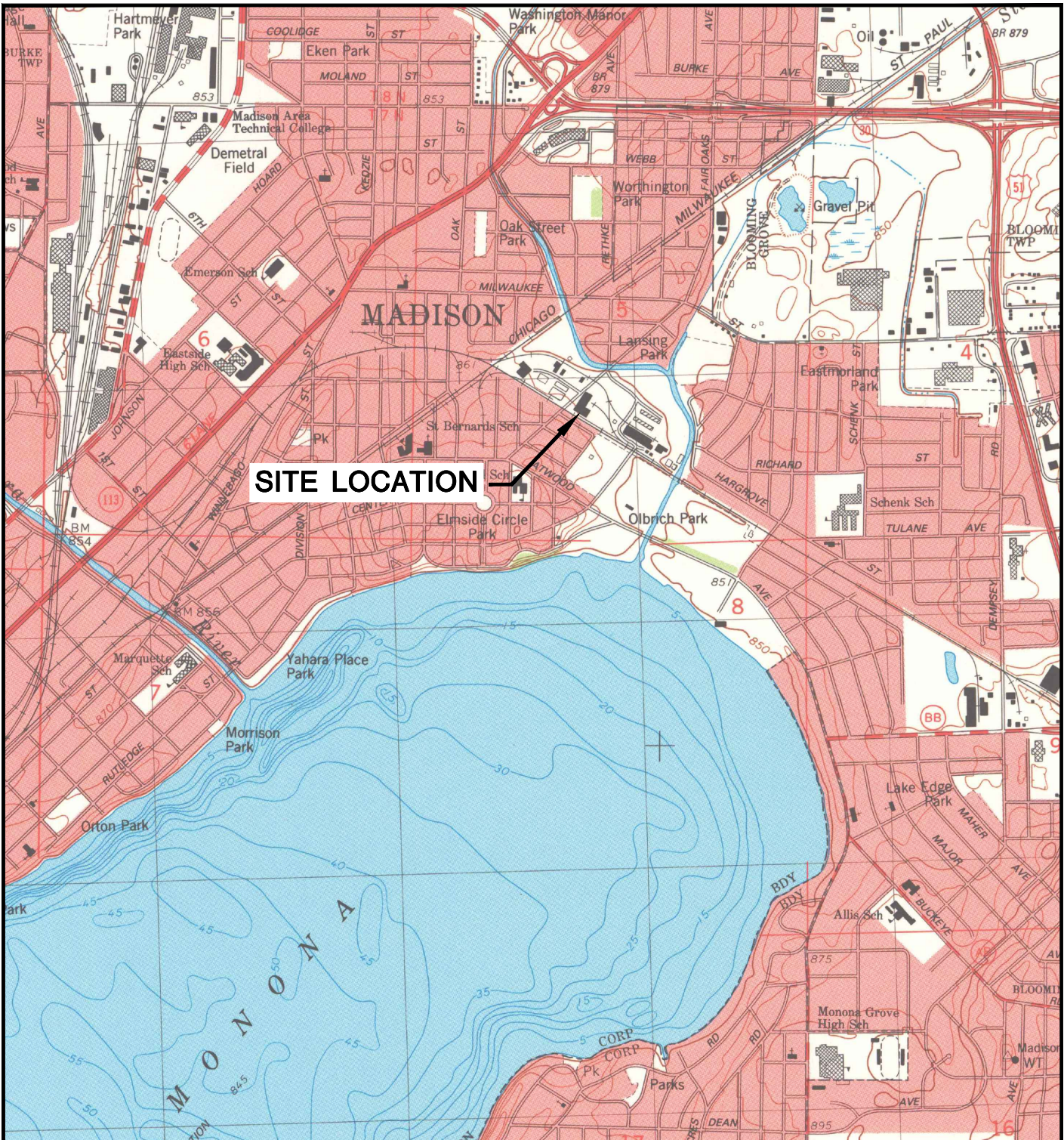
Last revision by: AV Date: 10/21/2016

Checked by: JSN Date: 10/24/2016

I:\25216180.00\Data and Calculations\Tables\[Table 4_Soil_VOCs.xls]Soil VOCs

FIGURES

- 1 Site Location Map
- 2 Site Plan



SITE LOCATION



MADISON EAST QUADRANGLE
 WISCONSIN-DANE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1983
 SCALE: 1" = 2,000'



CLIENT	INVENTURE CAPITAL LLC. 2820 WALTON COMMONS WEST, SUITE 125 MADISON, WI 53718	SITE	131 S. FAIR OAKS AVENUE MADISON, CHICAGO, WISCONSIN	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	SITE LOCATION MAP	FIGURE
	PROJECT NO. 25216180.00		DRAWN BY: AHB				1
	DRAWN: 10/24/16		CHECKED BY: LB				
	REVISED: 10/24/16		APPROVED BY:				

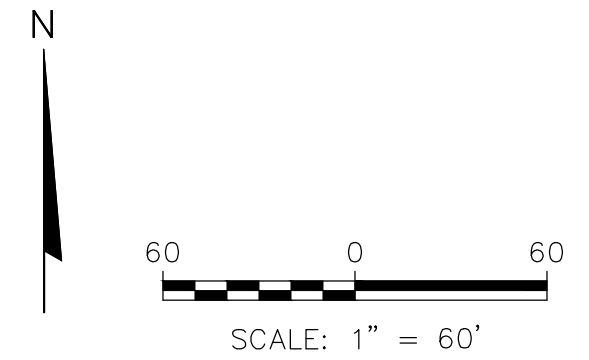


LEGEND

	APPROXIMATE PROPERTY LINE
	FENCELINE
	BURIED TRACKS
	BORING LOCATION

NOTES:

1. BASE MAP INFORMATION IS FROM TOPO SURVEY FOR ASC SERVICES COMPANY LLC. BY NORTH SHORE ENGINEERING, INC., FIGURE 8: SOIL GRCL AND GROUNDWATER ES EXCEEDENCES AREA BY ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC., AND CERTIFIED SANBORN MAP BY THE SANBORN LIBRARY, LLC.



PROJECT NO. 25216180.00	DRAWN BY: AHB	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	INVENTURE CAPITAL LLC. 2820 WALTON COMMONS WEST, SUITE 125 MADISON, WI 53718	131 S. FAIR OAKS AVENUE MADISON, WISCONSIN	SITE MAP	FIGURE
DRAWN: 10/26/16	CHECKED BY: TJK						2
REVISED: 11/02/16	APPROVED BY:						

ATTACHMENT A

Soil Boring Logs and Abandonment Forms

Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122

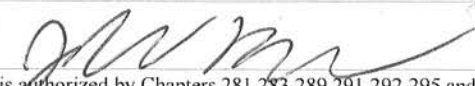
7-98

Revised by SCS 1-2016

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-1	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
						Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N, E.	
County Dane			DNR County Code 13		Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties			RQD/ Comments
								Max. PID/FID	Standard Penetration	Moisture Content	
S1				asphalt poorly graded sand & gravel fc, <u>Fill</u> , tan	SP			1.1	m		<p><u>Petroll</u> 34</p> <p>Very Smelly</p> <p>almost free product</p> <p>↑ Petro Smell ↓</p>
S2	36"			1/2" thick cinders / reddish lean clay, gray/black	CL			151.0	m		
			5	poorly graded sand & gravel <u>Fill</u> cinders, black, petro	SP				w		
S3				peat @ 5'	PT				w		
S4	35"			poorly graded sand & gravel, cinders <u>Fill</u> , black, petro	SP			248.9	w		
				peat, black, petro, roots	PT				w		
			10	silty sand, gray/black	SM			207.8	w		
				EOB @ 10'							
			15	Sample taken @ 3.51'							
				product looks like coal tar, very thick & oily → not regular looking gasoline							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm SCS ENGINEERS

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

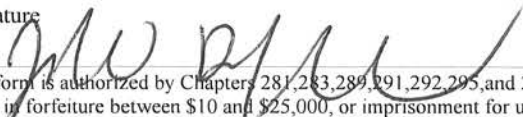
Form 4400-122
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7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-2	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
						Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane			DNR County Code 43		Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	37"			gravel, poorly graded sand, F-1/4 poorly graded sand w/ gravel, f-c sand & gravel, tan (Fill) Peat, black, petro	SP PT			3.9	M M		petro = 4'	
S2				lean clay w/ gravel, black, petro (Fill) cinders, poorly graded sand, coarse (Fill)	CL SP			296.5	W			
S3			5	peat, black, petro	PT			223.8	W			
S4				poorly graded sand, f-c, blackish, petro lean clay, gray/black, petro	SP CL			395.5	W			
			10	EOB @ 10'								
			15	Sample @ 3-3.5'								

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-3					
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16		Drilling Method geoprobe			
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level		Surface Elevation		Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.					
County Dane			DNR County Code 13			Civil Town/City/or Village Madison					

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	32"			TOP SOIL poorly graded sand + gravel, dk brown, f-c, (FILL)	SP			10.6	m			2'
S2				Silty sand w/ gravel (f-c), Light brown/tan	SM			16.2	w			
			5	Peat, brown, slight perco	PT				w			Slight petro
S3	25"			Poorly graded sand, f-c sand, gray/brown	SP			4.9	w			
S4			10	more gravelly, f-m gravel				7.5	w			
				EOB @ 101								
				Sample taken at 1.8'								

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management

Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-4	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N., R. 10 E.		Lat. Long.		Local Grid Location (If applicable) N., E.			
County Dane			DNR County Code 13		Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties			RQD/ Comments
								Max. PID/FID	Standard Penetration	Moisture Content	
S1	33"			TOP SOIL poorly graded sand w/ gravel, f-c tan (Fill)	SP			6.1	M		
S2			5	cinders (poorly graded sand + gravel, f-c) (Fill)				4.4	W		dirty, has a smell, not petro but looks like petro = 41
S3	34"			peat, black,	PT			102.3	W		
S4			10	poorly graded sand, f-c, gray/ black, petro	SP			231.6	W		petro smell
			10	lean clay, gray/black, petro EOB @ 10'	CL				W		petro smell
			15	Sample taken @ 21							

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Signature  Firm **SCS ENGINEERS**

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

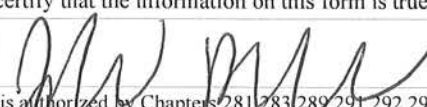
Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00	License/Permit/Monitoring Number		Boring Number G-5
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson			Drilling Started 10/11/16	Drilling Completed 10/11/16	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0"
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E			Lat. Long.	Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13	Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	32"			poorly graded sand + gravel, f-c, tan (Fill) cinders black (Fill)	SP			7.6	m			slight petro petro ∇ S.S ↓ water taking a while to fill in
S2			5	lean clay, gray w/ black petro smell	CL			63.6	m			
S3	60"			peat, black, petro	PT			213.6	w			
S4				lean clay, black/gray, petro	CL				w			
			10	silt w/ gravel, f-c, l. gray petro few mm sand seams	SU			105.7	w			
				EOB @ 10'								
				Sample taken @ 5'								

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION


Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-16	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Surface Elevation	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane			DNR County Code 13		Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	27"			Poorly graded sand + gravel F-C, tan (Fill) Cinders (Fill) petro	SP			9.0		M		
S2								25.0		M		slight petro
S3	35"		5	Peat, black, petro	PT					W		↑
				Poorly graded sand + gravel F-C, gray, petro	SP			141.1		W		↑
S4			10	Silt, some clay, gray/black petro	SM			23.1		W		↓
				EOB @ 10'								
				Sample taken @ 3.5'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00	License/Permit/Monitoring Number		Boring Number G-7
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson			Drilling Started 10/11/16	Drilling Completed 10/11/16	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0"
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E			Lat. Long.	Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13	Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	51"			top soil lean clay, some c-gravel, tan	CL			3.2			M	
S2				silt, w/ some clay more sandy	ML			4.2			M	
S3	48"		5	lean clay, black	CL						M	
S4				poorly graded sand, f-c, few f-m gravel, tan / L. brown	SP			3.0			W	7' le'
			10	EOB @ 10'				2.7			W	
				take sample @ 51 41								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **SCS ENGINEERS**

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Route To:

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 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

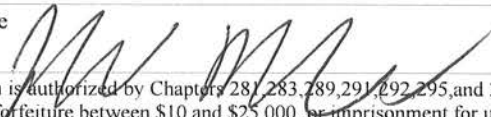
Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number 4-8	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Drilling Method geoprobe	
						Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N, E.	
County Dane		DNR County Code 13		Civil Town/City/or Village Madison			

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties			RQD/ Comments
								Max. PID/FID	Standard Penetration	Moisture Content	
S1	38"			top soil Silt, L. brown	ML		2.9			M	
S2				more gravels f-m, and more sandy-silt f-c			3.3			M	
S3	57"		5	poorly graded sand w/ f-m gravel, tan	SP		3.8			W	≡ 5.5'
S4							5.1			W	
				EOB @ 10'							
				sample taken @ 5'							
				watersamples screened from 4-8'							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: SCS ENGINEERS

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Route To:

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 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-9	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
						Surface Elevation	
						Borehole Diam. 2.0"	
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane			DNR County Code 13		Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	36"			topsoil poorly graded sand, f-m, tan (fill)	SP			3.0		M		
S2				clinders, black, f-c (fill) silty sand, fine, tan, few c gravel	ML			2.2		M		
S3	37"		5	peat, black lean clay, gray	PT CL			2.3		M W		5.5'
S4				silty sand, f-m, gray	ML							
			10	poorly graded sand, f-c, gray	SP			1.9		W		
				EOB @ 10'								
				take sample @ 3'								

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 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00	License/Permit/Monitoring Number		Boring Number G-10
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson			Drilling Started 10/11/16	Drilling Completed 10/11/16	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0"
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E			Lat. Long.	Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13	Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	17"			top soil				3.4				
				poorly graded gravel, coarse, GP few sand, tan, (Fill)								
S2			5	lean clay, brown	CL			2.7				
S3	39"			poorly graded sand + few gravel, f-c, yellow/tan	SP			1.4				
S4			10		SP			1.9				7' to 5'
				EOB @ 10'								
				took sample @ 6.0'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number B-11	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
Surface Elevation		Borehole Diam. 2.0"					
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13		Civil Town/City/or Village Madison			

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	36"			top soil poorly graded sand + gravel, P-C (fill), brown	SP			2.8			m	
S2			5	lean clay w/ sand + gravel, F-C, brown (fill)	CL			2.6			m	
S3	8"			cinders (fill), poorly graded sand, F-C	SP							5'
				lean clay, dark gray	CL			8.6			m	hit rock, poor recovery
				EOB @ 10'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: SCS ENGINEERS

This form is authorized by Chapters 281, 283, 289, 291, 292, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture between \$10 and \$25,000, or imprisonment for up to one year, depending on program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information.

Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number G-12	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
Surface Elevation		Borehole Diam. 2.0"					
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13		Civil Town/City/or Village Madison			

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	36"			poorly graded sand & gravel, f-c, tan. (fill)	SP			2.7		m		≅ 21 slight petro
				lean clay, w/ gravel f-m, (fill)	CL					m		
S2				poorly graded sand & gravel, f-c cinders, black, (fill)	SP			3.1		hd		
				peat, black	PT					w		
			5	lean clay, black / gray	CL					w		
S3	44"			poorly graded sand, f-m light gray, few rounded coarse gravel, some spots of clay	SP			1.9		w		
S4								1.8		w		
				EOB @ 10'								
				Sample @ 1.8'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: SCS ENGINEERS

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Route To:

- Watershed/Wastewater
 Remediation/Redev.
 Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00		License/Permit/Monitoring Number		Boring Number 5-13	
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson				Drilling Started 10/11/16		Drilling Completed 10/11/16	
DNR Facility Well No.		WI Unique Well No.		Common Well Name		Static Water Level	
Surface Elevation		Borehole Diam. 2.0"					
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E				Lat. Long.		Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13		Civil Town/City/or Village Madison			

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/Comments
									Standard Penetration	Moisture Content	P200	
S1	29"			topsoil	SP			34.4	M			
				poorly graded sand, f-c, tan, w/ gravel, f-c, (fill)								
S2				brownish red	PT			317.2	W		↓ 3' petro smell	
				clnders, black, petro (fill)								
S3	36"			peat, black, petro	SP			215.8	W			
						poorly graded sand, f-c, gray-black, petro						
S4								589.3	W			
				EOB @ 10'								
				Sample taken @ 21								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **SCS ENGINEERS**

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Route To:

- Watershed/Wastewater
- Remediation/Redev.
- Waste Management Other _____

SOIL BORING LOG INFORMATION

Form 4400-122
Revised by SCS 1-2016

7-98

Facility/Project Name Kessenich's		SCS # 25216180.00	License/Permit/Monitoring Number		Boring Number G-14
Boring Drilled By (Firm name and name of crew chief) Soil Essentials, Ltd - Dave Paulson			Drilling Started 10/11/16	Drilling Completed 10/11/16	Drilling Method geoprobe
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam. 2.0"
Boring Location State Plane NE 1/4 of SW 1/4 of Section 5, T. 7 N, R. 10 E			Lat. Long.	Local Grid Location (If applicable) N., E.	
County Dane		DNR County Code 13	Civil Town/City/or Village Madison		

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties			RQD/ Comments
									Standard Penetration	Moisture Content	P200	
S1	41"			top soil poorly graded sand & gravel, f.c. tan, (fill) SP				20.1	m			petro smell ↓ 4' ↑ petro ↓
S2				silt, brown, few coarse gravel (fill) ML poorly graded sand, f.c. black, cinders (fill) SP				360.3	w			
S3			5	silt, gray peat & cinders (fill) ML peat, petro smell PT				357.7	w			
S4	27"							352.2	w			
			10	poorly graded sand, f.c. gray EOB @ 10'	SP							
			15	take sample @ 3.8'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: SCS ENGINEERS

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Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well	Hicap # G-1
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
_____ ° _____ ' N		
_____ ° _____ ' W		
1/4 NE	1/4 SW	Section
		5
or Gov't Lot #		Township
		7 N
		Range
		10 E
Well Street Address		
301 S. Fair Oaks Ave		
Well City, Village or Town		Well ZIP Code
Madison		53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner Oak Park Properties, LLC		
Present Well Owner Oak Park Properties, LLC		
Mailing Address of Present Owner 301 S. Fair Oaks Ave		
City of Present Owner Madison	State WI	ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 4'

4. Pump, Liner, Screen, Casing & Sealing Material

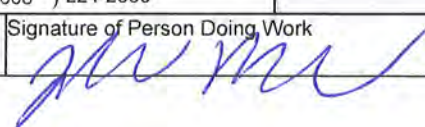
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	Date Received	Noted By	
Street or Route 2830 Dairy Drive		Telephone Number (608) 224-2830	Comments		
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 		Date Signed 10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well	Hicap # G-2
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
____ ° ____ ' ____ " N		
____ ° ____ ' ____ " W		
¼ / ¼ NE	¼ SW	Section
or Gov't Lot #		5
Township		7 N
Range		10
		<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner Oak Park Properties, LLC		
Present Well Owner Oak Park Properties, LLC		
Mailing Address of Present Owner 301 S. Fair Oaks Ave		
City of Present Owner Madison	State WI	ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well
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3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 4'

4. Pump, Liner, Screen, Casing & Sealing Material

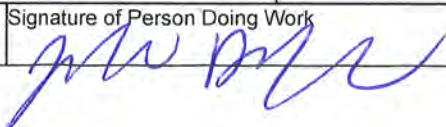
Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____		
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.82 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers			License #		Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016		DNR Use Only	
Street or Route 2830 Dairy Drive			Telephone Number (608) 224-2830		Date Received		Noted By	
City Madison			State WI		ZIP Code 53718		Signature of Person Doing Work 	
							Date Signed 10-12-16	

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Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-3
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
____ ° ____ ' ____ " N		
____ ° ____ ' ____ " W		
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10/11/2016
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) 2'

4. Pump, Liner, Screen, Casing & Sealing Material

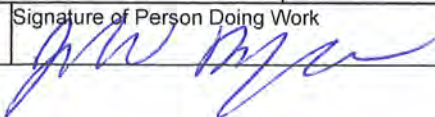
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers			License #		Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016		DNR Use Only	
Street or Route 2830 Dairy Drive			Telephone Number (608) 224-2830		Date Received		Noted By	
City Madison			State WI		ZIP Code 53718		Signature of Person Doing Work 	
							Date Signed 10-12-16	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County: Dane
 WI Unique Well # of Removed Well: _____
 Hicap #: G-4

Latitude / Longitude (Degrees and Minutes): _____ ' N
 _____ ' W
 Method Code (see instructions): _____

1/4 NE 1/4 SW Section: 5 Township: 7 N Range: 10 E W

Well Street Address: 301 S. Fair Oaks Ave

Well City, Village or Town: Madison Well ZIP Code: 53704

Subdivision Name: _____ Lot #: _____

Reason For Removal From Service: temporary borehole
 WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

- Monitoring Well
- Water Well
- Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/11/2016

If a Well Construction Report is available, please attach.

Construction Type:

- Drilled
- Driven (Sandpoint)
- Dug
- Other (specify): _____

Formation Type:

- Unconsolidated Formation
- Bedrock

Total Well Depth From Ground Surface (ft.): 10' Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2.0 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 4'

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
SCS Engineers		10/11/2016			
Street or Route	Telephone Number	Comments			
2830 Dairy Drive	(608) 224-2830				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
Madison	WI	53718	<i>[Signature]</i>	10-12-16	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County: Dane
 WI Unique Well # of Removed Well: _____
 Hicap #: G-5

Latitude / Longitude (Degrees and Minutes): _____ ' N
 _____ ' W
 Method Code (see instructions): _____

1/4 NE 1/4 SW Section Township Range E W
 or Gov't Lot # 5 7 N 10

Well Street Address: 301 S. Fair Oaks Ave

Well City, Village or Town: Madison Well ZIP Code: 53704

Subdivision Name: _____ Lot #: _____

Reason For Removal From Service: temporary borehole
 WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/11/2016
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): 10'
 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2.0
 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 5.5'

5. Material Used To Fill Well / Drillhole

3/8" bentonite chips

2. Facility / Owner Information

Facility Name: Kessenich's

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: Oak Park Properties, LLC

Present Well Owner: Oak Park Properties, LLC

Mailing Address of Present Owner: 301 S. Fair Oaks Ave

City of Present Owner: Madison State: WI ZIP Code: 53704

4. Pump, Liner, Screen, Casing & Sealing Material

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A
 Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials:
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
SCS Engineers		10/11/2016			
Street or Route	Telephone Number		Comments		
2830 Dairy Drive	(608) 224-2830				
City	State	ZIP Code	Signature of Person Doing Work		Date Signed
Madison	WI	53718			10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-1e
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
____ ° ____ ' N		_____
____ ° ____ ' W		_____
¼ / ¼ NE or Gov't Lot #	Section 5	Township 7 N
		Range 10 E
		<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner Oak Park Properties, LLC		
Present Well Owner Oak Park Properties, LLC		
Mailing Address of Present Owner 301 S. Fair Oaks Ave		
City of Present Owner Madison	State WI	ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 4'

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____		
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers			License #		Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016		DNR Use Only	
Street or Route 2830 Dairy Drive			Telephone Number (608) 224-2830		Date Received		Noted By	
City Madison			State WI		ZIP Code 53718		Signature of Person Doing Work <i>[Signature]</i>	
							Date Signed 10.12.16	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-7
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot # _____

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS) _____
License/Permit/Monitoring # _____
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach. _____
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
<input type="checkbox"/> Other (specify): _____	
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) _____
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 6'

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	Date Received	Noted By	
Street or Route 2830 Dairy Drive	Telephone Number (608) 224-2830		Comments		
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 		Date Signed 10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # 6-8
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS) _____
License/Permit/Monitoring # _____
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

3. Well / Drillhole / Borehole Information

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10/11/2016
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) _____
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) 5.5'

4. Pump, Liner, Screen, Casing & Sealing Material

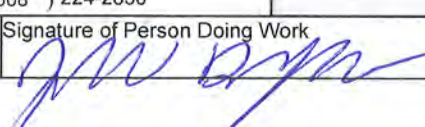
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	DNR Use Only	
Street or Route 2830 Dairy Drive		Telephone Number (608) 224-2830	Date Received	Noted By
City Madison	State WI	ZIP Code 53718	Comments	
Signature of Person Doing Work 			Date Signed 10-12-16	

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Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well	Hicap # G-9
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
_____ ' N		
_____ ' W		
1/4 / 1/4 NE	1/4 SW	Section
		5
or Gov't Lot #	Township	Range
	7 N	10 E
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

3. Well / Drillhole / Borehole Information

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify):	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 5.5'

4. Pump, Liner, Screen, Casing & Sealing Material

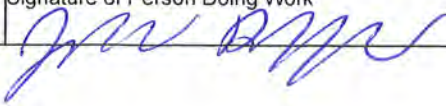
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain):
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	DNR Use Only	
Street or Route 2830 Dairy Drive	Telephone Number (608) 224-2830	Comments	Date Received	Noted By
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	Date Signed 10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-10
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
____ ° ____ ' ____ " N		_____
____ ° ____ ' ____ " W		_____
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E
		<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner Oak Park Properties, LLC		
Present Well Owner Oak Park Properties, LLC		
Mailing Address of Present Owner 301 S. Fair Oaks Ave		
City of Present Owner Madison	State WI	ZIP Code 53704

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Dug	
<input type="checkbox"/> Other (specify): _____	

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

10' _____

Lower Drillhole Diameter (in.) Casing Depth (ft.)

2.0 _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

_____ 6.5'

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials

Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	Date Received	Noted By	
Street or Route 2830 Dairy Drive		Telephone Number (608) 224-2830	Comments		
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work <i>[Signature]</i>		Date Signed 10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-11
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot # _____

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS) _____
License/Permit/Monitoring # _____
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/11/2016
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach. _____
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) _____
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) 5'

4. Pump, Liner, Screen, Casing & Sealing Material

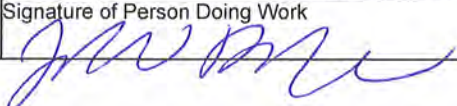
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours? If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	DNR Use Only	
Street or Route 2830 Dairy Drive		Telephone Number (608) 224-2830	Date Received _____	Noted By _____
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	
			Date Signed 10.12.16	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County: Dane
 WI Unique Well # of Removed Well: _____
 Hicap #: G-12

Latitude / Longitude (Degrees and Minutes): _____ 'N
 _____ 'W
 Method Code (see instructions): _____

1/4 NE 1/4 SW Section: 5 Township: 7 Range: 10 E W
 or Gov't Lot #

Well Street Address: 301 S. Fair Oaks Ave

Well City, Village or Town: Madison Well ZIP Code: 53704

Subdivision Name: _____ Lot #: _____

Reason For Removal From Service: temporary borehole
 WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

- Monitoring Well
- Water Well
- Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/11/2016

If a Well Construction Report is available, please attach.

Construction Type:

- Drilled
- Driven (Sandpoint)
- Dug
- Other (specify): _____

Formation Type:

- Unconsolidated Formation
- Bedrock

Total Well Depth From Ground Surface (ft.): 101 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2.0 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 21

5. Material Used To Fill Well / Drillhole

3/8" bentonite chips

2. Facility / Owner Information

Facility Name: Kessenich's

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: Oak Park Properties, LLC

Present Well Owner: Oak Park Properties, LLC

Mailing Address of Present Owner: 301 S. Fair Oaks Ave

City of Present Owner: Madison State: WI ZIP Code: 53704

4. Pump, Liner, Screen, Casing & Sealing Material

- Pump and piping removed? Yes No N/A
- Liner(s) removed? Yes No N/A
- Screen removed? Yes No N/A
- Casing left in place? Yes No N/A
- Was casing cut off below surface? Yes No N/A
- Did sealing material rise to surface? Yes No N/A
- Did material settle after 24 hours? Yes No N/A
- If yes, was hole retopped? Yes No N/A
- If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material

- Conductor Pipe-Gravity
- Conductor Pipe-Pumped
- Screened & Poured (Bentonite Chips)
- Other (Explain): _____

Sealing Materials

- Neat Cement Grout
- Sand-Cement (Concrete) Grout
- Concrete
- Clay-Sand Slurry (11 lb./gal. wt.)
- Bentonite-Sand Slurry " "
- Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

- Bentonite Chips
- Granular Bentonite
- Bentonite - Cement Grout
- Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
SCS Engineers		10/11/2016			
Street or Route	Telephone Number		Comments		
2830 Dairy Drive	(608) 224-2830				
City	State	ZIP Code	Signature of Person Doing Work		Date Signed
Madison	WI	53718			10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well	Hicap # G-13
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
_____ ° _____ ' N		
_____ ° _____ ' W		
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner Oak Park Properties, LLC		
Present Well Owner Oak Park Properties, LLC		
Mailing Address of Present Owner 301 S. Fair Oaks Ave		
City of Present Owner Madison	State WI	ZIP Code 53704

3. Well / Drillhole / Borehole Information

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10/11/2016
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 3'

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	DNR Use Only	
			Date Received	Noted By
Street or Route 2830 Dairy Drive	Telephone Number (608) 224-2830		Comments	
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	Date Signed 10-12-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Dane	WI Unique Well # of Removed Well _____	Hicap # G-14
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)
____ ° ____ ' N		_____
____ ° ____ ' W		_____
1/4 NE or Gov't Lot #	1/4 SW	Section 5
		Township 7 N
		Range 10 E
		<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 301 S. Fair Oaks Ave		
Well City, Village or Town Madison		Well ZIP Code 53704
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Kessenich's
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner Oak Park Properties, LLC
Present Well Owner Oak Park Properties, LLC
Mailing Address of Present Owner 301 S. Fair Oaks Ave
City of Present Owner Madison
State WI
ZIP Code 53704

3. Well / Drillhole / Borehole Information

Reason For Removal From Service temporary borehole	WI Unique Well # of Replacement Well _____
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10/11/2016
If a Well Construction Report is available, please attach.	
Construction Type:	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10'	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.)
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 4'

4. Pump, Liner, Screen, Casing & Sealing Material

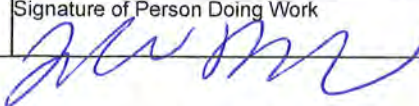
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	0.32 bags	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing SCS Engineers	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/11/2016	DNR Use Only	
			Date Received	Noted By
Street or Route 2830 Dairy Drive	Telephone Number (608) 224-2830		Comments	
City Madison	State WI	ZIP Code 53718	Signature of Person Doing Work 	Date Signed 10-12-16

ATTACHMENT B

Analytical Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-118540-1

Client Project/Site: Kessenichs - 25216180

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Tony Kollasch



Authorized for release by:

10/20/2016 2:49:11 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Job ID: 500-118540-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-118540-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method(s) 8260B: The following samples were diluted due to the abundance of target and/or non-target analytes: G-1 (500-118540-1) and G-2 (500-118540-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: G-1 (500-118540-1) and G-14 (500-118540-14). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: G-14 (500-118540-14). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: G-5 (500-118540-5) and G-6 (500-118540-6). The reagent lot number used was: 143486.

Method(s) 8082A: The following samples were diluted due to the nature of the sample matrix: G-5 (500-118540-5) and G-6 (500-118540-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-1

Lab Sample ID: 500-118540-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	170		37	21	ug/Kg	100	☼	8260B	Total/NA
Ethylbenzene	120		37	27	ug/Kg	100	☼	8260B	Total/NA
Naphthalene	360		150	49	ug/Kg	100	☼	8260B	Total/NA
Toluene	160		37	22	ug/Kg	100	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	410		150	52	ug/Kg	100	☼	8260B	Total/NA
Xylenes, Total	720		73	32	ug/Kg	100	☼	8260B	Total/NA
2-Methylnaphthalene	90	J	790	72	ug/Kg	10	☼	8270D	Total/NA
Anthracene	72	J	390	65	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	300	J	390	53	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	300	J	390	76	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	470		390	84	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	390	130	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	170	J	390	120	ug/Kg	10	☼	8270D	Total/NA
Chrysene	370	J	390	110	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	82	J	390	76	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	710		390	73	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	390	100	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	67	J	390	60	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	410		390	55	ug/Kg	10	☼	8270D	Total/NA
Pyrene	790		390	78	ug/Kg	10	☼	8270D	Total/NA
Arsenic	3.8		0.99	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.99	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.20	0.057	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.99	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.49	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: G-2

Lab Sample ID: 500-118540-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	200		150	49	ug/Kg	100	☼	8260B	Total/NA

Client Sample ID: G-3

Lab Sample ID: 500-118540-3

No Detections.

Client Sample ID: G-4

Lab Sample ID: 500-118540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	33		22	16	ug/Kg	50	☼	8260B	Total/NA
Toluene	96		22	13	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	120		43	19	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	33	J	85	10	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	40	J	85	7.8	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	9.2	J	42	5.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	8.1	J	42	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	42		42	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	50		42	8.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	64		42	9.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32	J	42	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	36	J	42	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	53		42	12	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-4 (Continued)

Lab Sample ID: 500-118540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	12	J	42	8.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	54		42	7.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	33	J	42	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	19	J	42	6.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	53		42	5.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	53		42	8.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	11		1.2	0.56	mg/Kg	1	☼	6010B	Total/NA
Barium	160		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.6		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Chromium	43		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Lead	1300		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: G-5

Lab Sample ID: 500-118540-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		17	9.9	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	55		17	12	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	790		68	23	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	710		68	24	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	88		34	15	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: G-6

Lab Sample ID: 500-118540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	330		19	11	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	240		19	14	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	140		75	29	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	190		75	25	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	200		75	31	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1200		75	28	ug/Kg	50	☼	8260B	Total/NA
Toluene	470		19	11	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	570		75	27	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	130		75	28	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	1000		37	16	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	940		81	9.8	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	1500		81	7.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	26	J	40	7.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	96		40	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	62		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	63		40	8.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	13	J	40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	14	J	40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	110		40	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	100		40	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	41		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	11	J	40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	360		40	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	750		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	140		40	8.0	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-6 (Continued)

Lab Sample ID: 500-118540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		0.98	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	180		0.98	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2		0.20	0.057	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.98	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: G-7

Lab Sample ID: 500-118540-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	140		62	21	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: G-8

Lab Sample ID: 500-118540-8

No Detections.

Client Sample ID: G-9

Lab Sample ID: 500-118540-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	130		33	15	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: G-10

Lab Sample ID: 500-118540-10

No Detections.

Client Sample ID: G-11

Lab Sample ID: 500-118540-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		18	11	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	290		18	14	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	240		74	25	ug/Kg	50	☼	8260B	Total/NA
Toluene	460		18	11	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	740		74	26	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	200		74	28	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	1200		37	16	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.0		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	68		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.59	0.30	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: G-12

Lab Sample ID: 500-118540-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	37	J	82	9.9	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	50	J	82	7.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	13	J	40	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	6.8	J	40	5.4	ug/Kg	1	☼	8270D	Total/NA
Anthracene	17	J	40	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	64		40	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	61		40	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	77		40	8.8	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-12 (Continued)

Lab Sample ID: 500-118540-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	38	J	40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	29	J	40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	8.8	J	40	7.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110		40	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.1	J	40	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	31	J	40	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	25	J	40	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	79		40	5.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	110		40	8.1	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: G-13

Lab Sample ID: 500-118540-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	8.4	J	72	6.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	7.4	J	35	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	96		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	140		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	150		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		35	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	70		35	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	140		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	24	J	35	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	130		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	48		35	9.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	44		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	130		35	7.1	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: G-14

Lab Sample ID: 500-118540-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		27	16	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	150		27	20	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	300		110	36	ug/Kg	50	☼	8260B	Total/NA
Toluene	110		27	16	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	220		110	39	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	510		55	24	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	1100	J	5000	600	ug/Kg	50	☼	8270D	Total/NA
2-Methylnaphthalene	1800	J	5000	450	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene	1000	J	2500	460	ug/Kg	50	☼	8270D	Total/NA
Naphthalene	700	J	2500	380	ug/Kg	50	☼	8270D	Total/NA
Pyrene	1500	J	2500	490	ug/Kg	50	☼	8270D	Total/NA

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118540-1	G-1	Solid	10/11/16 09:05	10/13/16 10:20
500-118540-2	G-2	Solid	10/11/16 09:45	10/13/16 10:20
500-118540-3	G-3	Solid	10/11/16 10:10	10/13/16 10:20
500-118540-4	G-4	Solid	10/11/16 10:40	10/13/16 10:20
500-118540-5	G-5	Solid	10/11/16 11:15	10/13/16 10:20
500-118540-6	G-6	Solid	10/11/16 11:35	10/13/16 10:20
500-118540-7	G-7	Solid	10/11/16 12:30	10/13/16 10:20
500-118540-8	G-8	Solid	10/11/16 12:45	10/13/16 10:20
500-118540-9	G-9	Solid	10/11/16 13:20	10/13/16 10:20
500-118540-10	G-10	Solid	10/11/16 13:30	10/13/16 10:20
500-118540-11	G-11	Solid	10/11/16 14:05	10/13/16 10:20
500-118540-12	G-12	Solid	10/11/16 14:25	10/13/16 10:20
500-118540-13	G-13	Solid	10/11/16 15:00	10/13/16 10:20
500-118540-14	G-14	Solid	10/11/16 15:45	10/13/16 10:20
500-118540-15	Methanol Blank	Solid	10/11/16 00:00	10/13/16 10:20

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-1

Lab Sample ID: 500-118540-1

Date Collected: 10/11/16 09:05

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	170		37	21	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Ethylbenzene	120		37	27	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Methyl tert-butyl ether	<58		150	58	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Naphthalene	360		150	49	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Toluene	160		37	22	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
1,2,4-Trimethylbenzene	410		150	52	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
1,3,5-Trimethylbenzene	<56		150	56	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Xylenes, Total	720		73	32	ug/Kg	☼	10/11/16 09:05	10/18/16 03:17	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		71 - 120				10/11/16 09:05	10/18/16 03:17	100
Dibromofluoromethane	90		70 - 120				10/11/16 09:05	10/18/16 03:17	100
1,2-Dichloroethane-d4 (Surr)	100		71 - 127				10/11/16 09:05	10/18/16 03:17	100
Toluene-d8 (Surr)	100		75 - 120				10/11/16 09:05	10/18/16 03:17	100

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<96		790	96	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
2-Methylnaphthalene	90	J	790	72	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Acenaphthene	<70		390	70	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Acenaphthylene	<52		390	52	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Anthracene	72	J	390	65	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Benzo[a]anthracene	300	J	390	53	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Benzo[a]pyrene	300	J	390	76	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Benzo[b]fluoranthene	470		390	84	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Benzo[g,h,i]perylene	150	J	390	130	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Benzo[k]fluoranthene	170	J	390	120	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Chrysene	370	J	390	110	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Dibenz(a,h)anthracene	82	J	390	76	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Fluoranthene	710		390	73	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Fluorene	<55		390	55	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Indeno[1,2,3-cd]pyrene	150	J	390	100	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Naphthalene	67	J	390	60	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Phenanthrene	410		390	55	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Pyrene	790		390	78	ug/Kg	☼	10/13/16 19:30	10/17/16 17:05	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		42 - 115				10/13/16 19:30	10/17/16 17:05	10
Nitrobenzene-d5 (Surr)	86		33 - 124				10/13/16 19:30	10/17/16 17:05	10
Terphenyl-d14 (Surr)	106		25 - 150				10/13/16 19:30	10/17/16 17:05	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		0.99	0.46	mg/Kg	☼	10/19/16 08:11	10/19/16 19:25	1
Barium	72		0.99	0.18	mg/Kg	☼	10/19/16 08:11	10/19/16 19:25	1
Cadmium	0.28		0.20	0.057	mg/Kg	☼	10/19/16 08:11	10/19/16 19:25	1
Chromium	12		0.99	0.17	mg/Kg	☼	10/19/16 08:11	10/19/16 19:25	1
Lead	13		0.49	0.25	mg/Kg	☼	10/19/16 08:11	10/19/16 19:25	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-2

Date Collected: 10/11/16 09:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-2

Matrix: Solid

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		37	21	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
Ethylbenzene	<27		37	27	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
Methyl tert-butyl ether	<58		150	58	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
Naphthalene	200		150	49	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
Toluene	<22		37	22	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
1,2,4-Trimethylbenzene	<52		150	52	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
1,3,5-Trimethylbenzene	<56		150	56	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100
Xylenes, Total	<32		73	32	ug/Kg	☼	10/11/16 09:45	10/18/16 03:43	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		71 - 120	10/11/16 09:45	10/18/16 03:43	100
Dibromofluoromethane	90		70 - 120	10/11/16 09:45	10/18/16 03:43	100
1,2-Dichloroethane-d4 (Surr)	98		71 - 127	10/11/16 09:45	10/18/16 03:43	100
Toluene-d8 (Surr)	100		75 - 120	10/11/16 09:45	10/18/16 03:43	100

Client Sample ID: G-3

Date Collected: 10/11/16 10:10

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-3

Matrix: Solid

Percent Solids: 75.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		20	11	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
Ethylbenzene	<14		20	14	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
Methyl tert-butyl ether	<31		78	31	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
Naphthalene	<26		78	26	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
Toluene	<12		20	12	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
1,2,4-Trimethylbenzene	<28		78	28	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
1,3,5-Trimethylbenzene	<30		78	30	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50
Xylenes, Total	<17		39	17	ug/Kg	☼	10/11/16 10:10	10/18/16 04:09	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		71 - 120	10/11/16 10:10	10/18/16 04:09	50
Dibromofluoromethane	92		70 - 120	10/11/16 10:10	10/18/16 04:09	50
1,2-Dichloroethane-d4 (Surr)	101		71 - 127	10/11/16 10:10	10/18/16 04:09	50
Toluene-d8 (Surr)	99		75 - 120	10/11/16 10:10	10/18/16 04:09	50

Client Sample ID: G-4

Date Collected: 10/11/16 10:40

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4

Matrix: Solid

Percent Solids: 76.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Bromobenzene	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Bromochloromethane	<37		87	37	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Bromodichloromethane	<32		87	32	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Bromoform	<42		87	42	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Bromomethane	<69		170	69	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Carbon tetrachloride	<33		87	33	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Chlorobenzene	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-4

Lab Sample ID: 500-118540-4

Date Collected: 10/11/16 10:40

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 76.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<44		87	44	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Chloroform	<32		87	32	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Chloromethane	<28		87	28	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
2-Chlorotoluene	<27		87	27	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
4-Chlorotoluene	<30		87	30	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
cis-1,2-Dichloroethene	<35		87	35	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
cis-1,3-Dichloropropene	<36		87	36	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Dibromochloromethane	<42		87	42	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2-Dibromo-3-Chloropropane	<170		430	170	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2-Dibromoethane	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Dibromomethane	<23		87	23	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2-Dichlorobenzene	<29		87	29	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,3-Dichlorobenzene	<35		87	35	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,4-Dichlorobenzene	<32		87	32	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Dichlorodifluoromethane	<59		170	59	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1-Dichloroethane	<36		87	36	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2-Dichloroethane	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1-Dichloroethene	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2-Dichloropropane	<37		87	37	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,3-Dichloropropane	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
2,2-Dichloropropane	<39		87	39	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1-Dichloropropene	<26		87	26	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Ethylbenzene	33		22	16	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Hexachlorobutadiene	<39		87	39	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Isopropylbenzene	<33		87	33	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Isopropyl ether	<24		87	24	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Methylene Chloride	<140		430	140	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Methyl tert-butyl ether	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Naphthalene	<29		87	29	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
n-Butylbenzene	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
N-Propylbenzene	<36		87	36	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
p-Isopropyltoluene	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
sec-Butylbenzene	<35		87	35	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Styrene	<34		87	34	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
tert-Butylbenzene	<35		87	35	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1,1,2-Tetrachloroethane	<40		87	40	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1,2,2-Tetrachloroethane	<35		87	35	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Tetrachloroethene	<32		87	32	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Toluene	96		22	13	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
trans-1,2-Dichloroethene	<30		87	30	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
trans-1,3-Dichloropropene	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2,3-Trichlorobenzene	<40		87	40	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2,4-Trichlorobenzene	<30		87	30	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1,1-Trichloroethane	<33		87	33	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,1,2-Trichloroethane	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Trichloroethene	<14		43	14	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Trichlorofluoromethane	<37		87	37	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2,3-Trichloropropane	<36		87	36	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
1,2,4-Trimethylbenzene	<31		87	31	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-4

Date Collected: 10/11/16 10:40

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4

Matrix: Solid

Percent Solids: 76.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<33		87	33	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Vinyl chloride	<23		43	23	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50
Xylenes, Total	120		43	19	ug/Kg	☼	10/11/16 10:40	10/18/16 06:54	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		71 - 120	10/11/16 10:40	10/18/16 06:54	50
Dibromofluoromethane	109		70 - 120	10/11/16 10:40	10/18/16 06:54	50
1,2-Dichloroethane-d4 (Surr)	108		71 - 127	10/11/16 10:40	10/18/16 06:54	50
Toluene-d8 (Surr)	88		75 - 120	10/11/16 10:40	10/18/16 06:54	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	33	J	85	10	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
2-Methylnaphthalene	40	J	85	7.8	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Acenaphthene	<7.6		42	7.6	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Acenaphthylene	9.2	J	42	5.6	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Anthracene	8.1	J	42	7.1	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Benzo[a]anthracene	42		42	5.7	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Benzo[a]pyrene	50		42	8.2	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Benzo[b]fluoranthene	64		42	9.1	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Benzo[g,h,i]perylene	32	J	42	14	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Benzo[k]fluoranthene	36	J	42	12	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Chrysene	53		42	12	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Dibenz(a,h)anthracene	12	J	42	8.2	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Fluoranthene	54		42	7.8	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Fluorene	<5.9		42	5.9	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Indeno[1,2,3-cd]pyrene	33	J	42	11	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Naphthalene	19	J	42	6.5	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Phenanthrene	53		42	5.9	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1
Pyrene	53		42	8.4	ug/Kg	☼	10/13/16 19:30	10/15/16 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		42 - 115	10/13/16 19:30	10/15/16 16:06	1
Nitrobenzene-d5 (Surr)	70		33 - 124	10/13/16 19:30	10/15/16 16:06	1
Terphenyl-d14 (Surr)	84		25 - 150	10/13/16 19:30	10/15/16 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.2	0.56	mg/Kg	☼	10/19/16 08:11	10/19/16 19:29	1
Barium	160		1.2	0.22	mg/Kg	☼	10/19/16 08:11	10/19/16 19:29	1
Cadmium	1.6		0.24	0.070	mg/Kg	☼	10/19/16 08:11	10/19/16 19:29	1
Chromium	43		1.2	0.21	mg/Kg	☼	10/19/16 08:11	10/19/16 19:29	1
Lead	1300		0.61	0.30	mg/Kg	☼	10/19/16 08:11	10/19/16 19:29	1

Client Sample ID: G-5

Date Collected: 10/11/16 11:15

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-5

Matrix: Solid

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		17	9.9	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-5

Date Collected: 10/11/16 11:15

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-5

Matrix: Solid

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	55		17	12	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
Naphthalene	790		68	23	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
Toluene	<10		17	10	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
1,2,4-Trimethylbenzene	710		68	24	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50
Xylenes, Total	88		34	15	ug/Kg	☼	10/11/16 11:15	10/18/16 04:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		71 - 120	10/11/16 11:15	10/18/16 04:36	50
Dibromofluoromethane	93		70 - 120	10/11/16 11:15	10/18/16 04:36	50
1,2-Dichloroethane-d4 (Surr)	97		71 - 127	10/11/16 11:15	10/18/16 04:36	50
Toluene-d8 (Surr)	99		75 - 120	10/11/16 11:15	10/18/16 04:36	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<35		98	35	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1221	<43		98	43	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1232	<43		98	43	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1242	<32		98	32	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1248	<39		98	39	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1254	<21		98	21	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5
PCB-1260	<48		98	48	ug/Kg	☼	10/14/16 17:50	10/19/16 10:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		41 - 124	10/14/16 17:50	10/19/16 10:32	5
DCB Decachlorobiphenyl	112		47 - 127	10/14/16 17:50	10/19/16 10:32	5

Client Sample ID: G-6

Date Collected: 10/11/16 11:35

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-6

Matrix: Solid

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	330		19	11	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Bromobenzene	<27		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Bromochloromethane	<32		75	32	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Bromodichloromethane	<28		75	28	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Bromoform	<36		75	36	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Bromomethane	<60		150	60	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Carbon tetrachloride	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Chlorobenzene	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Chloroethane	<38		75	38	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Chloroform	<28		75	28	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Chloromethane	<24		75	24	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
2-Chlorotoluene	<24		75	24	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
4-Chlorotoluene	<26		75	26	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
cis-1,2-Dichloroethene	<31		75	31	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
cis-1,3-Dichloropropene	<31		75	31	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Dibromochloromethane	<37		75	37	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-6

Lab Sample ID: 500-118540-6

Date Collected: 10/11/16 11:35

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2-Dibromoethane	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Dibromomethane	<20		75	20	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2-Dichlorobenzene	<25		75	25	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,3-Dichlorobenzene	<30		75	30	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,4-Dichlorobenzene	<27		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1-Dichloroethane	<31		75	31	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2-Dichloroethane	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1-Dichloroethene	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2-Dichloropropane	<32		75	32	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,3-Dichloropropane	<27		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
2,2-Dichloropropane	<33		75	33	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1-Dichloropropene	<22		75	22	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Ethylbenzene	240		19	14	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Hexachlorobutadiene	<33		75	33	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Isopropylbenzene	140		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Isopropyl ether	<21		75	21	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Methylene Chloride	<120		370	120	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Methyl tert-butyl ether	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Naphthalene	190		75	25	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
n-Butylbenzene	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
N-Propylbenzene	200		75	31	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
p-Isopropyltoluene	<27		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
sec-Butylbenzene	<30		75	30	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Styrene	<29		75	29	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
tert-Butylbenzene	<30		75	30	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1,1,2-Tetrachloroethane	<35		75	35	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1,2,2-Tetrachloroethane	<30		75	30	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Tetrachloroethene	1200		75	28	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Toluene	470		19	11	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
trans-1,2-Dichloroethene	<26		75	26	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
trans-1,3-Dichloropropene	<27		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2,3-Trichlorobenzene	<34		75	34	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2,4-Trichlorobenzene	<26		75	26	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1,1-Trichloroethane	<28		75	28	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,1,2-Trichloroethane	<26		75	26	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Trichloroethene	<12		37	12	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Trichlorofluoromethane	<32		75	32	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2,3-Trichloropropane	<31		75	31	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,2,4-Trimethylbenzene	570		75	27	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
1,3,5-Trimethylbenzene	130		75	28	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Vinyl chloride	<20		37	20	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50
Xylenes, Total	1000		37	16	ug/Kg	☼	10/11/16 11:35	10/18/16 07:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120	10/11/16 11:35	10/18/16 07:22	50
Dibromofluoromethane	100		70 - 120	10/11/16 11:35	10/18/16 07:22	50
1,2-Dichloroethane-d4 (Surr)	104		71 - 127	10/11/16 11:35	10/18/16 07:22	50
Toluene-d8 (Surr)	85		75 - 120	10/11/16 11:35	10/18/16 07:22	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	940		81	9.8	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
2-Methylnaphthalene	1500		81	7.4	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Acenaphthene	26	J	40	7.2	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Acenaphthylene	<5.3		40	5.3	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Anthracene	96		40	6.7	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Benzo[a]anthracene	120		40	5.4	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Benzo[a]pyrene	62		40	7.8	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Benzo[b]fluoranthene	63		40	8.7	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Benzo[g,h,i]perylene	13	J	40	13	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Benzo[k]fluoranthene	14	J	40	12	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Chrysene	110		40	11	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Dibenz(a,h)anthracene	<7.8		40	7.8	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Fluoranthene	100		40	7.4	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Fluorene	41		40	5.6	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Indeno[1,2,3-cd]pyrene	11	J	40	10	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Naphthalene	360		40	6.2	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Phenanthrene	750		40	5.6	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Pyrene	140		40	8.0	ug/Kg	☼	10/13/16 19:30	10/15/16 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		42 - 115				10/13/16 19:30	10/15/16 16:35	1
Nitrobenzene-d5 (Surr)	72		33 - 124				10/13/16 19:30	10/15/16 16:35	1
Terphenyl-d14 (Surr)	82		25 - 150				10/13/16 19:30	10/15/16 16:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<35		100	35	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1221	<44		100	44	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1232	<44		100	44	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1242	<33		100	33	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1248	<39		100	39	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1254	<22		100	22	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
PCB-1260	<49		100	49	ug/Kg	☼	10/14/16 17:50	10/19/16 10:47	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		41 - 124				10/14/16 17:50	10/19/16 10:47	5
DCB Decachlorobiphenyl	115		47 - 127				10/14/16 17:50	10/19/16 10:47	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		0.98	0.45	mg/Kg	☼	10/19/16 08:11	10/19/16 19:37	1
Barium	180		0.98	0.18	mg/Kg	☼	10/19/16 08:11	10/19/16 19:37	1
Cadmium	1.2		0.20	0.057	mg/Kg	☼	10/19/16 08:11	10/19/16 19:37	1
Chromium	14		0.98	0.17	mg/Kg	☼	10/19/16 08:11	10/19/16 19:37	1
Lead	12		0.49	0.24	mg/Kg	☼	10/19/16 08:11	10/19/16 19:37	1

Client Sample ID: G-7

Date Collected: 10/11/16 12:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-7

Matrix: Solid

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.1		16	9.1	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Bromobenzene	<22		62	22	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-7

Lab Sample ID: 500-118540-7

Date Collected: 10/11/16 12:30

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<27		62	27	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Bromoform	<30		62	30	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Bromomethane	<49		120	49	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Chlorobenzene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Chloroethane	<31		62	31	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Chloroform	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Chloromethane	<20		62	20	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
2-Chlorotoluene	<20		62	20	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Dibromomethane	<17		62	17	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Dichlorodifluoromethane	<42		120	42	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1-Dichloroethane	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,3-Dichloropropane	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
2,2-Dichloropropane	<28		62	28	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1-Dichloropropene	<19		62	19	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Ethylbenzene	<11		16	11	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Isopropyl ether	<17		62	17	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Methylene Chloride	<100		310	100	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Naphthalene	140		62	21	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
p-Isopropyltoluene	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
sec-Butylbenzene	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Styrene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
tert-Butylbenzene	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Toluene	<9.1		16	9.1	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
trans-1,3-Dichloropropene	<23		62	23	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-7

Date Collected: 10/11/16 12:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-7

Matrix: Solid

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Trichloroethene	<10		31	10	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Trichlorofluoromethane	<27		62	27	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2,3-Trichloropropane	<26		62	26	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Vinyl chloride	<16		31	16	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Xylenes, Total	<14		31	14	ug/Kg	☼	10/11/16 12:30	10/18/16 07:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120				10/11/16 12:30	10/18/16 07:49	50
Dibromofluoromethane	102		70 - 120				10/11/16 12:30	10/18/16 07:49	50
1,2-Dichloroethane-d4 (Surr)	104		71 - 127				10/11/16 12:30	10/18/16 07:49	50
Toluene-d8 (Surr)	93		75 - 120				10/11/16 12:30	10/18/16 07:49	50

Client Sample ID: G-8

Date Collected: 10/11/16 12:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-8

Matrix: Solid

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.6		17	9.6	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Bromobenzene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Bromochloromethane	<28		66	28	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Bromoform	<32		66	32	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Bromomethane	<53		130	53	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Chlorobenzene	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Chloroethane	<33		66	33	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Chloroform	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Chloromethane	<21		66	21	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Dibromomethane	<18		66	18	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1-Dichloroethene	<26	F2	66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-8

Date Collected: 10/11/16 12:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-8

Matrix: Solid

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Ethylbenzene	<12		17	12	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Isopropyl ether	<18		66	18	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Methylene Chloride	<110		330	110	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Naphthalene	<22		66	22	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Styrene	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Toluene	<9.7		17	9.7	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Trichloroethene	<11		33	11	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Vinyl chloride	<17	F1	33	17	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50
Xylenes, Total	<15		33	15	ug/Kg	☼	10/11/16 12:45	10/18/16 08:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		71 - 120	10/11/16 12:45	10/18/16 08:17	50
Dibromofluoromethane	102		70 - 120	10/11/16 12:45	10/18/16 08:17	50
1,2-Dichloroethane-d4 (Surr)	106		71 - 127	10/11/16 12:45	10/18/16 08:17	50
Toluene-d8 (Surr)	91		75 - 120	10/11/16 12:45	10/18/16 08:17	50

Client Sample ID: G-9

Date Collected: 10/11/16 13:20

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-9

Matrix: Solid

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7		17	9.7	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Ethylbenzene	<12		17	12	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Naphthalene	<22		66	22	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Toluene	<9.8		17	9.8	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-9

Date Collected: 10/11/16 13:20

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-9

Matrix: Solid

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Xylenes, Total	130		33	15	ug/Kg	☼	10/11/16 13:20	10/18/16 05:02	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		71 - 120				10/11/16 13:20	10/18/16 05:02	50
Dibromofluoromethane	91		70 - 120				10/11/16 13:20	10/18/16 05:02	50
1,2-Dichloroethane-d4 (Surr)	99		71 - 127				10/11/16 13:20	10/18/16 05:02	50
Toluene-d8 (Surr)	100		75 - 120				10/11/16 13:20	10/18/16 05:02	50

Client Sample ID: G-10

Date Collected: 10/11/16 13:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-10

Matrix: Solid

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7		17	9.7	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Ethylbenzene	<12		17	12	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Naphthalene	<22		67	22	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Toluene	<9.8		17	9.8	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Xylenes, Total	<15		33	15	ug/Kg	☼	10/11/16 13:30	10/18/16 05:28	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		71 - 120				10/11/16 13:30	10/18/16 05:28	50
Dibromofluoromethane	89		70 - 120				10/11/16 13:30	10/18/16 05:28	50
1,2-Dichloroethane-d4 (Surr)	98		71 - 127				10/11/16 13:30	10/18/16 05:28	50
Toluene-d8 (Surr)	101		75 - 120				10/11/16 13:30	10/18/16 05:28	50

Client Sample ID: G-11

Date Collected: 10/11/16 14:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-11

Matrix: Solid

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		18	11	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Ethylbenzene	290		18	14	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Methyl tert-butyl ether	<29		74	29	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Naphthalene	240		74	25	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Toluene	460		18	11	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
1,2,4-Trimethylbenzene	740		74	26	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
1,3,5-Trimethylbenzene	200		74	28	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Xylenes, Total	1200		37	16	ug/Kg	☼	10/11/16 14:05	10/18/16 05:54	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		71 - 120				10/11/16 14:05	10/18/16 05:54	50
Dibromofluoromethane	90		70 - 120				10/11/16 14:05	10/18/16 05:54	50
1,2-Dichloroethane-d4 (Surr)	98		71 - 127				10/11/16 14:05	10/18/16 05:54	50
Toluene-d8 (Surr)	100		75 - 120				10/11/16 14:05	10/18/16 05:54	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.2	0.55	mg/Kg	☼	10/19/16 08:11	10/19/16 19:46	1
Barium	68		1.2	0.22	mg/Kg	☼	10/19/16 08:11	10/19/16 19:46	1
Cadmium	0.49		0.24	0.069	mg/Kg	☼	10/19/16 08:11	10/19/16 19:46	1
Chromium	12		1.2	0.20	mg/Kg	☼	10/19/16 08:11	10/19/16 19:46	1
Lead	10		0.59	0.30	mg/Kg	☼	10/19/16 08:11	10/19/16 19:46	1

Client Sample ID: G-12

Date Collected: 10/11/16 14:25

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-12

Matrix: Solid

Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
Ethylbenzene	<14		19	14	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
Methyl tert-butyl ether	<30		77	30	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
Naphthalene	<26		77	26	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
Toluene	<11		19	11	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
1,2,4-Trimethylbenzene	<27		77	27	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
1,3,5-Trimethylbenzene	<29		77	29	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50
Xylenes, Total	<17		38	17	ug/Kg	☼	10/11/16 14:25	10/18/16 06:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		71 - 120	10/11/16 14:25	10/18/16 06:20	50
Dibromofluoromethane	91		70 - 120	10/11/16 14:25	10/18/16 06:20	50
1,2-Dichloroethane-d4 (Surr)	97		71 - 127	10/11/16 14:25	10/18/16 06:20	50
Toluene-d8 (Surr)	101		75 - 120	10/11/16 14:25	10/18/16 06:20	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	37	J	82	9.9	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
2-Methylnaphthalene	50	J	82	7.5	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Acenaphthene	13	J	40	7.3	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Acenaphthylene	6.8	J	40	5.4	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Anthracene	17	J	40	6.8	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Benzo[a]anthracene	64		40	5.5	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Benzo[a]pyrene	61		40	7.9	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Benzo[b]fluoranthene	77		40	8.8	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Benzo[g,h,i]perylene	38	J	40	13	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Benzo[k]fluoranthene	29	J	40	12	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Chrysene	65		40	11	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Dibenz(a,h)anthracene	8.8	J	40	7.9	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Fluoranthene	110		40	7.5	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Fluorene	9.1	J	40	5.7	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Indeno[1,2,3-cd]pyrene	31	J	40	11	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Naphthalene	25	J	40	6.3	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Phenanthrene	79		40	5.7	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1
Pyrene	110		40	8.1	ug/Kg	☼	10/13/16 19:30	10/15/16 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		42 - 115	10/13/16 19:30	10/15/16 14:41	1
Nitrobenzene-d5 (Surr)	85		33 - 124	10/13/16 19:30	10/15/16 14:41	1
Terphenyl-d14 (Surr)	99		25 - 150	10/13/16 19:30	10/15/16 14:41	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-13

Lab Sample ID: 500-118540-13

Date Collected: 10/11/16 15:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.1		16	9.1	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
Ethylbenzene	<11		16	11	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
Methyl tert-butyl ether	<25		63	25	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
Naphthalene	<21		63	21	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
Toluene	<9.2		16	9.2	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
1,2,4-Trimethylbenzene	<22		63	22	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
1,3,5-Trimethylbenzene	<24		63	24	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50
Xylenes, Total	<14		31	14	ug/Kg	☼	10/11/16 15:00	10/18/16 06:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		71 - 120	10/11/16 15:00	10/18/16 06:46	50
Dibromofluoromethane	90		70 - 120	10/11/16 15:00	10/18/16 06:46	50
1,2-Dichloroethane-d4 (Surr)	97		71 - 127	10/11/16 15:00	10/18/16 06:46	50
Toluene-d8 (Surr)	99		75 - 120	10/11/16 15:00	10/18/16 06:46	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.7		72	8.7	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
2-Methylnaphthalene	8.4	J	72	6.6	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Anthracene	7.4	J	35	6.0	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Benzo[a]anthracene	96		35	4.8	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Benzo[a]pyrene	140		35	6.9	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Benzo[b]fluoranthene	150		35	7.7	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Benzo[g,h,i]perylene	130		35	12	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Benzo[k]fluoranthene	70		35	11	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Chrysene	140		35	9.7	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Dibenz(a,h)anthracene	24	J	35	6.9	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Fluoranthene	130		35	6.6	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Indeno[1,2,3-cd]pyrene	48		35	9.3	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Naphthalene	<5.5		35	5.5	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Phenanthrene	44		35	5.0	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1
Pyrene	130		35	7.1	ug/Kg	☼	10/13/16 19:30	10/15/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		42 - 115	10/13/16 19:30	10/15/16 17:03	1
Nitrobenzene-d5 (Surr)	89		33 - 124	10/13/16 19:30	10/15/16 17:03	1
Terphenyl-d14 (Surr)	91		25 - 150	10/13/16 19:30	10/15/16 17:03	1

Client Sample ID: G-14

Lab Sample ID: 500-118540-14

Date Collected: 10/11/16 15:45

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 64.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		27	16	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
Ethylbenzene	150		27	20	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
Methyl tert-butyl ether	<43		110	43	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-14

Lab Sample ID: 500-118540-14

Date Collected: 10/11/16 15:45

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 64.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	300		110	36	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
Toluene	110		27	16	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
1,2,4-Trimethylbenzene	220		110	39	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
1,3,5-Trimethylbenzene	<41		110	41	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50
Xylenes, Total	510		55	24	ug/Kg	☼	10/11/16 15:45	10/18/16 07:12	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		71 - 120	10/11/16 15:45	10/18/16 07:12	50
Dibromofluoromethane	90		70 - 120	10/11/16 15:45	10/18/16 07:12	50
1,2-Dichloroethane-d4 (Surr)	98		71 - 127	10/11/16 15:45	10/18/16 07:12	50
Toluene-d8 (Surr)	100		75 - 120	10/11/16 15:45	10/18/16 07:12	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1100	J	5000	600	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
2-Methylnaphthalene	1800	J	5000	450	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Acenaphthene	<440		2500	440	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Acenaphthylene	<330		2500	330	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Anthracene	<410		2500	410	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Benzo[a]anthracene	<330		2500	330	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Benzo[a]pyrene	<480		2500	480	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Benzo[b]fluoranthene	<530		2500	530	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Benzo[g,h,i]perylene	<790		2500	790	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Benzo[k]fluoranthene	<730		2500	730	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Chrysene	<670		2500	670	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Dibenz(a,h)anthracene	<480		2500	480	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Fluoranthene	1000	J	2500	460	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Fluorene	<350		2500	350	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Indeno[1,2,3-cd]pyrene	<640		2500	640	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Naphthalene	700	J	2500	380	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Phenanthrene	<340		2500	340	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50
Pyrene	1500	J	2500	490	ug/Kg	☼	10/13/16 19:30	10/18/16 16:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D	42 - 115	10/13/16 19:30	10/18/16 16:17	50
Nitrobenzene-d5 (Surr)	0	D	33 - 124	10/13/16 19:30	10/18/16 16:17	50
Terphenyl-d14 (Surr)	0	D	25 - 150	10/13/16 19:30	10/18/16 16:17	50

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

Date Collected: 10/11/16 00:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Bromobenzene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Bromochloromethane	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Bromoform	<24		50	24	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Bromomethane	<40		100	40	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

Date Collected: 10/11/16 00:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Chlorobenzene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Chloroethane	<25		50	25	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Chloroform	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Chloromethane	<16		50	16	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Dibromomethane	<14		50	14	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Isopropyl ether	<14		50	14	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Methylene Chloride	<82		250	82	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Naphthalene	<17		50	17	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Styrene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Toluene	<7.4		13	7.4	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

Date Collected: 10/11/16 00:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Vinyl chloride	<13		25	13	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50
Xylenes, Total	<11		25	11	ug/Kg	☼	10/11/16 00:00	10/18/16 01:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		71 - 120	10/11/16 00:00	10/18/16 01:50	50
Dibromofluoromethane	102		70 - 120	10/11/16 00:00	10/18/16 01:50	50
1,2-Dichloroethane-d4 (Surr)	107		71 - 127	10/11/16 00:00	10/18/16 01:50	50
Toluene-d8 (Surr)	93		75 - 120	10/11/16 00:00	10/18/16 01:50	50

Definitions/Glossary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

GC/MS VOA

Prep Batch: 356386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	5035	
500-118540-2	G-2	Total/NA	Solid	5035	
500-118540-3	G-3	Total/NA	Solid	5035	
500-118540-4	G-4	Total/NA	Solid	5035	
500-118540-5	G-5	Total/NA	Solid	5035	
500-118540-6	G-6	Total/NA	Solid	5035	
500-118540-7	G-7	Total/NA	Solid	5035	
500-118540-8	G-8	Total/NA	Solid	5035	
500-118540-9	G-9	Total/NA	Solid	5035	
500-118540-10	G-10	Total/NA	Solid	5035	
500-118540-11	G-11	Total/NA	Solid	5035	
500-118540-12	G-12	Total/NA	Solid	5035	
500-118540-13	G-13	Total/NA	Solid	5035	
500-118540-14	G-14	Total/NA	Solid	5035	
500-118540-15	Methanol Blank	Total/NA	Solid	5035	
LB3 500-356386/16-A	Method Blank	Total/NA	Solid	5035	
LCS 500-356386/17-A	Lab Control Sample	Total/NA	Solid	5035	
500-118540-8 MS	G-8	Total/NA	Solid	5035	
500-118540-8 MSD	G-8	Total/NA	Solid	5035	
500-118540-14 MS	G-14	Total/NA	Solid	5035	
500-118540-14 MSD	G-14	Total/NA	Solid	5035	

Analysis Batch: 356578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	8260B	356386
500-118540-2	G-2	Total/NA	Solid	8260B	356386
500-118540-3	G-3	Total/NA	Solid	8260B	356386
500-118540-5	G-5	Total/NA	Solid	8260B	356386
500-118540-9	G-9	Total/NA	Solid	8260B	356386
500-118540-10	G-10	Total/NA	Solid	8260B	356386
500-118540-11	G-11	Total/NA	Solid	8260B	356386
500-118540-12	G-12	Total/NA	Solid	8260B	356386
500-118540-13	G-13	Total/NA	Solid	8260B	356386
500-118540-14	G-14	Total/NA	Solid	8260B	356386
MB 500-356578/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-356578/3	Lab Control Sample	Total/NA	Solid	8260B	
500-118540-14 MS	G-14	Total/NA	Solid	8260B	356386
500-118540-14 MSD	G-14	Total/NA	Solid	8260B	356386

Analysis Batch: 356582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-4	G-4	Total/NA	Solid	8260B	356386
500-118540-6	G-6	Total/NA	Solid	8260B	356386
500-118540-7	G-7	Total/NA	Solid	8260B	356386
500-118540-8	G-8	Total/NA	Solid	8260B	356386
500-118540-15	Methanol Blank	Total/NA	Solid	8260B	356386
LB3 500-356386/16-A	Method Blank	Total/NA	Solid	8260B	356386
MB 500-356582/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-356386/17-A	Lab Control Sample	Total/NA	Solid	8260B	356386
LCS 500-356582/7	Lab Control Sample	Total/NA	Solid	8260B	
500-118540-8 MS	G-8	Total/NA	Solid	8260B	356386

TestAmerica Chicago

QC Association Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

GC/MS VOA (Continued)

Analysis Batch: 356582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-8 MSD	G-8	Total/NA	Solid	8260B	356386

GC/MS Semi VOA

Prep Batch: 356117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	3541	
500-118540-4	G-4	Total/NA	Solid	3541	
500-118540-6	G-6	Total/NA	Solid	3541	
500-118540-12	G-12	Total/NA	Solid	3541	
500-118540-13	G-13	Total/NA	Solid	3541	
500-118540-14	G-14	Total/NA	Solid	3541	
MB 500-356117/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-356117/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 356316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-4	G-4	Total/NA	Solid	8270D	356117
500-118540-6	G-6	Total/NA	Solid	8270D	356117
500-118540-12	G-12	Total/NA	Solid	8270D	356117
500-118540-13	G-13	Total/NA	Solid	8270D	356117
MB 500-356117/1-A	Method Blank	Total/NA	Solid	8270D	356117
LCS 500-356117/2-A	Lab Control Sample	Total/NA	Solid	8270D	356117

Analysis Batch: 356456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	8270D	356117

Analysis Batch: 356637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-14	G-14	Total/NA	Solid	8270D	356117

GC Semi VOA

Analysis Batch: 356224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-356295/1-A	Method Blank	Total/NA	Solid	8082A	356295
LCS 500-356295/3-A	Lab Control Sample	Total/NA	Solid	8082A	356295

Prep Batch: 356295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-5	G-5	Total/NA	Solid	3541	
500-118540-6	G-6	Total/NA	Solid	3541	
MB 500-356295/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-356295/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 356874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-5	G-5	Total/NA	Solid	8082A	356295
500-118540-6	G-6	Total/NA	Solid	8082A	356295

TestAmerica Chicago

QC Association Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Metals

Prep Batch: 356852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	3050B	
500-118540-4	G-4	Total/NA	Solid	3050B	
500-118540-6	G-6	Total/NA	Solid	3050B	
500-118540-11	G-11	Total/NA	Solid	3050B	
MB 500-356852/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-356852/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 357019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	6010B	356852
500-118540-4	G-4	Total/NA	Solid	6010B	356852
500-118540-6	G-6	Total/NA	Solid	6010B	356852
500-118540-11	G-11	Total/NA	Solid	6010B	356852
MB 500-356852/1-A	Method Blank	Total/NA	Solid	6010B	356852
LCS 500-356852/2-A	Lab Control Sample	Total/NA	Solid	6010B	356852

General Chemistry

Analysis Batch: 356366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-1	G-1	Total/NA	Solid	Moisture	
500-118540-2	G-2	Total/NA	Solid	Moisture	
500-118540-3	G-3	Total/NA	Solid	Moisture	
500-118540-4	G-4	Total/NA	Solid	Moisture	
500-118540-5	G-5	Total/NA	Solid	Moisture	
500-118540-6	G-6	Total/NA	Solid	Moisture	
500-118540-7	G-7	Total/NA	Solid	Moisture	
500-118540-8	G-8	Total/NA	Solid	Moisture	
500-118540-9	G-9	Total/NA	Solid	Moisture	
500-118540-10	G-10	Total/NA	Solid	Moisture	
500-118540-11	G-11	Total/NA	Solid	Moisture	
500-118540-12	G-12	Total/NA	Solid	Moisture	
500-118540-13	G-13	Total/NA	Solid	Moisture	
500-118540-14	G-14	Total/NA	Solid	Moisture	
500-118540-15	Methanol Blank	Total/NA	Solid	Moisture	
500-118540-1 DU	G-1	Total/NA	Solid	Moisture	

Surrogate Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-118540-1	G-1	113	90	100	100
500-118540-2	G-2	111	90	98	100
500-118540-3	G-3	112	92	101	99
500-118540-4	G-4	88	109	108	88
500-118540-5	G-5	107	93	97	99
500-118540-6	G-6	99	100	104	85
500-118540-7	G-7	99	102	104	93
500-118540-8	G-8	97	102	106	91
500-118540-8 MS	G-8	95	102	103	94
500-118540-8 MSD	G-8	91	102	101	90
500-118540-9	G-9	111	91	99	100
500-118540-10	G-10	115	89	98	101
500-118540-11	G-11	115	90	98	100
500-118540-12	G-12	114	91	97	101
500-118540-13	G-13	113	90	97	99
500-118540-14	G-14	110	90	98	100
500-118540-14 MS	G-14	110	93	98	100
500-118540-14 MSD	G-14	108	93	98	101
500-118540-15	Methanol Blank	106	102	107	93
LB3 500-356386/16-A	Method Blank	83	101	104	90
LCS 500-356386/17-A	Lab Control Sample	97	97	99	94
LCS 500-356578/3	Lab Control Sample	111	93	101	99
LCS 500-356582/7	Lab Control Sample	98	95	97	96
MB 500-356578/6	Method Blank	112	90	99	101
MB 500-356582/6	Method Blank	97	100	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	NBZ	TPH
		(42-115)	(33-124)	(25-150)
500-118540-1	G-1	87	86	106
500-118540-4	G-4	65	70	84
500-118540-6	G-6	70	72	82
500-118540-12	G-12	81	85	99
500-118540-13	G-13	76	89	91
500-118540-14	G-14	0 D	0 D	0 D
LCS 500-356117/2-A	Lab Control Sample	64	71	66
MB 500-356117/1-A	Method Blank	71	77	82

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)

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Surrogate Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2	DCB2
		(41-124)	(47-127)
500-118540-5	G-5	72	112
500-118540-6	G-6	91	115
LCS 500-356295/3-A	Lab Control Sample	73	98
MB 500-356295/1-A	Method Blank	58	92

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-356386/16-A

Matrix: Solid

Analysis Batch: 356582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 356386

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Bromobenzene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Bromochloromethane	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Bromodichloromethane	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Bromoform	<24		50	24	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Bromomethane	<40		100	40	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Carbon tetrachloride	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Chlorobenzene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Chloroethane	<25		50	25	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Chloroform	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Chloromethane	<16		50	16	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
2-Chlorotoluene	<16		50	16	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
4-Chlorotoluene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Dibromochloromethane	<24		50	24	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2-Dibromoethane	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Dibromomethane	<14		50	14	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1-Dichloroethane	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2-Dichloroethane	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1-Dichloroethene	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2-Dichloropropane	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,3-Dichloropropane	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
2,2-Dichloropropane	<22		50	22	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1-Dichloropropene	<15		50	15	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Hexachlorobutadiene	<22		50	22	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Isopropylbenzene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Isopropyl ether	<14		50	14	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Methylene Chloride	<82		250	82	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Naphthalene	<17		50	17	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
n-Butylbenzene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
N-Propylbenzene	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
p-Isopropyltoluene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
sec-Butylbenzene	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Styrene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
tert-Butylbenzene	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Tetrachloroethene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Toluene	<7.4		13	7.4	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-356386/16-A
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356386

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Trichloroethene	<8.2		25	8.2	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Trichlorofluoromethane	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Vinyl chloride	<13		25	13	ug/Kg		10/16/16 12:00	10/18/16 01:22	50
Xylenes, Total	<11		25	11	ug/Kg		10/16/16 12:00	10/18/16 01:22	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		71 - 120	10/16/16 12:00	10/18/16 01:22	50
Dibromofluoromethane	101		70 - 120	10/16/16 12:00	10/18/16 01:22	50
1,2-Dichloroethane-d4 (Surr)	104		71 - 127	10/16/16 12:00	10/18/16 01:22	50
Toluene-d8 (Surr)	90		75 - 120	10/16/16 12:00	10/18/16 01:22	50

Lab Sample ID: LCS 500-356386/17-A
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	2500	2640		ug/Kg		105	70 - 125
Bromobenzene	2500	2810		ug/Kg		113	70 - 125
Bromochloromethane	2500	2490		ug/Kg		100	70 - 125
Bromodichloromethane	2500	2720		ug/Kg		109	70 - 125
Bromoform	2500	2760		ug/Kg		111	54 - 128
Bromomethane	2500	1520		ug/Kg		61	40 - 150
Carbon tetrachloride	2500	2800		ug/Kg		112	70 - 125
Chlorobenzene	2500	2890		ug/Kg		116	70 - 125
Chloroethane	2500	1920		ug/Kg		77	60 - 139
Chloroform	2500	2390		ug/Kg		96	70 - 125
Chloromethane	2500	1840		ug/Kg		74	60 - 140
2-Chlorotoluene	2500	2840		ug/Kg		114	69 - 125
4-Chlorotoluene	2500	2840		ug/Kg		114	70 - 125
cis-1,2-Dichloroethene	2500	2210		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	2500	2640		ug/Kg		106	70 - 125
Dibromochloromethane	2500	2730		ug/Kg		109	66 - 125
1,2-Dibromo-3-Chloropropane	2500	2470		ug/Kg		99	51 - 125
1,2-Dibromoethane	2500	2610		ug/Kg		104	70 - 125
Dibromomethane	2500	2600		ug/Kg		104	70 - 125
1,2-Dichlorobenzene	2500	2860		ug/Kg		114	70 - 125
1,3-Dichlorobenzene	2500	2850		ug/Kg		114	70 - 125
1,4-Dichlorobenzene	2500	2820		ug/Kg		113	70 - 125
Dichlorodifluoromethane	2500	1360		ug/Kg		55	51 - 140
1,1-Dichloroethane	2500	2530		ug/Kg		101	70 - 125

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-356386/17-A
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2880		ug/Kg		115	70 - 125
1,1-Dichloroethene	2500	2380		ug/Kg		95	70 - 125
1,2-Dichloropropane	2500	2890		ug/Kg		115	70 - 125
1,3-Dichloropropane	2500	2810		ug/Kg		112	70 - 125
2,2-Dichloropropane	2500	2190		ug/Kg		88	62 - 125
1,1-Dichloropropene	2500	2880		ug/Kg		115	70 - 125
Ethylbenzene	2500	2680		ug/Kg		107	70 - 125
Hexachlorobutadiene	2500	3410		ug/Kg		136	57 - 140
Isopropylbenzene	2500	2730		ug/Kg		109	70 - 125
Methylene Chloride	2500	2380		ug/Kg		95	68 - 125
Methyl tert-butyl ether	2500	2070		ug/Kg		83	67 - 125
Naphthalene	2500	2300		ug/Kg		92	50 - 136
n-Butylbenzene	2500	2820		ug/Kg		113	70 - 125
N-Propylbenzene	2500	2830		ug/Kg		113	70 - 125
p-Isopropyltoluene	2500	2780		ug/Kg		111	70 - 125
sec-Butylbenzene	2500	2790		ug/Kg		111	70 - 125
Styrene	2500	2760		ug/Kg		110	70 - 125
tert-Butylbenzene	2500	2860		ug/Kg		114	70 - 125
1,1,1,2-Tetrachloroethane	2500	2820		ug/Kg		113	68 - 125
1,1,1,2,2-Tetrachloroethane	2500	2800		ug/Kg		112	68 - 125
Tetrachloroethene	2500	3050		ug/Kg		122	70 - 125
Toluene	2500	2800		ug/Kg		112	70 - 125
trans-1,2-Dichloroethene	2500	2270		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	2500	2580		ug/Kg		103	70 - 125
1,2,3-Trichlorobenzene	2500	2790		ug/Kg		112	58 - 135
1,2,4-Trichlorobenzene	2500	2800		ug/Kg		112	64 - 126
1,1,1-Trichloroethane	2500	2580		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	2500	2630		ug/Kg		105	70 - 125
Trichloroethene	2500	2950		ug/Kg		118	70 - 125
Trichlorofluoromethane	2500	2310		ug/Kg		92	60 - 126
1,2,3-Trichloropropane	2500	2550		ug/Kg		102	63 - 125
1,2,4-Trimethylbenzene	2500	2820		ug/Kg		113	70 - 125
1,3,5-Trimethylbenzene	2500	2820		ug/Kg		113	70 - 125
Vinyl chloride	2500	1870		ug/Kg		75	70 - 126
Xylenes, Total	5000	5500		ug/Kg		110	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		71 - 120
Dibromofluoromethane	97		70 - 120
1,2-Dichloroethane-d4 (Surr)	99		71 - 127
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: 500-118540-8 MS
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: G-8
Prep Type: Total/NA
Prep Batch: 356386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<9.6		3300	2390		ug/Kg	☒	72	70 - 125

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118540-8 MS
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: G-8
Prep Type: Total/NA
Prep Batch: 356386
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Bromobenzene	<24		3300	2690		ug/Kg	☼	81	70 - 125
Bromochloromethane	<28		3300	2830		ug/Kg	☼	86	70 - 125
Bromodichloromethane	<25		3300	3420		ug/Kg	☼	104	70 - 125
Bromoform	<32		3300	2590		ug/Kg	☼	78	54 - 128
Bromomethane	<53		3300	2550		ug/Kg	☼	77	40 - 150
Carbon tetrachloride	<25		3300	3000		ug/Kg	☼	91	70 - 125
Chlorobenzene	<25		3300	2740		ug/Kg	☼	83	70 - 125
Chloroethane	<33		3300	2570		ug/Kg	☼	78	60 - 139
Chloroform	<24		3300	2680		ug/Kg	☼	81	70 - 125
Chloromethane	<21		3300	2400		ug/Kg	☼	73	60 - 140
2-Chlorotoluene	<21		3300	2640		ug/Kg	☼	80	69 - 125
4-Chlorotoluene	<23		3300	2640		ug/Kg	☼	80	70 - 125
cis-1,2-Dichloroethene	<27		3300	2460		ug/Kg	☼	74	70 - 125
cis-1,3-Dichloropropene	<27		3300	2510		ug/Kg	☼	76	70 - 125
Dibromochloromethane	<32		3300	2570		ug/Kg	☼	78	66 - 125
1,2-Dibromo-3-Chloropropane	<130		3300	1950		ug/Kg	☼	59	51 - 125
1,2-Dibromoethane	<25		3300	2540		ug/Kg	☼	77	70 - 125
Dibromomethane	<18		3300	3250		ug/Kg	☼	98	70 - 125
1,2-Dichlorobenzene	<22		3300	2670		ug/Kg	☼	81	70 - 125
1,3-Dichlorobenzene	<26		3300	2710		ug/Kg	☼	82	70 - 125
1,4-Dichlorobenzene	<24		3300	2650		ug/Kg	☼	80	70 - 125
Dichlorodifluoromethane	<45		3300	2800		ug/Kg	☼	85	51 - 140
1,1-Dichloroethane	<27		3300	2520		ug/Kg	☼	76	70 - 125
1,2-Dichloroethane	<26		3300	2840		ug/Kg	☼	86	70 - 125
1,1-Dichloroethene	<26	F2	3300	2630		ug/Kg	☼	80	70 - 125
1,2-Dichloropropane	<28		3300	3100		ug/Kg	☼	94	70 - 125
1,3-Dichloropropane	<24		3300	2670		ug/Kg	☼	81	70 - 125
2,2-Dichloropropane	<29		3300	2460		ug/Kg	☼	74	62 - 125
1,1-Dichloropropene	<20		3300	2650		ug/Kg	☼	80	70 - 125
Ethylbenzene	<12		3300	2520		ug/Kg	☼	76	70 - 125
Hexachlorobutadiene	<29		3300	3090		ug/Kg	☼	94	57 - 140
Isopropylbenzene	<25		3300	2530		ug/Kg	☼	77	70 - 125
Methylene Chloride	<110		3300	2530		ug/Kg	☼	76	68 - 125
Methyl tert-butyl ether	<26		3300	2270		ug/Kg	☼	69	67 - 125
Naphthalene	<22		3300	1860		ug/Kg	☼	56	50 - 136
n-Butylbenzene	<26		3300	2610		ug/Kg	☼	79	70 - 125
N-Propylbenzene	<27		3300	2630		ug/Kg	☼	80	70 - 125
p-Isopropyltoluene	<24		3300	2570		ug/Kg	☼	78	70 - 125
sec-Butylbenzene	<26		3300	2560		ug/Kg	☼	78	70 - 125
Styrene	<25		3300	2560		ug/Kg	☼	77	70 - 125
tert-Butylbenzene	<26		3300	2660		ug/Kg	☼	81	70 - 125
1,1,1,2-Tetrachloroethane	<31		3300	2630		ug/Kg	☼	80	68 - 125
1,1,2,2-Tetrachloroethane	<26		3300	2630		ug/Kg	☼	80	68 - 125
Tetrachloroethene	<24		3300	2930		ug/Kg	☼	89	70 - 125
Toluene	<9.7		3300	2680		ug/Kg	☼	81	70 - 125
trans-1,2-Dichloroethene	<23		3300	2550		ug/Kg	☼	77	70 - 125
trans-1,3-Dichloropropene	<24		3300	2410		ug/Kg	☼	73	70 - 125
1,2,3-Trichlorobenzene	<30		3300	2530		ug/Kg	☼	77	58 - 135

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118540-8 MS
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: G-8
Prep Type: Total/NA
Prep Batch: 356386
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
1,2,4-Trichlorobenzene	<23		3300	2390		ug/Kg	☼	72	64 - 126	
1,1,1-Trichloroethane	<25		3300	2720		ug/Kg	☼	82	70 - 125	
1,1,2-Trichloroethane	<23		3300	2540		ug/Kg	☼	77	70 - 125	
Trichloroethene	<11		3300	3660		ug/Kg	☼	111	70 - 125	
Trichlorofluoromethane	<28		3300	3260		ug/Kg	☼	99	60 - 126	
1,2,3-Trichloropropane	<27		3300	2320		ug/Kg	☼	70	63 - 125	
1,2,4-Trimethylbenzene	<24		3300	2650		ug/Kg	☼	80	70 - 125	
1,3,5-Trimethylbenzene	<25		3300	2630		ug/Kg	☼	80	70 - 125	
Vinyl chloride	<17	F1	3300	2280	F1	ug/Kg	☼	69	70 - 126	
Xylenes, Total	<15		6600	5100		ug/Kg	☼	77	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	95		71 - 120							
Dibromofluoromethane	102		70 - 120							
1,2-Dichloroethane-d4 (Surr)	103		71 - 127							
Toluene-d8 (Surr)	94		75 - 120							

Lab Sample ID: 500-118540-8 MSD
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: G-8
Prep Type: Total/NA
Prep Batch: 356386
%Rec.
RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<9.6		3300	2590		ug/Kg	☼	78	70 - 125	8	30
Bromobenzene	<24		3300	2920		ug/Kg	☼	88	70 - 125	8	30
Bromochloromethane	<28		3300	3000		ug/Kg	☼	91	70 - 125	6	30
Bromodichloromethane	<25		3300	2830		ug/Kg	☼	86	70 - 125	19	30
Bromoform	<32		3300	3120		ug/Kg	☼	94	54 - 128	18	30
Bromomethane	<53		3300	2480		ug/Kg	☼	75	40 - 150	3	30
Carbon tetrachloride	<25		3300	3100		ug/Kg	☼	94	70 - 125	3	30
Chlorobenzene	<25		3300	2980		ug/Kg	☼	90	70 - 125	8	30
Chloroethane	<33		3300	3170		ug/Kg	☼	96	60 - 139	21	30
Chloroform	<24		3300	2880		ug/Kg	☼	87	70 - 125	7	30
Chloromethane	<21		3300	2200		ug/Kg	☼	67	60 - 140	9	30
2-Chlorotoluene	<21		3300	2670		ug/Kg	☼	81	69 - 125	1	30
4-Chlorotoluene	<23		3300	2680		ug/Kg	☼	81	70 - 125	2	30
cis-1,2-Dichloroethene	<27		3300	2600		ug/Kg	☼	79	70 - 125	6	30
cis-1,3-Dichloropropene	<27		3300	2490		ug/Kg	☼	75	70 - 125	1	30
Dibromochloromethane	<32		3300	2990		ug/Kg	☼	91	66 - 125	15	30
1,2-Dibromo-3-Chloropropane	<130		3300	2510		ug/Kg	☼	76	51 - 125	25	30
1,2-Dibromoethane	<25		3300	2700		ug/Kg	☼	82	70 - 125	6	30
Dibromomethane	<18		3300	2680		ug/Kg	☼	81	70 - 125	19	30
1,2-Dichlorobenzene	<22		3300	2950		ug/Kg	☼	89	70 - 125	10	30
1,3-Dichlorobenzene	<26		3300	2930		ug/Kg	☼	89	70 - 125	8	30
1,4-Dichlorobenzene	<24		3300	2890		ug/Kg	☼	87	70 - 125	9	30
Dichlorodifluoromethane	<45		3300	2480		ug/Kg	☼	75	51 - 140	12	30
1,1-Dichloroethane	<27		3300	2700		ug/Kg	☼	82	70 - 125	7	30
1,2-Dichloroethane	<26		3300	3050		ug/Kg	☼	92	70 - 125	7	30
1,1-Dichloroethene	<26	F2	3300	3610	F2	ug/Kg	☼	109	70 - 125	31	30

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118540-8 MSD
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: G-8
Prep Type: Total/NA
Prep Batch: 356386

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
1,2-Dichloropropane	<28		3300	2680		ug/Kg	☼	81	70 - 125	15	30
1,3-Dichloropropane	<24		3300	2630		ug/Kg	☼	80	70 - 125	1	30
2,2-Dichloropropane	<29		3300	2570		ug/Kg	☼	78	62 - 125	5	30
1,1-Dichloropropene	<20		3300	2820		ug/Kg	☼	86	70 - 125	6	30
Ethylbenzene	<12		3300	2670		ug/Kg	☼	81	70 - 125	6	30
Hexachlorobutadiene	<29		3300	3890		ug/Kg	☼	118	57 - 140	23	30
Isopropylbenzene	<25		3300	2620		ug/Kg	☼	79	70 - 125	4	30
Methylene Chloride	<110		3300	2730		ug/Kg	☼	83	68 - 125	8	30
Methyl tert-butyl ether	<26		3300	2500		ug/Kg	☼	76	67 - 125	9	30
Naphthalene	<22		3300	2420		ug/Kg	☼	73	50 - 136	26	30
n-Butylbenzene	<26		3300	2680		ug/Kg	☼	81	70 - 125	3	30
N-Propylbenzene	<27		3300	2620		ug/Kg	☼	79	70 - 125	0	30
p-Isopropyltoluene	<24		3300	2750		ug/Kg	☼	83	70 - 125	7	30
sec-Butylbenzene	<26		3300	2680		ug/Kg	☼	81	70 - 125	5	30
Styrene	<25		3300	2790		ug/Kg	☼	85	70 - 125	9	30
tert-Butylbenzene	<26		3300	2830		ug/Kg	☼	86	70 - 125	6	30
1,1,1,2-Tetrachloroethane	<31		3300	3070		ug/Kg	☼	93	68 - 125	15	30
1,1,1,2,2-Tetrachloroethane	<26		3300	2550		ug/Kg	☼	77	68 - 125	3	30
Tetrachloroethene	<24		3300	3390		ug/Kg	☼	103	70 - 125	14	30
Toluene	<9.7		3300	2730		ug/Kg	☼	83	70 - 125	2	30
trans-1,2-Dichloroethene	<23		3300	2670		ug/Kg	☼	81	70 - 125	5	30
trans-1,3-Dichloropropene	<24		3300	2560		ug/Kg	☼	77	70 - 125	6	30
1,2,3-Trichlorobenzene	<30		3300	3180		ug/Kg	☼	96	58 - 135	23	30
1,2,4-Trichlorobenzene	<23		3300	3080		ug/Kg	☼	93	64 - 126	25	30
1,1,1-Trichloroethane	<25		3300	2840		ug/Kg	☼	86	70 - 125	5	30
1,1,2-Trichloroethane	<23		3300	2590		ug/Kg	☼	79	70 - 125	2	30
Trichloroethene	<11		3300	3160		ug/Kg	☼	96	70 - 125	15	30
Trichlorofluoromethane	<28		3300	3480		ug/Kg	☼	105	60 - 126	7	30
1,2,3-Trichloropropane	<27		3300	2290		ug/Kg	☼	69	63 - 125	1	30
1,2,4-Trimethylbenzene	<24		3300	2760		ug/Kg	☼	83	70 - 125	4	30
1,3,5-Trimethylbenzene	<25		3300	2740		ug/Kg	☼	83	70 - 125	4	30
Vinyl chloride	<17	F1	3300	2050	F1	ug/Kg	☼	62	70 - 126	11	30
Xylenes, Total	<15		6600	5530		ug/Kg	☼	84	70 - 125	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		71 - 120
Dibromofluoromethane	102		70 - 120
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
Toluene-d8 (Surr)	90		75 - 120

Lab Sample ID: 500-118540-14 MS
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: G-14
Prep Type: Total/NA
Prep Batch: 356386

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	
Benzene	120		5450	5180		ug/Kg	☼	93	70 - 125	
Ethylbenzene	150		5450	5100		ug/Kg	☼	91	70 - 125	
Methyl tert-butyl ether	<43		5450	4900		ug/Kg	☼	90	67 - 125	

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118540-14 MS
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: G-14
Prep Type: Total/NA
Prep Batch: 356386
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Naphthalene	300		5450	5760		ug/Kg	☼	100	50 - 136
Toluene	110		5450	5420		ug/Kg	☼	97	70 - 125
1,2,4-Trimethylbenzene	220		5450	5520		ug/Kg	☼	97	70 - 125
1,3,5-Trimethylbenzene	<41		5450	5300		ug/Kg	☼	97	70 - 125
Xylenes, Total	510		10900	10800		ug/Kg	☼	94	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		71 - 120
Dibromofluoromethane	93		70 - 120
1,2-Dichloroethane-d4 (Surr)	98		71 - 127
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: 500-118540-14 MSD
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: G-14
Prep Type: Total/NA
Prep Batch: 356386
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	120		5450	5150		ug/Kg	☼	92	70 - 125	1	30
Ethylbenzene	150		5450	5030		ug/Kg	☼	90	70 - 125	1	30
Methyl tert-butyl ether	<43		5450	4950		ug/Kg	☼	91	67 - 125	1	30
Naphthalene	300		5450	6030		ug/Kg	☼	105	50 - 136	4	30
Toluene	110		5450	5530		ug/Kg	☼	99	70 - 125	2	30
1,2,4-Trimethylbenzene	220		5450	5370		ug/Kg	☼	94	70 - 125	3	30
1,3,5-Trimethylbenzene	<41		5450	5280		ug/Kg	☼	97	70 - 125	0	30
Xylenes, Total	510		10900	10700		ug/Kg	☼	94	70 - 125	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		71 - 120
Dibromofluoromethane	93		70 - 120
1,2-Dichloroethane-d4 (Surr)	98		71 - 127
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: MB 500-356578/6
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			10/17/16 23:48	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/17/16 23:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/17/16 23:48	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			10/17/16 23:48	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/17/16 23:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/17/16 23:48	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/17/16 23:48	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/17/16 23:48	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-356578/6
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		71 - 120		10/17/16 23:48	1
Dibromofluoromethane	90		70 - 120		10/17/16 23:48	1
1,2-Dichloroethane-d4 (Surr)	99		71 - 127		10/17/16 23:48	1
Toluene-d8 (Surr)	101		75 - 120		10/17/16 23:48	1

Lab Sample ID: LCS 500-356578/3
Matrix: Solid
Analysis Batch: 356578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.2		ug/Kg		98	70 - 125
Ethylbenzene	50.0	47.7		ug/Kg		95	70 - 125
Methyl tert-butyl ether	50.0	46.9		ug/Kg		94	67 - 125
Naphthalene	50.0	46.6		ug/Kg		93	50 - 136
Toluene	50.0	51.4		ug/Kg		103	70 - 125
1,2,4-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 125
1,3,5-Trimethylbenzene	50.0	51.6		ug/Kg		103	70 - 125
Xylenes, Total	100	100		ug/Kg		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		71 - 120
Dibromofluoromethane	93		70 - 120
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-356582/6
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			10/18/16 00:54	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			10/18/16 00:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			10/18/16 00:54	1
Bromoform	<0.48		1.0	0.48	ug/Kg			10/18/16 00:54	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			10/18/16 00:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			10/18/16 00:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			10/18/16 00:54	1
Chloroform	<0.37		1.0	0.37	ug/Kg			10/18/16 00:54	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			10/18/16 00:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			10/18/16 00:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			10/18/16 00:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			10/18/16 00:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			10/18/16 00:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			10/18/16 00:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			10/18/16 00:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-356582/6
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dibromomethane	<0.27		1.0	0.27	ug/Kg			10/18/16 00:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			10/18/16 00:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			10/18/16 00:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			10/18/16 00:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			10/18/16 00:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			10/18/16 00:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			10/18/16 00:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			10/18/16 00:54	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/18/16 00:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			10/18/16 00:54	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			10/18/16 00:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			10/18/16 00:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			10/18/16 00:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			10/18/16 00:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			10/18/16 00:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/18/16 00:54	1
Styrene	<0.39		1.0	0.39	ug/Kg			10/18/16 00:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/18/16 00:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			10/18/16 00:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			10/18/16 00:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			10/18/16 00:54	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/18/16 00:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			10/18/16 00:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			10/18/16 00:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			10/18/16 00:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			10/18/16 00:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			10/18/16 00:54	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			10/18/16 00:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			10/18/16 00:54	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			10/18/16 00:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/18/16 00:54	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/18/16 00:54	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			10/18/16 00:54	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/18/16 00:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		71 - 120		10/18/16 00:54	1
Dibromofluoromethane	100		70 - 120		10/18/16 00:54	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 127		10/18/16 00:54	1
Toluene-d8 (Surr)	93		75 - 120		10/18/16 00:54	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Lab Sample ID: LCS 500-356582/7
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.7		ug/Kg		89	70 - 125
Bromobenzene	50.0	45.8		ug/Kg		92	70 - 125
Bromochloromethane	50.0	45.0		ug/Kg		90	70 - 125
Bromodichloromethane	50.0	44.9		ug/Kg		90	70 - 125
Bromoform	50.0	44.0		ug/Kg		88	54 - 128
Bromomethane	50.0	39.2		ug/Kg		78	40 - 150
Carbon tetrachloride	50.0	47.4		ug/Kg		95	70 - 125
Chlorobenzene	50.0	48.5		ug/Kg		97	70 - 125
Chloroethane	50.0	47.3		ug/Kg		95	60 - 139
Chloroform	50.0	46.8		ug/Kg		94	70 - 125
Chloromethane	50.0	51.6		ug/Kg		103	60 - 140
2-Chlorotoluene	50.0	47.7		ug/Kg		95	69 - 125
4-Chlorotoluene	50.0	48.8		ug/Kg		98	70 - 125
cis-1,2-Dichloroethene	50.0	42.6		ug/Kg		85	70 - 125
cis-1,3-Dichloropropene	50.0	44.3		ug/Kg		89	70 - 125
Dibromochloromethane	50.0	44.3		ug/Kg		89	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/Kg		85	51 - 125
1,2-Dibromoethane	50.0	42.9		ug/Kg		86	70 - 125
Dibromomethane	50.0	43.7		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 125
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	50.0	47.0		ug/Kg		94	70 - 125
Dichlorodifluoromethane	50.0	44.6		ug/Kg		89	51 - 140
1,1-Dichloroethane	50.0	48.1		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 125
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 125
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	46.8		ug/Kg		94	70 - 125
2,2-Dichloropropane	50.0	42.8		ug/Kg		86	62 - 125
1,1-Dichloropropene	50.0	49.3		ug/Kg		99	70 - 125
Ethylbenzene	50.0	45.1		ug/Kg		90	70 - 125
Hexachlorobutadiene	50.0	56.1		ug/Kg		112	57 - 140
Isopropylbenzene	50.0	45.4		ug/Kg		91	70 - 125
Methylene Chloride	50.0	46.6		ug/Kg		93	68 - 125
Methyl tert-butyl ether	50.0	38.9		ug/Kg		78	67 - 125
Naphthalene	50.0	36.9		ug/Kg		74	50 - 136
n-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 125
N-Propylbenzene	50.0	49.0		ug/Kg		98	70 - 125
p-Isopropyltoluene	50.0	45.6		ug/Kg		91	70 - 125
sec-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 125
Styrene	50.0	46.8		ug/Kg		94	70 - 125
tert-Butylbenzene	50.0	48.2		ug/Kg		96	70 - 125
1,1,1,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	68 - 125
Tetrachloroethene	50.0	51.5		ug/Kg		103	70 - 125
Toluene	50.0	47.8		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	44.7		ug/Kg		89	70 - 125
trans-1,3-Dichloropropene	50.0	43.5		ug/Kg		87	70 - 125
1,2,3-Trichlorobenzene	50.0	47.5		ug/Kg		95	58 - 135
1,2,4-Trichlorobenzene	50.0	47.3		ug/Kg		95	64 - 126

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-356582/7
Matrix: Solid
Analysis Batch: 356582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.9		ug/Kg		88	70 - 125
1,1,2-Trichloroethane	50.0	43.9		ug/Kg		88	70 - 125
Trichloroethene	50.0	48.4		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	60 - 126
1,2,3-Trichloropropane	50.0	41.7		ug/Kg		83	63 - 125
1,2,4-Trimethylbenzene	50.0	47.9		ug/Kg		96	70 - 125
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 125
Vinyl chloride	50.0	49.3		ug/Kg		99	70 - 126
Xylenes, Total	100	93.2		ug/Kg		93	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		71 - 120
Dibromofluoromethane	95		70 - 120
1,2-Dichloroethane-d4 (Surr)	97		71 - 127
Toluene-d8 (Surr)	96		75 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-356117/1-A
Matrix: Solid
Analysis Batch: 356316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Acenaphthene	<6.0		33	6.0	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Anthracene	<5.6		33	5.6	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Chrysene	<9.1		33	9.1	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Fluorene	<4.7		33	4.7	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/13/16 19:30	10/15/16 10:53	1
Pyrene	<6.6		33	6.6	ug/Kg		10/13/16 19:30	10/15/16 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		42 - 115	10/13/16 19:30	10/15/16 10:53	1
Nitrobenzene-d5 (Surr)	77		33 - 124	10/13/16 19:30	10/15/16 10:53	1
Terphenyl-d14 (Surr)	82		25 - 150	10/13/16 19:30	10/15/16 10:53	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-356117/2-A
Matrix: Solid
Analysis Batch: 356316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1670	1070		ug/Kg		64	54 - 123
2-Methylnaphthalene	1670	1150		ug/Kg		69	55 - 120
Acenaphthene	1670	1110		ug/Kg		67	52 - 113
Acenaphthylene	1670	1080		ug/Kg		65	57 - 116
Anthracene	1670	1170		ug/Kg		70	57 - 118
Benzo[a]anthracene	1670	1120		ug/Kg		67	63 - 115
Benzo[a]pyrene	1670	1260		ug/Kg		76	64 - 122
Benzo[b]fluoranthene	1670	1210		ug/Kg		73	61 - 123
Benzo[g,h,i]perylene	1670	1250		ug/Kg		75	55 - 134
Benzo[k]fluoranthene	1670	1140		ug/Kg		69	59 - 125
Chrysene	1670	1160		ug/Kg		70	63 - 118
Dibenz(a,h)anthracene	1670	1310		ug/Kg		79	61 - 134
Fluoranthene	1670	1310		ug/Kg		79	61 - 124
Fluorene	1670	1160		ug/Kg		70	56 - 115
Indeno[1,2,3-cd]pyrene	1670	1240		ug/Kg		75	50 - 149
Naphthalene	1670	1110		ug/Kg		67	58 - 116
Phenanthrene	1670	1160		ug/Kg		70	58 - 125
Pyrene	1670	1120		ug/Kg		67	60 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	64		42 - 115
Nitrobenzene-d5 (Surr)	71		33 - 124
Terphenyl-d14 (Surr)	66		25 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-356295/1-A
Matrix: Solid
Analysis Batch: 356224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1221	<7.3		17	7.3	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1232	<7.3		17	7.3	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1242	<5.5		17	5.5	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1248	<6.6		17	6.6	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1254	<3.6		17	3.6	ug/Kg		10/14/16 17:50	10/14/16 23:27	1
PCB-1260	<8.2		17	8.2	ug/Kg		10/14/16 17:50	10/14/16 23:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		41 - 124	10/14/16 17:50	10/14/16 23:27	1
DCB Decachlorobiphenyl	92		47 - 127	10/14/16 17:50	10/14/16 23:27	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-356295/3-A
Matrix: Solid
Analysis Batch: 356224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	143		ug/Kg		86	60 - 118
PCB-1260	167	156		ug/Kg		93	66 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	73		41 - 124
DCB Decachlorobiphenyl	98		47 - 127

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-356852/1-A
Matrix: Solid
Analysis Batch: 357019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		10/19/16 08:11	10/19/16 17:53	1
Barium	<0.18		1.0	0.18	mg/Kg		10/19/16 08:11	10/19/16 17:53	1
Cadmium	<0.058		0.20	0.058	mg/Kg		10/19/16 08:11	10/19/16 17:53	1
Chromium	<0.17		1.0	0.17	mg/Kg		10/19/16 08:11	10/19/16 17:53	1
Lead	<0.25		0.50	0.25	mg/Kg		10/19/16 08:11	10/19/16 17:53	1

Lab Sample ID: LCS 500-356852/2-A
Matrix: Solid
Analysis Batch: 357019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.68		mg/Kg		87	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Cadmium	5.00	4.71		mg/Kg		94	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Lead	10.0	8.95		mg/Kg		89	80 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-1

Date Collected: 10/11/16 09:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-1

Date Collected: 10/11/16 09:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-1

Matrix: Solid

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 09:05	WRE	TAL CHI
Total/NA	Analysis	8260B		100	356578	10/18/16 03:17	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		10	356456	10/17/16 17:05	GES	TAL CHI
Total/NA	Prep	3050B			356852	10/19/16 08:11	JEF	TAL CHI
Total/NA	Analysis	6010B		1	357019	10/19/16 19:25	PJ1	TAL CHI

Client Sample ID: G-2

Date Collected: 10/11/16 09:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-2

Date Collected: 10/11/16 09:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-2

Matrix: Solid

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		100	356578	10/18/16 03:43	TCT	TAL CHI

Client Sample ID: G-3

Date Collected: 10/11/16 10:10

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-3

Date Collected: 10/11/16 10:10

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-3

Matrix: Solid

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 10:10	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-3

Date Collected: 10/11/16 10:10
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-3

Matrix: Solid
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	356578	10/18/16 04:09	TCT	TAL CHI

Client Sample ID: G-4

Date Collected: 10/11/16 10:40
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-4

Date Collected: 10/11/16 10:40
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4

Matrix: Solid
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356582	10/18/16 06:54	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	356316	10/15/16 16:06	AJD	TAL CHI
Total/NA	Prep	3050B			356852	10/19/16 08:11	JEF	TAL CHI
Total/NA	Analysis	6010B		1	357019	10/19/16 19:29	PJ1	TAL CHI

Client Sample ID: G-5

Date Collected: 10/11/16 11:15
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-5

Date Collected: 10/11/16 11:15
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-5

Matrix: Solid
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 04:36	TCT	TAL CHI
Total/NA	Prep	3541			356295	10/14/16 17:50	DEA	TAL CHI
Total/NA	Analysis	8082A		5	356874	10/19/16 10:32	BJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-6

Date Collected: 10/11/16 11:35

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-6

Date Collected: 10/11/16 11:35

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-6

Matrix: Solid

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 11:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356582	10/18/16 07:22	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	356316	10/15/16 16:35	AJD	TAL CHI
Total/NA	Prep	3541			356295	10/14/16 17:50	DEA	TAL CHI
Total/NA	Analysis	8082A		5	356874	10/19/16 10:47	BJH	TAL CHI
Total/NA	Prep	3050B			356852	10/19/16 08:11	JEF	TAL CHI
Total/NA	Analysis	6010B		1	357019	10/19/16 19:37	PJ1	TAL CHI

Client Sample ID: G-7

Date Collected: 10/11/16 12:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-7

Date Collected: 10/11/16 12:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-7

Matrix: Solid

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356582	10/18/16 07:49	TCT	TAL CHI

Client Sample ID: G-8

Date Collected: 10/11/16 12:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-8

Date Collected: 10/11/16 12:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-8

Matrix: Solid

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356582	10/18/16 08:17	TCT	TAL CHI

Client Sample ID: G-9

Date Collected: 10/11/16 13:20

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-9

Date Collected: 10/11/16 13:20

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-9

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 05:02	TCT	TAL CHI

Client Sample ID: G-10

Date Collected: 10/11/16 13:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-10

Date Collected: 10/11/16 13:30

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-10

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 05:28	TCT	TAL CHI

Client Sample ID: G-11

Date Collected: 10/11/16 14:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-11

Lab Sample ID: 500-118540-11

Date Collected: 10/11/16 14:05

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 14:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 05:54	TCT	TAL CHI
Total/NA	Prep	3050B			356852	10/19/16 08:11	JEF	TAL CHI
Total/NA	Analysis	6010B		1	357019	10/19/16 19:46	PJ1	TAL CHI

Client Sample ID: G-12

Lab Sample ID: 500-118540-12

Date Collected: 10/11/16 14:25

Matrix: Solid

Date Received: 10/13/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-12

Lab Sample ID: 500-118540-12

Date Collected: 10/11/16 14:25

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 14:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 06:20	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	356316	10/15/16 14:41	AJD	TAL CHI

Client Sample ID: G-13

Lab Sample ID: 500-118540-13

Date Collected: 10/11/16 15:00

Matrix: Solid

Date Received: 10/13/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-13

Lab Sample ID: 500-118540-13

Date Collected: 10/11/16 15:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 06:46	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	356316	10/15/16 17:03	AJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Client Sample ID: G-14

Lab Sample ID: 500-118540-14

Date Collected: 10/11/16 15:45

Matrix: Solid

Date Received: 10/13/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: G-14

Lab Sample ID: 500-118540-14

Date Collected: 10/11/16 15:45

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 64.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 15:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356578	10/18/16 07:12	TCT	TAL CHI
Total/NA	Prep	3541			356117	10/13/16 19:30	DEA	TAL CHI
Total/NA	Analysis	8270D		50	356637	10/18/16 16:17	AJD	TAL CHI

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

Date Collected: 10/11/16 00:00

Matrix: Solid

Date Received: 10/13/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	356366	10/16/16 09:57	LWN	TAL CHI

Client Sample ID: Methanol Blank

Lab Sample ID: 500-118540-15

Date Collected: 10/11/16 00:00

Matrix: Solid

Date Received: 10/13/16 10:20

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356386	10/11/16 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	356582	10/18/16 01:50	TCT	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17
Analysis Method	Prep Method	Matrix	Analyte	

- 1
- 2
- 3
- 4
- 5
- 6
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- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

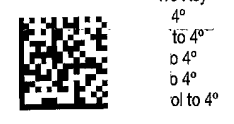
Report To (optional) _____
 Contact: Tony Kollasch
 Company: SCSEngineers
 Address: 2830 Dairy Dr.
Madison, WI 53718
 Phone: 608-216-7381
 Fax: _____
 E-Mail: _____

Bill To (optional) _____
 Contact: Tony Kollasch
 Company: SAME
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-118540
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 2.4

Client		Client Project #		Preservative		Parameter									
SCSEngineers		252116180		9 8 8 9 8 8		PNOCS + NapH Lead, As, Cd, Ch, Ba		PAH		VOCs		PCB		Dry Weight	
Project Name		Lab Project #		# of Containers		Matrix									
Kessenichis															
Project Location/State		Lab PM		Date		Time									
Madison, WI		Jackie DeBruyne													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix									
1		G-1	10-11-16	905	2	S	X	X	X						PID = 151.0
2		G-2	10-11-16	945	2	S	X								PID = 296.5
3		G-3	10-11-16	10:10	2	S	X								PID = 10.6
4		G-4	10-11-16	1040	3	S		X	X	X					PID = 6.1
5		G-5	10-11-16	1115	2	S	X				X				PID = 163.6
6		G-6	10-11-16	1135	3	S		X	X	X	X				PID = 25.0
7		G-7	10-11-16	1230	2	S				X					PID = 4.0
8		G-8	10-11-16	1245	2	S				X					PID = 3.3
9		G-9	10-11-16	1320	2	S	X			X					NO VOC PID = 3.2
10		G-10	10-11-16	1330	2	S	X								PID = 1.4



500-118540 COC

Comments

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____

Requested Due Date 10-24-16

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company: <u>SCSEngineers</u> Date: <u>10-12-16</u> Time: <u>11:45</u>	Received By <u>[Signature]</u> Company: <u>TRATE</u> Date: <u>10/13/16</u> Time: <u>10:20</u>	Lab Courier: _____
Relinquished By _____ Company: _____ Date: _____ Time: _____	Received By _____ Company: _____ Date: _____ Time: _____	Shipped: <u>FX STD</u>
Relinquished By _____ Company: _____ Date: _____ Time: _____	Received By _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Tony Kollasch
 Company: SCS Engineers
 Address: 2830 Milky Dr.
 Address: Madison, WI 53711
 Phone: 608-216-7381
 Fax:
 E-Mail:

Bill To (optional)
 Contact: Tony Kollasch
 Company: SCS Engineers
 Address: SAME
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-118540
 Chain of Custody Number:
 Page 2 of 2
 Temperature °C of Cooler: 2.4

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Date		Time		# of Containers		
Project Location/State		Lab PM		Date		Time		# of Containers		
SCS Engineers		252116180		9		8		8		Comments PID = 8.6 PID = 2.7 PID = 34.4 PID = 360.3
Kessenich's				8		9		8		
Madison, WI				8		8		8		
Sackie DeBruyn				9		8		8		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	PAH	VOCs	PCB	Dry Weight
		G-10	10-11-16							
11		G-11	10-11-16	1405	2	S	X	X		X
12		G-12	10-11-16	1425	2	S	X		X	X
13		G-13	10-11-16	1500	2	S	X		X	X
14		G-14	10-11-16	1545	2	S	X		X	X
15		Methanol blank	10-11-16		1	O	X			X

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>SCS Engineers</u>	Date <u>10-12-16</u>	Time <u>11:45</u>	Received By <u>[Signature]</u>	Company <u>TA-CHF</u>	Date <u>10/13/16</u>	Time <u>10:20</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
 Shipped FX STD
 Hand Delivered

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments:

Lab Comments:

500

FedEx Package
Express *US Airbill*

FedEx Tracking Number **8108 1333 1995**

Form ID No. **0211**

1 From
Date **10-12-11e**

Sender's Name **Jackie DeBruyne** Phone **608 381-9188**

Company **SCS Engineers**

Address **2830 Dairy Dr.**
Dept./Floor/Suite/Room

City **Madison** State **WI** ZIP **53718**

2 Your Internal Billing Reference

3 To
Recipient's Name **SAMPLE RECEIPT** Phone **708 534-5200**

Company **TESTAMERICA CHICAGO LAB**

Address **2417 BOND ST**
We cannot deliver to P.O. boxes or P.D. ZIP codes.
Dept./Floor/Suite/Room

Address **UNIVERSITY PARK**
Use this line for the HOLD location address or for continuation of your shipping address.
City **IL** State **IL** ZIP **60484-3101**

Hold Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

Hold Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package S

Next Business Day

FedEx First Overnight
Coldest next business morning
locations. Friday shipments will
Monday unless Saturday Deliver.

FedEx Priority Overnight
Next business morning. * Friday ship
covered on Monday unless Saturday
selected.

Standard Overnight
*Afternoon.
*OT available

5 P
 FedEx

6 Special

Saturday L
NOT available for

No Signature
Recipient may be
obtaining a signature

Does this shipment

No **Yes**
As per attached
Shipper's Declaration

Restrictions apply for dangerous goods

7 Payment Bill to:

Sender Recipient

Total Packages **1** Total Weight **50** lbs.

*Our liability is limited to US\$100 unless you declare a higher value. See the current Per 500-118540 Waybill

Rev. Date 5/15 • Part #153134 • ©1994-2015 FedEx • PRINTED IN U.S.A. SRM

FedEx
TRK# **8108 1333 1995**
0215

79 JOTA

THU - 13 OCT AA
STANDARD OVERNIGHT

60484
IL-US
ORD



FTD: 5029917 12OCT16 MSNA 639C3/F042/8EBA



8108 1333 1995



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-118540-1

Login Number: 118540

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-118540-2

Client Project/Site: Kessenichs - 25216180

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Tony Kollasch



Authorized for release by:

10/31/2016 12:14:18 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Job ID: 500-118540-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-118540-2

Comments

No additional comments.

Receipt

The samples were received on 10/13/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

Receipt Exceptions

Client added TCLP lead to sample G-4 via email on 10/26/16.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
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- 13
- 14

Detection Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Client Sample ID: G-4

Lab Sample ID: 500-118540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.71		0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

- 1
- 2
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- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
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- 5
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- 9
- 10
- 11
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- 13
- 14

Sample Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118540-4	G-4	Solid	10/11/16 10:40	10/13/16 10:20

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Client Sample ID: G-4
Date Collected: 10/11/16 10:40
Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.71		0.050	0.0075	mg/L		10/28/16 08:46	10/28/16 19:48	1

- 1
- 2
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- 13
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Definitions/Glossary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Metals

Leach Batch: 358184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-4	G-4	TCLP	Solid	1311	
LB 500-358184/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 358267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-4	G-4	TCLP	Solid	3010A	358184
LB 500-358184/1-B	Method Blank	TCLP	Solid	3010A	358184
LCS 500-358267/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 358522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118540-4	G-4	TCLP	Solid	6010B	358267
LB 500-358184/1-B	Method Blank	TCLP	Solid	6010B	358267
LCS 500-358267/2-A	Lab Control Sample	Total/NA	Solid	6010B	358267

QC Sample Results

Client: SCS Engineers
 Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-358267/2-A
 Matrix: Solid
 Analysis Batch: 358522

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 358267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0981		mg/L		98	80 - 120

Lab Sample ID: LB 500-358184/1-B
 Matrix: Solid
 Analysis Batch: 358522

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 358267

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/28/16 08:46	10/28/16 19:33	1

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Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Client Sample ID: G-4

Date Collected: 10/11/16 10:40

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118540-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			358184	10/27/16 15:30	RMP	TAL CHI
TCLP	Prep	3010A			358267	10/28/16 08:46	JEF	TAL CHI
TCLP	Analysis	6010B		1	358522	10/28/16 19:48	PJ1	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: SCS Engineers
Project/Site: Kessenichs - 25216180

TestAmerica Job ID: 500-118540-2

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Analysis Method	Prep Method	Matrix	Analyte
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____
 Contact: Tony Kollasch
 Company: SCSEngineers
 Address: 2830 Dairy Dr.
Madison, WI 53718
 Phone: 608-216-7381
 Fax: _____
 E-Mail: _____

Bill To (optional) _____
 Contact: Tony Kollasch
 Company: SAME
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-118540
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 2.4

Client		Client Project #		Preservative		Parameter									
SCSEngineers		25216180		9 8 8 9 8 8		PNOCS + NapH Lead, As, Cd, Ch, Ba		PAH		VOCs		PCB		Dry Weight	
Project Name		Lab Project #		# of Containers		Matrix									
Kessenichs															
Project Location/State		Lab PM		Date		Time									
Madison, WI		Jackie DeBruyne													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix									Comments
1		G-1	10-11-16	905	2	S	X	X	X						PID = 151.0
2		G-2	10-11-16	945	2	S	X								PID = 296.5
3		G-3	10-11-16	10:10	2	S	X								PID = 10.6
4		G-4	10-11-16	1040	3	S		X	X	X					PID = 6.1
5		G-5	10-11-16	1115	2	S	X				X				PID = 163.6
6		G-6	10-11-16	1135	3	S		X	X	X	X				PID = 25.0
7		G-7	10-11-16	1230	2	S				X					PID = 4.0
8		G-8	10-11-16	1245	2	S				X					PID = 3.3
9		G-9	10-11-16	1320	2	S	X			X					NO VOC PID = 3.2
10		G-10	10-11-16	1330	2	S	X								PID = 1.4



500-118540 COC

Preservative Key
 4°
 to 4°
 0 4°
 0 4°
 ol to 4°

Turnaround Time Required (Business Days) _____
 Requested Due Date 10-24-16
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company: <u>SCSEngineers</u> Date: <u>10-12-16</u> Time: <u>11:45</u>	Received By <u>[Signature]</u> Company: <u>TRAF</u> Date: <u>10/13/16</u> Time: <u>10:20</u>	Lab Courier: _____
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	Shipped: <u>FX STD</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Tony Kollasch
 Company: SCS Engineers
 Address: 2830 Milky Dr.
 Address: Madison, WI 53711
 Phone: 608-216-7381
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: Tony Kollasch
 Company: SCS Engineers
 Address: SAME
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-118540
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 2.4

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key
SCS Engineers		252116180		9	8	8	9	8	8	
Project Name Kessenich's		Lab Project #		Parameter		Matrix		Matrix		
Project Location/State Madison, WI		Lab PM		Date		Time		# of Containers		Comments
Sampler Jackie DeBruyn		Date		Time		# of Containers		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
		G-10	10-11-16							
11		G-11	10-11-16	1405	2	S	X	X		PID = 8.6
12		G-12	10-11-16	1425	2	S	X			PID = 2.7
13		G-13	10-11-16	1500	2	S	X			PID = 34.4
14		G-14	10-11-16	1545	2	S	X			PID = 360.3
15		methanol blank	10-11-16		1	O	X			

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company SCS Engineers	Date 10-12-16	Time 1145	Received By <u>[Signature]</u>	Company TA-CHF	Date 10/13/16	Time 10:20
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FX STD
 Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-118540-2

Login Number: 118540

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-118538-1

Client Project/Site: Kessenich's - 25216180

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Tony Kollasch



Authorized for release by:

10/18/2016 12:24:21 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Job ID: 500-118538-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-118538-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 356442 recovered outside control limits for the following analytes: 1,3-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-1

Lab Sample ID: 500-118538-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.9		0.50	0.15	ug/L	1		8260B	Total/NA
n-Butylbenzene	1.3		1.0	0.39	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.79	J	1.0	0.40	ug/L	1		8260B	Total/NA
Chloromethane	8.0		1.0	0.32	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.41	ug/L	1		8260B	Total/NA
Isopropylbenzene	1.4		1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.6		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.77	J	1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.53		0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.79	J	1.0	0.36	ug/L	1		8260B	Total/NA
Vinyl chloride	0.65		0.50	0.20	ug/L	1		8260B	Total/NA
Xylenes, Total	1.7		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: G-4

Lab Sample ID: 500-118538-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	6.9		1.0	0.32	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.64	J	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: G-8

Lab Sample ID: 500-118538-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.42	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: G-11

Lab Sample ID: 500-118538-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	0.92	J	1.0	0.39	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.46	J	1.0	0.40	ug/L	1		8260B	Total/NA
Chloromethane	0.92	J	1.0	0.32	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.62	J	1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	1.3		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	2.7		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.82	J	1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.48	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	2.3		1.0	0.36	ug/L	1		8260B	Total/NA
Xylenes, Total	0.70	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-118538-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118538-1	G-1	Water	10/11/16 09:05	10/13/16 10:20
500-118538-2	G-4	Water	10/11/16 10:45	10/13/16 10:20
500-118538-3	G-8	Water	10/11/16 12:40	10/13/16 10:20
500-118538-4	G-11	Water	10/11/16 14:00	10/13/16 10:20
500-118538-5	Trip Blank	Water	10/11/16 00:00	10/13/16 10:20

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Client Sample Results

Client: SCS Engineers
 Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-1

Date Collected: 10/11/16 09:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.9		0.50	0.15	ug/L			10/17/16 16:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 16:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 16:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 16:09	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 16:09	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 16:09	1
n-Butylbenzene	1.3		1.0	0.39	ug/L			10/17/16 16:09	1
sec-Butylbenzene	0.79	J	1.0	0.40	ug/L			10/17/16 16:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 16:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 16:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 16:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 16:09	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 16:09	1
Chloromethane	8.0		1.0	0.32	ug/L			10/17/16 16:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 16:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 16:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 16:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 16:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 16:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 16:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 16:09	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 16:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 16:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
cis-1,2-Dichloroethene	1.5		1.0	0.41	ug/L			10/17/16 16:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 16:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 16:09	1
1,3-Dichloropropane	<0.36	*	1.0	0.36	ug/L			10/17/16 16:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 16:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 16:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 16:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 16:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 16:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 16:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 16:09	1
Isopropylbenzene	1.4		1.0	0.39	ug/L			10/17/16 16:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 16:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 16:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/17/16 16:09	1
N-Propylbenzene	1.6		1.0	0.41	ug/L			10/17/16 16:09	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 16:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 16:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 16:09	1
Tetrachloroethene	0.77	J	1.0	0.37	ug/L			10/17/16 16:09	1
Toluene	0.53		0.50	0.15	ug/L			10/17/16 16:09	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-1

Date Collected: 10/11/16 09:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 16:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 16:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 16:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 16:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 16:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 16:09	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 16:09	1
1,2,4-Trimethylbenzene	0.79	J	1.0	0.36	ug/L			10/17/16 16:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 16:09	1
Vinyl chloride	0.65		0.50	0.20	ug/L			10/17/16 16:09	1
Xylenes, Total	1.7		1.0	0.22	ug/L			10/17/16 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		71 - 127					10/17/16 16:09	1
Toluene-d8 (Surr)	99		75 - 120					10/17/16 16:09	1
4-Bromofluorobenzene (Surr)	114		71 - 120					10/17/16 16:09	1
Dibromofluoromethane	91		70 - 120					10/17/16 16:09	1

Client Sample ID: G-4

Date Collected: 10/11/16 10:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/17/16 16:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 16:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 16:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 16:34	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 16:34	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 16:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 16:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 16:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 16:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 16:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 16:34	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 16:34	1
Chloromethane	6.9		1.0	0.32	ug/L			10/17/16 16:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 16:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 16:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 16:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 16:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 16:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 16:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 16:34	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 16:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 16:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-4

Lab Sample ID: 500-118538-2

Date Collected: 10/11/16 10:45

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/17/16 16:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 16:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 16:34	1
1,3-Dichloropropane	<0.36 *		1.0	0.36	ug/L			10/17/16 16:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 16:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 16:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 16:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 16:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 16:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 16:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 16:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 16:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 16:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/17/16 16:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/17/16 16:34	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 16:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 16:34	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 16:34	1
Tetrachloroethene	0.64 J		1.0	0.37	ug/L			10/17/16 16:34	1
Toluene	<0.15		0.50	0.15	ug/L			10/17/16 16:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 16:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 16:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 16:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 16:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 16:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 16:34	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 16:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/17/16 16:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 16:34	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/17/16 16:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/17/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		71 - 127		10/17/16 16:34	1
Toluene-d8 (Surr)	95		75 - 120		10/17/16 16:34	1
4-Bromofluorobenzene (Surr)	113		71 - 120		10/17/16 16:34	1
Dibromofluoromethane	91		70 - 120		10/17/16 16:34	1

Client Sample ID: G-8

Lab Sample ID: 500-118538-3

Date Collected: 10/11/16 12:40

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/17/16 17:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:00	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-8

Lab Sample ID: 500-118538-3

Date Collected: 10/11/16 12:40

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 17:00	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 17:00	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 17:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:00	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 17:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 17:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 17:00	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 17:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/17/16 17:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 17:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 17:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 17:00	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 17:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 17:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:00	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 17:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 17:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/17/16 17:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 17:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 17:00	1
1,3-Dichloropropane	<0.36 *		1.0	0.36	ug/L			10/17/16 17:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 17:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 17:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 17:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 17:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 17:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 17:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 17:00	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 17:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 17:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/17/16 17:00	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/17/16 17:00	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 17:00	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 17:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 17:00	1
Tetrachloroethene	1.0		1.0	0.37	ug/L			10/17/16 17:00	1
Toluene	0.42 J		0.50	0.15	ug/L			10/17/16 17:00	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 17:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 17:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 17:00	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-8

Lab Sample ID: 500-118538-3

Date Collected: 10/11/16 12:40

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 17:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 17:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:00	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 17:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 17:00	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/17/16 17:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/17/16 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		71 - 127					10/17/16 17:00	1
Toluene-d8 (Surr)	98		75 - 120					10/17/16 17:00	1
4-Bromofluorobenzene (Surr)	117		71 - 120					10/17/16 17:00	1
Dibromofluoromethane	90		70 - 120					10/17/16 17:00	1

Client Sample ID: G-11

Lab Sample ID: 500-118538-4

Date Collected: 10/11/16 14:00

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/17/16 17:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 17:25	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 17:25	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 17:25	1
n-Butylbenzene	0.92	J	1.0	0.39	ug/L			10/17/16 17:25	1
sec-Butylbenzene	0.46	J	1.0	0.40	ug/L			10/17/16 17:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 17:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 17:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 17:25	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 17:25	1
Chloromethane	0.92	J	1.0	0.32	ug/L			10/17/16 17:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 17:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 17:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 17:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 17:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 17:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:25	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 17:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 17:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/17/16 17:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 17:25	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-11

Lab Sample ID: 500-118538-4

Date Collected: 10/11/16 14:00

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 17:25	1
1,3-Dichloropropane	<0.36	* F1	1.0	0.36	ug/L			10/17/16 17:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 17:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 17:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 17:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 17:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 17:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 17:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 17:25	1
Isopropylbenzene	0.62	J	1.0	0.39	ug/L			10/17/16 17:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 17:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 17:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
Naphthalene	1.3		1.0	0.34	ug/L			10/17/16 17:25	1
N-Propylbenzene	2.7		1.0	0.41	ug/L			10/17/16 17:25	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 17:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 17:25	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 17:25	1
Tetrachloroethene	0.82	J	1.0	0.37	ug/L			10/17/16 17:25	1
Toluene	0.48	J	0.50	0.15	ug/L			10/17/16 17:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 17:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 17:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 17:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 17:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 17:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:25	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 17:25	1
1,2,4-Trimethylbenzene	2.3		1.0	0.36	ug/L			10/17/16 17:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 17:25	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/17/16 17:25	1
Xylenes, Total	0.70	J	1.0	0.22	ug/L			10/17/16 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		71 - 127		10/17/16 17:25	1
Toluene-d8 (Surr)	97		75 - 120		10/17/16 17:25	1
4-Bromofluorobenzene (Surr)	116		71 - 120		10/17/16 17:25	1
Dibromofluoromethane	90		70 - 120		10/17/16 17:25	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-118538-5

Date Collected: 10/11/16 00:00

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/17/16 17:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 17:50	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 17:50	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 17:50	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-118538-5

Date Collected: 10/11/16 00:00

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 17:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 17:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 17:50	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 17:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/17/16 17:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 17:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 17:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 17:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 17:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 17:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 17:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:50	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 17:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 17:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/17/16 17:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 17:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 17:50	1
1,3-Dichloropropane	<0.36 *		1.0	0.36	ug/L			10/17/16 17:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 17:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 17:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 17:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 17:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 17:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 17:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 17:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 17:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 17:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/17/16 17:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/17/16 17:50	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 17:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 17:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 17:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/17/16 17:50	1
Toluene	<0.15		0.50	0.15	ug/L			10/17/16 17:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 17:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 17:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 17:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 17:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 17:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 17:50	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-118538-5

Date Collected: 10/11/16 00:00

Matrix: Water

Date Received: 10/13/16 10:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 17:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/17/16 17:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 17:50	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/17/16 17:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/17/16 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		71 - 127		10/17/16 17:50	1
Toluene-d8 (Surr)	94		75 - 120		10/17/16 17:50	1
4-Bromofluorobenzene (Surr)	116		71 - 120		10/17/16 17:50	1
Dibromofluoromethane	93		70 - 120		10/17/16 17:50	1



Definitions/Glossary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

GC/MS VOA

Analysis Batch: 356442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118538-1	G-1	Total/NA	Water	8260B	
500-118538-2	G-4	Total/NA	Water	8260B	
500-118538-3	G-8	Total/NA	Water	8260B	
500-118538-4	G-11	Total/NA	Water	8260B	
500-118538-5	Trip Blank	Total/NA	Water	8260B	
MB 500-356442/6	Method Blank	Total/NA	Water	8260B	
LCS 500-356442/4	Lab Control Sample	Total/NA	Water	8260B	
500-118538-4 MS	G-11	Total/NA	Water	8260B	
500-118538-4 MSD	G-11	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (71-127)	TOL (75-120)	BFB (71-120)	DBFM (70-120)
500-118538-1	G-1	111	99	114	91
500-118538-2	G-4	112	95	113	91
500-118538-3	G-8	109	98	117	90
500-118538-4	G-11	110	97	116	90
500-118538-4 MS	G-11	108	98	110	89
500-118538-4 MSD	G-11	106	100	114	90
500-118538-5	Trip Blank	112	94	116	93
LCS 500-356442/4	Lab Control Sample	108	98	110	86
MB 500-356442/6	Method Blank	116	96	113	90

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: SCS Engineers
 Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-356442/6
Matrix: Water
Analysis Batch: 356442

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/17/16 10:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/17/16 10:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/17/16 10:54	1
Bromoform	<0.48		1.0	0.48	ug/L			10/17/16 10:54	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/17/16 10:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 10:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/17/16 10:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/17/16 10:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/17/16 10:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/17/16 10:54	1
Chloroform	<0.37		1.0	0.37	ug/L			10/17/16 10:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/17/16 10:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/17/16 10:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/17/16 10:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/17/16 10:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/17/16 10:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/17/16 10:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/17/16 10:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/17/16 10:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/17/16 10:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/17/16 10:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/17/16 10:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/17/16 10:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/17/16 10:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/17/16 10:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/17/16 10:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/17/16 10:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/17/16 10:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/17/16 10:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/17/16 10:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/17/16 10:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/17/16 10:54	1
Styrene	<0.39		1.0	0.39	ug/L			10/17/16 10:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/17/16 10:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/16 10:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/17/16 10:54	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-356442/6
Matrix: Water
Analysis Batch: 356442

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			10/17/16 10:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/17/16 10:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/17/16 10:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/17/16 10:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/17/16 10:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/17/16 10:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/17/16 10:54	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/17/16 10:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/17/16 10:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/17/16 10:54	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/17/16 10:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/17/16 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 127		10/17/16 10:54	1
Toluene-d8 (Surr)	96		75 - 120		10/17/16 10:54	1
4-Bromofluorobenzene (Surr)	113		71 - 120		10/17/16 10:54	1
Dibromofluoromethane	90		70 - 120		10/17/16 10:54	1

Lab Sample ID: LCS 500-356442/4
Matrix: Water
Analysis Batch: 356442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.0		ug/L		90	70 - 125
Bromobenzene	50.0	46.9		ug/L		94	70 - 125
Bromochloromethane	50.0	40.2		ug/L		80	70 - 125
Bromodichloromethane	50.0	50.7		ug/L		101	70 - 125
Bromoform	50.0	54.5		ug/L		109	54 - 128
Bromomethane	50.0	32.5		ug/L		65	40 - 150
n-Butylbenzene	50.0	46.8		ug/L		94	70 - 125
sec-Butylbenzene	50.0	45.3		ug/L		91	70 - 125
tert-Butylbenzene	50.0	43.0		ug/L		86	70 - 125
Carbon tetrachloride	50.0	41.6		ug/L		83	70 - 125
Chlorobenzene	50.0	47.7		ug/L		95	70 - 125
Dibromochloromethane	50.0	49.7		ug/L		99	66 - 125
Chloroethane	50.0	44.6		ug/L		89	60 - 139
Chloroform	50.0	45.9		ug/L		92	70 - 125
Chloromethane	50.0	58.7		ug/L		117	60 - 140
2-Chlorotoluene	50.0	50.1		ug/L		100	69 - 125
4-Chlorotoluene	50.0	50.4		ug/L		101	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.6		ug/L		115	51 - 125
1,2-Dibromoethane	50.0	53.5		ug/L		107	70 - 125
Dibromomethane	50.0	47.7		ug/L		95	70 - 125
1,2-Dichlorobenzene	50.0	43.2		ug/L		86	70 - 125
1,3-Dichlorobenzene	50.0	43.3		ug/L		87	70 - 125
1,4-Dichlorobenzene	50.0	43.2		ug/L		86	70 - 125
Dichlorodifluoromethane	50.0	41.3		ug/L		83	51 - 140

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-356442/4
Matrix: Water
Analysis Batch: 356442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	46.7		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	53.5		ug/L		107	70 - 125
1,1-Dichloroethene	50.0	39.9		ug/L		80	70 - 125
cis-1,2-Dichloroethene	50.0	40.8		ug/L		82	70 - 125
trans-1,2-Dichloroethene	50.0	39.8		ug/L		80	70 - 125
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 125
1,3-Dichloropropane	50.0	63.1	*	ug/L		126	70 - 125
2,2-Dichloropropane	50.0	43.6		ug/L		87	62 - 125
1,1-Dichloropropene	50.0	50.3		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	58.6		ug/L		117	70 - 125
trans-1,3-Dichloropropene	50.0	59.6		ug/L		119	70 - 125
Ethylbenzene	50.0	45.8		ug/L		92	70 - 125
Hexachlorobutadiene	50.0	51.7		ug/L		103	57 - 140
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 125
p-Isopropyltoluene	50.0	43.2		ug/L		86	70 - 125
Methylene Chloride	50.0	39.7		ug/L		79	68 - 125
Methyl tert-butyl ether	50.0	48.8		ug/L		98	67 - 125
Naphthalene	50.0	45.7		ug/L		91	50 - 136
N-Propylbenzene	50.0	48.6		ug/L		97	70 - 125
Styrene	50.0	47.7		ug/L		95	70 - 125
1,1,1,2-Tetrachloroethane	50.0	44.0		ug/L		88	68 - 125
1,1,1,2,2-Tetrachloroethane	50.0	57.4		ug/L		115	68 - 125
Tetrachloroethene	50.0	48.2		ug/L		96	70 - 125
Toluene	50.0	49.7		ug/L		99	70 - 125
1,2,3-Trichlorobenzene	50.0	45.8		ug/L		92	58 - 135
1,2,4-Trichlorobenzene	50.0	48.3		ug/L		97	64 - 126
1,1,1-Trichloroethane	50.0	41.4		ug/L		83	70 - 125
1,1,2-Trichloroethane	50.0	54.4		ug/L		109	70 - 125
Trichloroethene	50.0	41.4		ug/L		83	70 - 125
Trichlorofluoromethane	50.0	46.9		ug/L		94	60 - 126
1,2,3-Trichloropropane	50.0	60.2		ug/L		120	63 - 125
1,2,4-Trimethylbenzene	50.0	45.9		ug/L		92	70 - 125
1,3,5-Trimethylbenzene	50.0	45.7		ug/L		91	70 - 125
Vinyl chloride	50.0	45.8		ug/L		92	70 - 126
Xylenes, Total	100	98.7		ug/L		99	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		71 - 127
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	110		71 - 120
Dibromofluoromethane	86		70 - 120

Lab Sample ID: 500-118538-4 MS
Matrix: Water
Analysis Batch: 356442

Client Sample ID: G-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	49.3		ug/L		99	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118538-4 MS

Matrix: Water

Analysis Batch: 356442

Client Sample ID: G-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<0.36		50.0	52.4		ug/L		105	70 - 125
Bromochloromethane	<0.43		50.0	42.8		ug/L		86	70 - 125
Bromodichloromethane	<0.37		50.0	55.0		ug/L		110	70 - 125
Bromoform	<0.48		50.0	54.6		ug/L		109	54 - 128
Bromomethane	<0.80		50.0	35.7		ug/L		71	40 - 150
n-Butylbenzene	0.92	J	50.0	50.3		ug/L		99	70 - 125
sec-Butylbenzene	0.46	J	50.0	50.1		ug/L		99	70 - 125
tert-Butylbenzene	<0.40		50.0	48.2		ug/L		96	70 - 125
Carbon tetrachloride	<0.38		50.0	44.1		ug/L		88	70 - 125
Chlorobenzene	<0.39		50.0	52.1		ug/L		104	70 - 125
Dibromochloromethane	<0.49		50.0	51.8		ug/L		104	66 - 125
Chloroethane	<0.51		50.0	44.9		ug/L		90	60 - 139
Chloroform	<0.37		50.0	51.8		ug/L		104	70 - 125
Chloromethane	0.92	J	50.0	54.4		ug/L		107	60 - 140
2-Chlorotoluene	<0.31		50.0	55.7		ug/L		111	69 - 125
4-Chlorotoluene	<0.35		50.0	54.5		ug/L		109	70 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	58.6		ug/L		117	51 - 125
1,2-Dibromoethane	<0.39		50.0	52.9		ug/L		106	70 - 125
Dibromomethane	<0.27		50.0	51.7		ug/L		103	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	47.8		ug/L		96	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	46.9		ug/L		94	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	46.3		ug/L		93	70 - 125
Dichlorodifluoromethane	<0.67		50.0	42.1		ug/L		84	51 - 140
1,1-Dichloroethane	<0.41		50.0	52.2		ug/L		104	70 - 125
1,2-Dichloroethane	<0.39		50.0	58.6		ug/L		117	70 - 125
1,1-Dichloroethene	<0.39		50.0	43.4		ug/L		87	70 - 125
cis-1,2-Dichloroethene	<0.41		50.0	45.5		ug/L		91	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	43.3		ug/L		87	70 - 125
1,2-Dichloropropane	<0.43		50.0	56.6		ug/L		113	70 - 125
1,3-Dichloropropane	<0.36	* F1	50.0	64.6	F1	ug/L		129	70 - 125
2,2-Dichloropropane	<0.44		50.0	48.9		ug/L		98	62 - 125
1,1-Dichloropropene	<0.30		50.0	52.9		ug/L		106	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	59.5		ug/L		119	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	60.4		ug/L		121	70 - 125
Ethylbenzene	<0.18		50.0	49.3		ug/L		99	70 - 125
Hexachlorobutadiene	<0.45		50.0	54.1		ug/L		108	57 - 140
Isopropylbenzene	0.62	J	50.0	51.5		ug/L		102	70 - 125
p-Isopropyltoluene	<0.36		50.0	47.3		ug/L		95	70 - 125
Methylene Chloride	<1.6		50.0	46.0		ug/L		92	68 - 125
Methyl tert-butyl ether	<0.39		50.0	51.8		ug/L		104	67 - 125
Naphthalene	1.3		50.0	49.6		ug/L		97	50 - 136
N-Propylbenzene	2.7		50.0	56.2		ug/L		107	70 - 125
Styrene	<0.39		50.0	52.2		ug/L		104	70 - 125
1,1,1,2-Tetrachloroethane	<0.46		50.0	48.2		ug/L		96	68 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	57.3		ug/L		115	68 - 125
Tetrachloroethene	0.82	J	50.0	50.6		ug/L		99	70 - 125
Toluene	0.48	J	50.0	53.4		ug/L		106	70 - 125
1,2,3-Trichlorobenzene	<0.46		50.0	47.9		ug/L		96	58 - 135

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118538-4 MS

Matrix: Water

Analysis Batch: 356442

Client Sample ID: G-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,2,4-Trichlorobenzene	<0.34		50.0	48.1		ug/L		96	64 - 126	
1,1,1-Trichloroethane	<0.38		50.0	46.0		ug/L		92	70 - 125	
1,1,2-Trichloroethane	<0.35		50.0	56.9		ug/L		114	70 - 125	
Trichloroethene	<0.16		50.0	43.0		ug/L		86	70 - 125	
Trichlorofluoromethane	<0.43		50.0	47.7		ug/L		95	60 - 126	
1,2,3-Trichloropropane	<0.41		50.0	60.4		ug/L		121	63 - 125	
1,2,4-Trimethylbenzene	2.3		50.0	52.9		ug/L		101	70 - 125	
1,3,5-Trimethylbenzene	<0.25		50.0	50.6		ug/L		101	70 - 125	
Vinyl chloride	<0.20		50.0	45.6		ug/L		91	70 - 126	
Xylenes, Total	0.70	J	100	107		ug/L		106	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	108		71 - 127							
Toluene-d8 (Surr)	98		75 - 120							
4-Bromofluorobenzene (Surr)	110		71 - 120							
Dibromofluoromethane	89		70 - 120							

Lab Sample ID: 500-118538-4 MSD

Matrix: Water

Analysis Batch: 356442

Client Sample ID: G-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	46.9		ug/L		94	70 - 125	5	20
Bromobenzene	<0.36		50.0	50.8		ug/L		102	70 - 125	3	20
Bromochloromethane	<0.43		50.0	40.6		ug/L		81	70 - 125	5	20
Bromodichloromethane	<0.37		50.0	52.8		ug/L		106	70 - 125	4	20
Bromoform	<0.48		50.0	51.3		ug/L		103	54 - 128	6	20
Bromomethane	<0.80		50.0	36.5		ug/L		73	40 - 150	2	20
n-Butylbenzene	0.92	J	50.0	48.2		ug/L		95	70 - 125	4	20
sec-Butylbenzene	0.46	J	50.0	48.6		ug/L		96	70 - 125	3	20
tert-Butylbenzene	<0.40		50.0	46.8		ug/L		94	70 - 125	3	20
Carbon tetrachloride	<0.38		50.0	42.0		ug/L		84	70 - 125	5	20
Chlorobenzene	<0.39		50.0	50.2		ug/L		100	70 - 125	4	20
Dibromochloromethane	<0.49		50.0	50.4		ug/L		101	66 - 125	3	20
Chloroethane	<0.51		50.0	48.2		ug/L		96	60 - 139	7	20
Chloroform	<0.37		50.0	48.9		ug/L		98	70 - 125	6	20
Chloromethane	0.92	J	50.0	53.9		ug/L		106	60 - 140	1	20
2-Chlorotoluene	<0.31		50.0	54.3		ug/L		109	69 - 125	3	20
4-Chlorotoluene	<0.35		50.0	53.3		ug/L		107	70 - 125	2	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	56.3		ug/L		113	51 - 125	4	20
1,2-Dibromoethane	<0.39		50.0	52.1		ug/L		104	70 - 125	2	20
Dibromomethane	<0.27		50.0	47.8		ug/L		96	70 - 125	8	20
1,2-Dichlorobenzene	<0.33		50.0	46.2		ug/L		92	70 - 125	3	20
1,3-Dichlorobenzene	<0.40		50.0	45.2		ug/L		90	70 - 125	4	20
1,4-Dichlorobenzene	<0.36		50.0	44.6		ug/L		89	70 - 125	4	20
Dichlorodifluoromethane	<0.67		50.0	40.7		ug/L		81	51 - 140	3	20
1,1-Dichloroethane	<0.41		50.0	49.6		ug/L		99	70 - 125	5	20
1,2-Dichloroethane	<0.39		50.0	54.4		ug/L		109	70 - 125	8	20

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-118538-4 MSD

Matrix: Water

Analysis Batch: 356442

Client Sample ID: G-11

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	<0.39		50.0	41.0		ug/L		82	70 - 125	6	20
cis-1,2-Dichloroethene	<0.41		50.0	42.6		ug/L		85	70 - 125	7	20
trans-1,2-Dichloroethene	<0.35		50.0	40.9		ug/L		82	70 - 125	6	20
1,2-Dichloropropane	<0.43		50.0	53.7		ug/L		107	70 - 125	5	20
1,3-Dichloropropane	<0.36	* F1	50.0	63.5	F1	ug/L		127	70 - 125	2	20
2,2-Dichloropropane	<0.44		50.0	46.1		ug/L		92	62 - 125	6	20
1,1-Dichloropropene	<0.30		50.0	51.5		ug/L		103	70 - 125	3	20
cis-1,3-Dichloropropene	<0.42		50.0	58.2		ug/L		116	70 - 125	2	20
trans-1,3-Dichloropropene	<0.36		50.0	59.6		ug/L		119	70 - 125	1	20
Ethylbenzene	<0.18		50.0	48.8		ug/L		98	70 - 125	1	20
Hexachlorobutadiene	<0.45		50.0	49.3		ug/L		99	57 - 140	9	20
Isopropylbenzene	0.62	J	50.0	50.1		ug/L		99	70 - 125	3	20
p-Isopropyltoluene	<0.36		50.0	45.0		ug/L		90	70 - 125	5	20
Methylene Chloride	<1.6		50.0	42.9		ug/L		86	68 - 125	7	20
Methyl tert-butyl ether	<0.39		50.0	47.4		ug/L		95	67 - 125	9	20
Naphthalene	1.3		50.0	46.1		ug/L		90	50 - 136	7	20
N-Propylbenzene	2.7		50.0	54.4		ug/L		104	70 - 125	3	20
Styrene	<0.39		50.0	49.9		ug/L		100	70 - 125	5	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	46.0		ug/L		92	68 - 125	5	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	56.3		ug/L		113	68 - 125	2	20
Tetrachloroethene	0.82	J	50.0	49.8		ug/L		98	70 - 125	2	20
Toluene	0.48	J	50.0	52.0		ug/L		103	70 - 125	3	20
1,2,3-Trichlorobenzene	<0.46		50.0	42.5		ug/L		85	58 - 135	12	20
1,2,4-Trichlorobenzene	<0.34		50.0	44.7		ug/L		89	64 - 126	7	20
1,1,1-Trichloroethane	<0.38		50.0	43.4		ug/L		87	70 - 125	6	20
1,1,2-Trichloroethane	<0.35		50.0	56.5		ug/L		113	70 - 125	1	20
Trichloroethene	<0.16		50.0	42.3		ug/L		85	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	46.7		ug/L		93	60 - 126	2	20
1,2,3-Trichloropropane	<0.41		50.0	58.7		ug/L		117	63 - 125	3	20
1,2,4-Trimethylbenzene	2.3		50.0	51.3		ug/L		98	70 - 125	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	49.1		ug/L		98	70 - 125	3	20
Vinyl chloride	<0.20		50.0	45.1		ug/L		90	70 - 126	1	20
Xylenes, Total	0.70	J	100	103		ug/L		103	70 - 125	3	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	106		71 - 127								
Toluene-d8 (Surr)	100		75 - 120								
4-Bromofluorobenzene (Surr)	114		71 - 120								
Dibromofluoromethane	90		70 - 120								

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Client Sample ID: G-1

Date Collected: 10/11/16 09:05

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	356442	10/17/16 16:09	PMF	TAL CHI

Client Sample ID: G-4

Date Collected: 10/11/16 10:45

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	356442	10/17/16 16:34	PMF	TAL CHI

Client Sample ID: G-8

Date Collected: 10/11/16 12:40

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	356442	10/17/16 17:00	PMF	TAL CHI

Client Sample ID: G-11

Date Collected: 10/11/16 14:00

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	356442	10/17/16 17:25	PMF	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 10/11/16 00:00

Date Received: 10/13/16 10:20

Lab Sample ID: 500-118538-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	356442	10/17/16 17:50	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: SCS Engineers
Project/Site: Kessenich's - 25216180

TestAmerica Job ID: 500-118538-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Tony Kollasch
 Contact: Tony Kollasch
 Company: SCS Engineers
 Address: 2830 Dairy Drive
 Address: Madison, WI 53718
 Phone: 608-216-7381
 Fax: _____
 E-Mail: _____

Bill To (optional) _____
 Contact: Tony Kollasch
 Company: SAANE
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-118538
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: 2.4

Client		Client Project #		Preservative		Parameter		Matrix		 Preservative Key → 4° 4° ← 4° 500-118538 COC	
<u>SCS Engineers</u>		<u>252116180</u>		<u>1</u>		<u>NOCS</u>					
Project Name		Project Location/State		Lab Project #		Lab PM		Sampler			
<u>Kessenich's</u>		<u>Madison, WI</u>				<u>Jackie DeBryne</u>					
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Comments				
			Date	Time							
<u>1</u>		<u>G-1</u>	<u>10-11-16</u>	<u>9:05</u>	<u>3</u>	<u>W</u>	<u>X</u>				
<u>2</u>		<u>G-4</u>	<u>10-11-16</u>	<u>10:45</u>	<u>3</u>	<u>W</u>	<u>X</u>				
<u>3</u>		<u>G-8</u>	<u>10-11-16</u>	<u>12:40</u>	<u>3</u>	<u>W</u>	<u>X</u>				
<u>4</u>		<u>G-11</u>	<u>10-11-16</u>	<u>14:00</u>	<u>3</u>	<u>W</u>	<u>X</u>				
<u>5</u>		<u>Trip blank</u>	<u>10-11-16</u>		<u>1</u>	<u>O</u>	<u>X</u>				

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date 10-21-16

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company: <u>SCS Engineers</u> Date: <u>10-12-16</u> Time: <u>11:45</u>	Received By <u>Devil Sampling</u> Company: <u>TACTE</u> Date: <u>10/13/16</u> Time: <u>10:20</u>	Lab Courier _____
Relinquished By _____	Received By _____	Shipped <u>FXSD</u>
Relinquished By _____	Received By _____	Hand Delivered _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

500

FedEx
Express

Package
US Airbill

Tracking
Number

8108 1333 1995

Form ID No. 0215

1 From

Date 10-12-11e

Sender's Name Jackie DeBryne Phone 608 281-9188

Company SCS Engineers

Address 2830 Dairy Dr.

City Madison State WI ZIP 53718

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIPT Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address UNIVERSITY PARK

City State IL ZIP 60484-3101



8108 1333 1995

4 Express Package S

- Next Business Day**
- FedEx First Overnight
 - FedEx Priority Overnight
 - Standard Overnight

5 P

6 Specie

- Saturday
 - No Signature
- Does this shipment:**
- No
 - Yes

7 Payment Bill to:

- Sender
- Recipient

Total Packages Total Weight



500-118538 Waybill

THU - 13 OCT AA
STANDARD OVERNIGHT

FedEx
TRK# 8108 1333 1995
0215

79 JOTA



FTD 5029917 120CT16 MSNA 539C3/FB42/8EBA

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx S.

Doc. Desc. 5-15 • Exp. #181124 • P. 1004 • 00151-005 • PRINTED IN U.S.A. 08/11

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-118538-1

Login Number: 118538

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

