

September 16, 2020

Ms. April Simmons
The City of Memphis and Shelby County
Community Redevelopment Agency
170 North Main Street, Floor 6
Memphis, Tennessee 38103

via e-mail: April.Simmons@memphistn.gov

**Re: Former Wayne's Pinball Palace
Phase II Environmental Site Assessment
167 Chelsea Avenue and 705 North Third Street
Memphis, Tennessee**

Dear Ms. Simmons:

EnSafe Inc. is pleased to provide this Phase II Environmental Site Assessment (ESA) for the properties at 167 Chelsea Avenue and 705 North Third Street in Memphis, Tennessee.

SITE DESCRIPTION AND HISTORY

The subject property is comprised of two parcels totaling 0.5-acres. Various commercial businesses have operated on the 167 Chelsea Avenue property since the early 1930s, including an automotive repair garage, gas station, coin-operated laundry, and arcade/restaurant. The commercial building, known as Wayne's Pinball Palace, was demolished in August 2020. The 705 North Third Street property was residential until 2008. The buildings were subsequently demolished.

Past Investigation Summary

The following investigations were previously completed for the subject or surrounding properties:

2011 Phase II ESA for 167 Chelsea Avenue — Fisher Arnold

In the Phase II ESA for 167 Chelsea Avenue, detected concentrations in soil were compared to the Tennessee Department of Environment and Conservation (TDEC) Division of Underground Storage Tanks (DUST) commercial/industrial Initial Screening Levels (ISLs) and United States Environmental Protection Agency (U.S. EPA) Regional Screening Levels (RSLs) for industrial soil. Detected concentrations in groundwater were compared to ISLs for non-drinking water and RSLs for tap water. Petroleum contamination was detected in soil and groundwater. The report also noted that a historic gasoline release had occurred from the former underground storage tank (UST) at the site. Soil gas samples were not collected on the subject property during this assessment.

2011 Phase II ESA for Block 55, North Second Street, and Chelsea Avenue — Fisher Arnold

In the 2011 Phase II for Block 55, detected concentrations in groundwater were below clean-up levels; suggesting that UST contaminants from 167 Chelsea Avenue had not migrated to the southwestern adjacent property. Active soil gas samples were collected on the southwestern property. Tetrachloroethene (PCE) and trichloroethylene (TCE) were detected above U.S. EPA RSLs for residential site use.

2015 Phase II ESA/Site Demolition and Removal Report, North Second Street and Chelsea Avenue — EnSafe

In the 2015 Phase II, groundwater and active soil gas samples were collected on the western and southwestern adjoining properties (696-714 N Second Street). Laboratory analysis identified three volatile organic compounds (VOCs) exceeding U.S. EPA maximum contaminant levels (MCLs) in groundwater and twelve VOCs exceeding U.S. EPA RSLs for residential soil gas. Chlorinated solvents were identified in both groundwater and soil gas on these properties.

PHASE II INVESTIGATION APPROACH AND SAMPLING

EnSafe conducted sampling on August 4 through August 7, 2020, at 167 Chelsea Avenue and 705 North Third Street. The Phase II ESA included the collection and laboratory analysis of soil, groundwater, and soil gas samples. Sample locations are shown on Figure 1 and sample location rationale is described in Table 1.

Before initiating field sampling, Tennessee One Call was contacted to identify the locations of buried utilities, and a private subsurface utility location service was subcontracted to locate and mark underground utilities and pipelines on the subject property using ground-penetrating radar equipment. The ground-penetrating radar survey looked for the presence of underground utilities and other structures that would be damaged or would prevent the advancement of the proposed sampling locations.

Soil Sampling

EnSafe completed eight soil borings at 167 Chelsea Avenue on August 4, 2020, and two soil borings at 705 North Third Street on August 7, 2020, using Direct Push Technology (DPT) drilling methods. Boring and sample depths are described in Table 1. No utilities or other underground structures were encountered during soil boring advancement. The soil borings were classified for lithology and examined for visual and olfactory indications of contamination. The descriptions and observations of the soils were recorded on the field boring logs, provided in Attachment A.

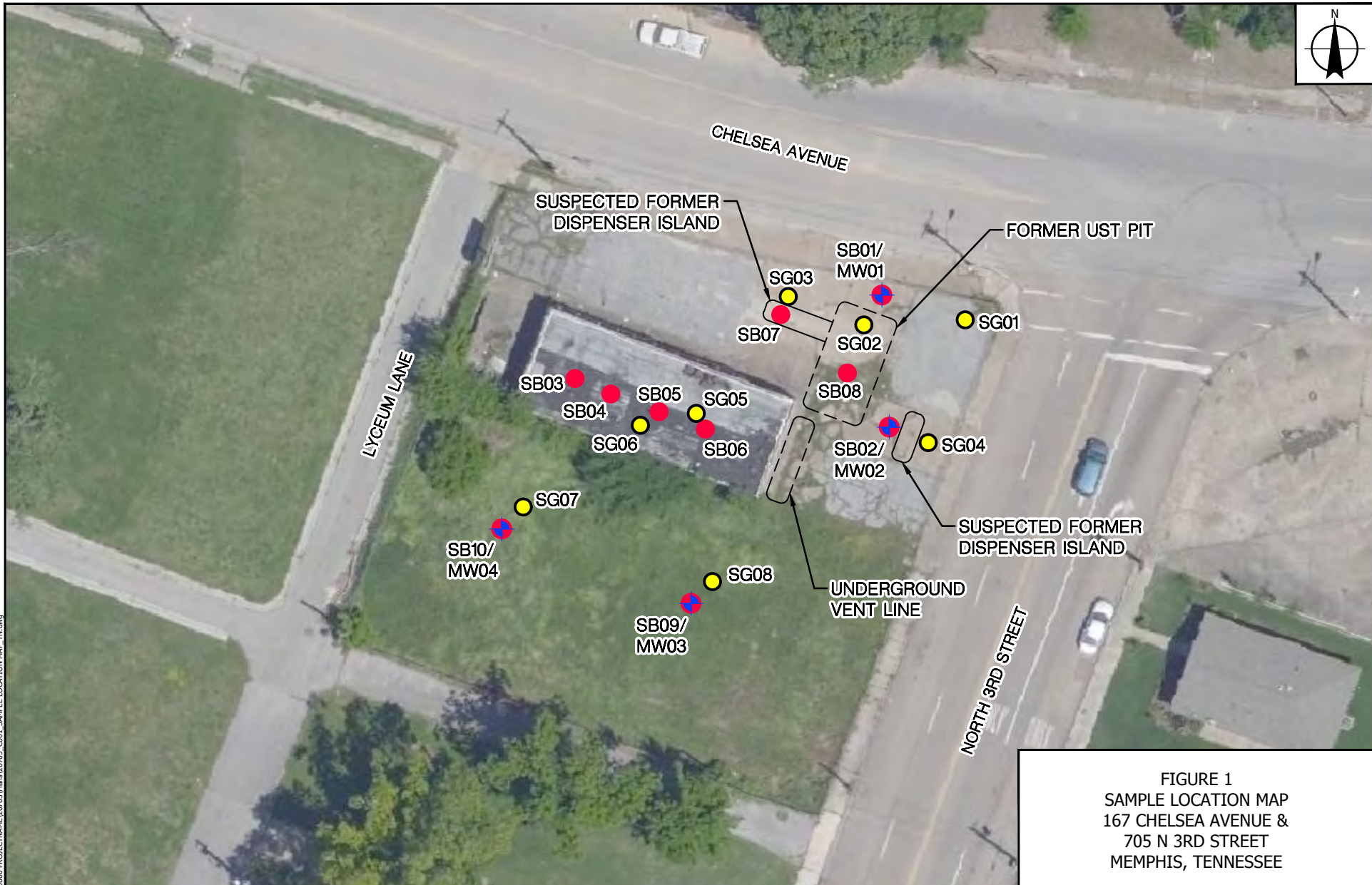
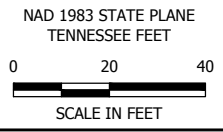


FIGURE 1
SAMPLE LOCATION MAP
 167 CHELSEA AVENUE &
 705 N 3RD STREET
 MEMPHIS, TENNESSEE

LEGEND

- SOIL BORING/MONITORING WELL LOCATION
- SOIL GAS LOCATION
- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- SOIL BORING LOCATION
- UST UNDERGROUND STORAGE TANK



REQUESTED BY:	CK
DRAWN BY:	CC
DATE:	8/31/2020
PROJECT:	0888826703

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C:\Users\corfomas\Desktop\PROJECT\NAME\26703\plans\26703 - CD01 - SAMPLE LOCATION MAP - TN.dwg

Source: © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS Bing

Table 1
Description of Phase II ESA Sampling Locations

Identification	Media	Boring Depth/ Well Screen Interval	Soil Sample Depth	Location Rationale
SB01/MW01	Soil and Groundwater	24'/9'-24'	10'-12' 12'-16'	Near the former UST pit.
SB02/MW02	Soil and Groundwater	24'/9'-24'	4'-8' 8'-10'	Suspected former dispenser island area.
SB03	Soil	4'	0'-4'	Former automotive bay.
SB04	Soil	4'	0'-4'	Former automotive bay.
SB05	Soil	4'	0'-4'	Former automotive bay.
SB06	Soil	4'	0'-4'	Former automotive bay.
SB07	Soil	8'	0'-4'	Suspected former dispenser island area.
SB08	Soil	4'	0'-4'	Former UST pit.
SB09/MW03	Soil and Groundwater	24'/9'-24'	0'-4' 12'-16'	Former residential lot. Known petroleum contamination at adjoining lot (167 Chelsea Ave).
SB10/MW04	Soil and Groundwater	24'/9'-24'	0'-4' 12'-16'	Former residential lot. Known chlorinated solvent soil gas contamination at adjacent lot (696 N Second St.).
SG01	Soil Gas	3'	NA	Near the former UST pit.
SG02	Soil Gas	3'	NA	Former UST pit.
SG03	Soil Gas	3'	NA	Suspected former dispenser island area.
SG04	Soil Gas	3'	NA	Suspected former dispenser island area.
SG05	Soil Gas	3'	NA	Former automotive bay.
SG06	Soil Gas	3'	NA	Former automotive bay.
SG07	Soil Gas	3'	NA	Former residential lot. Known chlorinated solvent soil gas contamination at adjacent lot (696 N Second St.).
SG08	Soil Gas	3'	NA	Former residential lot. Known petroleum contamination at adjoining lot (167 Chelsea Ave).

Soil samples were field-screened for ionizable organic vapors using a photoionization detector (PID) at each DPT depth interval of four feet. Portions of the soil cores were placed in sealable plastic bags for a brief period and then a reading was measured using the PID. The PID readings were recorded on the soil boring log in parts per million above background. Generally, soil samples were collected near the intervals with the highest PID measurements. Where PID readings and other visual or olfactory indicators were absent, samples were collected from near surface and above the groundwater. Samples were submitted to WayPoint Analytical in Memphis, Tennessee under chain-of-custody protocols for laboratory analysis of VOCs, Polynuclear Aromatic Hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) 8 Metals, and Extractable Petroleum Hydrocarbons (EPH).

Groundwater Investigation

Two temporary small-diameter 1-inch monitoring wells were installed in borings SB01 and SB02 at 167 Chelsea Avenue on August 4, 2020. Monitoring wells MW01 and MW02 were left undisturbed for one day following construction, after which the wells were sampled. Two temporary monitoring wells were installed in borings SB09 and SB10 at 705 North Third Street on August 7, 2020, allowed to recharge for approximately three hours, and then sampled. A peristaltic pump and fresh, dedicated Teflon tubing was used to pump groundwater from the wells. A small volume of water was produced with low flow rates from each well and soils at the subject property were tight, silty clay suggesting that the groundwater sampled was from a small water-bearing zone with little transmissivity.

During initial purging the wells were pumped until there was a significant reduction of turbidity in the water. The grab groundwater samples were collected from the temporary wells following purging. The samples were filtered during collection with 0.45-micron filter cartridges to help ensure low-turbidity samples. Turbidity measurements were collected using a Hach 2100Q handheld turbidity meter. To ensure quality measurements, the meter was calibrated to 10.0 NTU. Final turbidity measurements following filtering are shown in Table 2. All groundwater samples were submitted under chain-of-custody protocols for laboratory analysis of VOCs, PAHs, RCRA 8 Metals, and EPH.

Monitoring Well	Turbidity (NTU)
MW01	6.13
MW02	14.1
MW03	1.79
MW04	38.4

Soil Gas Sampling

Six soil gas samples were collected at 167 Chelsea Avenue and two soil gas samples were collected at 705 North Third Street on August 5, 2020. Soil gas borings were advanced to 3-feet below ground

surface using a hammer drill. A 6-inch stainless steel screen and Teflon tubing were inserted into each soil boring. The screens were secured in place with sand. Bentonite clay was used at the surface to seal the borehole and to prevent infiltration from outside air.

Before sampling, the soil gas borings were allowed to stabilize for a minimum of 2 hours; all fittings were inspected for proper fit and seal; and each system was purged using a laboratory provided clean certified, 1-liter purge vacuum canister. Isopropanol was used as a tracer gas to indicate any potential leaks within each sample setup. Soil-gas samples were collected in laboratory-provided, individually clean-certified, 1-liter Summa canisters with a designated soil-gas manifold. Each sample was collected over an approximately 5-minute period. Purge rates did not exceed 200 milliliters per minute as recommended by the referenced guidance documents¹.

All samples, including pre- and post-canister vacuum pressures, canister serial numbers, sample identifications, sampling dates, and required analyses were recorded on the chain-of-custody form. The samples were shipped via overnight courier to Pace Analytical of Minneapolis, Minnesota. Canisters were analyzed using U.S. EPA Method TO-15 for VOCs. Field sampling logs for soil gas samples are included in Attachment B.

ANALYTICAL RESULTS

Soil Results

Analytical results for the soil samples were compared to the U.S. EPA RSLs for both residential and industrial soils, TDEC DUST ISLs, and Tennessee background concentrations for metals in soils. The RSLs are based on a lifetime target cancer risk of 1E-6 and a target hazard quotient of 0.1, which is the most-protective exposure scenario. Laboratory detections and exceedances for the soil samples are summarized in Table 3.

Fourteen soil samples were submitted for laboratory analysis. Two PAHs (2-methylnaphthalene and naphthalene) were detected in the laboratory method blank. Thirty-two VOCs and PAHs were detected. Soil samples SB01, SB03, SB04, SB05, SB08, SB09, and SB10 did not have any detections that exceeded residential or industrial RSLs. Naphthalene exceeded its residential RSL in SB02 (4 to 8-foot depth interval). Benzo(a)pyrene exceeded its residential RSL in SB06. Ethylbenzene, 1,2,4-trimethylbenzene, naphthalene, xylene (total), and 2-methylnaphthalene exceeded their respective residential RSLs in SB07. SB07 was the only sample to exceed the ISL for EPH.

¹ In accordance with the New Jersey Department of Environmental Protection Vapor Intrusion Technical Guidance (Version 4.1), January 2018.

Table 3
Detected Concentrations in Soil
167 Chelsea Avenue and 705 N Third Street, Memphis, Tennessee

		Sample Location:		SB01	SB01	SB02	SB02	SB03	SB04	SB05	SB06	SB07	SB08	SB09	SB09	SB10	SB10				
		Sample ID:		167SSB0112	167SSB0116	167SSB0208	167SSB0212	167SSB0304	167SSB0404	167SSB0504	167SSB0604	167SSB0704	167SSB0804	167SSB0901	167SSB0916	167SSB1001	167SSB1016				
		Sample Date:		08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/07/2020	08/07/2020	08/07/2020	08/07/2020				
		Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
		Start Depth:		10-12 Feet	12-16 Feet	4-8 Feet	8-10 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	4-8 Feet	0-4 Feet	0-4 Feet	12-16 Feet	0-4 Feet	12-16 Feet				
Method	CAS No.	Analyte	Res RSL (a)	Ind RSL (a)	TN ISL (c)	TN BKG (d)	Units														
Metals																					
SW6010	7440-38-2	Arsenic	0.68	3	NE	10	mg/kg	3.73 ab	2.71 a	6.55 ab	9.07 ab	12.4 abd	13.4 abd	7.99 ab	10 ab	8.78 ab	0.933 a	12.8 abd	5.56 ab	10.7 abd	3.55 ab
SW6010	7440-39-3	Barium	1500	22000	NE	144	mg/kg	36.1	73.2	48.9	48.1	222 d	149 d	142	164 d	67.7	16.5	155 d	55.8	185 d	53.1
SW6010	7440-43-9	Cadmium	7.1	98	NE	1	mg/kg	0.0661 J	0.279	0.147	0.165	0.254 J	0.481 J	0.218	0.455	0.264	0.033 J	0.311	0.242	0.474	0.149
SW6010	7440-47-3	Chromium, Total	0.3	6.3	NE	20	mg/kg	11 ab	16.4 ab	12.8 ab	13.8 ab	18 ab	17.6 ab	13.7 ab	13.4 ab	12.1 ab	3.5 a	19.3 ab	14.6 ab	16.4 ab	11.9 ab
SW6010	7439-92-1	Lead	400	800	NE	45	mg/kg	4.99	6.55	6.14	8.1	39.2	48.1 d	8.98	164 d	47 d	3.94	55.1 d	5.75	26.4	4.69
SW6010	7440-22-4	Silver	39	580	NE	1.2	mg/kg	0.602	ND	0.269 J	ND	ND	ND	ND	ND	ND	ND	ND	0.46	ND	0.444
SW7471	7439-97-6	Mercury	1.1	4.6	NE	0.18	mg/kg	0.0113 J	0.0171 J	0.00587 J	0.0163 J	0.255 d	0.0429	0.0253	0.0276	0.11	0.0098 J	0.0765	0.0389	0.051	0.0104 J
Volatile Organic Compounds																					
SW8260	95-63-6	1,2,4-Trimethylbenzene	30	180	NE	NE	mg/kg	ND	ND	0.215	ND	ND	ND	ND	ND	273 ab	ND	ND	ND	ND	ND
SW8260	108-67-8	1,3,5-Trimethylbenzene	27	150	NE	NE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	10.3 E	ND	ND	ND	ND	ND
SW8260	67-66-3	Chloroform	0.32	1.4	NE	NE	mg/kg	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW8260	100-41-4	Ethylbenzene	5.8	25	143	NE	mg/kg	ND	ND	0.51	0.08	ND	ND	ND	ND	38.5 ab	ND	ND	ND	ND	ND
SW8260	98-82-8	Isopropylbenzene	190	990	NE	NE	mg/kg	ND	ND	0.468	0.804 E	ND	ND	ND	ND	2.98 E	ND	ND	ND	ND	ND
SW8260	179601-23-1	m,p-Xylene	58	250	NE	NE	mg/kg	ND	ND	0.388	0.023	0.001 J	ND	ND	ND	247 a	ND	ND	ND	ND	ND
SW8260	104-51-8	n-Butylbenzene	390	5800	NE	NE	mg/kg	ND	ND	0.398	0.452	ND	ND	ND	ND	1.93	ND	ND	ND	ND	ND
SW8260	103-65-1	n-Propylbenzene	380	2400	NE	NE	mg/kg	ND	ND	1.43	2.17 E	ND	ND	ND	ND	9.41 E	ND	ND	ND	ND	ND
SW8260	91-20-3	Naphthalene*	2	8.6	NE	NE	mg/kg	ND	ND	2.18 a	ND	ND	ND	ND	ND	1.29	ND	ND	ND	ND	ND
SW8260	95-47-6	o-Xylene	65	280	NE	NE	mg/kg	ND	ND	0.009 J	ND	0.0006 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW8260	99-87-6	p-Isopropyltoluene	190	990	NE	NE	mg/kg	ND	ND	ND	0.074	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW8260	135-98-8	sec-Butylbenzene	780	12000	NE	NE	mg/kg	ND	ND	0.113	0.28	ND	ND	ND	ND	0.859	ND	ND	ND	ND	ND
SW8260	98-06-6	tert-Butylbenzene	780	12000	NE	NE	mg/kg	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW8260	108-88-3	Toluene	490	4700	6.78	NE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	ND	ND	ND	ND
SW8260	1330-20-7	Xylene (Total)	58	250	9.6	NE	mg/kg	ND	ND	0.397 J	0.023	0.002 J	ND	ND	ND	247 ac	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons																					
SW8270SIM	91-57-6	2-Methylnaphthalene	24	300	NE	NE	mg/kg	0.00161 B	0.000941 B	2.31	0.00905	0.046	0.00103 B	0.000872 B	0.0173	25.2 a	0.00397 B	ND	ND	ND	ND
SW8270SIM	83-32-9	Acenaphthene	360	4500	NE	NE	mg/kg	ND	0.000801 J	0.00887	ND	0.0019	ND	ND	ND	0.174	0.00102	ND	ND	0.000549 J	ND
SW8270SIM	208-96-8	Acenaphthylene	360	4500	NE	NE	mg/kg	ND	ND	ND	ND	0.00161	ND	ND	0.0137	0.0708	ND	ND	ND	ND	ND
SW8270SIM	120-12-7	Anthracene	1800	23000	NE	NE	mg/kg	ND	ND	0.00242	ND	0.0067	ND	ND	0.0056	0.0333	0.00551	ND	ND	ND	ND
SW8270SIM	56-55-3	Benzo(a)anthracene	1.1	21	NE	NE	mg/kg	0.000965	ND	ND	0.00217 J	0.046	0.00372	ND	0.273	0.0282	0.0413	0.016	0.000661 J	0.0104	0.000614 J
SW8270SIM	50-32-8	Benzo(a)pyrene	0.11	2.1	NE	NE	mg/kg	ND	ND	ND	0.00217 J	0.0496	0.00308	ND	0.251 a	0.00932	0.0371	ND	ND	ND	ND
SW8270SIM	205-99-2	Benzo(b)fluoranthene	1.1	21	NE	NE	mg/kg	ND	ND	ND	0.00161 J	0.0963	0.00595	ND	0.283	0.0142	0.0516	0.0305	ND	0.0229	0.000778 J
SW8270SIM	191-24-2	Benzo(g,h,i)perylene	180	2300	NE	NE	mg/kg	ND	ND	ND	ND	0.0313	ND	ND	0.167	0.0153	0.0236	0.0175	0.0019	0.0131	0.00108
SW8270SIM	207-08-9	Benzo(k)fluoranthene	11	210	NE	NE	mg/kg	ND	ND	ND	ND	0.0391	0.00192	ND	0.141	0.0034	0.0232	0.0159	ND	ND	ND

Table 3
Detected Concentrations in Soil
167 Chelsea Avenue and 705 N Third Street, Memphis, Tennessee

			Sample Location:		SB01	SB01	SB02	SB02	SB03	SB04	SB05	SB06	SB07	SB08	SB09	SB09	SB10	SB10			
			Sample ID:		167SSB0112	167SSB0116	167SSB0208	167SSB0212	167SSB0304	167SSB0404	167SSB0504	167SSB0604	167SSB0704	167SSB0804	167SSB0901	167SSB0916	167SSB1001	167SSB1016			
			Sample Date:		08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/04/2020	08/07/2020	08/07/2020	08/07/2020	08/07/2020			
			Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
			Start Depth:		10-12 Feet	12-16 Feet	4-8 Feet	8-10 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	4-8 Feet	0-4 Feet	0-4 Feet	12-16 Feet	0-4 Feet	12-16 Feet			
Method	CAS No.	Analyte	Res RSL (a)	Ind RSL (a)	TN ISL (c)	TN BKG (d)	Units														
SW8270SIM	218-01-9	Chrysene	110	2100	NE	NE	mg/kg	0.00116	ND	0.00119 J	ND	0.0626	0.00459	ND	0.243	0.0258	0.035	0.017	ND	0.0102	0.000349 J
SW8270SIM	53-70-3	Dibenz(a,h)anthracene	0.11	2.1	NE	NE	mg/kg	ND	ND	ND	0.00144 J	0.00776	ND	ND	0.0466	ND	0.00625	ND	0.00244	ND	0.00117
SW8270SIM	206-44-0	Fluoranthene	240	3000	NE	NE	mg/kg	0.003	ND	0.0022 J	ND	0.128	0.00849	ND	0.26	0.0549	0.0668	0.036	ND	0.0199	ND
SW8270SIM	86-73-7	Fluorene	240	3000	NE	NE	mg/kg	ND	ND	0.00896	ND	0.00148	ND	ND	0.242	0.00129	ND	ND	ND	0.000706 J	ND
SW8270SIM	193-39-5	Indeno(1,2,3-cd)pyrene	1.1	21	NE	NE	mg/kg	ND	ND	ND	ND	0.0411	0.00113	ND	0.197	0.00536	0.031	0.0198	0.00144 B	0.0139	ND
SW8270SIM	91-20-3	Naphthalene*	2	8.6	135	NE	mg/kg	0.002 B	0.00496 B	2.48 a	0.0266	0.0361	0.000864 B	0.000746 JB	0.0137	29.1 ab	0.00325 B	ND	ND	ND	ND
SW8270SIM	85-01-8	Phenanthrene	180	2300	NE	NE	mg/kg	ND	ND	0.0129	ND	0.0982	0.00261	ND	0.0342	0.328	0.0201	ND	ND	ND	ND
SW8270SIM	129-00-0	Pyrene	180	2300	NE	NE	mg/kg	0.0034	ND	0.00395	ND	0.0919	0.00646	ND	0.232	0.106	0.0537	0.0278	0.00061 J	0.015	0.00056 J
Extractable Petroleum Hydrocarbons																					
TNEPH	9999000-74-8	Hydrocarbons C28-C40	NE	NE	NE	NE	mg/kg	ND	ND	ND	ND	7.53	ND	ND	30.5	ND	10.1	23.4	ND	16.1	26.6
TNEPH	9999900-33-7	TN EPH (C10-C40)	NE	NE	500	NE	mg/kg	ND	ND	12	23.5	12.5	ND	ND	52.8	3610 c	14.8	30.9	ND	23	31.2
TNEPH	9999000-99-7	TPH DRO - C10-C28	NE	NE	NE	NE	mg/kg	ND	ND	12	23.5	4.93	ND	ND	22.3	3610	4.71	7.56	ND	6.92	4.57

Notes:

- CAS No. = Chemical Abstracts Service number
- Res RSL = U.S. EPA Regional Screening Level for Residential Soil, hazard quotient = 0.1 (May 2020)
- Ind RSL = U.S. EPA Regional Screening Level for Industrial Soil, hazard quotient = 0.1 (May 2020)
- TN ISL = Tennessee Underground Storage Tank System Assessment Closure Initial Screening Levels for Residential Soil (September 2006)
- TN BKG = Hazardous Trace Elements in Tennessee Soils, TDEC Report of Investigation No 49, (2001)
- U.S. EPA = United States Environmental Protection Agency
- TDEC = Tennessee Department of Environment and Conservation
- NE = Value is not established.
- mg/kg = Milligrams per kilogram
- ND = Undetected
- B = Analyte was detected in the laboratory method blank.
- J = Estimated value
- E = Analyte was detected above the instrument calibration range and is estimated.
- Bold** = Detected
- a** = Exceeds Res RSL
- b** = Exceeds Ind RSL
- c** = Exceeds TN ISL
- d** = Exceeds TN BKG
- * = Naphthalene was detected in both VOC and PAH samples. PAH detections were higher than VOC detections. PAH detections were discussed in the report.

Seven of the RCRA 8 metals were detected in the soil samples. Arsenic and chromium exceeded either their respective residential or industrial RSLs in all fourteen samples, but, only four samples (SB03, SB04, SB09 at 0 to 4-foot depth, and SB10 at 0 to 4-foot depth) exceeded the Tennessee background level for arsenic and no samples exceeded the Tennessee background level for chromium. Four samples (SB04, SB06, SB07, and SB09) exceeded the Tennessee background level for lead but did not exceed the RSLs for lead.

Groundwater Results

Analytical results for the groundwater samples were compared to U.S. EPA RSLs for tap water, U.S. EPA MCLs, and TDEC DUST ISLs. RSLs are based on the same lifetime target cancer risk and target hazard quotient as was used to assess the soil sample results. Laboratory detections and exceedances for the groundwater samples are summarized in Table 4. Copies of complete laboratory reports for soil and groundwater samples are included in Attachment C.

Four groundwater samples were submitted for laboratory analysis. All four groundwater samples had detections of at least four VOCs or PAHs. A total of fifteen VOCs and PAHs were detected. Naphthalene exceeded its RSL in all groundwater samples. Benzene and ethylbenzene exceeded their respective RSLs in sample MW02. Four of the RCRA 8 metals were detected in the groundwater samples. Arsenic exceeded its RSL and MCL in samples MW01 and MW02 and chromium exceeded its RSL in sample MW04. No groundwater samples exceeded MCLs for VOCs or PAHs or ISLs for EPH.

Soil Gas Results

Analytical results for the soil gas samples were compared to U.S. EPA Vapor Intrusion Screening Levels (VISL) for residential and commercial air. In accordance with TDEC guidance, detected chemicals were evaluated based on the cumulative target lifetime carcinogenic risk of 10E-6 and a target noncarcinogenic hazard quotient of 0.2. Laboratory detections and exceedances for the soil gas samples are summarized in Table 5. A complete laboratory report for soil gas is included in Attachment D.

Eight soil gas samples were submitted for laboratory analysis. All soil gas samples had detections of VOCs. Soil gas samples SG01, SG02, and SG07 did not have detections that exceeded residential or commercial VISLs. Benzene exceeded its residential VISL in samples SG03 and SG04. Naphthalene exceeded its residential and commercial VISL in sample SG04 and its residential VISL in sample SG08. Ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene exceeded their respective residential and commercial VISLs in sample SG04. PCE exceeded its residential VISL in samples SG05 and SG06.

Table 4
Detected Concentrations in Groundwater
167 Chelsea Avenue and 705 N Third Street, Memphis, Tennessee

							Sample Location:	MW01	MW02	MW03	MW04
							Sample ID:	167GMW01080520	167GMW02080520	167GMW03080720	167GMW04080720
							Sample Date:	08/05/2020	08/05/2020	08/07/2020	08/07/2020
							Matrix:	Groundwater	Groundwater	Groundwater	Groundwater
Method	CAS No.	Analyte	RSL (a)	MCL (b)	TN ISL (c)	Units					
Metals											
SW6010	7440-38-2	Arsenic	0.052	10	NE	µg/L	19.5 ab	35.3 ab	ND	ND	
SW6010	7440-39-3	Barium	380	2000	NE	µg/L	56.1	118	157	136	
SW6010	7440-47-3	Chromium, Total	0.035	100	100	µg/L	ND	ND	ND	12 a	
SW6010	7439-92-1	Lead	15	15	15	µg/L	ND	ND	ND	4 J	
Volatile Organic Compounds											
SW8260	95-63-6	1,2,4-Trimethylbenzene	5.6	NE	NE	µg/L	ND	4	ND	ND	
SW8260	108-67-8	1,3,5-Trimethylbenzene	6	NE	NE	µg/L	ND	1	ND	ND	
SW8260	71-43-2	Benzene	0.46	5	5	µg/L	ND	0.5 J a	ND	ND	
SW8260	100-41-4	Ethylbenzene	1.5	700	700	µg/L	ND	2 a	ND	ND	
SW8260	98-82-8	Isopropylbenzene	45	NE	NE	µg/L	ND	2	ND	ND	
SW8260	179601-23-1	m,p-Xylene	19	NE	NE	µg/L	ND	5	ND	ND	
SW8260	135-98-8	sec-Butylbenzene	200	NE	NE	µg/L	1	2	ND	ND	
SW8260	1330-20-7	Xylene (Total)	19	10000	10000	µg/L	ND	5	ND	ND	
Polynuclear Aromatic Hydrocarbons											
SW8270SIM	91-57-6	2-Methylnaphthalene	3.6	NE	NE	µg/L	0.067	0.208	0.051	0.048	
SW8270SIM	83-32-9	Acenaphthene	53	NE	939	µg/L	0.081	0.033	ND	ND	
SW8270SIM	120-12-7	Anthracene	180	NE	43.4	µg/L	0.008 J	0.007 J	0.005 J	0.008 J	
SW8270SIM	206-44-0	Fluoranthene	80	NE	206	µg/L	0.006 J	ND	ND	ND	
SW8270SIM	86-73-7	Fluorene	29	NE	626	µg/L	0.014 J	0.016 J	ND	ND	
SW8270SIM	91-20-3	Naphthalene	0.12	NE	20	µg/L	1.99 a	1.94 a	0.158 a	0.181 a	
SW8270SIM	85-01-8	Phenanthrene	12	NE	469	µg/L	0.015 J	0.012 J	0.011 J	0.008 J	
Extractable Petroleum Hydrocarbons											
TNEPH	9999000-74-8	Hydrocarbons C28-C40	NE	NE	NE	µg/L	93.3	ND	ND	ND	
TNEPH	9999900-33-7	TN EPH (C10-C40)	NE	NE	NE	µg/L	379 B	1130	87.2 JB	ND	
TNEPH	9999000-99-7	TPH DRO - C10-C28	NE	NE	NE	µg/L	286 B	1130	87.2 JB	ND	

Notes:

- CAS No. = Chemical Abstracts Service number
- RSL = U.S. EPA Tapwater Regional Screening Level, hazard quotient = 0.1 (May 2020)
- MCL = U.S. EPA Maximum Contaminant Level (March 2018)
- TN ISL = Tennessee Underground Storage Tank System Assessment Closure Initial Screening Levels for Groundwater, Drinking Water (September 2006)
- U.S. EPA = United States Environmental Protection Agency
- µg/L = Micrograms per liter
- NE = Value is not established.
- ND = Undetected at the listed reporting limit
- J = Estimated value
- B = Analyte was detected in the laboratory method blank.
- Bold** = Detected
- a** = Detected above the RSL
- b** = Detected above the MCL
- c** = Detected above TN ISL

Table 5
Detected Concentrations in Soil Gas
167 Chelsea Avenue and 705 North Third Street, Memphis, Tennessee

Sample Location:						SG01	SG02	SG03	SG04	SG05	SG06	SG07	SG08
Sample ID:						167SG01	167SG02	167SG03	167SG04	167SG05	167SG06	167SG07	167SG08
Sample Date:						08/05/2020	08/05/2020	08/05/2020	08/05/2020	08/05/2020	08/05/2020	08/05/2020	08/05/2020
Matrix:						Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Method	CAS No.	Analyte	Res VISL	Com VISL	Units								
TO-15	71-55-6	1,1,1-Trichloroethane	34800	146000	µg/m ³	ND	ND	ND	ND	0.98 J	0.97 J	ND	0.35 J
TO-15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	34800	146000	µg/m ³	ND	ND	0.67 J	ND	ND	ND	ND	ND
TO-15	95-63-6	1,2,4-Trimethylbenzene	417	1750	µg/m ³	3.3	11.8	10.1	8500 ab	14.7	12	1.3 J	1.1 J
TO-15	107-06-2	1,2-Dichloroethane	3.6	15.7	µg/m ³	ND	0.39 J	0.7 J	ND	ND	ND	ND	ND
TO-15	108-67-8	1,3,5-Trimethylbenzene	417	1750	µg/m ³	1.6 J	5.5	4.9	2940 ab	6.4	6.6	0.64 J	ND
TO-15	106-99-0	1,3-Butadiene	3.12	13.6	µg/m ³	ND	ND	ND	ND	0.64 J	ND	ND	ND
TO-15	78-93-3	2-Butanone (MEK)	34800	146000	µg/m ³	17.8	11.7	12.9	ND	23.2	30.3	13.6	6.7
TO-15	591-78-6	2-Hexanone	209	876	µg/m ³	2.7 J	ND	1.6 J	ND	3.5 J	ND	2.5 J	0.89 J
TO-15	108-10-1	4-Methyl-2-Pentanone (MIBK)	20900	87600	µg/m ³	2.5 J	ND	2 J	ND	18.1	16.4	1 J	0.91 J
TO-15	67-64-1	Acetone	215000	902000	µg/m ³	33.3	26.5	35.8	ND	46.2	29.9	28	18.9
TO-15	71-43-2	Benzene	12	52.4	µg/m ³	4.2	7.6	14.4 a	49.7 a	2.7	1.5	0.43 J	1.3
TO-15	74-83-9	Bromomethane	34.8	146	µg/m ³	ND	ND	ND	ND	ND	0.6 J	0.73 J	ND
TO-15	75-15-0	Carbon disulfide	4870	20400	µg/m ³	13.1	14.5	14.1	13.3 J	24.8	13.9	11.6	10.5
TO-15	56-23-5	Carbon tetrachloride	15.6	68.1	µg/m ³	ND	ND	0.31 J	ND	ND	ND	ND	ND
TO-15	67-66-3	Chloroform	4.07	17.8	µg/m ³	ND	ND	ND	ND	0.45 J	ND	ND	ND
TO-15	74-87-3	Chloromethane	626	2630	µg/m ³	1.5	1	1.2	ND	1.2	1.2	1.4	0.41 J
TO-15	110-82-7	Cyclohexane	41700	175000	µg/m ³	2.8 J	11.7	5.2	ND	5.7	5.3	0.66 J	0.81 J
TO-15	75-71-8	Dichlorodifluoromethane	695	2920	µg/m ³	2 J	2.6	2.2	ND	2.5	1.9 J	2 J	2.4
TO-15	64-17-5	Ethanol	NE	NE	µg/m ³	29.9	26.3	24.8	ND	21.9	29.7	24.1	39.6
TO-15	141-78-6	Ethyl acetate	487	2040	µg/m ³	5.4	3.8	3.7	ND	2.5	4.4	2.2	1.7
TO-15	100-41-4	Ethylbenzene	37.4	164	µg/m ³	13.2	4.6	4.1	1170 ab	2.8	2.8	0.61 J	0.56 J
TO-15	67-63-0	Isopropanol	1390	5840	µg/m ³	4.7 J	4.4 J	3 J	ND	5.7	10.3	9.9	3.7 J
TO-15	179601-23-1	m,p-Xylene	NE	NE	µg/m ³	53.5	15.9	17.6	6740	11.7	15.6	2.3 J	2.6 J
TO-15	75-09-2	Methylene chloride	3380	17500	µg/m ³	19.7	22.2	30.3	ND	19.2	36.9	21	27
TO-15	142-82-5	n-Heptane	2780	11700	µg/m ³	8.3	14.3	5.5	633	ND	5.6	ND	ND
TO-15	110-54-3	n-Hexane	4870	20400	µg/m ³	7.9	17.8	8.8	495	5.1	4.3	1.5	2.4
TO-15	91-20-3	Naphthalene	2.75	12	µg/m ³	ND	ND	ND	1450 ab	ND	ND	ND	5.6 a
TO-15	95-47-6	o-Xylene	695	2920	µg/m ³	14.7	6.7	7.7	2940 ab	5.6	11.4	1.1 J	1 J
TO-15	622-96-8	p-Ethyltoluene	NE	NE	µg/m ³	ND	1.5 J	1.6 J	1790	2.9 J	2.3 J	ND	ND
TO-15	115-07-1	Propylene	20900	87600	µg/m ³	49.3	71.1	74.5	34.7	10.6	12.2	ND	ND
TO-15	100-42-5	Styrene	6950	29200	µg/m ³	2.6	1.7 J	1.9	37.3 J	1.1 J	1.1 J	0.83 J	1.3 J
TO-15	127-18-4	Tetrachloroethene	278	1170	µg/m ³	0.79 J	1 J	3.6	ND	930 a	621 a	0.76 J	8.4
TO-15	108-88-3	Toluene	34800	146000	µg/m ³	15.8	25.4	24.4	1600	24.1	13.1	6.3	7.2
TO-15	79-01-6	Trichloroethene	13.9	58.4	µg/m ³	0.67 J	0.7 J	0.78 J	ND	1.6	0.89 J	0.56 J	2.3
TO-15	75-69-4	Trichlorofluoromethane	NE	NE	µg/m ³	0.96 J	1.6 J	1.3 J	ND	1.5 J	1.3 J	0.99 J	1.2 J

Notes:

- Res VISL = Vapor Intrusion Screening Level Residential Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=0.2).
- Com VISL = Vapor Intrusion Screening Level Commercial Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=0.2).
- VISL = Vapor Intrusion Screening Level
- TCR = Target cancer risk
- THQ = Target hazard quotient
- NE = Value is not established.
- µg/m³ = Micrograms per cubic meter
- CAS No. = Chemical Abstracts Service number
- ND = Not detected
- J = Estimated value
- bold** = Detected concentration
- a** = Exceeds Res VISL
- b** = Exceeds Com VISL

CONCLUSIONS

This Phase II ESA included collection and laboratory analysis of soil, groundwater, and soil gas samples in August 2020 to evaluate the potential for subsurface contamination associated with past operations on the subject property. Petroleum contamination had been reported from a former UST on the 167 Chelsea Avenue property.

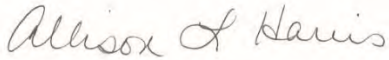
Laboratory analysis identified the following:

- One or more petroleum-related compounds were identified in soil samples from all borings, with higher concentrations encountered at the two former fuel dispenser islands. Naphthalene exceeded its residential RSL near both fuel dispenser island locations (SB02 and SB07). Ethylbenzene, 1,2,4-trimethylbenzene, naphthalene, xylene (total), and 2-methylnaphthalene exceeded their respective residential RSLs at the western fuel dispenser island location (SB07). SB07 was the only sample to exceed the TN ISL for EPH.
- Benzene and ethylbenzene also exceeded their respective RSL in groundwater at MW02 (eastern fuel dispenser island). Naphthalene exceeded its RSL in all four groundwater samples. Naphthalene exceedances were an order of magnitude higher at MW01 (former UST pit) and MW02 than at MW03 and MW04 (former residential property); indicating that the groundwater plume is likely contained on the subject property.
- Benzene exceeded its residential VISL in soil gas sampled at the western fuel dispenser island location (SG03) and at the eastern fuel dispenser island location (SG04). Ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene exceeded their respective residential and commercial VISLs in soil gas sampled at the eastern fuel dispenser island location. Naphthalene exceeded its residential VISL in soil gas sampled at SG08 (approximately 50 feet southwest of SG04).
- PCE exceeded its residential VISL in soil gas sampled from under two of the former automotive bays (SG05 and SG06). A pit within the building footprint was noted during the field investigation and the presence of chlorinated solvents was likely related to past automotive maintenance and repair operations.

Additional actions for the soil, groundwater, and soil gas findings at the subject property will be based on the potential future use of the property.

Sincerely,

EnSafe Inc.




By: Allison Harris
Project Manager



Chelsey Kipper
Geologist

Attachments:

- Attachment A — Soil Boring Logs
- Attachment B — Soil Gas Field Sampling Logs
- Attachment C — Soil and Groundwater Laboratory Reports
- Attachment D — Soil Gas Laboratory Report



Attachment A
Soil Boring Logs

LOCATION OF BORING <i>Chelsea</i>		JOB NO	CLIENT <i>CRA</i>	LOCATION <i>167 Chelsea</i>
		DRILLING METHOD:		BORING NO. <i>SB01</i>
		SAMPLING METHOD: <i>DPT</i>		SHEET <i>1 of 1</i>
DATUM		ELEVATION		DRILLING
		WATER LEVEL		START TIME <i>0920</i>
		TIME		FINISH TIME <i>1010</i>
		DATE		DATE <i>08-07-20</i>
		CASING DEPTH		

DRILLING CONTR

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		<i>Concrete</i>
	<i>48/12</i>		<i>1/4</i>		<i>0.0</i>	1		<i>0-4' Brown silty clay w/ trace sand. No odor or stain. Likely Fill.</i>
	<i>48/2</i>		<i>2/8</i>		<i>0.1</i>	3		<i>4-8' Brown silty clay, w/ fine brown sand, no odor or stain</i>
	<i>48/26</i>		<i>3/12</i>		<i>0.1</i>	7		<i>8-12' 10-12' ^{DF} Brown silty clay, ^{DF} trace sand, no odor or stain, fill to 10'. 10-12' brown moist silty clay, some greenish-yellow tinge, no odor. Sample 10-12'</i>
	<i>48/48</i>		<i>4/16</i>		<i>1.3</i>	11		<i>12-16' Light yellow brown very moist to moist silty clay, no odor at 12'; then odor to 16' (petroleum). At 14.5' color grades to dark brown</i>
	<i>48/48</i>		<i>5/20</i>		<i>0.2</i>	15		<i>16-20 - grades to slightly moist silty clay, brown, lighter brown than above.</i>
	<i>48/30</i>		<i>6/24</i>		<i>0.2</i>	18		<i>20-24 Brown clay to silty clay, moist seam of very moist brown sand at 22'. No odor Setwell - Hole to 24', 15' screen 9-24' MW01</i>

BY _____ DATE _____
CHK D BY _____

LOCATION OF BORING Chelsea		JOB NO.	CLIENT CRA	LOCATION 167 Chelsea
DRILLING METHOD: DPT			BORING NO. SBO2	
SAMPLING METHOD:			SHEET 1 of 1	
DATUM			DRILLING	
ELEVATION			START TIME 1030	FINISH TIME 1140
WATER LEVEL			DATE 08.04.20	DATE
CASING DEPTH				

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		concrete Asphalt
	48/20		1/4	2.4		1		0-4' - Brown silty clay grading to green silty clay, odor (petroleum) soft slightly moist
	48/48		2/8	58.0		2		4-8' mottled green, gray silty clay slightly moist to moist, petroleum odor. Sample 4-8 1105
	48/36		3/12	11.2		3		8-12' Brown greenish gray to gray silty clay, very stiff w/ petroleum odor, moist to slightly moist Sample 8-12 1110
	48/48		4/16	7.5		4		12-16' Brownish, green gray to yellow gray silty clay, soft, moist to very moist. Trace odor.
	48/48		5/20	8.8		5		16-20' Dark brown, moist, silty clay trace odor, soft.
	48/48		6/24	2.4		6		20-24' Brown silty clay, slightly moist, denser - stiffer, no odor.
						7		set well to 24', 15' screen, 24'-9' MW02

DRILLING CONTR

CHK D BY

DATE

BY

LOCATION OF BORING <i>chelsea</i>		JOB NO.	CLIENT <i>CRA</i>	LOCATION <i>167 chelsea</i>
		DRILLING METHOD: <i>DPT</i>		BORING NO. <i>SBO3</i>
		SAMPLING METHOD:		SHEET <i>1 of 1</i>
DATUM		ELEVATION		DRILLING
WATER LEVEL		TIME		START TIME <i>1240</i>
TIME		DATE		FINISH TIME <i>1305</i>
CASING DEPTH		DATE		DATE <i>0808-04-20</i>

DRILLING CONTR

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		<p><i>Concrete</i></p> <p><i>Thin concrete > 1"</i></p> <p><i>Brown fine fill sand, do multiple pushes due to poor recovery.</i></p> <p><i>0-4"</i></p> <p><i>Brown, dry silty clay below 1" thick concrete and thin gravel layers. silty clay has no odor or stain. collect 0-4' sample</i></p>
						1		
						2		
						3		
	<i>48 48</i>		<i>4</i>		<i>0.5</i>	4		
	<i>20</i>					5		
						6		
						7		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

BY _____ DATE _____
 CHK D BY _____

LOCATION OF BORING CHELSEA		JOB NO.	CLIENT CRA	LOCATION 167 Chelsea
DRILLING METHOD: DPT			BORING NO. SBO4	
SAMPLING METHOD:			SHEET 1 of 1	
DATUM			DRILLING	
ELEVATION			START TIME 1310	FINISH TIME 1320
WATER LEVEL			DATE 08-04-20	DATE
TIME				
DATE				
CASING DEPTH				

SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO.	BLOWS/FT. SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH
						0	
						1	
	48 / 24		1 / 4		005	2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:
concrete

Thin concrete
0-4' Brown, dry silty clay, no odor or stain w/ trace of sand collect 0-4'

DRILLING CONTR _____

BY _____ DATE _____
CHK'D BY _____

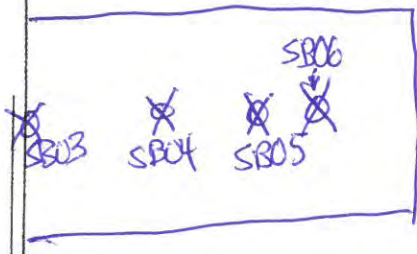
LOCATION OF BORING <i>chelsea</i>		JOB NO.	CLIENT <i>CRA</i>	LOCATION <i>167chelsea</i>
			BORING NO. <i>SBO5</i>	
			SHEET <i>1 of 1</i>	
DRILLING METHOD:			SAMPLING METHOD:	
WATER LEVEL			START TIME <i>1340</i>	FINISH TIME <i>1350</i>
TIME			DATE	DATE
DATE			CASING DEPTH	
DATUM			ELEVATION	

DRILLING CONTR

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		
						1		
	<i>48 24</i>		<i>1 4</i>		<i>0.4</i>	2		<i>Concrete</i>
						3		<i>0-4</i>
						4		<i>Brown, dry silty clay w/ trace of</i>
						5		<i>sand, moist at 2-4', mostly</i>
						6		<i>dry the rest of it, no odor or</i>
						7		<i>stains.</i>
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

BY _____ DATE _____
 CHK'D BY _____

LOCATION OF BORING <i>Chelsea</i>		JOB NO.	CLIENT <i>CRA</i>	LOCATION <i>167 Chelsea</i>
DRILLING METHOD: <i>DPT</i>			BORING NO. <i>SBO6</i>	
SAMPLING METHOD:			SHEET <i>1</i> OF <i>1</i>	
DRILLING			START TIME	FINISH TIME
WATER LEVEL			<i>1320</i>	<i>1335</i>
TIME			DATE	DATE
DATE			<i>08.04.20</i>	<i>08.04.20</i>
CASING DEPTH				



DATUM		ELEVATION		SURFACE CONDITIONS:			
SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH
						0	
						1	
	<i>18/22</i>		<i>1/4</i>		<i>0.3</i>	2	<i>0-4'</i> <i>Brown, dry silty clay, trace of sand, no odor or stain</i> <i>collect 0-4'</i>
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

DRILLING CONTR

BY _____ DATE _____
 CHK'D BY _____

LOCATION OF BORING <i>Chelsea</i>		JOB NO.	CLIENT <i>CRA</i>	LOCATION <i>167 Chelsea</i>
		DRILLING METHOD: <i>DPT</i>		BORING NO. <i>SB07</i>
		SAMPLING METHOD:		SHEET <i>1 of 1</i>
DATUM		ELEVATION		DRILLING
WATER LEVEL		TIME		START TIME <i>1425</i>
TIME		DATE		FINISH TIME <i>1445</i>
CASING DEPTH		DATE		DATE <i>08.04.20</i>

DRILLING CONTR

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		
						1		
	<i>48/24</i>		<i>1/4</i>		<i>1.2</i>	2		<i>Concrete</i>
						3		
						4		
						5		
						6		
	<i>48/42</i>		<i>2/8</i>		<i>402.3</i>	7		<i>0-4' Browns silty clay, dry, grades to green-gray moist silty clay at 3.8'-4.0' (assumed to be) with strong odor (petroleum).</i>
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

BY _____ DATE _____
 _____ CHK'D BY _____

LOCATION OF BORING		JOB NO.	CLIENT	LOCATION
			CRA	167 Chelsea
DRILLING METHOD:				BORING NO.
				SB08
SAMPLING METHOD:				SHEET
				1 of 1
				DRILLING
WATER LEVEL		START TIME	FINISH TIME	
		1445	1455	
TIME		DATE	DATE	
		08.04.20		
CASING DEPTH				

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
	48/22		1/4		0.0	3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

Grass

0-4'

Grass, roots to 0.1'

then silty clay loam over brown fine sand fill sand, no odor, dry

DRILLING CONTR.

BY _____ DATE _____
 CHK'D BY _____

LOCATION OF BORING		JOB NO	CLIENT	LOCATION	
<p>BZAG SLAB</p> <p>107 CHELSEA</p> <p>SBO9</p> <p>Glass</p> <p>705 N. 3RD</p>			CRA	705 N. 3RD	
		DRILLING METHOD:			BORING NO.
		DPT			SBO9
		SAMPLING METHOD:			SHEET
			1 OF 1		
				DRILLING	
				START TIME	
				0840	
				FINISH TIME	
				0905	
				DATE	
				08.07.20	
				CASING DEPTH	

DATUM		ELEVATION		SURFACE CONDITIONS:				
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	
	48/16				0.0	0		0-4' Brown silty clay, slightly moist no odor. No odor or PID evidence so collect 0-1' at 0910 4-8 SAA, more moist
	48/24				0.0	3		
	48/40				0.0	6		8-12 - Brown silty clay, moist, no odor or stain
	48/48				0.0	8		12-16 grayish green silty clay moist, some petroleum odor, semi-soft no stain take 12-16' just at or above water and trace of odor
	48/46				0.0	1		16-20 grayish-green to mottled brown, moist - wet silty clay. odor around 16'
	48/48				0.0	5		20-24 Darker brown silty clay, moist dense, softer from 20-22' then harder from 22-24'
						6		Set well with 15' screen from 24'-9'

DRILLING CONTR

BY _____ DATE _____
CHK'D BY _____

checked
PID
OK

LOCATION OF BORING 167 CHELSEA		JOB NO.	CLIENT CRA	LOCATION 167-705-N3R
DRILLING METHOD:			BORING NO. SB-10	
SAMPLING METHOD: DPT			SHEET 1 of 1	
WATER LEVEL			START TIME	FINISH TIME
TIME			0945	1010
DATE			DATE	DATE
CASING DEPTH			08-07-20	

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
	48/20		1/4		0.0	0		GRASS
	48/46		2/8		0.0	4		0-4 Brown silty clay, slightly moist to dry, no odor, no stain
	48/49		3/12		0.0	8		4-8 Brown silty clay, moist no odor or stain
	48/48		4/16		0.0	12		8-12 Brown silty clay, dense slightly soft, no odor moist
	48/48		5/20		0.0	16		12-16 Brown silty clay, dense soft very moist to wet no odor
	48/46		6/24		0.0	20		16-20 Brown moist to wet silty clay to 18', then moist dark brown clay. Soft, no odor or stain
						21		20-21 Dark brown silty clay, dense slightly moist, no odor or stain. Set well with 15' screen from 24'-9'

DRILLING CONTR

BY _____ DATE _____
CHK'D BY _____



Attachment B
Soil Gas Field Sampling Logs

	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>08/05/2014 12:00</u> ¹⁴¹⁶ 1412 _{DF}	Date / Time: <u>08/05/2014 21</u>
Sample Point: <u>SG-01</u>	Outside Temp: <u>90°</u> °C or F	Outside Temp: <u>NO CHANGE</u> °C or F
Building ID: _____	Wind <u>10</u> mph. Out of the <u>NW</u>	Wind _____ mph. Out of the _____
Room ID: _____	Precip. <u>0+0</u>	Precip. _____
Personnel: <u>Chelsey Kipper</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____
	<u>Purge 1412 start 1415 finish</u>	

Type of Points (Circle all that apply):

Indoor Air Ambient Air

Sub-Slab Vapor

Soil Gas

Sample Type:

VOCs Radon

DF

Sample type:

Summa Canister (6 liter)

Summa Canister (1 liter)

Tedlar bag (___ liter)

HAPSITE

24-hr sample

12-hr sample

8-hr sample

Grab

other _____

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet or Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or ISOPROPANOL

Description of Sub-Slab System Purge: Purge Can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm or Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	167SG01	T015	1416/08/05/20	1303	2291	30	1421/08/05/20	4
	Purge Can							
				3744	2235			
				3942	2460			
				2732	2562			

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

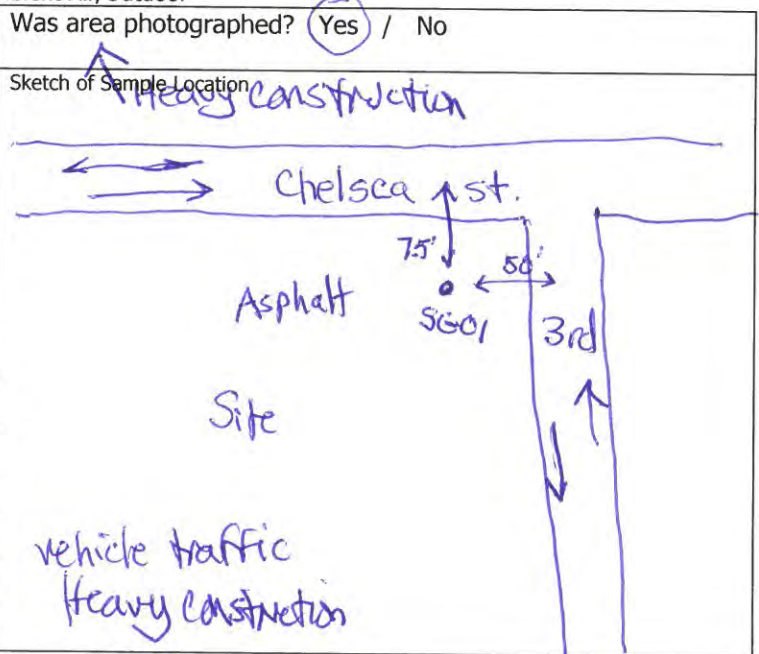
Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet
Other: Asphalt

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch. outdoor

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:
Asphalt lot is cracked



	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>09/05/20-1443</u>	Date / Time: <u>09/05/20-1448</u>
Sample Point: <u>SG02</u>	Outside Temp: <u>90</u> °C or F <input checked="" type="radio"/>	Outside Temp: <u>90</u> °C or F <input checked="" type="radio"/>
Building ID: _____	Wind <u>NW</u> mph. Out of the <u>10</u>	Wind <u>NW</u> mph. Out of the <u>NW</u>
Room ID: _____	Precip. <u>0.0</u>	Precip. <u>0.0</u>
Personnel: <u>Chelsey Kipper</u>	Inside: Temp: <u>/</u> °C or F	Inside: Temp: <u>/</u> °C or F
Personnel: _____	HVAC: <u>/</u>	HVAC: <u>/</u>
	Operations: <u>/</u>	Operations: <u>/</u>

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample Type:

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other 5min.

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: Purge can

Purge Rate: 200 mL/min Amount Purged: 400 200 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	167SG02	T0-15	1443/09/05/20	1141	2558	30	1448/09/05/20	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full
	167SG02	(DF)				

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet
 Other: Asphalt is cracked

Any cracks or utility breaches in this floor? Y / N
 If Yes mark locations on sketch.

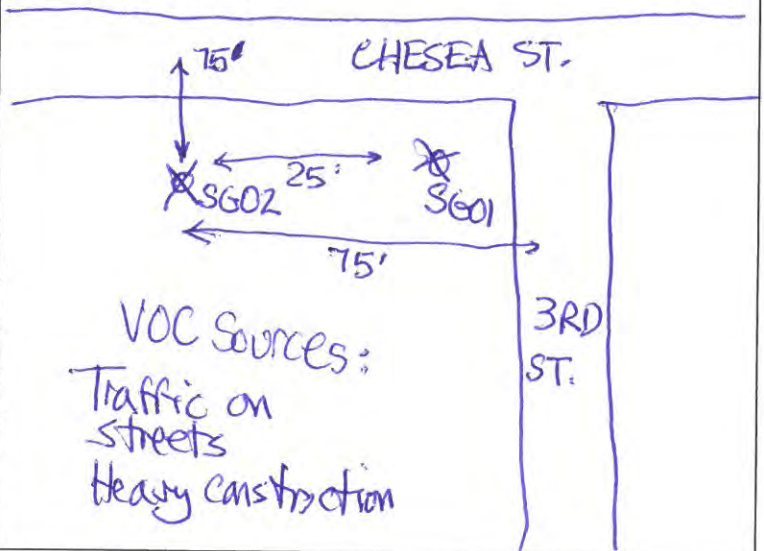
VOC Sources in area? Y / N
 If Yes mark locations on sketch.

Other comments:

Purge-1441-1443
 Vehicle Traffic, construction equipment

Was area photographed? Yes / No

Sketch of Sample Location



	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>09/05/20-1454</u>	Date / Time: <u>09/05/20-1459</u>
Sample Point: <u>SG03</u>	Outside Temp: <u>90°</u> °C or <input checked="" type="radio"/> F	Outside Temp: <u>90°</u> °C or <input checked="" type="radio"/> F
Building ID: _____	Wind <u>10</u> mph. Out of the <u>NW</u>	Wind <u>10</u> mph. Out of the <u>NW</u>
Room ID: _____	Precip. <u>0.0</u>	Precip. <u>0.0</u>
Personnel: <u>Chelsey K.</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: <u>start purge 1451</u>	Operations: _____

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample Type:

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other 5 minute

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: purge can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	167SG03	To-15	1454/07.05.20	2958	2303	30	1454 07.05.20	3

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

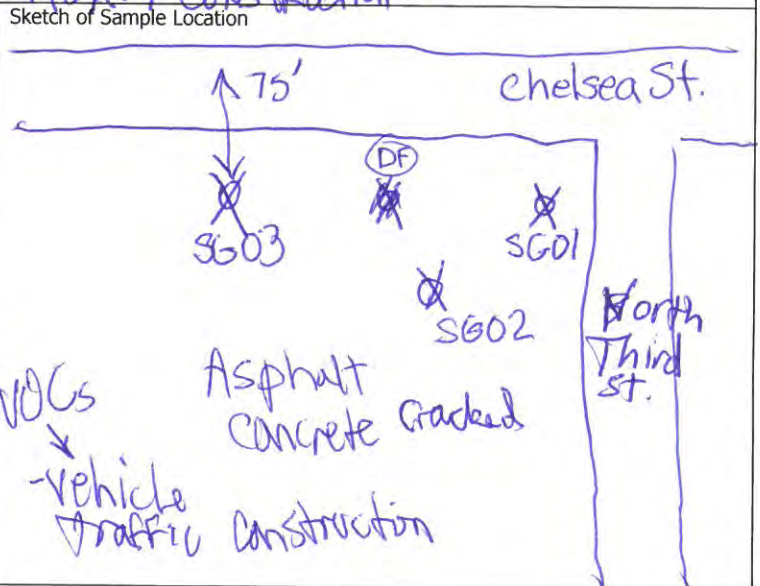
Floor conditions: Concrete Wood Tile Carpet
Other: Asphalt is wacked

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:
VOC sources on adjacent roads

Was area photographed? Yes / No
HEAVY CONSTRUCTION



	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>08/05/20 - 1510¹⁵¹⁰ - 1507^{DF}</u>	Date / Time: <u>08/05/20 - 1515</u>
Sample Point: <u>SG04</u>	Outside Temp: <u>90°</u> °C or <u>F</u>	Outside Temp: <u>90°</u> °C or <u>F</u>
Building ID: _____	Wind <u>10</u> mph. Out of the <u>NW</u>	Wind <u>10</u> mph. Out of the <u>NW</u>
Room ID: _____	Precip. <u>0.0</u>	Precip. <u>0.0</u>
Personnel: <u>Chelsea Kipper</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____
	<u>Purge 1507</u>	

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other 5 minute

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No 1505

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: Purge can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	167SG04	TO-15	08/05/20 -1510	3258	2451	30	1515 08/15/20	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet
Other:

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

new or nearby

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:

Traffic/Vehicles - Construction are VOC sources

Was area photographed? Yes / No
Heavy construction

Sketch of Sample Location

	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	<u>8/5/2020</u> Date / Time: <u>1532</u>	<u>8/5/2020</u> Date / Time: <u>1538</u>
Sample Point: <u>SG05</u>	Outside Temp: <u>82</u> °C or <input checked="" type="radio"/> F	Outside Temp: <u>82</u> °C or <input checked="" type="radio"/> F
Building ID: _____	Wind <u>9</u> mph. Out of the <u>N</u>	Wind <u>9</u> mph. Out of the <u>N</u>
Room ID: _____	Precip. <u>0</u>	Precip. <u>0</u>
Personnel: <u>Chelsey Kipper</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample Type:

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other _____

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: Purge can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: NA ppm Purge Gas: NA ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	SG05	T0-15	8/5/2020 1532	2968	2285	29	8/5/2020 1538	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet
Other:

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:

VOC sources
construction
+
traffic

Was area photographed? Yes / No

Sketch of Sample Location

SG05 Pit SSB07

building Foot print

	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>8/5/2020 1545</u>	Date / Time: <u>8/5/2020</u>
Sample Point: <u>5606</u>	Outside Temp: <u>82</u> °C or F	Outside Temp: _____ °C or F
Building ID: _____	Wind <u>9</u> mph. Out of the <u>N</u>	Wind _____ mph. Out of the _____
Room ID: _____	Precip. <u>0</u>	Precip. _____
Personnel: <u>Chelsey Hipper</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other _____

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet or Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: Purge Can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm or Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	SG06	T0-15	8/5/20 1545	1014	2372	28	8/5/20 1551	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet
Other:

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:

VOCs
- construction on Chelsea and Traffic

Was area photographed? Yes / No

Sketch of Sample Location

The sketch shows a rectangular area representing a sample location. At the top, it is labeled 'construction'. Below that, a horizontal line is labeled 'Traffic'. To the right, a vertical line is labeled 'Chelsea'. Further right, another vertical line is labeled '3rd'. Inside the main rectangular area, there are three points labeled 'SS5', 'SG06', and 'SG05'. To the left of the main area, there is a label 'slab' with an arrow pointing towards the area. The entire sketch is drawn in blue ink.

	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>8/5/20 1604</u>	Date /Time: _____
Sample Point: <u>5607</u>	Outside Temp: <u>83</u> °C or F	Outside Temp: _____ °C or F
Building ID: _____	Wind <u>8</u> mph. Out of the <u>N</u>	Wind _____ mph. Out of the _____
Room ID: _____	Precip. <u>0</u>	Precip. _____
Personnel: <u>Daksey Kupper</u>	Inside: Temp: _____ °C or F	Inside: Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample Type:

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other _____

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or Isopropanol

Description of Sub-Slab System Purge: Purge can

Purge Rate: 200 mL/min Amount Purged: 400 mL

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	5607	T0-15	8/5/20 1602	2411	2443	29	8/5/20 1608	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet

Other: GRASS

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:

VOCs - construction
& traffic

Was area photographed? Yes / No

Sketch of Sample Location

The sketch shows a rectangular area labeled 'Building Footprint' with 'Grass' written below it. Above the footprint is a horizontal line labeled 'Construction' and another line labeled 'chelsea'. To the right of the footprint is a vertical line labeled '32'.

•5607

	Conditions at Start of Sampling:	Conditions at End of Sampling:
Site: <u>167 Chelsea</u>	Date / Time: <u>8/5/20 1619</u>	Date / Time: <u>8/5/20 1627</u>
Sample Point: <u>5604</u>	Outside Temp: <u>83</u> °C or F	Outside Temp: <u>83</u> °C or F
Building ID: _____	Wind <u>4</u> mph. Out of the <u>N</u>	Wind <u>8</u> mph. Out of the <u>NNW</u>
Room ID: _____	Precip. <u>0</u>	Precip. <u>0</u>
Personnel: <u>Chelsea Ripper</u>	Inside Temp: _____ °C or F	Inside Temp: _____ °C or F
Personnel: _____	HVAC: _____	HVAC: _____
	Operations: _____	Operations: _____

Type of Points (Circle all that apply):

Indoor Air Ambient Air Sub-Slab Vapor Soil Gas VOCs Radon

Sample Type:

Sample type:

Summa Canister (6 liter) Summa Canister (1 liter) Tedlar bag (___ liter) HAPSITE

24-hr sample 12-hr sample 8-hr sample Grab other _____

Breathing Zone / Indoor Sample Intake Height from Floor: NA Feet **or** Inches

Sub-Slab Data

Type of Sub-slab Point: NA Temporary Permanent Type of Probe: _____

Was shut-in test performed? Yes No

Leak testing performed? Yes No If yes by helium testing or Water or isopropanol

Description of Sub-Slab System Purge: Purge can

Purge Rate: 200 mL/min Amount Purged: 400 L

PID Screen: Ambient: _____ ppm Purge Gas: _____ ppm **or** Not Applicable

GEM 2000 Screen: Not Applicable

Ambient: _____ O₂% _____ CO₂% _____ CH₄% Purge Gas: _____ O₂% _____ CO₂% _____ CH₄%

Canister Sampling Records								
Zone	Sample ID	Analytical Methods	Start Time/Date	Canister #	Flow Controller #	Initial Vac. (in Hg)	Stop Time/Date	End Vac. (in Hg)
	S608	TO-15	8/5/2020 1621	3958	2711	28	8/5/2020 1626	4

Tedlar Bag Records						
Zone	Sample ID	Analytical Methods	Sample Date/Time	Tedlar Bag Size	Approx. Volume Collected (cc/ml)	Percent Full

Notes: SS = Sub-Slab BZ=Breathing Zone/Indoor AA=Ambient Air/Outdoor

Floor conditions: Concrete Wood Tile Carpet

Other: Grass

Any cracks or utility breaches in this floor? Y / N
If Yes mark locations on sketch.

VOC Sources in area? Y / N
If Yes mark locations on sketch.

Other comments:
VOCs - construction + traffic

Was area photographed? Yes / No

Sketch of Sample Location

05608



Attachment C
Soil and Groundwater
Laboratory Reports



8/14/2020

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN, 38134

Ref: Analytical Testing
Lab Report Number: 20-218-0165
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Dear Ms. Chelsey Kipper:
Waypoint Analytical, LLC. received sample(s) on 8/5/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule August 2017) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Rebekah Ross
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2021
Arizona	State Program	AZ0816	08/30/2020
Arkansas	State Program	88-0650	02/07/2021
California	State Program	2904	05/10/2020
Florida	State Program - NELAP	E871157	06/30/2021
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2021
Illinois	State Program - NELAP	200078	10/10/2020
Kentucky	State Program	80215	06/30/2021
Kentucky	State Program	KY90047	12/31/2020
Louisiana	State Program - NELAP	LA037	12/31/2020
Louisiana	State Program - NELAP	04015	06/30/2021
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	415	12/31/2020
Oklahoma	State Program	9311	08/31/2020
Pennsylvania	State Program - NELAP	68-03195	05/31/2021
South Carolina	State Program	84002	06/30/2021
South Carolina	State Program	84002	06/30/2020
Tennessee	State Program	02027	02/11/2023
Tennessee	A2LA ISO 17025:2017	4313.01	10/31/2021
Texas	State Program - NELAP	T104704180	09/30/2020
Virginia	State Program	00106	06/30/2021
Virginia	State Program - NELAP	460181	09/14/2020

Sample Summary Table

Report Number: 20-218-0165
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
92395	167SSB0116	Solids	08/04/2020 10:05	08/05/2020
92396	167SSB0112	Solids	08/04/2020 10:10	08/05/2020
92397	167SSB0208	Solids	08/04/2020 11:05	08/05/2020
92398	167SSB0212	Solids	08/04/2020 11:10	08/05/2020
92399	167SSB0304	Solids	08/04/2020 13:05	08/05/2020
92400	167SSB0404	Solids	08/04/2020 13:15	08/05/2020
92401	167SSB0504	Solids	08/04/2020 13:45	08/05/2020
92402	167SSB0604	Solids	08/04/2020 13:30	08/05/2020
92403	167SSB0704	Solids	08/04/2020 14:40	08/05/2020
92404	167SSB0804	Solids	08/04/2020 14:55	08/05/2020

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0116	L 92395							
6010D	Arsenic			2.71	mg/Kg - dry	0.308	08/08/2020 01:45	
6010D	Barium			73.2	mg/Kg - dry	0.167	08/08/2020 01:45	
6010D	Cadmium			0.279	mg/Kg - dry	0.0256	08/08/2020 01:45	
6010D	Chromium			16.4	mg/Kg - dry	0.302	08/08/2020 01:45	
6010D	Lead			6.55	mg/Kg - dry	0.230	08/08/2020 01:45	
7471A	Mercury			0.0171	mg/Kg - dry	0.00383	08/13/2020 17:23	J
8270D SIM	Acenaphthene			0.000801	mg/Kg - dry	0.000552	08/07/2020 14:09	J
8270D SIM	2-Methylnaphthalene			0.000941	mg/Kg - dry	0.000694	08/07/2020 14:09	B
8270D SIM	Naphthalene			0.00496	mg/Kg - dry	0.000598	08/07/2020 14:09	B
SW-DRYWT	Moisture			22.0	%		08/10/2020 14:13	
167SSB0112	L 92396							
6010D	Arsenic			3.73	mg/Kg - dry	0.302	08/08/2020 01:50	
6010D	Barium			36.1	mg/Kg - dry	0.164	08/08/2020 01:50	
6010D	Cadmium			0.0661	mg/Kg - dry	0.0251	08/08/2020 01:50	J
6010D	Chromium			11.0	mg/Kg - dry	0.297	08/08/2020 01:50	
6010D	Lead			4.99	mg/Kg - dry	0.226	08/08/2020 01:50	
6010D	Silver			0.602	mg/Kg - dry	0.202	08/08/2020 01:50	
7471A	Mercury			0.0113	mg/Kg - dry	0.00413	08/13/2020 17:24	J
8270D SIM	Benzo(a)anthracene			0.000965	mg/Kg - dry	0.000555	08/07/2020 14:30	
8270D SIM	Chrysene			0.00116	mg/Kg - dry	0.000322	08/07/2020 14:30	
8270D SIM	Fluoranthene			0.00300	mg/Kg - dry	0.000666	08/07/2020 14:30	
8270D SIM	2-Methylnaphthalene			0.00161	mg/Kg - dry	0.000682	08/07/2020 14:30	B
8270D SIM	Naphthalene			0.00200	mg/Kg - dry	0.000588	08/07/2020 14:30	B
8270D SIM	Pyrene			0.00340	mg/Kg - dry	0.000487	08/07/2020 14:30	
SW-DRYWT	Moisture			20.6	%		08/10/2020 14:13	
167SSB0208	L 92397							
6010D	Arsenic			6.55	mg/Kg - dry	0.301	08/08/2020 01:55	
6010D	Barium			48.9	mg/Kg - dry	0.163	08/08/2020 01:55	
6010D	Cadmium			0.147	mg/Kg - dry	0.0250	08/08/2020 01:55	
6010D	Chromium			12.8	mg/Kg - dry	0.296	08/08/2020 01:55	
6010D	Lead			6.14	mg/Kg - dry	0.225	08/08/2020 01:55	
6010D	Silver			0.269	mg/Kg - dry	0.201	08/08/2020 01:55	J
7471A	Mercury			0.00587	mg/Kg - dry	0.00424	08/13/2020 17:25	J
8260B	n-Butylbenzene			0.398	mg/Kg - dry	0.008	08/06/2020 18:33	
8260B	sec-Butyl benzene			0.113	mg/Kg - dry	0.008	08/06/2020 18:33	
8260B	Ethylbenzene			0.510	mg/Kg - dry	0.004	08/06/2020 18:33	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0208	L 92397							
8260B	Isopropylbenzene			0.468	mg/Kg - dry	0.005	08/06/2020 18:33	
8260B	m,p-Xylene			0.388	mg/Kg - dry	0.007	08/06/2020 18:33	
8260B	Naphthalene			2.18	mg/Kg - dry	0.041	08/06/2020 18:33	
8260B	o-Xylene			0.009	mg/Kg - dry	0.002	08/06/2020 18:33	J
8260B	n-Propylbenzene			1.43	mg/Kg - dry	0.006	08/06/2020 18:33	
8260B	1,2,4-Trimethylbenzene			0.215	mg/Kg - dry	0.005	08/06/2020 18:33	
8260B	Xylene (Total)			0.397	mg/Kg - dry	0.002	08/06/2020 18:33	J
8270D SIM	Acenaphthene			0.00887	mg/Kg - dry	0.00151	08/07/2020 14:51	
8270D SIM	Anthracene			0.00242	mg/Kg - dry	0.00148	08/07/2020 14:51	
8270D SIM	Chrysene			0.00119	mg/Kg - dry	0.000892	08/07/2020 14:51	J
8270D SIM	Fluoranthene			0.00220	mg/Kg - dry	0.00184	08/07/2020 14:51	J
8270D SIM	Fluorene			0.00896	mg/Kg - dry	0.00174	08/07/2020 14:51	
8270D SIM	2-Methylnaphthalene			2.31	mg/Kg - dry	0.00945	08/11/2020 15:54	
8270D SIM	Naphthalene			2.48	mg/Kg - dry	0.00814	08/11/2020 15:54	
8270D SIM	Phenanthrene			0.0129	mg/Kg - dry	0.00228	08/07/2020 14:51	
8270D SIM	Pyrene			0.00395	mg/Kg - dry	0.00136	08/07/2020 14:51	
SW-DRYWT	Moisture			20.3	%		08/10/2020 14:13	
TN EPH	Diesel Range Organics (C10-C28)			12.0	mg/Kg - dry	4.14	08/12/2020 11:29	
TN EPH	TN EPH (C10-C40)			12.0	mg/Kg - dry	4.14	08/12/2020 11:29	
167SSB0212	L 92398							
6010D	Arsenic			9.07	mg/Kg - dry	0.307	08/08/2020 02:00	
6010D	Barium			48.1	mg/Kg - dry	0.166	08/08/2020 02:00	
6010D	Cadmium			0.165	mg/Kg - dry	0.0255	08/08/2020 02:00	
6010D	Chromium			13.8	mg/Kg - dry	0.301	08/08/2020 02:00	
6010D	Lead			8.10	mg/Kg - dry	0.229	08/08/2020 02:00	
7471A	Mercury			0.0163	mg/Kg - dry	0.00390	08/13/2020 17:27	J
8260B	n-Butylbenzene			0.452	mg/Kg - dry	0.001	08/10/2020 10:53	
8260B	sec-Butyl benzene			0.280	mg/Kg - dry	0.001	08/10/2020 10:53	
8260B	tert-Butyl benzene			0.013	mg/Kg - dry	0.001	08/10/2020 10:53	
8260B	Ethylbenzene			0.080	mg/Kg - dry	0.0009	08/10/2020 10:53	
8260B	Isopropylbenzene			0.804	mg/Kg - dry	0.001	08/10/2020 10:53	E
8260B	4-Isopropyl toluene			0.074	mg/Kg - dry	0.001	08/10/2020 10:53	
8260B	m,p-Xylene			0.023	mg/Kg - dry	0.001	08/10/2020 10:53	
8260B	n-Propylbenzene			2.17	mg/Kg - dry	0.001	08/10/2020 10:53	E
8260B	Xylene (Total)			0.023	mg/Kg - dry	0.0006	08/10/2020 10:53	
8270D SIM	Benzo(a)anthracene			0.00217	mg/Kg - dry	0.00167	08/11/2020 15:11	J

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0212	L 92398							
8270D SIM	Benzo(a)pyrene			0.00217	mg/Kg - dry	0.000504	08/11/2020 15:11	J
8270D SIM	Benzo(b)fluoranthene			0.00161	mg/Kg - dry	0.000523	08/11/2020 15:11	J
8270D SIM	Dibenz(a,h)anthracene			0.00144	mg/Kg - dry	0.00106	08/11/2020 15:11	J
8270D SIM	2-Methylnaphthalene			0.00905	mg/Kg - dry	0.00206	08/11/2020 15:11	
8270D SIM	Naphthalene			0.0266	mg/Kg - dry	0.00178	08/11/2020 15:11	
SW-DRYWWT	Moisture			21.7	%		08/10/2020 14:13	
TN EPH	Diesel Range Organics (C10-C28)			23.5	mg/Kg - dry	4.21	08/12/2020 11:49	
TN EPH	TN EPH (C10-C40)			23.5	mg/Kg - dry	4.21	08/12/2020 11:49	
167SSB0304	L 92399							
6010D	Arsenic			12.4	mg/Kg - dry	1.43	08/11/2020 08:17	
6010D	Barium			222	mg/Kg - dry	0.775	08/11/2020 08:17	
6010D	Cadmium			0.254	mg/Kg - dry	0.119	08/11/2020 08:17	J
6010D	Chromium			18.0	mg/Kg - dry	1.41	08/11/2020 08:17	
6010D	Lead			39.2	mg/Kg - dry	1.07	08/11/2020 08:17	
7471A	Mercury			0.255	mg/Kg - dry	0.00404	08/11/2020 13:43	
8260B	Chloroform			0.007	mg/Kg - dry	0.002	08/10/2020 11:14	
8260B	m,p-Xylene			0.001	mg/Kg - dry	0.001	08/10/2020 11:14	J
8260B	o-Xylene			0.0006	mg/Kg - dry	0.0005	08/10/2020 11:14	J
8260B	Xylene (Total)			0.002	mg/Kg - dry	0.0005	08/10/2020 11:14	J
8270D SIM	Acenaphthene			0.00190	mg/Kg - dry	0.000513	08/07/2020 15:34	
8270D SIM	Acenaphthylene			0.00161	mg/Kg - dry	0.000455	08/07/2020 15:34	
8270D SIM	Anthracene			0.00670	mg/Kg - dry	0.000507	08/07/2020 15:34	
8270D SIM	Benzo(a)anthracene			0.0460	mg/Kg - dry	0.000525	08/07/2020 15:34	
8270D SIM	Benzo(a)pyrene			0.0496	mg/Kg - dry	0.000158	08/07/2020 15:34	
8270D SIM	Benzo(b)fluoranthene			0.0963	mg/Kg - dry	0.000164	08/07/2020 15:34	
8270D SIM	Benzo(g,h,i)perylene			0.0313	mg/Kg - dry	0.000275	08/07/2020 15:34	
8270D SIM	Benzo(k)fluoranthene			0.0391	mg/Kg - dry	0.000579	08/07/2020 15:34	
8270D SIM	Chrysene			0.0626	mg/Kg - dry	0.000305	08/07/2020 15:34	
8270D SIM	Dibenz(a,h)anthracene			0.00776	mg/Kg - dry	0.000332	08/07/2020 15:34	
8270D SIM	Fluoranthene			0.128	mg/Kg - dry	0.000630	08/07/2020 15:34	
8270D SIM	Fluorene			0.00148	mg/Kg - dry	0.000597	08/07/2020 15:34	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.0411	mg/Kg - dry	0.000410	08/07/2020 15:34	
8270D SIM	2-Methylnaphthalene			0.0460	mg/Kg - dry	0.000646	08/07/2020 15:34	
8270D SIM	Naphthalene			0.0361	mg/Kg - dry	0.000556	08/07/2020 15:34	
8270D SIM	Phenanthrene			0.0982	mg/Kg - dry	0.000779	08/07/2020 15:34	
8270D SIM	Pyrene			0.0919	mg/Kg - dry	0.000461	08/07/2020 15:34	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0304	L 92399							
SW-DRYWT	Moisture			16.1	%		08/10/2020 14:13	
TN EPH	Diesel Range Organics (C10-C28)			4.93	mg/Kg - dry	3.93	08/12/2020 12:08	
TN EPH	Oil Range Organics (>C28-C40)			7.53	mg/Kg - dry	3.93	08/12/2020 12:08	
TN EPH	TN EPH (C10-C40)			12.5	mg/Kg - dry	3.93	08/12/2020 12:08	
167SSB0404	L 92400							
6010D	Arsenic			13.4	mg/Kg - dry	1.45	08/11/2020 08:22	
6010D	Barium			149	mg/Kg - dry	0.785	08/11/2020 08:22	
6010D	Cadmium			0.481	mg/Kg - dry	0.121	08/11/2020 08:22	J
6010D	Chromium			17.6	mg/Kg - dry	1.43	08/11/2020 08:22	
6010D	Lead			48.1	mg/Kg - dry	1.09	08/11/2020 08:22	
7471A	Mercury			0.0429	mg/Kg - dry	0.00419	08/13/2020 17:31	
8270D SIM	Benzo(a)anthracene			0.00372	mg/Kg - dry	0.000532	08/07/2020 15:56	
8270D SIM	Benzo(a)pyrene			0.00308	mg/Kg - dry	0.000160	08/07/2020 15:56	
8270D SIM	Benzo(b)fluoranthene			0.00595	mg/Kg - dry	0.000166	08/07/2020 15:56	
8270D SIM	Benzo(k)fluoranthene			0.00192	mg/Kg - dry	0.000586	08/07/2020 15:56	
8270D SIM	Chrysene			0.00459	mg/Kg - dry	0.000309	08/07/2020 15:56	
8270D SIM	Fluoranthene			0.00849	mg/Kg - dry	0.000638	08/07/2020 15:56	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.00113	mg/Kg - dry	0.000415	08/07/2020 15:56	
8270D SIM	2-Methylnaphthalene			0.00103	mg/Kg - dry	0.000654	08/07/2020 15:56	B
8270D SIM	Naphthalene			0.000864	mg/Kg - dry	0.000564	08/07/2020 15:56	B
8270D SIM	Phenanthrene			0.00261	mg/Kg - dry	0.000789	08/07/2020 15:56	
8270D SIM	Pyrene			0.00646	mg/Kg - dry	0.000467	08/07/2020 15:56	
SW-DRYWT	Moisture			17.2	%		08/07/2020 13:51	
167SSB0504	L 92401							
6010D	Arsenic			7.99	mg/Kg - dry	0.299	08/08/2020 02:16	
6010D	Barium			142	mg/Kg - dry	0.162	08/08/2020 02:16	
6010D	Cadmium			0.218	mg/Kg - dry	0.0249	08/08/2020 02:16	
6010D	Chromium			13.7	mg/Kg - dry	0.294	08/08/2020 02:16	
6010D	Lead			8.98	mg/Kg - dry	0.224	08/08/2020 02:16	
7471A	Mercury			0.0253	mg/Kg - dry	0.00381	08/13/2020 17:32	
8270D SIM	2-Methylnaphthalene			0.000872	mg/Kg - dry	0.000675	08/07/2020 16:18	B
8270D SIM	Naphthalene			0.000746	mg/Kg - dry	0.000582	08/07/2020 16:18	JB
SW-DRYWT	Moisture			19.8	%		08/07/2020 13:51	
167SSB0604	L 92402							
6010D	Arsenic			10.0	mg/Kg - dry	0.292	08/08/2020 02:31	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0604	L 92402							
6010D	Barium			164	mg/Kg - dry	0.158	08/08/2020 02:31	
6010D	Cadmium			0.455	mg/Kg - dry	0.0243	08/08/2020 02:31	
6010D	Chromium			13.4	mg/Kg - dry	0.287	08/08/2020 02:31	
6010D	Lead			164	mg/Kg - dry	0.218	08/08/2020 02:31	
7471A	Mercury			0.0276	mg/Kg - dry	0.00364	08/13/2020 14:27	
8270D SIM	Acenaphthylene			0.0137	mg/Kg - dry	0.00232	08/07/2020 16:39	
8270D SIM	Anthracene			0.00560	mg/Kg - dry	0.00259	08/07/2020 16:39	
8270D SIM	Benzo(a)anthracene			0.273	mg/Kg - dry	0.00269	08/07/2020 16:39	
8270D SIM	Benzo(a)pyrene			0.251	mg/Kg - dry	0.000809	08/07/2020 16:39	
8270D SIM	Benzo(b)fluoranthene			0.283	mg/Kg - dry	0.000839	08/07/2020 16:39	
8270D SIM	Benzo(g,h,i)perylene			0.167	mg/Kg - dry	0.00141	08/07/2020 16:39	
8270D SIM	Benzo(k)fluoranthene			0.141	mg/Kg - dry	0.00296	08/07/2020 16:39	
8270D SIM	Chrysene			0.243	mg/Kg - dry	0.00156	08/07/2020 16:39	
8270D SIM	Dibenz(a,h)anthracene			0.0466	mg/Kg - dry	0.00170	08/07/2020 16:39	
8270D SIM	Fluoranthene			0.260	mg/Kg - dry	0.00322	08/07/2020 16:39	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.197	mg/Kg - dry	0.00209	08/07/2020 16:39	
8270D SIM	2-Methylnaphthalene			0.0173	mg/Kg - dry	0.00330	08/07/2020 16:39	
8270D SIM	Naphthalene			0.0137	mg/Kg - dry	0.00285	08/07/2020 16:39	
8270D SIM	Phenanthrene			0.0342	mg/Kg - dry	0.00398	08/07/2020 16:39	
8270D SIM	Pyrene			0.232	mg/Kg - dry	0.00236	08/07/2020 16:39	
SW-DRYWT	Moisture			17.8	%		08/07/2020 13:51	
TN EPH	Diesel Range Organics (C10-C28)			22.3	mg/Kg - dry	4.01	08/12/2020 13:05	
TN EPH	Oil Range Organics (>C28-C40)			30.5	mg/Kg - dry	4.01	08/12/2020 13:05	
TN EPH	TN EPH (C10-C40)			52.8	mg/Kg - dry	4.01	08/12/2020 13:05	
167SSB0704	L 92403							
6010D	Arsenic			8.78	mg/Kg - dry	0.301	08/08/2020 02:37	
6010D	Barium			67.7	mg/Kg - dry	0.163	08/08/2020 02:37	
6010D	Cadmium			0.264	mg/Kg - dry	0.0250	08/08/2020 02:37	
6010D	Chromium			12.1	mg/Kg - dry	0.295	08/08/2020 02:37	
6010D	Lead			47.0	mg/Kg - dry	0.225	08/08/2020 02:37	
7471A	Mercury			0.110	mg/Kg - dry	0.00436	08/13/2020 14:28	
8260B	n-Butylbenzene			1.93	mg/Kg - dry	0.008	08/10/2020 18:00	
8260B	sec-Butyl benzene			0.859	mg/Kg - dry	0.009	08/10/2020 18:00	
8260B	Ethylbenzene			38.5	mg/Kg - dry	0.061	08/11/2020 18:41	
8260B	Isopropylbenzene			2.98	mg/Kg - dry	0.005	08/10/2020 18:00	E
8260B	m,p-Xylene			247	mg/Kg - dry	0.745	08/12/2020 14:38	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0704	L 92403							
8260B	Naphthalene			1.29	mg/Kg - dry	0.042	08/10/2020 18:00	
8260B	n-Propylbenzene			9.41	mg/Kg - dry	0.006	08/10/2020 18:00	E
8260B	Toluene			0.670	mg/Kg - dry	0.021	08/10/2020 18:00	
8260B	1,2,4-Trimethylbenzene			273	mg/Kg - dry	0.496	08/12/2020 14:38	
8260B	1,3,5-Trimethylbenzene			10.3	mg/Kg - dry	0.008	08/10/2020 18:00	E
8260B	Xylene (Total)			247	mg/Kg - dry	0.002	08/10/2020 18:00	
8270D SIM	Acenaphthene			0.174	mg/Kg - dry	0.00152	08/07/2020 17:01	
8270D SIM	Acenaphthylene			0.0708	mg/Kg - dry	0.00134	08/07/2020 17:01	
8270D SIM	Anthracene			0.0333	mg/Kg - dry	0.00149	08/07/2020 17:01	
8270D SIM	Benzo(a)anthracene			0.0282	mg/Kg - dry	0.00155	08/07/2020 17:01	
8270D SIM	Benzo(a)pyrene			0.00932	mg/Kg - dry	0.000467	08/07/2020 17:01	
8270D SIM	Benzo(b)fluoranthene			0.0142	mg/Kg - dry	0.000484	08/07/2020 17:01	
8270D SIM	Benzo(g,h,i)perylene			0.0153	mg/Kg - dry	0.000812	08/07/2020 17:01	
8270D SIM	Benzo(k)fluoranthene			0.00340	mg/Kg - dry	0.00170	08/07/2020 17:01	
8270D SIM	Chrysene			0.0258	mg/Kg - dry	0.000899	08/07/2020 17:01	
8270D SIM	Fluoranthene			0.0549	mg/Kg - dry	0.00185	08/07/2020 17:01	
8270D SIM	Fluorene			0.242	mg/Kg - dry	0.00175	08/07/2020 17:01	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.00536	mg/Kg - dry	0.00121	08/07/2020 17:01	
8270D SIM	2-Methylnaphthalene			25.2	mg/Kg - dry	0.0381	08/11/2020 15:33	
8270D SIM	Naphthalene			29.1	mg/Kg - dry	0.0328	08/11/2020 15:33	
8270D SIM	Phenanthrene			0.328	mg/Kg - dry	0.00229	08/07/2020 17:01	
8270D SIM	Pyrene			0.106	mg/Kg - dry	0.00137	08/07/2020 17:01	
SW-DRYWT	Moisture			20.2	%		08/07/2020 13:51	
TN EPH	Diesel Range Organics (C10-C28)			3610	mg/Kg - dry	414	08/12/2020 15:18	
TN EPH	TN EPH (C10-C40)			3610	mg/Kg - dry	41.4	08/12/2020 14:59	
167SSB0804	L 92404							
6010D	Arsenic			0.933	mg/Kg - dry	0.270	08/08/2020 02:42	
6010D	Barium			16.5	mg/Kg - dry	0.146	08/08/2020 02:42	
6010D	Cadmium			0.0330	mg/Kg - dry	0.0224	08/08/2020 02:42	J
6010D	Chromium			3.50	mg/Kg - dry	0.265	08/08/2020 02:42	
6010D	Lead			3.94	mg/Kg - dry	0.202	08/08/2020 02:42	
7471A	Mercury			0.00980	mg/Kg - dry	0.00359	08/13/2020 14:29	J
8270D SIM	Acenaphthene			0.00102	mg/Kg - dry	0.000484	08/07/2020 17:22	
8270D SIM	Anthracene			0.00551	mg/Kg - dry	0.000479	08/07/2020 17:22	
8270D SIM	Benzo(a)anthracene			0.0413	mg/Kg - dry	0.000496	08/07/2020 17:22	
8270D SIM	Benzo(a)pyrene			0.0371	mg/Kg - dry	0.000149	08/07/2020 17:22	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-218-0165

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0804	L 92404							
8270D SIM	Benzo(b)fluoranthene			0.0516	mg/Kg - dry	0.000155	08/07/2020 17:22	
8270D SIM	Benzo(g,h,i)perylene			0.0236	mg/Kg - dry	0.000259	08/07/2020 17:22	
8270D SIM	Benzo(k)fluoranthene			0.0232	mg/Kg - dry	0.000546	08/07/2020 17:22	
8270D SIM	Chrysene			0.0350	mg/Kg - dry	0.000287	08/07/2020 17:22	
8270D SIM	Dibenz(a,h)anthracene			0.00625	mg/Kg - dry	0.000313	08/07/2020 17:22	
8270D SIM	Fluoranthene			0.0668	mg/Kg - dry	0.000595	08/07/2020 17:22	
8270D SIM	Fluorene			0.00129	mg/Kg - dry	0.000563	08/07/2020 17:22	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.0310	mg/Kg - dry	0.000386	08/07/2020 17:22	
8270D SIM	2-Methylnaphthalene			0.00397	mg/Kg - dry	0.000609	08/07/2020 17:22	B
8270D SIM	Naphthalene			0.00325	mg/Kg - dry	0.000525	08/07/2020 17:22	B
8270D SIM	Phenanthrene			0.0201	mg/Kg - dry	0.000735	08/07/2020 17:22	
8270D SIM	Pyrene			0.0537	mg/Kg - dry	0.000435	08/07/2020 17:22	
SW-DRYWT	Moisture			11.1	%		08/07/2020 13:51	
TN EPH	Diesel Range Organics (C10-C28)			4.71	mg/Kg - dry	3.71	08/12/2020 13:24	
TN EPH	Oil Range Organics (>C28-C40)			10.1	mg/Kg - dry	3.71	08/12/2020 13:24	
TN EPH	TN EPH (C10-C40)			14.8	mg/Kg - dry	3.71	08/12/2020 13:24	



Client: Ensafe
Project: Former Wayne's Pinball Palace
Lab Report Number: 20-218-0165
Date: 8/13/2020

CASE NARRATIVE

Ultrasonic Extraction for 8270 Method 3550B

Sample 92397 (167SSB0208)

QC Batch No: L505071/L505071

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

Sample 92398 (167SSB0212)

QC Batch No: L505071/L505071

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

Sample 92403 (167SSB0704)

QC Batch No: L505071/L505071

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

Metals Analysis Method 6010D

Analyte: Silver

QC Batch No: L505494

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Analyte: Arsenic

QC Batch No: L505494

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Analyte: Barium

QC Batch No: L505494

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Cadmium

QC Batch No: L505494

The matrix spike, matrix spike duplicate and the post digestion spike were all outside of the quality control acceptance ranges. Matrix interference is suspected

Analyte: Chromium

QC Batch No: L505494

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Lead

QC Batch No: L505494

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Selenium

QC Batch No: L505748

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 92399 (167SSB0304)

QC Batch No: L505494/L505057

One or more Internal Standards are outside method acceptance criteria. Re-analysis and/or sample dilutions are required.

Sample 92400 (167SSB0404)

QC Batch No: L505494/L505057

One or more Internal Standards are outside method acceptance criteria. Re-analysis and/or sample dilutions are required.

Volatile Organic Compounds - GC/MS Method 8260B

Sample 92398 (167SSB0212)

QC Batch No: L505699/L505698

Data is reported with the qualifier E, to indicate concentrations above the calibration range. Results for this analyte should be considered estimated concentration. The analysis of this sample by medium level technique, resulted in an estimated concentration (J value). The concentration of this analyte in the sample was not sufficiently high enough to produce a result by medium level methodology.

QC Batch No: L505699/L505698

Surrogate recovery(s) was flagged as outside QC limits due to high levels of target and/or non-target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 92403 (167SSB0704)

QC Batch No: L505699/L505698

Data is reported with the qualifier E, to indicate concentrations above the calibration range for three compounds. Results for these analytes should be considered estimated concentrations. The analysis of this sample by medium level technique, resulted in an estimated concentration (J value). The concentration of these analytes in the sample was not sufficiently high enough to produce a result by medium level methodology.

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

Sample 92398 (167SSB0212)

QC Batch No: L505238/L505071

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 92403 (167SSB0704)

QC Batch No: L505238/L505071

Surrogate(s) flagged for recovery outside QC limits in this project sample due to a required dilution. The dilution factor resulted in surrogate concentration(s) below the minimum detectable level. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.



Analyte: 2-Methylnaphthalene

QC Batch No: L505238/L505071

Target analyte(s) was identified in the method blank associated with this project, below the Method Quantitation Limit. The result for the method blank and sample are flagged with the data qualifier J, Estimated Concentration. Per laboratory protocol any associated affected sample result is flagged "B" to indicate that it was detected in the method blank.

Analyte: Naphthalene

QC Batch No: L505238/L505071

Target analyte(s) was identified in the method blank associated with this project, below the Method Quantitation Limit. The result for the method blank and sample are flagged with the data qualifier J, Estimated Concentration. Per laboratory protocol any associated affected sample result is flagged "B" to indicate that it was detected in the method blank.

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92395**

Matrix: **Solids**

Sample ID : **167SSB0116**

Sampled: **8/4/2020 10:05**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	22.0	%			1	08/10/20 14:13	FMM	SW-DRYWT
Arsenic	2.71	mg/Kg - dry	0.308	0.641	1	08/08/20 01:45	TJS	6010D
Barium	73.2	mg/Kg - dry	0.167	0.641	1	08/08/20 01:45	TJS	6010D
Cadmium	0.279	mg/Kg - dry	0.0256	0.128	1	08/08/20 01:45	TJS	6010D
Chromium	16.4	mg/Kg - dry	0.302	0.320	1	08/08/20 01:45	TJS	6010D
Lead	6.55	mg/Kg - dry	0.230	0.384	1	08/08/20 01:45	TJS	6010D
Mercury	0.0171 J	mg/Kg - dry	0.00383	0.0174	1	08/13/20 17:23	DDB	7471A
Selenium	<0.410	mg/Kg - dry	0.410	0.641	1	08/11/20 07:46	TJS	6010D
Silver	<0.205	mg/Kg - dry	0.205	0.321	1	08/08/20 01:45	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92395**

Matrix: **Solids**

Sample ID : **167SSB0116**

Sampled: **8/4/2020 10:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.029	mg/Kg - dry	0.029	0.256	1	08/06/20 17:12	RED	L505241
Acetonitrile	<0.291	mg/Kg - dry	0.291	0.641	1	08/06/20 17:12	RED	L505241
Acrolein	<0.040	mg/Kg - dry	0.040	0.256	1	08/06/20 17:12	RED	L505241
Acrylonitrile	<0.016	mg/Kg - dry	0.016	0.256	1	08/06/20 17:12	RED	L505241
Benzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Bromobenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
Bromochloromethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
Bromodichloromethane	<0.012	mg/Kg - dry	0.012	0.012	1	08/06/20 17:12	RED	L505241
Bromoform	<0.011	mg/Kg - dry	0.011	0.012	1	08/06/20 17:12	RED	L505241
Bromomethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
Methyl Ethyl Ketone (MEK)	<0.049	mg/Kg - dry	0.049	0.256	1	08/06/20 17:12	RED	L505241
n-Butylbenzene	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
sec-Butyl benzene	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 17:12	RED	L505241
tert-Butyl benzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
Carbon Disulfide	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 17:12	RED	L505241
Chlorobenzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Chlorodibromomethane	<0.012	mg/Kg - dry	0.012	0.012	1	08/06/20 17:12	RED	L505241
Chloroethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 17:12	RED	L505241
2-Chloroethylvinyl Ether	<0.035	mg/Kg - dry	0.035	0.064	1	08/06/20 17:12	RED	L505241
Chloroform	<0.012	mg/Kg - dry	0.012	0.012	1	08/06/20 17:12	RED	L505241
Chloromethane	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92395**

Matrix: **Solids**

Sample ID : **167SSB0116**

Sampled: **8/4/2020 10:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 17:12	RED	L505241
4-Chlorotoluene	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
1,2-Dibromo-3-Chloropropane	<0.027	mg/Kg - dry	0.027	0.064	1	08/06/20 17:12	RED	L505241
1,2-Dibromoethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Dibromomethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
1,2-Dichlorobenzene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 17:12	RED	L505241
1,3-Dichlorobenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
1,4-Dichlorobenzene	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
Dichlorodifluoromethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 17:12	RED	L505241
1,1-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
1,2-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
1,1-Dichloroethene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
cis-1,2-Dichloroethene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12	RED	L505241
trans-1,2-Dichloroethene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 17:12	RED	L505241
1,2-Dichloroethene (Total)	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12		L505241
1,2-Dichloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
1,3-Dichloropropane	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
2,2-Dichloropropane	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12	RED	L505241
1,1-Dichloropropene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12	RED	L505241
cis-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
trans-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Ethyl Acetate	<0.048	mg/Kg - dry	0.048	0.256	1	08/06/20 17:12	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92395**

Matrix: **Solids**

Sample ID : **167SSB0116**

Sampled: **8/4/2020 10:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12	RED	L505241
Hexachlorobutadiene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
2-Hexanone	<0.032	mg/Kg - dry	0.032	0.064	1	08/06/20 17:12	RED	L505241
Iodomethane	<0.005	mg/Kg - dry	0.005	0.064	1	08/06/20 17:12	RED	L505241
Isopropylbenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
4-Isopropyl toluene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
4-Methyl-2-Pentanone	<0.033	mg/Kg - dry	0.033	0.064	1	08/06/20 17:12	RED	L505241
Methylene Chloride	<0.037	mg/Kg - dry	0.037	0.256	1	08/06/20 17:12	RED	L505241
Methyl tert-butyl ether (MTBE)	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 17:12	RED	L505241
m,p-Xylene	<0.007	mg/Kg - dry	0.007	0.025	1	08/06/20 17:12	RED	L505241
Naphthalene	<0.043	mg/Kg - dry	0.043	0.064	1	08/06/20 17:12	RED	L505241
o-Xylene	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 17:12	RED	L505241
n-Propylbenzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
Styrene	<0.010	mg/Kg - dry	0.010	0.012	1	08/06/20 17:12	RED	L505241
1,1,1,2-Tetrachloroethane	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
1,1,2,2-Tetrachloroethane	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 17:12	RED	L505241
Tetrachloroethene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
Toluene	<0.022	mg/Kg - dry	0.022	0.064	1	08/06/20 17:12	RED	L505241
1,2,3-Trichlorobenzene	<0.010	mg/Kg - dry	0.010	0.012	1	08/06/20 17:12	RED	L505241
1,2,4-Trichlorobenzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 17:12	RED	L505241
1,1,1-Trichloroethane	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 17:12	RED	L505241
1,1,2-Trichloroethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92395**

Matrix: **Solids**

Sample ID : **167SSB0116**

Sampled: **8/4/2020 10:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Trichlorofluoromethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 17:12	RED	L505241
1,2,3-Trichloropropane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
1,2,4-Trimethylbenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 17:12	RED	L505241
1,3,5-Trimethylbenzene	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 17:12	RED	L505241
Vinyl Acetate	<0.023	mg/Kg - dry	0.023	0.256	1	08/06/20 17:12	RED	L505241
Vinyl Chloride	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 17:12	RED	L505241
Xylene (Total)	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 17:12		L505241
Surrogate: 4-Bromofluorobenzene	108		Limits: 60-130%		1	08/06/20 17:12	RED	L505241
Surrogate: 1,2-Dichloroethane - d4	109		Limits: 60-132%		1	08/06/20 17:12	RED	L505241
Surrogate: Toluene-d8	115		Limits: 70-130%		1	08/06/20 17:12	RED	L505241

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.000801 J	mg/Kg - dry	0.000552	0.000858	1	08/07/20 14:09	MLR	L505238
Acenaphthylene	<0.000489	mg/Kg - dry	0.000489	0.000858	1	08/07/20 14:09	MLR	L505238
Anthracene	<0.000546	mg/Kg - dry	0.000546	0.000858	1	08/07/20 14:09	MLR	L505238
Benzo(a)anthracene	<0.000565	mg/Kg - dry	0.000565	0.000858	1	08/07/20 14:09	MLR	L505238
Benzo(a)pyrene	<0.000170	mg/Kg - dry	0.000170	0.000858	1	08/07/20 14:09	MLR	L505238
Benzo(b)fluoranthene	<0.000176	mg/Kg - dry	0.000176	0.000858	1	08/07/20 14:09	MLR	L505238
Benzo(g,h,i)perylene	<0.000296	mg/Kg - dry	0.000296	0.000858	1	08/07/20 14:09	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92395**
 Sample ID : **167SSB0116**

Matrix: **Solids**
 Sampled: **8/4/2020 10:05**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000623	mg/Kg - dry	0.000623	0.000858	1	08/07/20 14:09	MLR	L505238
Chrysene	<0.000328	mg/Kg - dry	0.000328	0.000858	1	08/07/20 14:09	MLR	L505238
Dibenz(a,h)anthracene	<0.000357	mg/Kg - dry	0.000357	0.000858	1	08/07/20 14:09	MLR	L505238
Fluoranthene	<0.000678	mg/Kg - dry	0.000678	0.000858	1	08/07/20 14:09	MLR	L505238
Fluorene	<0.000642	mg/Kg - dry	0.000642	0.000858	1	08/07/20 14:09	MLR	L505238
Indeno(1,2,3-cd)pyrene	<0.000441	mg/Kg - dry	0.000441	0.000858	1	08/07/20 14:09	MLR	L505238
2-Methylnaphthalene	0.000941 B	mg/Kg - dry	0.000694	0.000858	1	08/07/20 14:09	MLR	L505238
Naphthalene	0.00496 B	mg/Kg - dry	0.000598	0.000858	1	08/07/20 14:09	MLR	L505238
Phenanthrene	<0.000838	mg/Kg - dry	0.000838	0.000858	1	08/07/20 14:09	MLR	L505238
Pyrene	<0.000496	mg/Kg - dry	0.000496	0.000858	1	08/07/20 14:09	MLR	L505238
Surrogate: 2-Fluorobiphenyl	34.8			Limits: 33-115%	1	08/07/20 14:09	MLR	L505238
Surrogate: Nitrobenzene-d5	33.0			Limits: 29-110%	1	08/07/20 14:09	MLR	L505238
Surrogate: 4-Terphenyl-d14	46.5			Limits: 33-122%	1	08/07/20 14:09	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<4.23	mg/Kg - dry	4.23	4.23	1	08/12/20 10:51	MMK	L505941
Oil Range Organics (>C28-C40)	<4.23	mg/Kg - dry	4.23	4.23	1	08/12/20 10:51	MMK	L505941
TN EPH (C10-C40)	<4.23	mg/Kg - dry	4.23	4.23	1	08/12/20 10:51		L505941
Surrogate: OTP Surrogate	69.7			Limits: 50-150%	1	08/12/20 10:51	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Ensafe

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5724 Summer Tree Drive

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Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92396**

Matrix: **Solids**

Sample ID : **167SSB0112**

Sampled: **8/4/2020 10:10**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	20.6	%			1	08/10/20 14:13	FMM	SW-DRYWT
Arsenic	3.73	mg/Kg - dry	0.302	0.630	1	08/08/20 01:50	TJS	6010D
Barium	36.1	mg/Kg - dry	0.164	0.630	1	08/08/20 01:50	TJS	6010D
Cadmium	0.0661 J	mg/Kg - dry	0.0251	0.126	1	08/08/20 01:50	TJS	6010D
Chromium	11.0	mg/Kg - dry	0.297	0.314	1	08/08/20 01:50	TJS	6010D
Lead	4.99	mg/Kg - dry	0.226	0.377	1	08/08/20 01:50	TJS	6010D
Mercury	0.0113 J	mg/Kg - dry	0.00413	0.0188	1	08/13/20 17:24	DDB	7471A
Selenium	<0.403	mg/Kg - dry	0.403	0.629	1	08/11/20 07:51	TJS	6010D
Silver	0.602	mg/Kg - dry	0.202	0.315	1	08/08/20 01:50	TJS	6010D

**Qualifiers/
Definitions**

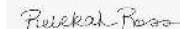
*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

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Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92396**

Matrix: **Solids**

Sample ID : **167SSB0112**

Sampled: **8/4/2020 10:10**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.025	mg/Kg - dry	0.025	0.220	1	08/06/20 17:52	RED	L505241
Acetonitrile	<0.250	mg/Kg - dry	0.250	0.552	1	08/06/20 17:52	RED	L505241
Acrolein	<0.035	mg/Kg - dry	0.035	0.220	1	08/06/20 17:52	RED	L505241
Acrylonitrile	<0.013	mg/Kg - dry	0.013	0.220	1	08/06/20 17:52	RED	L505241
Benzene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
Bromobenzene	<0.004	mg/Kg - dry	0.004	0.011	1	08/06/20 17:52	RED	L505241
Bromochloromethane	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
Bromodichloromethane	<0.010	mg/Kg - dry	0.010	0.011	1	08/06/20 17:52	RED	L505241
Bromoform	<0.010	mg/Kg - dry	0.010	0.011	1	08/06/20 17:52	RED	L505241
Bromomethane	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
Methyl Ethyl Ketone (MEK)	<0.042	mg/Kg - dry	0.042	0.220	1	08/06/20 17:52	RED	L505241
n-Butylbenzene	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
sec-Butyl benzene	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
tert-Butyl benzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
Carbon Disulfide	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
Chlorobenzene	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
Chlorodibromomethane	<0.010	mg/Kg - dry	0.010	0.011	1	08/06/20 17:52	RED	L505241
Chloroethane	<0.006	mg/Kg - dry	0.006	0.011	1	08/06/20 17:52	RED	L505241
2-Chloroethylvinyl Ether	<0.030	mg/Kg - dry	0.030	0.055	1	08/06/20 17:52	RED	L505241
Chloroform	<0.010	mg/Kg - dry	0.010	0.011	1	08/06/20 17:52	RED	L505241
Chloromethane	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis, TN 38134

Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92396**

Sample ID : **167SSB0112**

Matrix: **Solids**

Sampled: **8/4/2020 10:10**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.006	mg/Kg - dry	0.006	0.011	1	08/06/20 17:52	RED	L505241
4-Chlorotoluene	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
1,2-Dibromo-3-Chloropropane	<0.023	mg/Kg - dry	0.023	0.055	1	08/06/20 17:52	RED	L505241
1,2-Dibromoethane	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
Dibromomethane	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
1,2-Dichlorobenzene	<0.006	mg/Kg - dry	0.006	0.011	1	08/06/20 17:52	RED	L505241
1,3-Dichlorobenzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,4-Dichlorobenzene	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
Dichlorodifluoromethane	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
1,1-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,2-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,1-Dichloroethene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
cis-1,2-Dichloroethene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
trans-1,2-Dichloroethene	<0.006	mg/Kg - dry	0.006	0.011	1	08/06/20 17:52	RED	L505241
1,2-Dichloroethene (Total)	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52		L505241
1,2-Dichloropropane	<0.004	mg/Kg - dry	0.004	0.011	1	08/06/20 17:52	RED	L505241
1,3-Dichloropropane	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
2,2-Dichloropropane	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
1,1-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
cis-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
trans-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
Ethyl Acetate	<0.041	mg/Kg - dry	0.041	0.220	1	08/06/20 17:52	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

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Ms. Chelsey Kipper
5724 Summer Tree Drive
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Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92396**

Matrix: **Solids**

Sample ID : **167SSB0112**

Sampled: **8/4/2020 10:10**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
Hexachlorobutadiene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
2-Hexanone	<0.027	mg/Kg - dry	0.027	0.055	1	08/06/20 17:52	RED	L505241
Iodomethane	<0.004	mg/Kg - dry	0.004	0.055	1	08/06/20 17:52	RED	L505241
Isopropylbenzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
4-Isopropyl toluene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
4-Methyl-2-Pentanone	<0.029	mg/Kg - dry	0.029	0.055	1	08/06/20 17:52	RED	L505241
Methylene Chloride	<0.031	mg/Kg - dry	0.031	0.220	1	08/06/20 17:52	RED	L505241
Methyl tert-butyl ether (MTBE)	<0.008	mg/Kg - dry	0.008	0.011	1	08/06/20 17:52	RED	L505241
m,p-Xylene	<0.006	mg/Kg - dry	0.006	0.022	1	08/06/20 17:52	RED	L505241
Naphthalene	<0.037	mg/Kg - dry	0.037	0.055	1	08/06/20 17:52	RED	L505241
o-Xylene	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
n-Propylbenzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
Styrene	<0.008	mg/Kg - dry	0.008	0.011	1	08/06/20 17:52	RED	L505241
1,1,1,2-Tetrachloroethane	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,1,2,2-Tetrachloroethane	<0.008	mg/Kg - dry	0.008	0.011	1	08/06/20 17:52	RED	L505241
Tetrachloroethene	<0.004	mg/Kg - dry	0.004	0.011	1	08/06/20 17:52	RED	L505241
Toluene	<0.019	mg/Kg - dry	0.019	0.055	1	08/06/20 17:52	RED	L505241
1,2,3-Trichlorobenzene	<0.009	mg/Kg - dry	0.009	0.011	1	08/06/20 17:52	RED	L505241
1,2,4-Trichlorobenzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,1,1-Trichloroethane	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
1,1,2-Trichloroethane	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Project Former Wayne's Pinball Palace
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 Project No. 0888826703

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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92396**
 Sample ID : **167SSB0112**

Matrix: **Solids**
 Sampled: **8/4/2020 10:10**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
Trichlorofluoromethane	<0.006	mg/Kg - dry	0.006	0.011	1	08/06/20 17:52	RED	L505241
1,2,3-Trichloropropane	<0.003	mg/Kg - dry	0.003	0.011	1	08/06/20 17:52	RED	L505241
1,2,4-Trimethylbenzene	<0.005	mg/Kg - dry	0.005	0.011	1	08/06/20 17:52	RED	L505241
1,3,5-Trimethylbenzene	<0.007	mg/Kg - dry	0.007	0.011	1	08/06/20 17:52	RED	L505241
Vinyl Acetate	<0.020	mg/Kg - dry	0.020	0.220	1	08/06/20 17:52	RED	L505241
Vinyl Chloride	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52	RED	L505241
Xylene (Total)	<0.002	mg/Kg - dry	0.002	0.011	1	08/06/20 17:52		L505241
Surrogate: 4-Bromofluorobenzene	99.3		Limits: 60-130%		1	08/06/20 17:52	RED	L505241
Surrogate: 1,2-Dichloroethane - d4	106		Limits: 60-132%		1	08/06/20 17:52	RED	L505241
Surrogate: Toluene-d8	112		Limits: 70-130%		1	08/06/20 17:52	RED	L505241

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000542	mg/Kg - dry	0.000542	0.000843	1	08/07/20 14:30	MLR	L505238
Acenaphthylene	<0.000481	mg/Kg - dry	0.000481	0.000843	1	08/07/20 14:30	MLR	L505238
Anthracene	<0.000536	mg/Kg - dry	0.000536	0.000843	1	08/07/20 14:30	MLR	L505238
Benzo(a)anthracene	0.000965	mg/Kg - dry	0.000555	0.000843	1	08/07/20 14:30	MLR	L505238
Benzo(a)pyrene	<0.000167	mg/Kg - dry	0.000167	0.000843	1	08/07/20 14:30	MLR	L505238
Benzo(b)fluoranthene	<0.000173	mg/Kg - dry	0.000173	0.000843	1	08/07/20 14:30	MLR	L505238
Benzo(g,h,i)perylene	<0.000290	mg/Kg - dry	0.000290	0.000843	1	08/07/20 14:30	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MLQ	Method Quantitation Limit			

03180
 Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92396**
 Sample ID : **167SSB0112**

Matrix: **Solids**
 Sampled: **8/4/2020 10:10**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000612	mg/Kg - dry	0.000612	0.000843	1	08/07/20 14:30	MLR	L505238
Chrysene	0.00116	mg/Kg - dry	0.000322	0.000843	1	08/07/20 14:30	MLR	L505238
Dibenz(a,h)anthracene	<0.000351	mg/Kg - dry	0.000351	0.000843	1	08/07/20 14:30	MLR	L505238
Fluoranthene	0.00300	mg/Kg - dry	0.000666	0.000843	1	08/07/20 14:30	MLR	L505238
Fluorene	<0.000630	mg/Kg - dry	0.000630	0.000843	1	08/07/20 14:30	MLR	L505238
Indeno(1,2,3-cd)pyrene	<0.000433	mg/Kg - dry	0.000433	0.000843	1	08/07/20 14:30	MLR	L505238
2-Methylnaphthalene	0.00161 B	mg/Kg - dry	0.000682	0.000843	1	08/07/20 14:30	MLR	L505238
Naphthalene	0.00200 B	mg/Kg - dry	0.000588	0.000843	1	08/07/20 14:30	MLR	L505238
Phenanthrene	<0.000823	mg/Kg - dry	0.000823	0.000843	1	08/07/20 14:30	MLR	L505238
Pyrene	0.00340	mg/Kg - dry	0.000487	0.000843	1	08/07/20 14:30	MLR	L505238
Surrogate: 2-Fluorobiphenyl	71.7			Limits: 33-115%	1	08/07/20 14:30	MLR	L505238
Surrogate: Nitrobenzene-d5	66.0			Limits: 29-110%	1	08/07/20 14:30	MLR	L505238
Surrogate: 4-Terphenyl-d14	98.8			Limits: 33-122%	1	08/07/20 14:30	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<4.16	mg/Kg - dry	4.16	4.16	1	08/12/20 11:10	MMK	L505941
Oil Range Organics (>C28-C40)	<4.16	mg/Kg - dry	4.16	4.16	1	08/12/20 11:10	MMK	L505941
TN EPH (C10-C40)	<4.16	mg/Kg - dry	4.16	4.16	1	08/12/20 11:10		L505941
Surrogate: OTP Surrogate	63.3			Limits: 50-150%	1	08/12/20 11:10	MMK	L505941

Qualifiers/	*	Outside QC Limit	B	Analyte detected in blank
Definitions	DF	Dilution Factor	E	Result above cal range
	I	Recovery out of range	J	Estimated value
	MQL	Method Quantitation Limit		

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Memphis , TN 38134

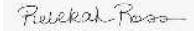
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92397**

Sample ID : **167SSB0208**

Matrix: **Solids**

Sampled: **8/4/2020 11:05**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	20.3	%			1	08/10/20 14:13	FMM	SW-DRYWT
Arsenic	6.55	mg/Kg - dry	0.301	0.627	1	08/08/20 01:55	TJS	6010D
Barium	48.9	mg/Kg - dry	0.163	0.627	1	08/08/20 01:55	TJS	6010D
Cadmium	0.147	mg/Kg - dry	0.0250	0.125	1	08/08/20 01:55	TJS	6010D
Chromium	12.8	mg/Kg - dry	0.296	0.313	1	08/08/20 01:55	TJS	6010D
Lead	6.14	mg/Kg - dry	0.225	0.376	1	08/08/20 01:55	TJS	6010D
Mercury	0.00587 J	mg/Kg - dry	0.00424	0.0192	1	08/13/20 17:25	DDB	7471A
Selenium	<0.401	mg/Kg - dry	0.401	0.627	1	08/11/20 07:57	TJS	6010D
Silver	0.269 J	mg/Kg - dry	0.201	0.314	1	08/08/20 01:55	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92397**

Matrix: **Solids**

Sample ID : **167SSB0208**

Sampled: **8/4/2020 11:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.027	mg/Kg - dry	0.027	0.243	1	08/06/20 18:33	RED	L505241
Acetonitrile	<0.276	mg/Kg - dry	0.276	0.608	1	08/06/20 18:33	RED	L505241
Acrolein	<0.038	mg/Kg - dry	0.038	0.243	1	08/06/20 18:33	RED	L505241
Acrylonitrile	<0.015	mg/Kg - dry	0.015	0.243	1	08/06/20 18:33	RED	L505241
Benzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
Bromobenzene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
Bromochloromethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
Bromodichloromethane	<0.011	mg/Kg - dry	0.011	0.012	1	08/06/20 18:33	RED	L505241
Bromoform	<0.011	mg/Kg - dry	0.011	0.012	1	08/06/20 18:33	RED	L505241
Bromomethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
Methyl Ethyl Ketone (MEK)	<0.046	mg/Kg - dry	0.046	0.243	1	08/06/20 18:33	RED	L505241
n-Butylbenzene	0.398	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
sec-Butyl benzene	0.113	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
tert-Butyl benzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
Carbon Disulfide	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 18:33	RED	L505241
Chlorobenzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
Chlorodibromomethane	<0.011	mg/Kg - dry	0.011	0.012	1	08/06/20 18:33	RED	L505241
Chloroethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
2-Chloroethylvinyl Ether	<0.034	mg/Kg - dry	0.034	0.060	1	08/06/20 18:33	RED	L505241
Chloroform	<0.011	mg/Kg - dry	0.011	0.012	1	08/06/20 18:33	RED	L505241
Chloromethane	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Ms. Chelsey Kipper

5724 Summer Tree Drive

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Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92397**

Sample ID : **167SSB0208**

Matrix: **Solids**

Sampled: **8/4/2020 11:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
4-Chlorotoluene	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
1,2-Dibromo-3-Chloropropane	<0.026	mg/Kg - dry	0.026	0.060	1	08/06/20 18:33	RED	L505241
1,2-Dibromoethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
Dibromomethane	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 18:33	RED	L505241
1,2-Dichlorobenzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
1,3-Dichlorobenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
1,4-Dichlorobenzene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
Dichlorodifluoromethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
1,1-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
1,2-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
1,1-Dichloroethene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
cis-1,2-Dichloroethene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
trans-1,2-Dichloroethene	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
1,2-Dichloroethene (Total)	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33		L505241
1,2-Dichloropropane	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
1,3-Dichloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
2,2-Dichloropropane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
1,1-Dichloropropene	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
cis-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
trans-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
Ethyl Acetate	<0.045	mg/Kg - dry	0.045	0.243	1	08/06/20 18:33	RED	L505241

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	E	Result above cal range
	I	Recovery out of range	J	Estimated value
	MQL	Method Quantitation Limit		

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Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92397**

Matrix: **Solids**

Sample ID : **167SSB0208**

Sampled: **8/4/2020 11:05**

Analytical Method: 8260B **Prep Batch(es):** L505228 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	0.510	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
Hexachlorobutadiene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
2-Hexanone	<0.030	mg/Kg - dry	0.030	0.060	1	08/06/20 18:33	RED	L505241
Iodomethane	<0.005	mg/Kg - dry	0.005	0.060	1	08/06/20 18:33	RED	L505241
Isopropylbenzene	0.468	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
4-Isopropyl toluene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
4-Methyl-2-Pentanone	<0.032	mg/Kg - dry	0.032	0.060	1	08/06/20 18:33	RED	L505241
Methylene Chloride	<0.035	mg/Kg - dry	0.035	0.243	1	08/06/20 18:33	RED	L505241
Methyl tert-butyl ether (MTBE)	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
m,p-Xylene	0.388	mg/Kg - dry	0.007	0.024	1	08/06/20 18:33	RED	L505241
Naphthalene	2.18	mg/Kg - dry	0.041	0.060	1	08/06/20 18:33	RED	L505241
o-Xylene	0.009 J	mg/Kg - dry	0.002	0.012	1	08/06/20 18:33	RED	L505241
n-Propylbenzene	1.43	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
Styrene	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 18:33	RED	L505241
1,1,1,2-Tetrachloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
1,1,2,2-Tetrachloroethane	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 18:33	RED	L505241
Tetrachloroethene	<0.005	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
Toluene	<0.021	mg/Kg - dry	0.021	0.060	1	08/06/20 18:33	RED	L505241
1,2,3-Trichlorobenzene	<0.009	mg/Kg - dry	0.009	0.012	1	08/06/20 18:33	RED	L505241
1,2,4-Trichlorobenzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/06/20 18:33	RED	L505241
1,1,1-Trichloroethane	<0.004	mg/Kg - dry	0.004	0.012	1	08/06/20 18:33	RED	L505241
1,1,2-Trichloroethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92397**

Matrix: **Solids**

Sample ID : **167SSB0208**

Sampled: **8/4/2020 11:05**

Analytical Method: 8260B **Prep Batch(es):** **L505228** 08/06/20 08:26
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.002	mg/Kg - dry	0.002	0.012	1	08/06/20 18:33	RED	L505241
Trichlorofluoromethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/06/20 18:33	RED	L505241
1,2,3-Trichloropropane	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
1,2,4-Trimethylbenzene	0.215	mg/Kg - dry	0.005	0.012	1	08/06/20 18:33	RED	L505241
1,3,5-Trimethylbenzene	<0.008	mg/Kg - dry	0.008	0.012	1	08/06/20 18:33	RED	L505241
Vinyl Acetate	<0.022	mg/Kg - dry	0.022	0.243	1	08/06/20 18:33	RED	L505241
Vinyl Chloride	<0.003	mg/Kg - dry	0.003	0.012	1	08/06/20 18:33	RED	L505241
Xylene (Total)	0.397 J	mg/Kg - dry	0.002	0.012	1	08/06/20 18:33		L505241
Surrogate: 4-Bromofluorobenzene	91.5		Limits: 60-130%		1	08/06/20 18:33	RED	L505241
Surrogate: 1,2-Dichloroethane - d4	88.2		Limits: 60-132%		1	08/06/20 18:33	RED	L505241
Surrogate: Toluene-d8	122		Limits: 70-130%		1	08/06/20 18:33	RED	L505241

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.00887	mg/Kg - dry	0.00151	0.00233	1	08/07/20 14:51	MLR	L505238
Acenaphthylene	<0.00133	mg/Kg - dry	0.00133	0.00233	1	08/07/20 14:51	MLR	L505238
Anthracene	0.00242	mg/Kg - dry	0.00148	0.00233	1	08/07/20 14:51	MLR	L505238
Benzo(a)anthracene	<0.00154	mg/Kg - dry	0.00154	0.00233	1	08/07/20 14:51	MLR	L505238
Benzo(a)pyrene	<0.000462	mg/Kg - dry	0.000462	0.00233	1	08/07/20 14:51	MLR	L505238
Benzo(b)fluoranthene	<0.000480	mg/Kg - dry	0.000480	0.00233	1	08/07/20 14:51	MLR	L505238
Benzo(g,h,i)perylene	<0.000805	mg/Kg - dry	0.000805	0.00233	1	08/07/20 14:51	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92397**

Matrix: **Solids**

Sample ID : **167SSB0208**

Sampled: **8/4/2020 11:05**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.00169	mg/Kg - dry	0.00169	0.00233	1	08/07/20 14:51	MLR	L505238
Chrysene	0.00119 J	mg/Kg - dry	0.000892	0.00233	1	08/07/20 14:51	MLR	L505238
Dibenz(a,h)anthracene	<0.000972	mg/Kg - dry	0.000972	0.00233	1	08/07/20 14:51	MLR	L505238
Fluoranthene	0.00220 J	mg/Kg - dry	0.00184	0.00233	1	08/07/20 14:51	MLR	L505238
Fluorene	0.00896	mg/Kg - dry	0.00174	0.00233	1	08/07/20 14:51	MLR	L505238
Indeno(1,2,3-cd)pyrene	<0.00120	mg/Kg - dry	0.00120	0.00233	1	08/07/20 14:51	MLR	L505238
2-Methylnaphthalene	2.31	mg/Kg - dry	0.00945	0.0117	5	08/11/20 15:54	MLR	L505238
Naphthalene	2.48	mg/Kg - dry	0.00814	0.0117	5	08/11/20 15:54	MLR	L505238
Phenanthrene	0.0129	mg/Kg - dry	0.00228	0.00233	1	08/07/20 14:51	MLR	L505238
Pyrene	0.00395	mg/Kg - dry	0.00136	0.00233	1	08/07/20 14:51	MLR	L505238
Surrogate: 2-Fluorobiphenyl	72.8			Limits: 33-115%	1	08/07/20 14:51	MLR	L505238
Surrogate: Nitrobenzene-d5	103			Limits: 29-110%	1	08/07/20 14:51	MLR	L505238
Surrogate: 4-Terphenyl-d14	102			Limits: 33-122%	1	08/07/20 14:51	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	12.0	mg/Kg - dry	4.14	4.14	1	08/12/20 11:29	MMK	L505941
Oil Range Organics (>C28-C40)	<4.14	mg/Kg - dry	4.14	4.14	1	08/12/20 11:29	MMK	L505941
TN EPH (C10-C40)	12.0	mg/Kg - dry	4.14	4.14	1	08/12/20 11:29		L505941
Surrogate: OTP Surrogate	62.7			Limits: 50-150%	1	08/12/20 11:29	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

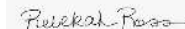
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92398**

Matrix: **Solids**

Sample ID : **167SSB0212**

Sampled: **8/4/2020 11:10**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	21.7	%			1	08/10/20 14:13	FMM	SW-DRYWT
Arsenic	9.07	mg/Kg - dry	0.307	0.639	1	08/08/20 02:00	TJS	6010D
Barium	48.1	mg/Kg - dry	0.166	0.639	1	08/08/20 02:00	TJS	6010D
Cadmium	0.165	mg/Kg - dry	0.0255	0.128	1	08/08/20 02:00	TJS	6010D
Chromium	13.8	mg/Kg - dry	0.301	0.319	1	08/08/20 02:00	TJS	6010D
Lead	8.10	mg/Kg - dry	0.229	0.383	1	08/08/20 02:00	TJS	6010D
Mercury	0.0163 J	mg/Kg - dry	0.00390	0.0176	1	08/13/20 17:27	DDB	7471A
Selenium	<0.408	mg/Kg - dry	0.408	0.638	1	08/11/20 08:12	TJS	6010D
Silver	<0.204	mg/Kg - dry	0.204	0.319	1	08/08/20 02:00	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92398**

Matrix: **Solids**

Sample ID : **167SSB0212**

Sampled: **8/4/2020 11:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.051	1	08/10/20 10:53	ELM	L505699
Acetonitrile	<0.057	mg/Kg - dry	0.057	0.127	1	08/10/20 10:53	ELM	L505699
Acrolein	<0.008	mg/Kg - dry	0.008	0.051	1	08/10/20 10:53	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.051	1	08/10/20 10:53	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 10:53	ELM	L505699
Bromobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.051	1	08/10/20 10:53	ELM	L505699
n-Butylbenzene	0.452	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
sec-Butyl benzene	0.280	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
tert-Butyl benzene	0.013	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Carbon Tetrachloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
2-Chloroethylvinyl Ether	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 10:53	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project

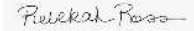
Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92398**

Sample ID : **167SSB0212**

Matrix: **Solids**

Sampled: **8/4/2020 11:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 10:53	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53		L505699
1,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 10:53	ELM	L505699
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 10:53	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.051	1	08/10/20 10:53	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92398**

Matrix: **Solids**

Sample ID : **167SSB0212**

Sampled: **8/4/2020 11:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	0.080	mg/Kg - dry	0.0009	0.002	1	08/10/20 10:53	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 10:53	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.012	1	08/10/20 10:53	ELM	L505699
Isopropylbenzene	0.804 E	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
4-Isopropyl toluene	0.074	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 10:53	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.051	1	08/10/20 10:53	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
m,p-Xylene	0.023	mg/Kg - dry	0.001	0.005	1	08/10/20 10:53	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 10:53	ELM	L505699
o-Xylene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53	ELM	L505699
n-Propylbenzene	2.17 E	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Styrene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 10:53	ELM	L505699
1,2,3-Trichlorobenzene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 10:53	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 10:53	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 10:53	ELM	L505699

Qualifiers/ Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	E	Result above cal range
	I	Recovery out of range	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92398**

Sample ID : **167SSB0212**

Matrix: **Solids**

Sampled: **8/4/2020 11:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 10:53	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 10:53	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.051	1	08/10/20 10:53	ELM	L505699
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 10:53	ELM	L505699
Xylene (Total)	0.023	mg/Kg - dry	0.0006	0.002	1	08/10/20 10:53		L505699
Surrogate: 4-Bromofluorobenzene	82.3		Limits: 60-130%		1	08/10/20 10:53	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	119		Limits: 60-132%		1	08/10/20 10:53	ELM	L505699
Surrogate: Toluene-d8	189 *		Limits: 70-130%		1	08/10/20 10:53	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.00163	mg/Kg - dry	0.00163	0.00254	1	08/11/20 15:11	MLR	L505238
Acenaphthylene	<0.00144	mg/Kg - dry	0.00144	0.00254	1	08/11/20 15:11	MLR	L505238
Anthracene	<0.00162	mg/Kg - dry	0.00162	0.00254	1	08/11/20 15:11	MLR	L505238
Benzo(a)anthracene	0.00217 J	mg/Kg - dry	0.00167	0.00254	1	08/11/20 15:11	MLR	L505238
Benzo(a)pyrene	0.00217 J	mg/Kg - dry	0.000504	0.00254	1	08/11/20 15:11	MLR	L505238
Benzo(b)fluoranthene	0.00161 J	mg/Kg - dry	0.000523	0.00254	1	08/11/20 15:11	MLR	L505238
Benzo(g,h,i)perylene	<0.000876	mg/Kg - dry	0.000876	0.00254	1	08/11/20 15:11	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MLQ	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92398**

Matrix: **Solids**

Sample ID : **167SSB0212**

Sampled: **8/4/2020 11:10**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.00184	mg/Kg - dry	0.00184	0.00254	1	08/11/20 15:11	MLR	L505238
Chrysene	<0.000970	mg/Kg - dry	0.000970	0.00254	1	08/11/20 15:11	MLR	L505238
Dibenz(a,h)anthracene	0.00144 J	mg/Kg - dry	0.00106	0.00254	1	08/11/20 15:11	MLR	L505238
Fluoranthene	<0.00201	mg/Kg - dry	0.00201	0.00254	1	08/11/20 15:11	MLR	L505238
Fluorene	<0.00190	mg/Kg - dry	0.00190	0.00254	1	08/11/20 15:11	MLR	L505238
Indeno(1,2,3-cd)pyrene	<0.00130	mg/Kg - dry	0.00130	0.00254	1	08/11/20 15:11	MLR	L505238
2-Methylnaphthalene	0.00905	mg/Kg - dry	0.00206	0.00254	1	08/11/20 15:11	MLR	L505238
Naphthalene	0.0266	mg/Kg - dry	0.00178	0.00254	1	08/11/20 15:11	MLR	L505238
Phenanthrene	<0.00248	mg/Kg - dry	0.00248	0.00254	1	08/11/20 15:11	MLR	L505238
Pyrene	<0.00147	mg/Kg - dry	0.00147	0.00254	1	08/11/20 15:11	MLR	L505238
Surrogate: 2-Fluorobiphenyl	35.7		Limits: 33-115%		1	08/11/20 15:11	MLR	L505238
Surrogate: Nitrobenzene-d5	46.1		Limits: 29-110%		1	08/11/20 15:11	MLR	L505238
Surrogate: 4-Terphenyl-d14	57.9		Limits: 33-122%		1	08/11/20 15:11	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	23.5	mg/Kg - dry	4.21	4.21	1	08/12/20 11:49	MMK	L505941
Oil Range Organics (>C28-C40)	<4.21	mg/Kg - dry	4.21	4.21	1	08/12/20 11:49	MMK	L505941
TN EPH (C10-C40)	23.5	mg/Kg - dry	4.21	4.21	1	08/12/20 11:49		L505941
Surrogate: OTP Surrogate	69.6		Limits: 50-150%		1	08/12/20 11:49	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92399**

Matrix: **Solids**

Sample ID : **167SSB0304**

Sampled: **8/4/2020 13:05**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	16.1	%			1	08/10/20 14:13	FMM	SW-DRYWT
Arsenic	12.4	mg/Kg - dry	1.43	2.98	5	08/11/20 08:17	TJS	6010D
Barium	222	mg/Kg - dry	0.775	2.98	5	08/11/20 08:17	TJS	6010D
Cadmium	0.254 J	mg/Kg - dry	0.119	0.596	5	08/11/20 08:17	TJS	6010D
Chromium	18.0	mg/Kg - dry	1.41	1.49	5	08/11/20 08:17	TJS	6010D
Lead	39.2	mg/Kg - dry	1.07	1.79	5	08/11/20 08:17	TJS	6010D
Mercury	0.255	mg/Kg - dry	0.00404	0.0182	1	08/11/20 13:43	DDB	7471A
Selenium	<1.91	mg/Kg - dry	1.91	2.98	5	08/11/20 08:17	TJS	6010D
Silver	<0.954	mg/Kg - dry	0.954	1.49	5	08/11/20 08:17	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92399**

Sample ID : **167SSB0304**

Matrix: **Solids**

Sampled: **8/4/2020 13:05**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.047	1	08/10/20 11:14	ELM	L505699
Acetonitrile	<0.054	mg/Kg - dry	0.054	0.119	1	08/10/20 11:14	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.047	1	08/10/20 11:14	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.047	1	08/10/20 11:14	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
Bromobenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 11:14	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 11:14	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 11:14	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.047	1	08/10/20 11:14	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 11:14	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 11:14	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 11:14	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 11:14	ELM	L505699
Chloroform	0.007	mg/Kg - dry	0.002	0.002	1	08/10/20 11:14	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project

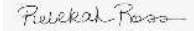
Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92399**

Sample ID : **167SSB0304**

Matrix: **Solids**

Sampled: **8/4/2020 13:05**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 11:14	ELM	L505699
1,2-Dibromoethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 11:14	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 11:14	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 11:14		L505699
1,2-Dichloropropane	<0.0010	mg/Kg - dry	0.0010	0.002	1	08/10/20 11:14	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
2,2-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
1,1-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 11:14	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
Ethyl Acetate	<0.008	mg/Kg - dry	0.008	0.047	1	08/10/20 11:14	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92399**

Matrix: **Solids**

Sample ID : **167SSB0304**

Sampled: **8/4/2020 13:05**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 11:14	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
2-Hexanone	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 11:14	ELM	L505699
Iodomethane	<0.0010	mg/Kg - dry	0.0010	0.011	1	08/10/20 11:14	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 11:14	ELM	L505699
Methylene Chloride	<0.006	mg/Kg - dry	0.006	0.047	1	08/10/20 11:14	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
m,p-Xylene	0.001 J	mg/Kg - dry	0.001	0.004	1	08/10/20 11:14	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.011	1	08/10/20 11:14	ELM	L505699
o-Xylene	0.0006 J	mg/Kg - dry	0.0005	0.002	1	08/10/20 11:14	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.011	1	08/10/20 11:14	ELM	L505699
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,1,1-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 11:14	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92399**

Matrix: **Solids**

Sample ID : **167SSB0304**

Sampled: **8/4/2020 13:05**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 11:14	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,2,3-Trichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 11:14	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 11:14	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.047	1	08/10/20 11:14	ELM	L505699
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 11:14	ELM	L505699
Xylene (Total)	0.002J	mg/Kg - dry	0.0005	0.002	1	08/10/20 11:14		L505699
Surrogate: 4-Bromofluorobenzene	104		Limits: 60-130%		1	08/10/20 11:14	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	123		Limits: 60-132%		1	08/10/20 11:14	ELM	L505699
Surrogate: Toluene-d8	103		Limits: 70-130%		1	08/10/20 11:14	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.00190	mg/Kg - dry	0.000513	0.000798	1	08/07/20 15:34	MLR	L505238
Acenaphthylene	0.00161	mg/Kg - dry	0.000455	0.000798	1	08/07/20 15:34	MLR	L505238
Anthracene	0.00670	mg/Kg - dry	0.000507	0.000798	1	08/07/20 15:34	MLR	L505238
Benzo(a)anthracene	0.0460	mg/Kg - dry	0.000525	0.000798	1	08/07/20 15:34	MLR	L505238
Benzo(a)pyrene	0.0496	mg/Kg - dry	0.000158	0.000798	1	08/07/20 15:34	MLR	L505238
Benzo(b)fluoranthene	0.0963	mg/Kg - dry	0.000164	0.000798	1	08/07/20 15:34	MLR	L505238
Benzo(g,h,i)perylene	0.0313	mg/Kg - dry	0.000275	0.000798	1	08/07/20 15:34	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MLQ	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92399**

Matrix: **Solids**

Sample ID : **167SSB0304**

Sampled: **8/4/2020 13:05**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	0.0391	mg/Kg - dry	0.000579	0.000798	1	08/07/20 15:34	MLR	L505238
Chrysene	0.0626	mg/Kg - dry	0.000305	0.000798	1	08/07/20 15:34	MLR	L505238
Dibenz(a,h)anthracene	0.00776	mg/Kg - dry	0.000332	0.000798	1	08/07/20 15:34	MLR	L505238
Fluoranthene	0.128	mg/Kg - dry	0.000630	0.000798	1	08/07/20 15:34	MLR	L505238
Fluorene	0.00148	mg/Kg - dry	0.000597	0.000798	1	08/07/20 15:34	MLR	L505238
Indeno(1,2,3-cd)pyrene	0.0411	mg/Kg - dry	0.000410	0.000798	1	08/07/20 15:34	MLR	L505238
2-Methylnaphthalene	0.0460	mg/Kg - dry	0.000646	0.000798	1	08/07/20 15:34	MLR	L505238
Naphthalene	0.0361	mg/Kg - dry	0.000556	0.000798	1	08/07/20 15:34	MLR	L505238
Phenanthrene	0.0982	mg/Kg - dry	0.000779	0.000798	1	08/07/20 15:34	MLR	L505238
Pyrene	0.0919	mg/Kg - dry	0.000461	0.000798	1	08/07/20 15:34	MLR	L505238
Surrogate: 2-Fluorobiphenyl	38.4			Limits: 33-115%	1	08/07/20 15:34	MLR	L505238
Surrogate: Nitrobenzene-d5	32.3			Limits: 29-110%	1	08/07/20 15:34	MLR	L505238
Surrogate: 4-Terphenyl-d14	41.2			Limits: 33-122%	1	08/07/20 15:34	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	4.93	mg/Kg - dry	3.93	3.93	1	08/12/20 12:08	MMK	L505941
Oil Range Organics (>C28-C40)	7.53	mg/Kg - dry	3.93	3.93	1	08/12/20 12:08	MMK	L505941
TN EPH (C10-C40)	12.5	mg/Kg - dry	3.93	3.93	1	08/12/20 12:08		L505941
Surrogate: OTP Surrogate	72.7			Limits: 50-150%	1	08/12/20 12:08	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92400**

Matrix: **Solids**

Sample ID : **167SSB0404**

Sampled: **8/4/2020 13:15**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	17.2	%			1	08/07/20 13:51	FMM	SW-DRYWT
Arsenic	13.4	mg/Kg - dry	1.45	3.02	5	08/11/20 08:22	TJS	6010D
Barium	149	mg/Kg - dry	0.785	3.02	5	08/11/20 08:22	TJS	6010D
Cadmium	0.481 J	mg/Kg - dry	0.121	0.604	5	08/11/20 08:22	TJS	6010D
Chromium	17.6	mg/Kg - dry	1.43	1.51	5	08/11/20 08:22	TJS	6010D
Lead	48.1	mg/Kg - dry	1.09	1.81	5	08/11/20 08:22	TJS	6010D
Mercury	0.0429	mg/Kg - dry	0.00419	0.0190	1	08/13/20 17:31	DDB	7471A
Selenium	<1.93	mg/Kg - dry	1.93	3.02	5	08/11/20 08:22	TJS	6010D
Silver	<0.966	mg/Kg - dry	0.966	1.51	5	08/11/20 08:22	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92400**

Matrix: **Solids**

Sample ID : **167SSB0404**

Sampled: **8/4/2020 13:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.006	mg/Kg - dry	0.006	0.052	1	08/10/20 12:19	ELM	L505699
Acetonitrile	<0.059	mg/Kg - dry	0.059	0.131	1	08/10/20 12:19	ELM	L505699
Acrolein	<0.008	mg/Kg - dry	0.008	0.052	1	08/10/20 12:19	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.052	1	08/10/20 12:19	ELM	L505699
Benzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
Bromobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.010	mg/Kg - dry	0.010	0.052	1	08/10/20 12:19	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Carbon Tetrachloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 12:19	ELM	L505699
Chlorobenzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 12:19	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
2-Chloroethylvinyl Ether	<0.007	mg/Kg - dry	0.007	0.013	1	08/10/20 12:19	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

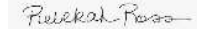
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92400**

Sample ID : **167SSB0404**

Matrix: **Solids**

Sampled: **8/4/2020 13:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.013	1	08/10/20 12:19	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 12:19	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
cis-1,2-Dichloroethene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 12:19	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,2-Dichloroethene (Total)	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 12:19		L505699
1,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 12:19	ELM	L505699
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
trans-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.052	1	08/10/20 12:19	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92400**

Sample ID : **167SSB0404**

Matrix: **Solids**

Sampled: **8/4/2020 13:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 12:19	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.013	1	08/10/20 12:19	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.013	1	08/10/20 12:19	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.013	1	08/10/20 12:19	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.052	1	08/10/20 12:19	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.005	1	08/10/20 12:19	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.013	1	08/10/20 12:19	ELM	L505699
o-Xylene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 12:19	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Styrene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.013	1	08/10/20 12:19	ELM	L505699
1,2,3-Trichlorobenzene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 12:19	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 12:19	ELM	L505699
1,1,2-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92400**

Sample ID : **167SSB0404**

Matrix: **Solids**

Sampled: **8/4/2020 13:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41

Prep Method: 5030A

Test	Results	Units	MDL	SQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 12:19	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 12:19	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 12:19	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.052	1	08/10/20 12:19	ELM	L505699
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 12:19	ELM	L505699
Xylene (Total)	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 12:19		L505699
Surrogate: 4-Bromofluorobenzene	99.1		Limits: 60-130%		1	08/10/20 12:19	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	118		Limits: 60-132%		1	08/10/20 12:19	ELM	L505699
Surrogate: Toluene-d8	96.3		Limits: 70-130%		1	08/10/20 12:19	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00

Prep Method: 3550B

Test	Results	Units	MDL	SQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000520	mg/Kg - dry	0.000520	0.000809	1	08/07/20 15:56	MLR	L505238
Acenaphthylene	<0.000461	mg/Kg - dry	0.000461	0.000809	1	08/07/20 15:56	MLR	L505238
Anthracene	<0.000514	mg/Kg - dry	0.000514	0.000809	1	08/07/20 15:56	MLR	L505238
Benzo(a)anthracene	0.00372	mg/Kg - dry	0.000532	0.000809	1	08/07/20 15:56	MLR	L505238
Benzo(a)pyrene	0.00308	mg/Kg - dry	0.000160	0.000809	1	08/07/20 15:56	MLR	L505238
Benzo(b)fluoranthene	0.00595	mg/Kg - dry	0.000166	0.000809	1	08/07/20 15:56	MLR	L505238
Benzo(g,h,i)perylene	<0.000278	mg/Kg - dry	0.000278	0.000809	1	08/07/20 15:56	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
SQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92400**
Sample ID : **167SSB0404**

Matrix: **Solids**
Sampled: **8/4/2020 13:15**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	0.00192	mg/Kg - dry	0.000586	0.000809	1	08/07/20 15:56	MLR	L505238
Chrysene	0.00459	mg/Kg - dry	0.000309	0.000809	1	08/07/20 15:56	MLR	L505238
Dibenz(a,h)anthracene	<0.000336	mg/Kg - dry	0.000336	0.000809	1	08/07/20 15:56	MLR	L505238
Fluoranthene	0.00849	mg/Kg - dry	0.000638	0.000809	1	08/07/20 15:56	MLR	L505238
Fluorene	<0.000605	mg/Kg - dry	0.000605	0.000809	1	08/07/20 15:56	MLR	L505238
Indeno(1,2,3-cd)pyrene	0.00113	mg/Kg - dry	0.000415	0.000809	1	08/07/20 15:56	MLR	L505238
2-Methylnaphthalene	0.00103 B	mg/Kg - dry	0.000654	0.000809	1	08/07/20 15:56	MLR	L505238
Naphthalene	0.000864 B	mg/Kg - dry	0.000564	0.000809	1	08/07/20 15:56	MLR	L505238
Phenanthrene	0.00261	mg/Kg - dry	0.000789	0.000809	1	08/07/20 15:56	MLR	L505238
Pyrene	0.00646	mg/Kg - dry	0.000467	0.000809	1	08/07/20 15:56	MLR	L505238
Surrogate: 2-Fluorobiphenyl	46.1			Limits: 33-115%	1	08/07/20 15:56	MLR	L505238
Surrogate: Nitrobenzene-d5	41.6			Limits: 29-110%	1	08/07/20 15:56	MLR	L505238
Surrogate: 4-Terphenyl-d14	65.4			Limits: 33-122%	1	08/07/20 15:56	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<3.99	mg/Kg - dry	3.99	3.99	1	08/12/20 12:27	MMK	L505941
Oil Range Organics (>C28-C40)	<3.99	mg/Kg - dry	3.99	3.99	1	08/12/20 12:27	MMK	L505941
TN EPH (C10-C40)	<3.99	mg/Kg - dry	3.99	3.99	1	08/12/20 12:27		L505941
Surrogate: OTP Surrogate	50.3			Limits: 50-150%	1	08/12/20 12:27	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

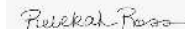
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92401**

Matrix: **Solids**

Sample ID : **167SSB0504**

Sampled: **8/4/2020 13:45**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	19.8	%			1	08/07/20 13:51	FMM	SW-DRYWT
Arsenic	7.99	mg/Kg - dry	0.299	0.623	1	08/08/20 02:16	TJS	6010D
Barium	142	mg/Kg - dry	0.162	0.623	1	08/08/20 02:16	TJS	6010D
Cadmium	0.218	mg/Kg - dry	0.0249	0.125	1	08/08/20 02:16	TJS	6010D
Chromium	13.7	mg/Kg - dry	0.294	0.311	1	08/08/20 02:16	TJS	6010D
Lead	8.98	mg/Kg - dry	0.224	0.374	1	08/08/20 02:16	TJS	6010D
Mercury	0.0253	mg/Kg - dry	0.00381	0.0173	1	08/13/20 17:32	DDB	7471A
Selenium	<0.399	mg/Kg - dry	0.399	0.623	1	08/11/20 08:27	TJS	6010D
Silver	<0.200	mg/Kg - dry	0.200	0.312	1	08/08/20 02:16	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis, TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92401**

Matrix: **Solids**

Sample ID : **167SSB0504**

Sampled: **8/4/2020 13:45**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.049	1	08/10/20 17:38	ELM	L505699
Acetonitrile	<0.056	mg/Kg - dry	0.056	0.124	1	08/10/20 17:38	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.049	1	08/10/20 17:38	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.049	1	08/10/20 17:38	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 17:38	ELM	L505699
Bromobenzene	<0.0010	mg/Kg - dry	0.0010	0.002	1	08/10/20 17:38	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 17:38	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 17:38	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.049	1	08/10/20 17:38	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 17:38	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 17:38	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 17:38	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 17:38	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 17:38	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92401**

Matrix: **Solids**

Sample ID : **167SSB0504**

Sampled: **8/4/2020 13:45**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 17:38	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 17:38	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38		L505699
1,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 17:38	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 17:38	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 17:38	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.049	1	08/10/20 17:38	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92401**

Sample ID : **167SSB0504**

Matrix: **Solids**

Sampled: **8/4/2020 13:45**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 17:38	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.012	1	08/10/20 17:38	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 17:38	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.049	1	08/10/20 17:38	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.004	1	08/10/20 17:38	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 17:38	ELM	L505699
o-Xylene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 17:38	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 17:38	ELM	L505699
1,2,3-Trichlorobenzene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 17:38	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 17:38	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 17:38	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis, TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92401**

Sample ID : **167SSB0504**

Matrix: **Solids**

Sampled: **8/4/2020 13:45**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41

Prep Method: 5030A

Test	Results	Units	MDL	SQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 17:38	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 17:38	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 17:38	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.049	1	08/10/20 17:38	ELM	L505699
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 17:38	ELM	L505699
Xylene (Total)	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 17:38		L505699
Surrogate: 4-Bromofluorobenzene	109		Limits: 60-130%		1	08/10/20 17:38	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	128		Limits: 60-132%		1	08/10/20 17:38	ELM	L505699
Surrogate: Toluene-d8	108		Limits: 70-130%		1	08/10/20 17:38	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00

Prep Method: 3550B

Test	Results	Units	MDL	SQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000537	mg/Kg - dry	0.000537	0.000835	1	08/07/20 16:18	MLR	L505238
Acenaphthylene	<0.000476	mg/Kg - dry	0.000476	0.000835	1	08/07/20 16:18	MLR	L505238
Anthracene	<0.000531	mg/Kg - dry	0.000531	0.000835	1	08/07/20 16:18	MLR	L505238
Benzo(a)anthracene	<0.000549	mg/Kg - dry	0.000549	0.000835	1	08/07/20 16:18	MLR	L505238
Benzo(a)pyrene	<0.000165	mg/Kg - dry	0.000165	0.000835	1	08/07/20 16:18	MLR	L505238
Benzo(b)fluoranthene	<0.000172	mg/Kg - dry	0.000172	0.000835	1	08/07/20 16:18	MLR	L505238
Benzo(g,h,i)perylene	<0.000288	mg/Kg - dry	0.000288	0.000835	1	08/07/20 16:18	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
SQL	Method Quantitation Limit			

03180
 Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92401**
 Sample ID : **167SSB0504**

Matrix: **Solids**
 Sampled: **8/4/2020 13:45**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000605	mg/Kg - dry	0.000605	0.000835	1	08/07/20 16:18	MLR	L505238
Chrysene	<0.000319	mg/Kg - dry	0.000319	0.000835	1	08/07/20 16:18	MLR	L505238
Dibenz(a,h)anthracene	<0.000347	mg/Kg - dry	0.000347	0.000835	1	08/07/20 16:18	MLR	L505238
Fluoranthene	<0.000659	mg/Kg - dry	0.000659	0.000835	1	08/07/20 16:18	MLR	L505238
Fluorene	<0.000624	mg/Kg - dry	0.000624	0.000835	1	08/07/20 16:18	MLR	L505238
Indeno(1,2,3-cd)pyrene	<0.000428	mg/Kg - dry	0.000428	0.000835	1	08/07/20 16:18	MLR	L505238
2-Methylnaphthalene	0.000872 B	mg/Kg - dry	0.000675	0.000835	1	08/07/20 16:18	MLR	L505238
Naphthalene	0.000746 JB	mg/Kg - dry	0.000582	0.000835	1	08/07/20 16:18	MLR	L505238
Phenanthrene	<0.000815	mg/Kg - dry	0.000815	0.000835	1	08/07/20 16:18	MLR	L505238
Pyrene	<0.000482	mg/Kg - dry	0.000482	0.000835	1	08/07/20 16:18	MLR	L505238
Surrogate: 2-Fluorobiphenyl	36.9			Limits: 33-115%	1	08/07/20 16:18	MLR	L505238
Surrogate: Nitrobenzene-d5	33.5			Limits: 29-110%	1	08/07/20 16:18	MLR	L505238
Surrogate: 4-Terphenyl-d14	54.4			Limits: 33-122%	1	08/07/20 16:18	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<4.11	mg/Kg - dry	4.11	4.11	1	08/12/20 12:46	MMK	L505941
Oil Range Organics (>C28-C40)	<4.11	mg/Kg - dry	4.11	4.11	1	08/12/20 12:46	MMK	L505941
TN EPH (C10-C40)	<4.11	mg/Kg - dry	4.11	4.11	1	08/12/20 12:46		L505941
Surrogate: OTP Surrogate	72.0			Limits: 50-150%	1	08/12/20 12:46	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92402**
Sample ID : **167SSB0604**

Matrix: **Solids**
Sampled: **8/4/2020 13:30**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	17.8	%			1	08/07/20 13:51	FMM	SW-DRYWT
Arsenic	10.0	mg/Kg - dry	0.292	0.608	1	08/08/20 02:31	TJS	6010D
Barium	164	mg/Kg - dry	0.158	0.608	1	08/08/20 02:31	TJS	6010D
Cadmium	0.455	mg/Kg - dry	0.0243	0.122	1	08/08/20 02:31	TJS	6010D
Chromium	13.4	mg/Kg - dry	0.287	0.304	1	08/08/20 02:31	TJS	6010D
Lead	164	mg/Kg - dry	0.218	0.364	1	08/08/20 02:31	TJS	6010D
Mercury	0.0276	mg/Kg - dry	0.00364	0.0165	1	08/13/20 14:27	DDB	7471A
Selenium	<0.389	mg/Kg - dry	0.389	0.608	1	08/11/20 08:32	TJS	6010D
Silver	<0.195	mg/Kg - dry	0.195	0.304	1	08/08/20 02:31	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92402**
 Sample ID : **167SSB0604**

Matrix: **Solids**
 Sampled: **8/4/2020 13:30**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.048	1	08/10/20 13:02	ELM	L505699
Acetonitrile	<0.055	mg/Kg - dry	0.055	0.121	1	08/10/20 13:02	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.048	1	08/10/20 13:02	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.048	1	08/10/20 13:02	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:02	ELM	L505699
Bromobenzene	<0.0010	mg/Kg - dry	0.0010	0.002	1	08/10/20 13:02	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:02	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:02	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.048	1	08/10/20 13:02	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:02	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:02	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:02	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 13:02	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:02	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92402**

Sample ID : **167SSB0604**

Matrix: **Solids**

Sampled: **8/4/2020 13:30**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 13:02	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:02	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02		L505699
1,2-Dichloropropane	<0.0010	mg/Kg - dry	0.0010	0.002	1	08/10/20 13:02	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:02	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:02	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:02	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.048	1	08/10/20 13:02	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92402**
Sample ID : **167SSB0604**

Matrix: **Solids**
Sampled: **8/4/2020 13:30**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 13:02	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.012	1	08/10/20 13:02	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 13:02	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.048	1	08/10/20 13:02	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.004	1	08/10/20 13:02	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 13:02	ELM	L505699
o-Xylene	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:02	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 13:02	ELM	L505699
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:02	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:02	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180
 Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92402**
 Sample ID : **167SSB0604**

Matrix: **Solids**
 Sampled: **8/4/2020 13:30**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:02	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:02	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:02	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.048	1	08/10/20 13:02	ELM	L505699
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:02	ELM	L505699
Xylene (Total)	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:02		L505699
Surrogate: 4-Bromofluorobenzene	98.8		Limits: 60-130%		1	08/10/20 13:02	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	127		Limits: 60-132%		1	08/10/20 13:02	ELM	L505699
Surrogate: Toluene-d8	106		Limits: 70-130%		1	08/10/20 13:02	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.00263	mg/Kg - dry	0.00263	0.00408	5	08/07/20 16:39	MLR	L505238
Acenaphthylene	0.0137	mg/Kg - dry	0.00232	0.00408	5	08/07/20 16:39	MLR	L505238
Anthracene	0.00560	mg/Kg - dry	0.00259	0.00408	5	08/07/20 16:39	MLR	L505238
Benzo(a)anthracene	0.273	mg/Kg - dry	0.00269	0.00408	5	08/07/20 16:39	MLR	L505238
Benzo(a)pyrene	0.251	mg/Kg - dry	0.000809	0.00408	5	08/07/20 16:39	MLR	L505238
Benzo(b)fluoranthene	0.283	mg/Kg - dry	0.000839	0.00408	5	08/07/20 16:39	MLR	L505238
Benzo(g,h,i)perylene	0.167	mg/Kg - dry	0.00141	0.00408	5	08/07/20 16:39	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MLQ	Method Quantitation Limit			

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Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92402**
Sample ID : **167SSB0604**

Matrix: **Solids**
Sampled: **8/4/2020 13:30**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	0.141	mg/Kg - dry	0.00296	0.00408	5	08/07/20 16:39	MLR	L505238
Chrysene	0.243	mg/Kg - dry	0.00156	0.00408	5	08/07/20 16:39	MLR	L505238
Dibenz(a,h)anthracene	0.0466	mg/Kg - dry	0.00170	0.00408	5	08/07/20 16:39	MLR	L505238
Fluoranthene	0.260	mg/Kg - dry	0.00322	0.00408	5	08/07/20 16:39	MLR	L505238
Fluorene	<0.00305	mg/Kg - dry	0.00305	0.00408	5	08/07/20 16:39	MLR	L505238
Indeno(1,2,3-cd)pyrene	0.197	mg/Kg - dry	0.00209	0.00408	5	08/07/20 16:39	MLR	L505238
2-Methylnaphthalene	0.0173	mg/Kg - dry	0.00330	0.00408	5	08/07/20 16:39	MLR	L505238
Naphthalene	0.0137	mg/Kg - dry	0.00285	0.00408	5	08/07/20 16:39	MLR	L505238
Phenanthrene	0.0342	mg/Kg - dry	0.00398	0.00408	5	08/07/20 16:39	MLR	L505238
Pyrene	0.232	mg/Kg - dry	0.00236	0.00408	5	08/07/20 16:39	MLR	L505238
Surrogate: 2-Fluorobiphenyl	48.6			Limits: 33-115%	5	08/07/20 16:39	MLR	L505238
Surrogate: Nitrobenzene-d5	38.9			Limits: 29-110%	5	08/07/20 16:39	MLR	L505238
Surrogate: 4-Terphenyl-d14	42.9			Limits: 33-122%	5	08/07/20 16:39	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	22.3	mg/Kg - dry	4.01	4.01	1	08/12/20 13:05	MMK	L505941
Oil Range Organics (>C28-C40)	30.5	mg/Kg - dry	4.01	4.01	1	08/12/20 13:05	MMK	L505941
TN EPH (C10-C40)	52.8	mg/Kg - dry	4.01	4.01	1	08/12/20 13:05		L505941
Surrogate: OTP Surrogate	71.5			Limits: 50-150%	1	08/12/20 13:05	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92403**

Matrix: **Solids**

Sample ID : **167SSB0704**

Sampled: **8/4/2020 14:40**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	20.2	%			1	08/07/20 13:51	FMM	SW-DRYWT
Arsenic	8.78	mg/Kg - dry	0.301	0.627	1	08/08/20 02:37	TJS	6010D
Barium	67.7	mg/Kg - dry	0.163	0.627	1	08/08/20 02:37	TJS	6010D
Cadmium	0.264	mg/Kg - dry	0.0250	0.125	1	08/08/20 02:37	TJS	6010D
Chromium	12.1	mg/Kg - dry	0.295	0.313	1	08/08/20 02:37	TJS	6010D
Lead	47.0	mg/Kg - dry	0.225	0.375	1	08/08/20 02:37	TJS	6010D
Mercury	0.110	mg/Kg - dry	0.00436	0.0198	1	08/13/20 14:28	DDB	7471A
Selenium	<0.401	mg/Kg - dry	0.401	0.626	1	08/11/20 08:37	TJS	6010D
Silver	<0.201	mg/Kg - dry	0.201	0.313	1	08/08/20 02:37	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MQL	Method Quantitation Limit		

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Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

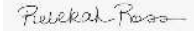
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92403**

Sample ID : **167SSB0704**

Matrix: **Solids**

Sampled: **8/4/2020 14:40**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41 **L505913** 08/11/20 10:44
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.028	mg/Kg - dry	0.028	0.250	1	08/10/20 18:00	ELM	L505699
Acetonitrile	<0.284	mg/Kg - dry	0.284	0.626	1	08/10/20 18:00	ELM	L505699
Acrolein	<0.039	mg/Kg - dry	0.039	0.250	1	08/10/20 18:00	ELM	L505699
Acrylonitrile	<0.015	mg/Kg - dry	0.015	0.250	1	08/10/20 18:00	ELM	L505699
Benzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Bromobenzene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 18:00	ELM	L505699
Bromochloromethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
Bromodichloromethane	<0.011	mg/Kg - dry	0.011	0.012	1	08/10/20 18:00	ELM	L505699
Bromoform	<0.011	mg/Kg - dry	0.011	0.012	1	08/10/20 18:00	ELM	L505699
Bromomethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.048	mg/Kg - dry	0.048	0.250	1	08/10/20 18:00	ELM	L505699
n-Butylbenzene	1.93	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
sec-Butyl benzene	0.859	mg/Kg - dry	0.009	0.012	1	08/10/20 18:00	ELM	L505699
tert-Butyl benzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
Carbon Disulfide	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.012	1	08/10/20 18:00	ELM	L505699
Chlorobenzene	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Chlorodibromomethane	<0.011	mg/Kg - dry	0.011	0.012	1	08/10/20 18:00	ELM	L505699
Chloroethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 18:00	ELM	L505699
2-Chloroethylvinyl Ether	<0.035	mg/Kg - dry	0.035	0.062	1	08/10/20 18:00	ELM	L505699
Chloroform	<0.011	mg/Kg - dry	0.011	0.012	1	08/10/20 18:00	ELM	L505699
Chloromethane	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699

Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

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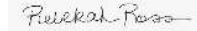
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92403**

Sample ID : **167SSB0704**

Matrix: **Solids**

Sampled: **8/4/2020 14:40**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41 **L505913** 08/11/20 10:44
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 18:00	ELM	L505699
4-Chlorotoluene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.026	mg/Kg - dry	0.026	0.062	1	08/10/20 18:00	ELM	L505699
1,2-Dibromoethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Dibromomethane	<0.002	mg/Kg - dry	0.002	0.012	1	08/10/20 18:00	ELM	L505699
1,2-Dichlorobenzene	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 18:00	ELM	L505699
1,3-Dichlorobenzene	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
1,4-Dichlorobenzene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
Dichlorodifluoromethane	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
1,1-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
1,2-Dichloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
1,1-Dichloroethene	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
cis-1,2-Dichloroethene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 18:00	ELM	L505699
trans-1,2-Dichloroethene	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 18:00	ELM	L505699
1,2-Dichloroethene (Total)	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 18:00		L505699
1,2-Dichloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
1,3-Dichloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
2,2-Dichloropropane	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
1,1-Dichloropropene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 18:00	ELM	L505699
cis-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
trans-1,3-Dichloropropene	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Ethyl Acetate	<0.046	mg/Kg - dry	0.046	0.250	1	08/10/20 18:00	ELM	L505699

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	E	Result above cal range
	I	Recovery out of range	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
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Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92403**

Matrix: **Solids**

Sample ID : **167SSB0704**

Sampled: **8/4/2020 14:40**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41 **L505913** 08/11/20 10:44
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	38.5	mg/Kg - dry	0.061	0.250	100	08/11/20 18:41	MKD	L505929
Hexachlorobutadiene	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
2-Hexanone	<0.031	mg/Kg - dry	0.031	0.062	1	08/10/20 18:00	ELM	L505699
Iodomethane	<0.005	mg/Kg - dry	0.005	0.062	1	08/10/20 18:00	ELM	L505699
Isopropylbenzene	2.98 E	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
4-Isopropyl toluene	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
4-Methyl-2-Pentanone	<0.033	mg/Kg - dry	0.033	0.062	1	08/10/20 18:00	ELM	L505699
Methylene Chloride	<0.036	mg/Kg - dry	0.036	0.250	1	08/10/20 18:00	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.009	mg/Kg - dry	0.009	0.012	1	08/10/20 18:00	ELM	L505699
m,p-Xylene	247	mg/Kg - dry	0.745	5.01	1000	08/12/20 14:38	MKD	L505929
Naphthalene	1.29	mg/Kg - dry	0.042	0.062	1	08/10/20 18:00	ELM	L505699
o-Xylene	<0.002	mg/Kg - dry	0.002	0.012	1	08/10/20 18:00	ELM	L505699
n-Propylbenzene	9.41 E	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
Styrene	<0.009	mg/Kg - dry	0.009	0.012	1	08/10/20 18:00	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.009	mg/Kg - dry	0.009	0.012	1	08/10/20 18:00	ELM	L505699
Tetrachloroethene	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 18:00	ELM	L505699
Toluene	0.670	mg/Kg - dry	0.021	0.062	1	08/10/20 18:00	ELM	L505699
1,2,3-Trichlorobenzene	<0.010	mg/Kg - dry	0.010	0.012	1	08/10/20 18:00	ELM	L505699
1,2,4-Trichlorobenzene	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 18:00	ELM	L505699
1,1,1-Trichloroethane	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 18:00	ELM	L505699
1,1,2-Trichloroethane	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis, TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Lab No : **92403**

Sample ID : **167SSB0704**

Matrix: **Solids**

Sampled: **8/4/2020 14:40**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41 **L505913** 08/11/20 10:44
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Trichlorofluoromethane	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 18:00	ELM	L505699
1,2,3-Trichloropropane	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
1,2,4-Trimethylbenzene	273	mg/Kg - dry	0.496	2.51	1000	08/12/20 14:38	MKD	L505929
1,3,5-Trimethylbenzene	10.3 E	mg/Kg - dry	0.008	0.012	1	08/10/20 18:00	ELM	L505699
Vinyl Acetate	<0.023	mg/Kg - dry	0.023	0.250	1	08/10/20 18:00	ELM	L505699
Vinyl Chloride	<0.003	mg/Kg - dry	0.003	0.012	1	08/10/20 18:00	ELM	L505699
Xylene (Total)	247	mg/Kg - dry	0.002	0.012	1	08/10/20 18:00		L505699
Surrogate: 4-Bromofluorobenzene	80.8		Limits: 60-130%		1	08/10/20 18:00	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	112		Limits: 60-132%		1	08/10/20 18:00	ELM	L505699
Surrogate: Toluene-d8	88.6		Limits: 70-130%		1	08/10/20 18:00	ELM	L505699
Surrogate: 4-Bromofluorobenzene	101		Limits: 50-150%		100	08/11/20 18:41	MKD	L505929
Surrogate: 1,2-Dichloroethane - d4	99.0		Limits: 50-150%		100	08/11/20 18:41	MKD	L505929
Surrogate: Toluene-d8	98.5		Limits: 50-150%		100	08/11/20 18:41	MKD	L505929

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.174	mg/Kg - dry	0.00152	0.00236	1	08/07/20 17:01	MLR	L505238
Acenaphthylene	0.0708	mg/Kg - dry	0.00134	0.00236	1	08/07/20 17:01	MLR	L505238
Anthracene	0.0333	mg/Kg - dry	0.00149	0.00236	1	08/07/20 17:01	MLR	L505238
Benzo(a)anthracene	0.0282	mg/Kg - dry	0.00155	0.00236	1	08/07/20 17:01	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
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Report Date : 08/14/2020
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Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92403**

Matrix: **Solids**

Sample ID : **167SSB0704**

Sampled: **8/4/2020 14:40**

Analytical Method: 8270D SIM **Prep Batch(es):** L505071 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(a)pyrene	0.00932	mg/Kg - dry	0.000467	0.00236	1	08/07/20 17:01	MLR	L505238
Benzo(b)fluoranthene	0.0142	mg/Kg - dry	0.000484	0.00236	1	08/07/20 17:01	MLR	L505238
Benzo(g,h,i)perylene	0.0153	mg/Kg - dry	0.000812	0.00236	1	08/07/20 17:01	MLR	L505238
Benzo(k)fluoranthene	0.00340	mg/Kg - dry	0.00170	0.00236	1	08/07/20 17:01	MLR	L505238
Chrysene	0.0258	mg/Kg - dry	0.000899	0.00236	1	08/07/20 17:01	MLR	L505238
Dibenz(a,h)anthracene	<0.000979	mg/Kg - dry	0.000979	0.00236	1	08/07/20 17:01	MLR	L505238
Fluoranthene	0.0549	mg/Kg - dry	0.00185	0.00236	1	08/07/20 17:01	MLR	L505238
Fluorene	0.242	mg/Kg - dry	0.00175	0.00236	1	08/07/20 17:01	MLR	L505238
Indeno(1,2,3-cd)pyrene	0.00536	mg/Kg - dry	0.00121	0.00236	1	08/07/20 17:01	MLR	L505238
2-Methylnaphthalene	25.2	mg/Kg - dry	0.0381	0.0471	20	08/11/20 15:33	MLR	L505238
Naphthalene	29.1	mg/Kg - dry	0.0328	0.0471	20	08/11/20 15:33	MLR	L505238
Phenanthrene	0.328	mg/Kg - dry	0.00229	0.00236	1	08/07/20 17:01	MLR	L505238
Pyrene	0.106	mg/Kg - dry	0.00137	0.00236	1	08/07/20 17:01	MLR	L505238
Surrogate: 2-Fluorobiphenyl	49.9			Limits: 33-115%	20	08/11/20 15:33	MLR	L505238
Surrogate: Nitrobenzene-d5	I *			Limits: 29-110%	20	08/11/20 15:33	MLR	L505238
Surrogate: 4-Terphenyl-d14	57.1			Limits: 33-122%	20	08/11/20 15:33	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** L505693 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	3610	mg/Kg - dry	414	414	100	08/12/20 15:18	MMK	L505941
Oil Range Organics (>C28-C40)	<41.4	mg/Kg - dry	41.4	41.4	10	08/12/20 14:59	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

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Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92403**

Matrix: **Solids**

Sample ID : **167SSB0704**

Sampled: **8/4/2020 14:40**

Analytical Method: TN EPH

Prep Batch(es): **L505693** 08/11/20 10:04

Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
TN EPH (C10-C40)	3610	mg/Kg - dry	41.4	41.4	10	08/12/20 14:59		L505941
Surrogate: OTP Surrogate		137		Limits: 50-150%	10	08/12/20 14:59	MMK	L505941

**Qualifiers/
 Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
I	Recovery out of range	J	Estimated value
MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

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Memphis , TN 38134

Project

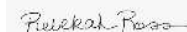
Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92404**

Matrix: **Solids**

Sample ID : **167SSB0804**

Sampled: **8/4/2020 14:55**

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Method
Moisture	11.1	%			1	08/07/20 13:51	FMM	SW-DRYWT
Arsenic	0.933	mg/Kg - dry	0.270	0.562	1	08/08/20 02:42	TJS	6010D
Barium	16.5	mg/Kg - dry	0.146	0.562	1	08/08/20 02:42	TJS	6010D
Cadmium	0.0330 J	mg/Kg - dry	0.0224	0.112	1	08/08/20 02:42	TJS	6010D
Chromium	3.50	mg/Kg - dry	0.265	0.281	1	08/08/20 02:42	TJS	6010D
Lead	3.94	mg/Kg - dry	0.202	0.337	1	08/08/20 02:42	TJS	6010D
Mercury	0.00980 J	mg/Kg - dry	0.00359	0.0163	1	08/13/20 14:29	DDB	7471A
Selenium	<0.359	mg/Kg - dry	0.359	0.562	1	08/11/20 08:43	TJS	6010D
Silver	<0.180	mg/Kg - dry	0.180	0.281	1	08/08/20 02:42	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	E	Result above cal range
J	Estimated value	L	Limit Exceeded
MLQ	Method Quantitation Limit		

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Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92404**

Matrix: **Solids**

Sample ID : **167SSB0804**

Sampled: **8/4/2020 14:55**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.044	1	08/10/20 13:23	ELM	L505699
Acetonitrile	<0.051	mg/Kg - dry	0.051	0.112	1	08/10/20 13:23	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.044	1	08/10/20 13:23	ELM	L505699
Acrylonitrile	<0.002	mg/Kg - dry	0.002	0.044	1	08/10/20 13:23	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
Bromobenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:23	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:23	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:23	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.008	mg/Kg - dry	0.008	0.044	1	08/10/20 13:23	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:23	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:23	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:23	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 13:23	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:23	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis, TN 38134

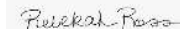
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92404**

Matrix: **Solids**

Sample ID : **167SSB0804**

Sampled: **8/4/2020 14:55**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.004	mg/Kg - dry	0.004	0.011	1	08/10/20 13:23	ELM	L505699
1,2-Dibromoethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
Dibromomethane	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:23	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
cis-1,2-Dichloroethene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,2-Dichloroethene (Total)	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23		L505699
1,2-Dichloropropane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:23	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
2,2-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
1,1-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:23	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
trans-1,3-Dichloropropene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:23	ELM	L505699
Ethyl Acetate	<0.008	mg/Kg - dry	0.008	0.044	1	08/10/20 13:23	ELM	L505699

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
Ms. Chelsey Kipper
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Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/05/2020

Rebekah Ross

Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92404**
Sample ID : **167SSB0804**

Matrix: **Solids**
Sampled: **8/4/2020 14:55**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:23	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
2-Hexanone	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 13:23	ELM	L505699
Iodomethane	<0.0009	mg/Kg - dry	0.0009	0.011	1	08/10/20 13:23	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
4-Methyl-2-Pentanone	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 13:23	ELM	L505699
Methylene Chloride	<0.006	mg/Kg - dry	0.006	0.044	1	08/10/20 13:23	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.004	1	08/10/20 13:23	ELM	L505699
Naphthalene	<0.007	mg/Kg - dry	0.007	0.011	1	08/10/20 13:23	ELM	L505699
o-Xylene	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:23	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Toluene	<0.003	mg/Kg - dry	0.003	0.011	1	08/10/20 13:23	ELM	L505699
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,1,1-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:23	ELM	L505699
1,1,2-Trichloroethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:23	ELM	L505699


Qualifiers/ Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92404**

Matrix: **Solids**

Sample ID : **167SSB0804**

Sampled: **8/4/2020 14:55**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:23	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,2,3-Trichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:23	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:23	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.044	1	08/10/20 13:23	ELM	L505699
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:23	ELM	L505699
Xylene (Total)	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 13:23		L505699
Surrogate: 4-Bromofluorobenzene	102		Limits: 60-130%		1	08/10/20 13:23	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	125		Limits: 60-132%		1	08/10/20 13:23	ELM	L505699
Surrogate: Toluene-d8	104		Limits: 70-130%		1	08/10/20 13:23	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.00102	mg/Kg - dry	0.000484	0.000753	1	08/07/20 17:22	MLR	L505238
Acenaphthylene	<0.000429	mg/Kg - dry	0.000429	0.000753	1	08/07/20 17:22	MLR	L505238
Anthracene	0.00551	mg/Kg - dry	0.000479	0.000753	1	08/07/20 17:22	MLR	L505238
Benzo(a)anthracene	0.0413	mg/Kg - dry	0.000496	0.000753	1	08/07/20 17:22	MLR	L505238
Benzo(a)pyrene	0.0371	mg/Kg - dry	0.000149	0.000753	1	08/07/20 17:22	MLR	L505238
Benzo(b)fluoranthene	0.0516	mg/Kg - dry	0.000155	0.000753	1	08/07/20 17:22	MLR	L505238
Benzo(g,h,i)perylene	0.0236	mg/Kg - dry	0.000259	0.000753	1	08/07/20 17:22	MLR	L505238

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MLQ	Method Quantitation Limit			

03180
 Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/05/2020



Report Number : **20-218-0165**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92404**
 Sample ID : **167SSB0804**

Matrix: **Solids**
 Sampled: **8/4/2020 14:55**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505071** 08/06/20 12:00
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	0.0232	mg/Kg - dry	0.000546	0.000753	1	08/07/20 17:22	MLR	L505238
Chrysene	0.0350	mg/Kg - dry	0.000287	0.000753	1	08/07/20 17:22	MLR	L505238
Dibenz(a,h)anthracene	0.00625	mg/Kg - dry	0.000313	0.000753	1	08/07/20 17:22	MLR	L505238
Fluoranthene	0.0668	mg/Kg - dry	0.000595	0.000753	1	08/07/20 17:22	MLR	L505238
Fluorene	0.00129	mg/Kg - dry	0.000563	0.000753	1	08/07/20 17:22	MLR	L505238
Indeno(1,2,3-cd)pyrene	0.0310	mg/Kg - dry	0.000386	0.000753	1	08/07/20 17:22	MLR	L505238
2-Methylnaphthalene	0.00397 B	mg/Kg - dry	0.000609	0.000753	1	08/07/20 17:22	MLR	L505238
Naphthalene	0.00325 B	mg/Kg - dry	0.000525	0.000753	1	08/07/20 17:22	MLR	L505238
Phenanthrene	0.0201	mg/Kg - dry	0.000735	0.000753	1	08/07/20 17:22	MLR	L505238
Pyrene	0.0537	mg/Kg - dry	0.000435	0.000753	1	08/07/20 17:22	MLR	L505238
Surrogate: 2-Fluorobiphenyl	45.6			Limits: 33-115%	1	08/07/20 17:22	MLR	L505238
Surrogate: Nitrobenzene-d5	38.9			Limits: 29-110%	1	08/07/20 17:22	MLR	L505238
Surrogate: 4-Terphenyl-d14	60.5			Limits: 33-122%	1	08/07/20 17:22	MLR	L505238

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	4.71	mg/Kg - dry	3.71	3.71	1	08/12/20 13:24	MMK	L505941
Oil Range Organics (>C28-C40)	10.1	mg/Kg - dry	3.71	3.71	1	08/12/20 13:24	MMK	L505941
TN EPH (C10-C40)	14.8	mg/Kg - dry	3.71	3.71	1	08/12/20 13:24		L505941
Surrogate: OTP Surrogate	82.1			Limits: 50-150%	1	08/12/20 13:24	MMK	L505941

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		E	Result above cal range
I	Recovery out of range		J	Estimated value
MQL	Method Quantitation Limit			

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505057 **QC Analytical Batch(es):** L505494,L505748,L505938
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Lab Reagent Blank LRB-L505057 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397, 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Arsenic	mg/Kg	<0.240	0.240	0.500	08/08/20 01:30
Barium	mg/Kg	<0.130	0.130	0.500	08/08/20 01:30
Cadmium	mg/Kg	<0.0200	0.0200	0.100	08/08/20 01:30
Chromium	mg/Kg	<0.236	0.236	0.250	08/08/20 01:30
Lead	mg/Kg	<0.180	0.180	0.300	08/08/20 01:30
Selenium	mg/Kg	<0.320	0.320	0.500	08/11/20 17:44
Silver	mg/Kg	<0.160	0.160	0.250	08/08/20 01:30

Laboratory Control Sample LCS-L505057

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Arsenic	mg/Kg	5.00	4.94	99.0	80-120
Barium	mg/Kg	50.0	49.0	98.0	80-120
Cadmium	mg/Kg	5.00	4.81	96.0	80-120
Chromium	mg/Kg	50.0	51.8	104	80-120
Lead	mg/Kg	5.00	4.97	99.0	80-120
Selenium	mg/Kg	5.00	4.66	93.0	80-120
Silver	mg/Kg	5.00	5.06	101	80-120

Matrix Spike & Matrix Spike Duplicate L 92389-MS-L505057 L 92389-MSD-L505057

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Arsenic	mg/Kg	5.16	4.70	4.64	9.49	8.05	92.0	62.0*	75-125	16.4	20
Barium	mg/Kg	77.9	47.0	46.4	114	97.9	77.0	43.0*	75-125	15.1	20
Cadmium	mg/Kg	0.285	4.70	4.64	2.78	3.30	53.0*	65.0*	75-125	17.1	20
Chromium	mg/Kg	12.3	47.0	46.4	42.9	43.9	65.0*	68.0*	75-125	2.3	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505057 **QC Analytical Batch(es):** L505494,L505748,L505938
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Matrix Spike & Matrix Spike Duplicate L 92389-MS-L505057 L 92389-MSD-L505057

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Lead	mg/Kg	45.7	4.70	4.64	26.1	47.0	-400*	28.0*	75-125	57.1*	20
Selenium	mg/Kg	<0.320	4.70	4.64	2.06	3.07	44.0*	66.0*	75-125	39.3*	20
Silver	mg/Kg	0.557	4.70	4.64	3.42	4.31	61.0*	81.0	75-125	23.0*	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505576 **QC Analytical Batch(es):** L505787
QC Prep Batch Method: 7471A **Analysis Method:** 7471A
Analysis Description: Solids Total Mercury Analysis - CVAA

Lab Reagent Blank LRB-L505576 Matrix: SOL
Associated Lab Samples: 92399

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/Kg	0.0190	0.00352	0.0160	08/11/20 13:26

Laboratory Control Sample LCS-L505576

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/Kg	0.400	0.430	108	80-120

Matrix Spike & Matrix Spike Duplicate E 73277-MS-L505576 E 73277-MSD-L505576

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/Kg	0.0399	0.380	0.398	0.469	0.671	113	159*	80-120	35.4*	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L506032 **QC Analytical Batch(es):** L506267
QC Prep Batch Method: 7471A **Analysis Method:** 7471A
Analysis Description: Solids Total Mercury Analysis - CVAA

Lab Reagent Blank LRB-L506032 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397, 92398, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/Kg	<0.00352	0.00352	0.0160	08/13/20 15:00

Laboratory Control Sample LCS-L506032

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/Kg	0.400	0.341	85.0	80-120

Matrix Spike & Matrix Spike Duplicate L 93207-MS-L506032 L 93207-MSD-L506032

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/Kg	0.0300	0.351	0.348	0.335	0.344	87.0	90.0	80-120	2.6	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505228 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	0.005	0.004	0.040	08/06/20 11:06		
Acetonitrile	mg/Kg	<0.045	0.045	0.100	08/06/20 11:06		
Acrolein	mg/Kg	<0.006	0.006	0.040	08/06/20 11:06		
Acrylonitrile	mg/Kg	<0.002	0.002	0.040	08/06/20 11:06		
Benzene	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
Bromobenzene	mg/Kg	<0.0008	0.0008	0.002	08/06/20 11:06		
Bromochloromethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Bromoform	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Bromomethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.007	0.007	0.040	08/06/20 11:06		
n-Butylbenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
sec-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
tert-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Carbon Disulfide	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Carbon Tetrachloride	mg/Kg	<0.0004	0.0004	0.002	08/06/20 11:06		
Chlorobenzene	mg/Kg	<0.0005	0.0005	0.002	08/06/20 11:06		
Chlorodibromomethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Chloroethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
2-Chloroethylvinyl Ether	mg/Kg	<0.005	0.005	0.010	08/06/20 11:06		
Chloroform	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Chloromethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
2-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
4-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.004	0.004	0.010	08/06/20 11:06		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
Dibromomethane	mg/Kg	<0.0005	0.0005	0.002	08/06/20 11:06		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505228 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,3-Dichlorobenzene	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
1,4-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,1-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
1,2-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
1,1-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
cis-1,2-Dichloroethene	mg/Kg	<0.0007	0.0007	0.002	08/06/20 11:06		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,2-Dichloropropane	mg/Kg	<0.0008	0.0008	0.002	08/06/20 11:06		
1,3-Dichloropropane	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
2,2-Dichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
1,1-Dichloropropene	mg/Kg	<0.0007	0.0007	0.002	08/06/20 11:06		
cis-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
trans-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
Ethyl Acetate	mg/Kg	<0.007	0.007	0.040	08/06/20 11:06		
Ethylbenzene	mg/Kg	<0.0007	0.0007	0.002	08/06/20 11:06		
Hexachlorobutadiene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
2-Hexanone	mg/Kg	<0.004	0.004	0.010	08/06/20 11:06		
Iodomethane	mg/Kg	<0.0008	0.0008	0.010	08/06/20 11:06		
Isopropylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
4-Isopropyl toluene	mg/Kg	<0.0010	0.0010	0.002	08/06/20 11:06		
4-Methyl-2-Pentanone	mg/Kg	<0.005	0.005	0.010	08/06/20 11:06		
Methylene Chloride	mg/Kg	<0.005	0.005	0.040	08/06/20 11:06		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
m,p-Xylene	mg/Kg	<0.001	0.001	0.004	08/06/20 11:06		
Naphthalene	mg/Kg	<0.006	0.006	0.010	08/06/20 11:06		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505228 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
o-Xylene	mg/Kg	<0.0004	0.0004	0.002	08/06/20 11:06		
n-Propylbenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Styrene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
Toluene	mg/Kg	<0.003	0.003	0.010	08/06/20 11:06		
1,2,3-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,2,4-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,1,1-Trichloroethane	mg/Kg	<0.0007	0.0007	0.002	08/06/20 11:06		
1,1,2-Trichloroethane	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
Trichloroethene	mg/Kg	<0.0005	0.0005	0.002	08/06/20 11:06		
Trichlorofluoromethane	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
1,2,3-Trichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/06/20 11:06		
1,2,4-Trimethylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/06/20 11:06		
1,3,5-Trimethylbenzene	mg/Kg	<0.001	0.001	0.002	08/06/20 11:06		
Vinyl Acetate	mg/Kg	<0.003	0.003	0.040	08/06/20 11:06		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.002	08/06/20 11:06		
4-Bromofluorobenzene (S)					08/06/20 11:06	106	60-130
1,2-Dichloroethane - d4 (S)					08/06/20 11:06	111	60-132
Toluene-d8 (S)					08/06/20 11:06	114	70-130

Laboratory Control Sample LCS-L505228

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetone	mg/Kg	0.200	0.218	109	40-160
Acetonitrile	mg/Kg	2.00	1.98	99.0	40-160

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505228

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acrolein	mg/Kg	0.200	0.099	49.6	40-160
Acrylonitrile	mg/Kg	0.200	0.206	103	40-160
Benzene	mg/Kg	0.200	0.168	84.0	70-130
Bromobenzene	mg/Kg	0.200	0.187	93.5	75-125
Bromochloromethane	mg/Kg	0.200	0.195	97.5	65-135
Bromodichloromethane	mg/Kg	0.200	0.194	97.0	75-125
Bromoform	mg/Kg	0.200	0.176	88.0	70-130
Bromomethane	mg/Kg	0.200	0.187	93.5	40-160
Methyl Ethyl Ketone (MEK)	mg/Kg	0.200	0.232	116	40-160
n-Butylbenzene	mg/Kg	0.200	0.238	119	70-130
sec-Butyl benzene	mg/Kg	0.200	0.190	95.0	70-130
tert-Butyl benzene	mg/Kg	0.200	0.197	98.5	70-130
Carbon Disulfide	mg/Kg	0.200	0.119	59.5	40-160
Carbon Tetrachloride	mg/Kg	0.200	0.181	90.5	65-135
Chlorobenzene	mg/Kg	0.200	0.164	82.0	80-120
Chlorodibromomethane	mg/Kg	0.200	0.192	96.0	60-140
Chloroethane	mg/Kg	0.200	0.144	72.0	60-140
2-Chloroethylvinyl Ether	mg/Kg	0.200	0.154	77.0	40-160
Chloroform	mg/Kg	0.200	0.174	87.0	80-120
Chloromethane	mg/Kg	0.200	0.176	88.0	40-160
2-Chlorotoluene	mg/Kg	0.200	0.190	95.0	75-125
4-Chlorotoluene	mg/Kg	0.200	0.205	103	75-125
1,2-Dibromo-3-Chloropropane	mg/Kg	0.200	0.218	109	50-150
1,2-Dibromoethane	mg/Kg	0.200	0.213	107	70-130
Dibromomethane	mg/Kg	0.200	0.179	89.5	75-125
1,2-Dichlorobenzene	mg/Kg	0.200	0.243	122	70-130
1,3-Dichlorobenzene	mg/Kg	0.200	0.194	97.0	75-125

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505228

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	0.200	0.240	120	75-125
Dichlorodifluoromethane	mg/Kg	0.200	0.099	49.9	40-160
1,1-Dichloroethane	mg/Kg	0.200	0.160	80.0	70-130
1,2-Dichloroethane	mg/Kg	0.200	0.179	89.5	70-130
1,1-Dichloroethene	mg/Kg	0.200	0.192	96.0	80-120
cis-1,2-Dichloroethene	mg/Kg	0.200	0.175	87.5	70-130
trans-1,2-Dichloroethene	mg/Kg	0.200	0.159	79.5	60-140
1,2-Dichloropropane	mg/Kg	0.200	0.205	103	80-120
1,3-Dichloropropane	mg/Kg	0.200	0.201	101	75-125
2,2-Dichloropropane	mg/Kg	0.200	0.183	91.5	70-130
1,1-Dichloropropene	mg/Kg	0.200	0.183	91.5	75-125
cis-1,3-Dichloropropene	mg/Kg	0.200	0.173	86.5	70-130
trans-1,3-Dichloropropene	mg/Kg	0.200	0.184	92.0	55-145
Ethyl Acetate	mg/Kg	0.200	0.137	68.5	40-160
Ethylbenzene	mg/Kg	0.200	0.187	93.5	80-120
Hexachlorobutadiene	mg/Kg	0.200	0.286	143	50-150
2-Hexanone	mg/Kg	0.200	0.213	107	55-145
Iodomethane	mg/Kg	0.200	0.116	58.0	40-160
Isopropylbenzene	mg/Kg	0.200	0.188	94.0	75-125
4-Isopropyl toluene	mg/Kg	0.200	0.200	100	75-125
4-Methyl-2-Pentanone	mg/Kg	0.200	0.211	106	60-140
Methylene Chloride	mg/Kg	0.200	0.171	85.5	55-145
Methyl tert-butyl ether (MTBE)	mg/Kg	0.200	0.172	86.0	65-135
m,p-Xylene	mg/Kg	0.400	0.360	90.0	75-125
Naphthalene	mg/Kg	0.200	0.189	94.5	55-145
o-Xylene	mg/Kg	0.200	0.181	90.5	70-130
n-Propylbenzene	mg/Kg	0.200	0.190	95.0	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505228

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Styrene	mg/Kg	0.200	0.180	90.0	65-135
1,1,1,2-Tetrachloroethane	mg/Kg	0.200	0.169	84.5	70-130
1,1,2,2-Tetrachloroethane	mg/Kg	0.200	0.250	125	65-135
Tetrachloroethene	mg/Kg	0.200	0.186	93.0	45-155
Toluene	mg/Kg	0.200	0.192	96.0	80-120
1,2,3-Trichlorobenzene	mg/Kg	0.200	0.200	100	60-140
1,2,4-Trichlorobenzene	mg/Kg	0.200	0.252	126	65-135
1,1,1-Trichloroethane	mg/Kg	0.200	0.178	89.0	65-135
1,1,2-Trichloroethane	mg/Kg	0.200	0.193	96.5	75-125
Trichloroethene	mg/Kg	0.200	0.203	102	70-130
Trichlorofluoromethane	mg/Kg	0.200	0.187	93.5	60-140
1,2,3-Trichloropropane	mg/Kg	0.200	0.207	104	75-125
1,2,4-Trimethylbenzene	mg/Kg	0.200	0.180	90.0	75-125
1,3,5-Trimethylbenzene	mg/Kg	0.200	0.190	95.0	75-125
Vinyl Acetate	mg/Kg	0.200	0.211	106	40-160
Vinyl Chloride	mg/Kg	0.200	0.172	86.0	80-120
4-Bromofluorobenzene (S)				98.2	60-130
1,2-Dichloroethane - d4 (S)				103	60-132
Toluene-d8 (S)				109	70-130

Matrix Spike & Matrix Spike Duplicate L 98543-MS-L505228 L 98543-MSD-L505228

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetone	mg/Kg	<0.022	0.962	0.901	0.943	1.22	98.0	135	40-160	25.6	30
Acetonitrile	mg/Kg	<0.218	9.62	9.01	11.7	10.5	122	117	40-160	10.8	30
Acrolein	mg/Kg	<0.030	0.962	0.901	0.282	0.295	29.3*	32.7*	40-160	4.5	30

* QC Fail

Date: 08/14/2020 08:02 AM

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Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 98543-MS-L505228 L 98543-MSD-L505228

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acrylonitrile	mg/Kg	<0.012	0.962	0.901	0.901	0.931	93.6	103	40-160	3.2	30
Benzene	mg/Kg	<0.002	0.962	0.901	0.940	0.837	97.7	92.8	70-130	11.5	30
Bromobenzene	mg/Kg	<0.003	0.962	0.901	0.929	0.612	96.5	67.9*	75-125	41.1*	30
Bromochloromethane	mg/Kg	<0.006	0.962	0.901	1.11	0.878	115	97.4	65-135	23.3	30
Bromodichloromethane	mg/Kg	<0.009	0.962	0.901	0.990	0.951	103	106	75-125	4.0	30
Bromoform	mg/Kg	<0.008	0.962	0.901	0.831	0.705	86.3	78.2	70-130	16.4	30
Bromomethane	mg/Kg	<0.006	0.962	0.901	0.972	0.785	101	87.1	40-160	21.2	30
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.037	0.962	0.901	0.962	1.07	100	119	40-160	10.6	30
n-Butylbenzene	mg/Kg	<0.006	0.962	0.901	0.840	0.596	87.3	66.1*	70-130	33.9*	30
sec-Butyl benzene	mg/Kg	<0.006	0.962	0.901	0.901	0.549	93.6	60.9*	70-130	48.5*	30
tert-Butyl benzene	mg/Kg	<0.004	0.962	0.901	0.920	0.532	95.6	59.0*	70-130	53.4*	30
Carbon Disulfide	mg/Kg	<0.004	0.962	0.901	0.669	0.604	69.5	67.0	40-160	10.2	30
Carbon Tetrachloride	mg/Kg	<0.002	0.962	0.901	0.997	0.893	104	99.1	65-135	11.0	30
Chlorobenzene	mg/Kg	<0.002	0.962	0.901	0.855	0.634	88.8	70.3*	80-120	29.6	30
Chlorodibromomethane	mg/Kg	<0.009	0.962	0.901	0.893	0.869	92.8	96.4	60-140	2.7	30
Chloroethane	mg/Kg	<0.005	0.962	0.901	0.515	0.741	53.5*	82.2	60-140	35.9*	30
2-Chloroethylvinyl Ether	mg/Kg	<0.026	0.962	0.901	0.675	0.348	70.1	38.6*	40-160	63.9*	30
Chloroform	mg/Kg	<0.009	0.962	0.901	0.958	0.912	99.5	101	80-120	4.9	30
Chloromethane	mg/Kg	<0.004	0.962	0.901	0.708	0.721	73.5	80.0	40-160	1.8	30
2-Chlorotoluene	mg/Kg	<0.005	0.962	0.901	0.864	0.607	89.8	67.3*	75-125	34.9*	30
4-Chlorotoluene	mg/Kg	<0.006	0.962	0.901	0.953	0.545	99.0	60.4*	75-125	54.4*	30
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.020	0.962	0.901	0.968	0.938	101	104	50-150	3.1	30
1,2-Dibromoethane	mg/Kg	<0.002	0.962	0.901	0.939	0.879	97.6	97.5	70-130	6.6	30
Dibromomethane	mg/Kg	<0.002	0.962	0.901	0.812	0.765	84.4	84.9	75-125	5.9	30
1,2-Dichlorobenzene	mg/Kg	<0.005	0.962	0.901	0.971	0.739	101	82.0	70-130	27.1	30
1,3-Dichlorobenzene	mg/Kg	<0.004	0.962	0.901	1.11	0.552	115	61.2*	75-125	67.1*	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 98543-MS-L505228 L 98543-MSD-L505228

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	<0.006	0.962	0.901	0.949	0.619	98.6	68.7*	75-125	42.0*	30
Dichlorodifluoromethane	mg/Kg	<0.006	0.962	0.901	0.326	0.300	33.8*	33.2*	40-160	8.3	30
1,1-Dichloroethane	mg/Kg	<0.004	0.962	0.901	0.917	0.867	95.3	96.2	70-130	5.6	30
1,2-Dichloroethane	mg/Kg	<0.004	0.962	0.901	1.02	1.06	106	118	70-130	3.8	30
1,1-Dichloroethene	mg/Kg	<0.004	0.962	0.901	0.805	0.780	83.6	86.5	80-120	3.1	30
cis-1,2-Dichloroethene	mg/Kg	<0.003	0.962	0.901	0.695	0.618	72.2	68.5*	70-130	11.7	30
trans-1,2-Dichloroethene	mg/Kg	<0.005	0.962	0.901	0.870	0.775	90.4	86.0	60-140	11.5	30
1,2-Dichloropropane	mg/Kg	<0.003	0.962	0.901	1.07	1.02	111	113	80-120	4.7	30
1,3-Dichloropropane	mg/Kg	<0.004	0.962	0.901	0.906	0.934	94.1	104	75-125	3.0	30
2,2-Dichloropropane	mg/Kg	<0.003	0.962	0.901	1.03	0.968	107	107	70-130	6.2	30
1,1-Dichloropropene	mg/Kg	<0.003	0.962	0.901	0.978	0.890	102	98.7	75-125	9.4	30
cis-1,3-Dichloropropene	mg/Kg	<0.002	0.962	0.901	0.857	0.817	89.0	90.6	70-130	4.7	30
trans-1,3-Dichloropropene	mg/Kg	<0.002	0.962	0.901	0.845	0.748	87.8	83.0	55-145	12.1	30
Ethyl Acetate	mg/Kg	<0.036	0.962	0.901	0.582	0.527	60.4	58.4	40-160	9.9	30
Ethylbenzene	mg/Kg	<0.003	0.962	0.901	0.898	0.693	93.3	76.9*	80-120	25.7	30
Hexachlorobutadiene	mg/Kg	<0.005	0.962	0.901	0.848	0.521	88.1	57.8	50-150	47.7*	30
2-Hexanone	mg/Kg	<0.024	0.962	0.901	0.870	0.909	90.4	101	55-145	4.3	30
Iodomethane	mg/Kg	<0.003	0.962	0.901	0.628	0.601	65.2	66.7	40-160	4.3	30
Isopropylbenzene	mg/Kg	<0.004	0.962	0.901	0.924	0.639	96.0	70.9*	75-125	36.4*	30
4-Isopropyl toluene	mg/Kg	<0.004	0.962	0.901	0.848	0.537	88.1	59.6*	75-125	44.9*	30
4-Methyl-2-Pentanone	mg/Kg	<0.025	0.962	0.901	0.873	1.04	90.7	115	60-140	17.4	30
Methylene Chloride	mg/Kg	<0.027	0.962	0.901	0.908	0.884	94.3	98.1	55-145	2.6	30
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.007	0.962	0.901	0.857	0.874	89.0	97.0	65-135	1.9	30
m,p-Xylene	mg/Kg	<0.005	1.92	1.80	1.74	1.30	90.6	72.2*	75-125	28.9	30
Naphthalene	mg/Kg	<0.032	0.962	0.901	0.659	0.522	68.5	57.9	55-145	23.2	30
o-Xylene	mg/Kg	<0.002	0.962	0.901	0.857	0.636	89.0	70.5	70-130	29.6	30

* QC Fail

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505228 **QC Analytical Batch(es):** L505241
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 98543-MS-L505228 L 98543-MSD-L505228

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	<0.004	0.962	0.901	0.860	0.605	89.3	67.1*	70-130	34.8*	30
Styrene	mg/Kg	<0.007	0.962	0.901	0.804	0.566	83.5	62.8*	65-135	34.7*	30
1,1,1,2-Tetrachloroethane	mg/Kg	<0.004	0.962	0.901	0.886	0.717	92.0	79.5	70-130	21.0	30
1,1,2,2-Tetrachloroethane	mg/Kg	<0.007	0.962	0.901	1.07	1.10	111	122	65-135	2.7	30
Tetrachloroethene	mg/Kg	<0.004	0.962	0.901	0.879	0.783	91.3	86.9	60-155	11.5	30
Toluene	mg/Kg	<0.016	0.962	0.901	0.941	0.946	97.8	105	80-120	0.5	30
1,2,3-Trichlorobenzene	mg/Kg	<0.007	0.962	0.901	0.565	0.358	58.7*	39.7*	60-140	44.8*	30
1,2,4-Trichlorobenzene	mg/Kg	<0.005	0.962	0.901	0.712	0.439	74.0	48.7*	65-135	47.4*	30
1,1,1-Trichloroethane	mg/Kg	<0.003	0.962	0.901	0.992	0.948	103	105	65-135	4.5	30
1,1,2-Trichloroethane	mg/Kg	<0.002	0.962	0.901	0.831	0.867	86.3	96.2	75-125	4.2	30
Trichloroethene	mg/Kg	<0.002	0.962	0.901	1.08	0.959	112	106	70-130	11.8	30
Trichlorofluoromethane	mg/Kg	<0.005	0.962	0.901	0.916	0.871	95.2	96.6	60-140	5.0	30
1,2,3-Trichloropropane	mg/Kg	<0.002	0.962	0.901	0.911	0.793	94.6	88.0	75-125	13.8	30
1,2,4-Trimethylbenzene	mg/Kg	<0.004	0.962	0.901	0.835	0.545	86.7	60.4*	75-125	42.0*	30
1,3,5-Trimethylbenzene	mg/Kg	<0.006	0.962	0.901	0.834	0.585	86.6	64.9*	75-125	35.0*	30
Vinyl Acetate	mg/Kg	<0.018	0.962	0.901	0.872	0.782	90.6	86.7	40-160	10.8	30
Vinyl Chloride	mg/Kg	<0.002	0.962	0.901	0.771	0.731	80.1	81.1	80-120	5.3	30
4-Bromofluorobenzene (S)							93.5	88.4	60-130		
1,2-Dichloroethane - d4 (S)							100	103	60-132		
Toluene-d8 (S)							108	120	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	<0.004	0.004	0.040	08/10/20 09:43		
Acetonitrile	mg/Kg	<0.045	0.045	0.100	08/10/20 09:43		
Acrolein	mg/Kg	<0.006	0.006	0.040	08/10/20 09:43		
Acrylonitrile	mg/Kg	<0.002	0.002	0.040	08/10/20 09:43		
Benzene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Bromobenzene	mg/Kg	<0.0008	0.0008	0.002	08/10/20 09:43		
Bromochloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromoform	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromomethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.007	0.007	0.040	08/10/20 09:43		
n-Butylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
sec-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
tert-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Carbon Disulfide	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Carbon Tetrachloride	mg/Kg	<0.0004	0.0004	0.002	08/10/20 09:43		
Chlorobenzene	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
Chlorodibromomethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Chloroethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Chloroethylvinyl Ether	mg/Kg	<0.005	0.005	0.010	08/10/20 09:43		
Chloroform	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Chloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
4-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.004	0.004	0.010	08/10/20 09:43		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Dibromomethane	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,3-Dichlorobenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,4-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,2-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,1-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
cis-1,2-Dichloroethene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2-Dichloropropane	mg/Kg	<0.0008	0.0008	0.002	08/10/20 09:43		
1,3-Dichloropropane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
2,2-Dichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
1,1-Dichloropropene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
cis-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
trans-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Ethyl Acetate	mg/Kg	<0.007	0.007	0.040	08/10/20 09:43		
Ethylbenzene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
Hexachlorobutadiene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Hexanone	mg/Kg	<0.004	0.004	0.010	08/10/20 09:43		
Iodomethane	mg/Kg	<0.0008	0.0008	0.010	08/10/20 09:43		
Isopropylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
4-Isopropyl toluene	mg/Kg	<0.0010	0.0010	0.002	08/10/20 09:43		
4-Methyl-2-Pentanone	mg/Kg	<0.005	0.005	0.010	08/10/20 09:43		
Methylene Chloride	mg/Kg	<0.005	0.005	0.040	08/10/20 09:43		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
m,p-Xylene	mg/Kg	<0.001	0.001	0.004	08/10/20 09:43		
Naphthalene	mg/Kg	<0.006	0.006	0.010	08/10/20 09:43		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
o-Xylene	mg/Kg	<0.0004	0.0004	0.002	08/10/20 09:43		
n-Propylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Styrene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
Toluene	mg/Kg	<0.003	0.003	0.010	08/10/20 09:43		
1,2,3-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2,4-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1,1-Trichloroethane	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
1,1,2-Trichloroethane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Trichloroethene	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
Trichlorofluoromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2,3-Trichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
1,2,4-Trimethylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,3,5-Trimethylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Vinyl Acetate	mg/Kg	<0.003	0.003	0.040	08/10/20 09:43		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
4-Bromofluorobenzene (S)					08/10/20 09:43	104	60-130
1,2-Dichloroethane - d4 (S)					08/10/20 09:43	129	60-132
Toluene-d8 (S)					08/10/20 09:43	106	70-130

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetone	mg/Kg	0.200	0.191	95.5	40-160
Acetonitrile	mg/Kg	2.00	1.76	88.0	40-160

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acrolein	mg/Kg	0.200	0.179	89.5	40-160
Acrylonitrile	mg/Kg	0.200	0.201	101	40-160
Benzene	mg/Kg	0.200	0.186	93.0	70-130
Bromobenzene	mg/Kg	0.200	0.166	83.0	75-125
Bromochloromethane	mg/Kg	0.200	0.182	91.0	65-135
Bromodichloromethane	mg/Kg	0.200	0.172	86.0	75-125
Bromoform	mg/Kg	0.200	0.177	88.5	70-130
Bromomethane	mg/Kg	0.200	0.224	112	40-160
Methyl Ethyl Ketone (MEK)	mg/Kg	0.200	0.179	89.5	40-160
n-Butylbenzene	mg/Kg	0.200	0.178	89.0	70-130
sec-Butyl benzene	mg/Kg	0.200	0.184	92.0	70-130
tert-Butyl benzene	mg/Kg	0.200	0.188	94.0	70-130
Carbon Disulfide	mg/Kg	0.200	0.172	86.0	40-160
Carbon Tetrachloride	mg/Kg	0.200	0.187	93.5	65-135
Chlorobenzene	mg/Kg	0.200	0.174	87.0	80-120
Chlorodibromomethane	mg/Kg	0.200	0.180	90.0	60-140
Chloroethane	mg/Kg	0.200	0.168	84.0	60-140
2-Chloroethylvinyl Ether	mg/Kg	0.200	0.166	83.0	40-160
Chloroform	mg/Kg	0.200	0.190	95.0	80-120
Chloromethane	mg/Kg	0.200	0.183	91.5	40-160
2-Chlorotoluene	mg/Kg	0.200	0.181	90.5	75-125
4-Chlorotoluene	mg/Kg	0.200	0.175	87.5	75-125
1,2-Dibromo-3-Chloropropane	mg/Kg	0.200	0.166	83.0	50-150
1,2-Dibromoethane	mg/Kg	0.200	0.160	80.0	70-130
Dibromomethane	mg/Kg	0.200	0.164	82.0	75-125
1,2-Dichlorobenzene	mg/Kg	0.200	0.160	80.0	70-130
1,3-Dichlorobenzene	mg/Kg	0.200	0.158	79.0	75-125

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	0.200	0.171	85.5	75-125
Dichlorodifluoromethane	mg/Kg	0.200	0.120	60.0	40-160
1,1-Dichloroethane	mg/Kg	0.200	0.193	96.5	70-130
1,2-Dichloroethane	mg/Kg	0.200	0.193	96.5	70-130
1,1-Dichloroethene	mg/Kg	0.200	0.174	87.0	80-120
cis-1,2-Dichloroethene	mg/Kg	0.200	0.192	96.0	70-130
trans-1,2-Dichloroethene	mg/Kg	0.200	0.171	85.5	60-140
1,2-Dichloropropane	mg/Kg	0.200	0.181	90.5	80-120
1,3-Dichloropropane	mg/Kg	0.200	0.166	83.0	75-125
2,2-Dichloropropane	mg/Kg	0.200	0.204	102	70-130
1,1-Dichloropropene	mg/Kg	0.200	0.192	96.0	75-125
cis-1,3-Dichloropropene	mg/Kg	0.200	0.171	85.5	70-130
trans-1,3-Dichloropropene	mg/Kg	0.200	0.174	87.0	55-145
Ethyl Acetate	mg/Kg	0.200	0.179	89.5	40-160
Ethylbenzene	mg/Kg	0.200	0.185	92.5	80-120
Hexachlorobutadiene	mg/Kg	0.200	0.173	86.5	50-150
2-Hexanone	mg/Kg	0.200	0.166	83.0	55-145
Iodomethane	mg/Kg	0.200	0.160	80.0	40-160
Isopropylbenzene	mg/Kg	0.200	0.182	91.0	75-125
4-Isopropyl toluene	mg/Kg	0.200	0.174	87.0	75-125
4-Methyl-2-Pentanone	mg/Kg	0.200	0.166	83.0	60-140
Methylene Chloride	mg/Kg	0.200	0.176	88.0	55-145
Methyl tert-butyl ether (MTBE)	mg/Kg	0.200	0.181	90.5	65-135
m,p-Xylene	mg/Kg	0.400	0.353	88.2	75-125
Naphthalene	mg/Kg	0.200	0.156	78.0	55-145
o-Xylene	mg/Kg	0.200	0.179	89.5	70-130
n-Propylbenzene	mg/Kg	0.200	0.174	87.0	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Styrene	mg/Kg	0.200	0.198	99.0	65-135
1,1,1,2-Tetrachloroethane	mg/Kg	0.200	0.165	82.5	70-130
1,1,2,2-Tetrachloroethane	mg/Kg	0.200	0.147	73.5	65-135
Tetrachloroethene	mg/Kg	0.200	0.179	89.5	45-155
Toluene	mg/Kg	0.200	0.167	83.5	80-120
1,2,3-Trichlorobenzene	mg/Kg	0.200	0.155	77.5	60-140
1,2,4-Trichlorobenzene	mg/Kg	0.200	0.158	79.0	65-135
1,1,1-Trichloroethane	mg/Kg	0.200	0.194	97.0	65-135
1,1,2-Trichloroethane	mg/Kg	0.200	0.172	86.0	75-125
Trichloroethene	mg/Kg	0.200	0.187	93.5	70-130
Trichlorofluoromethane	mg/Kg	0.200	0.224	112	60-140
1,2,3-Trichloropropane	mg/Kg	0.200	0.177	88.5	75-125
1,2,4-Trimethylbenzene	mg/Kg	0.200	0.194	97.0	75-125
1,3,5-Trimethylbenzene	mg/Kg	0.200	0.168	84.0	75-125
Vinyl Acetate	mg/Kg	0.200	0.196	98.0	40-160
Vinyl Chloride	mg/Kg	0.200	0.208	104	80-120
4-Bromofluorobenzene (S)				96.2	60-130
1,2-Dichloroethane - d4 (S)				88.8	60-132
Toluene-d8 (S)				98.6	70-130

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetone	mg/Kg	0.011	0.204	0.200	0.192	0.191	94.1	95.5	40-160	0.5	30
Acetonitrile	mg/Kg	<0.046	2.04	2.00	1.84	2.17	90.1	109	40-160	16.4	30
Acrolein	mg/Kg	<0.006	0.204	0.200	0.011	0.154	0.0*	77.0	40-160	117*	30

* QC Fail

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Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acrylonitrile	mg/Kg	<0.002	0.204	0.200	0.206	0.203	101	102	40-160	1.4	30
Benzene	mg/Kg	<0.0006	0.204	0.200	0.155	0.182	75.9	91.0	70-130	16.0	30
Bromobenzene	mg/Kg	<0.0008	0.204	0.200	0.088	0.155	43.1*	77.5	75-125	55.1*	30
Bromochloromethane	mg/Kg	<0.001	0.204	0.200	0.166	0.172	81.3	86.0	65-135	3.5	30
Bromodichloromethane	mg/Kg	<0.001	0.204	0.200	0.150	0.191	73.5*	95.5	75-125	24.0	30
Bromoform	mg/Kg	<0.001	0.204	0.200	0.149	0.193	73.0	96.5	70-130	25.7	30
Bromomethane	mg/Kg	0.002	0.204	0.200	0.201	0.184	97.2	90.6	40-160	8.8	30
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.007	0.204	0.200	0.186	0.210	91.1	105	40-160	12.1	30
n-Butylbenzene	mg/Kg	<0.001	0.204	0.200	0.075	0.157	37.1*	78.5	70-130	69.8*	30
sec-Butyl benzene	mg/Kg	0.002	0.204	0.200	0.086	0.163	40.9*	80.0	70-130	61.3*	30
tert-Butyl benzene	mg/Kg	<0.001	0.204	0.200	0.089	0.158	43.6*	79.0	70-130	55.7*	30
Carbon Disulfide	mg/Kg	<0.001	0.204	0.200	0.121	0.137	59.3	68.5	40-160	12.4	30
Carbon Tetrachloride	mg/Kg	<0.0004	0.204	0.200	0.139	0.179	68.1	89.5	65-135	25.1	30
Chlorobenzene	mg/Kg	<0.0005	0.204	0.200	0.122	0.178	59.8*	89.0	80-120	37.3*	30
Chlorodibromomethane	mg/Kg	<0.001	0.204	0.200	0.159	0.198	77.9	99.0	60-140	21.8	30
Chloroethane	mg/Kg	<0.001	0.204	0.200	0.150	0.164	73.5	82.0	60-140	8.9	30
2-Chloroethylvinyl Ether	mg/Kg	<0.005	0.204	0.200	0.159	0.202	77.9	101	40-160	23.8	30
Chloroform	mg/Kg	0.002	0.204	0.200	0.168	0.200	81.0	98.6	80-120	17.3	30
Chloromethane	mg/Kg	<0.001	0.204	0.200	0.137	0.143	67.1	71.5	40-160	4.2	30
2-Chlorotoluene	mg/Kg	<0.001	0.204	0.200	0.105	0.180	51.4*	90.0	75-125	52.6*	30
4-Chlorotoluene	mg/Kg	<0.001	0.204	0.200	0.093	0.159	45.9*	79.5	75-125	51.6*	30
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.004	0.204	0.200	0.150	0.187	73.5	93.5	50-150	21.9	30
1,2-Dibromoethane	mg/Kg	<0.0006	0.204	0.200	0.145	0.177	71.0	88.5	70-130	19.8	30
Dibromomethane	mg/Kg	<0.0005	0.204	0.200	0.160	0.183	78.4	91.5	75-125	13.4	30
1,2-Dichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.089	0.156	43.8*	78.0	70-130	54.2*	30
1,3-Dichlorobenzene	mg/Kg	0.001	0.204	0.200	0.096	0.158	47.0*	79.0	75-125	48.8*	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.094	0.167	46.0*	83.5	75-125	55.9*	30
Dichlorodifluoromethane	mg/Kg	<0.001	0.204	0.200	0.072	0.073	35.3*	36.5*	40-160	1.2	30
1,1-Dichloroethane	mg/Kg	<0.0009	0.204	0.200	0.159	0.185	77.9	92.5	70-130	15.1	30
1,2-Dichloroethane	mg/Kg	0.028	0.204	0.200	0.238	0.234	103	103	70-130	1.6	30
1,1-Dichloroethene	mg/Kg	<0.001	0.204	0.200	0.132	0.148	64.7*	74.0*	80-120	11.4	30
cis-1,2-Dichloroethene	mg/Kg	<0.0007	0.204	0.200	0.169	0.192	82.8	96.0	70-130	12.7	30
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.204	0.200	0.140	0.158	68.6	79.0	60-140	12.0	30
1,2-Dichloropropane	mg/Kg	<0.0008	0.204	0.200	0.157	0.195	76.9*	97.5	80-120	21.5	30
1,3-Dichloropropane	mg/Kg	<0.0010	0.204	0.200	0.161	0.184	78.9	92.0	75-125	13.3	30
2,2-Dichloropropane	mg/Kg	<0.0006	0.204	0.200	0.152	0.187	74.5	93.5	70-130	20.6	30
1,1-Dichloropropene	mg/Kg	0.010	0.204	0.200	0.141	0.180	64.0*	84.8	75-125	24.2	30
cis-1,3-Dichloropropene	mg/Kg	<0.0006	0.204	0.200	0.154	0.194	75.4	97.0	70-130	22.9	30
trans-1,3-Dichloropropene	mg/Kg	<0.0006	0.204	0.200	0.152	0.193	74.5	96.5	55-145	23.7	30
Ethyl Acetate	mg/Kg	<0.007	0.204	0.200	0.185	0.209	90.6	105	40-160	12.1	30
Ethylbenzene	mg/Kg	0.001	0.204	0.200	0.104	0.173	50.9*	86.5	80-120	49.8*	30
Hexachlorobutadiene	mg/Kg	<0.001	0.204	0.200	0.073	0.147	36.2*	73.5	50-150	66.1*	30
2-Hexanone	mg/Kg	<0.005	0.204	0.200	0.163	0.204	79.9	102	55-145	22.3	30
Iodomethane	mg/Kg	<0.0008	0.204	0.200	0.134	0.118	65.6	59.0	40-160	12.6	30
Isopropylbenzene	mg/Kg	<0.0009	0.204	0.200	0.092	0.176	45.2*	88.0	75-125	62.2*	30
4-Isopropyl toluene	mg/Kg	<0.0010	0.204	0.200	0.085	0.165	41.7*	82.5	75-125	63.8*	30
4-Methyl-2-Pentanone	mg/Kg	<0.005	0.204	0.200	0.159	0.200	77.9	100	60-140	22.8	30
Methylene Chloride	mg/Kg	<0.005	0.204	0.200	0.158	0.164	77.4	82.0	55-145	3.7	30
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.001	0.204	0.200	0.160	0.192	78.4	96.0	65-135	18.1	30
m,p-Xylene	mg/Kg	0.005	0.407	0.401	0.218	0.347	52.2*	85.2	75-125	45.6*	30
Naphthalene	mg/Kg	0.009	0.204	0.200	0.089	0.170	43.6*	85.0	55-145	62.5*	30
o-Xylene	mg/Kg	0.001	0.204	0.200	0.121	0.170	59.3*	85.0	70-130	33.6*	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	<0.001	0.204	0.200	0.086	0.155	42.2*	77.5	70-130	57.0*	30
Styrene	mg/Kg	<0.001	0.204	0.200	0.116	0.196	56.8*	98.0	65-135	51.2*	30
1,1,1,2-Tetrachloroethane	mg/Kg	<0.0010	0.204	0.200	0.133	0.163	65.1*	81.5	70-130	20.2	30
1,1,2,2-Tetrachloroethane	mg/Kg	<0.001	0.204	0.200	0.135	0.165	66.1	82.5	65-135	20.0	30
Tetrachloroethene	mg/Kg	<0.0009	0.204	0.200	0.107	0.179	52.4*	89.5	60-155	50.3*	30
Toluene	mg/Kg	<0.003	0.204	0.200	0.142	0.180	69.6*	90.0	80-120	23.6	30
1,2,3-Trichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.067	0.139	33.1*	69.5	60-140	68.9*	30
1,2,4-Trichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.068	0.129	33.6*	64.5*	65-135	61.1*	30
1,1,1-Trichloroethane	mg/Kg	<0.0007	0.204	0.200	0.152	0.189	74.5	94.5	65-135	21.7	30
1,1,2-Trichloroethane	mg/Kg	0.0007	0.204	0.200	0.160	0.201	78.4	101	75-125	22.7	30
Trichloroethene	mg/Kg	<0.0005	0.204	0.200	0.141	0.182	69.1*	91.0	70-130	25.3	30
Trichlorofluoromethane	mg/Kg	<0.001	0.204	0.200	0.190	0.214	93.1	107	60-140	11.8	30
1,2,3-Trichloropropane	mg/Kg	<0.0006	0.204	0.200	0.145	0.183	71.0*	91.5	75-125	23.1	30
1,2,4-Trimethylbenzene	mg/Kg	0.003	0.204	0.200	0.092	0.179	43.7*	87.9	75-125	63.8*	30
1,3,5-Trimethylbenzene	mg/Kg	<0.001	0.204	0.200	0.085	0.153	42.0*	76.5	75-125	56.3*	30
Vinyl Acetate	mg/Kg	<0.003	0.204	0.200	0.177	0.193	86.7	96.5	40-160	8.6	30
Vinyl Chloride	mg/Kg	<0.0005	0.204	0.200	0.173	0.170	84.8	85.0	80-120	1.7	30
4-Bromofluorobenzene (S)							101	98.4	60-130		
1,2-Dichloroethane - d4 (S)							104	99.0	60-132		
Toluene-d8 (S)							108	108	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505913 **QC Analytical Batch(es):** L505929
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505913 Matrix: SOL
 Associated Lab Samples: 92403

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Ethylbenzene	mg/Kg	<0.049	0.049	0.200	08/11/20 14:50		
m,p-Xylene	mg/Kg	<0.059	0.059	0.400	08/11/20 14:50		
1,2,4-Trimethylbenzene	mg/Kg	<0.039	0.039	0.200	08/11/20 14:50		
4-Bromofluorobenzene (S)					08/11/20 14:50	89.8	50-150
1,2-Dichloroethane - d4 (S)					08/11/20 14:50	97.4	50-150
Toluene-d8 (S)					08/11/20 14:50	80.3	50-150

Laboratory Control Sample & LCSD LCS-L505913 LCSD-L505913

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Ethylbenzene	mg/Kg	20.0	21.0	19.5	105	97.5	60-140	7.4	30
m,p-Xylene	mg/Kg	40.0	39.0	38.4	97.5	96.0	60-140	1.5	30
1,2,4-Trimethylbenzene	mg/Kg	20.0	20.0	17.9	100	89.5	60-140	11.0	30
4-Bromofluorobenzene (S)					94.8	89.7	50-150		
1,2-Dichloroethane - d4 (S)					97.4	83.8	50-150		
Toluene-d8 (S)					93.4	85.6	50-150		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505071 **QC Analytical Batch(es):** L505238
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Lab Reagent Blank LRB-L505071 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397, 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/Kg	<0.000431	0.000431	0.000670	08/07/20 12:43		
Acenaphthylene	mg/Kg	<0.000382	0.000382	0.000670	08/07/20 12:43		
Anthracene	mg/Kg	<0.000426	0.000426	0.000670	08/07/20 12:43		
Benzo(a)anthracene	mg/Kg	<0.000441	0.000441	0.000670	08/07/20 12:43		
Benzo(a)pyrene	mg/Kg	<0.000133	0.000133	0.000670	08/07/20 12:43		
Benzo(b)fluoranthene	mg/Kg	<0.000138	0.000138	0.000670	08/07/20 12:43		
Benzo(g,h,i)perylene	mg/Kg	<0.000231	0.000231	0.000670	08/07/20 12:43		
Benzo(k)fluoranthene	mg/Kg	<0.000486	0.000486	0.000670	08/07/20 12:43		
Chrysene	mg/Kg	<0.000256	0.000256	0.000670	08/07/20 12:43		
Dibenz(a,h)anthracene	mg/Kg	<0.000279	0.000279	0.000670	08/07/20 12:43		
Fluoranthene	mg/Kg	<0.000529	0.000529	0.000670	08/07/20 12:43		
Fluorene	mg/Kg	<0.000501	0.000501	0.000670	08/07/20 12:43		
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.000344	0.000344	0.000670	08/07/20 12:43		
2-Methylnaphthalene	mg/Kg	0.000544	0.000542	0.000670	08/07/20 12:43		
Naphthalene	mg/Kg	0.000529	0.000467	0.000670	08/07/20 12:43		
Phenanthrene	mg/Kg	<0.000654	0.000654	0.000670	08/07/20 12:43		
Pyrene	mg/Kg	<0.000387	0.000387	0.000670	08/07/20 12:43		
2-Fluorobiphenyl (S)					08/07/20 12:43	48.3	33-115
Nitrobenzene-d5 (S)					08/07/20 12:43	44.1	29-110
4-Terphenyl-d14 (S)					08/07/20 12:43	68.1	33-122

Laboratory Control Sample LCS-L505071

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	mg/Kg	0.167	0.105	62.8	30-130
Acenaphthylene	mg/Kg	0.167	0.114	68.2	30-130
Anthracene	mg/Kg	0.167	0.127	76.0	30-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505071 **QC Analytical Batch(es):** L505238
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Laboratory Control Sample LCS-L505071

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Benzo(a)anthracene	mg/Kg	0.167	0.126	75.4	30-130
Benzo(a)pyrene	mg/Kg	0.167	0.114	68.2	30-130
Benzo(b)fluoranthene	mg/Kg	0.167	0.170	102	30-130
Benzo(g,h,i)perylene	mg/Kg	0.167	0.177	106	30-130
Benzo(k)fluoranthene	mg/Kg	0.167	0.196	117	30-130
Chrysene	mg/Kg	0.167	0.126	75.4	30-130
Dibenz(a,h)anthracene	mg/Kg	0.167	0.161	96.4	30-130
Fluoranthene	mg/Kg	0.167	0.143	85.6	30-130
Fluorene	mg/Kg	0.167	0.115	68.8	30-130
Indeno(1,2,3-cd)pyrene	mg/Kg	0.167	0.158	94.6	30-130
2-Methylnaphthalene	mg/Kg	0.167	0.114	68.2	30-130
Naphthalene	mg/Kg	0.167	0.110	65.8	30-130
Phenanthrene	mg/Kg	0.167	0.115	68.8	30-130
Pyrene	mg/Kg	0.167	0.132	79.0	30-130
2-Fluorobiphenyl (S)				71.1	33-115
Nitrobenzene-d5 (S)				62.4	29-110
4-Terphenyl-d14 (S)				94.2	33-122

Matrix Spike & Matrix Spike Duplicate L 92402-MS-L505071 L 92402-MSD-L505071

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	mg/Kg	<0.00216	0.166	0.164	0.0789	0.0753	47.5	45.9	30-130	4.6	30
Acenaphthylene	mg/Kg	0.0113	0.166	0.164	0.0876	0.0796	45.9	41.6	30-130	9.5	30
Anthracene	mg/Kg	0.00460	0.166	0.164	0.0836	0.0819	47.5	47.1	30-130	2.0	30
Benzo(a)anthracene	mg/Kg	0.224	0.166	0.164	0.190	0.106	-20*	-70*	30-130	56.7*	30
Benzo(a)pyrene	mg/Kg	0.206	0.166	0.164	0.169	0.0882	-22*	-70*	30-130	62.8*	30

* QC Fail

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505071 **QC Analytical Batch(es):** L505238
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Matrix Spike & Matrix Spike Duplicate L 92402-MS-L505071 L 92402-MSD-L505071

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Benzo(b)fluoranthene	mg/Kg	0.233	0.166	0.164	0.239	0.138	3.6*	-56*	30-130	53.5*	30
Benzo(g,h,i)perylene	mg/Kg	0.137	0.166	0.164	0.149	0.0839	7.2*	-32*	30-130	55.9*	30
Benzo(k)fluoranthene	mg/Kg	0.116	0.166	0.164	0.181	0.112	39.1	-2.4*	30-130	47.0*	30
Chrysene	mg/Kg	0.200	0.166	0.164	0.172	0.100	-15*	-59*	30-130	52.9*	30
Dibenz(a,h)anthracene	mg/Kg	0.0383	0.166	0.164	0.100	0.0772	37.1	23.7*	30-130	25.7	30
Fluoranthene	mg/Kg	0.214	0.166	0.164	0.179	0.107	-21*	-65*	30-130	50.3*	30
Fluorene	mg/Kg	<0.00251	0.166	0.164	0.0834	0.0831	50.2	50.6	30-130	0.3	30
Indeno(1,2,3-cd)pyrene	mg/Kg	0.162	0.166	0.164	0.180	0.0894	10.8*	-44*	30-130	67.2*	30
2-Methylnaphthalene	mg/Kg	0.0142	0.166	0.164	0.0905	0.0845	45.9	42.8	30-130	6.8	30
Naphthalene	mg/Kg	0.0113	0.166	0.164	0.0856	0.0803	44.7	42.0	30-130	6.3	30
Phenanthrene	mg/Kg	0.0281	0.166	0.164	0.0907	0.0788	37.7	30.9	30-130	14.0	30
Pyrene	mg/Kg	0.191	0.166	0.164	0.159	0.0973	-19*	-57*	30-130	48.1*	30
2-Fluorobiphenyl (S)							51.9	47.2	33-115		
Nitrobenzene-d5 (S)							40.4	38.1	29-110		
4-Terphenyl-d14 (S)							42.9	44.5	33-122		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Analytical Batch: L505291
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate L 92404-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	11.1	8.62	25.1*	20.0	08/07/20 13:51

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Analytical Batch: L505530
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate L 92386-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	16.2	15.9	1.8	20.0	08/10/20 14:13

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-218-0165

QC Prep: L505693 **QC Analytical Batch(es):** L505941
QC Prep Batch Method: 3550B **Analysis Method:** TN EPH
Analysis Description: TN EPH

Lab Reagent Blank LRB-L505693 Matrix: SOL
Associated Lab Samples: 92395, 92396, 92397, 92398, 92399, 92400, 92401, 92402, 92403, 92404

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	<3.30	3.30	3.30	08/12/20 10:13		
Oil Range Organics (>C28-C40)	mg/Kg	<3.30	3.30	3.30	08/12/20 10:13		
OTP Surrogate (S)					08/12/20 10:13	119	50-150

Laboratory Control Sample LCS-L505693

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	33.3	37.7	113	50-150
Oil Range Organics (>C28-C40)	mg/Kg	33.3	31.9	95.7	50-150
OTP Surrogate (S)				93.1	50-150

Matrix Spike & Matrix Spike Duplicate L 92399-MS-L505693 L 92399-MSD-L505693

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/Kg	4.14	33.3	33.3	33.6	38.0	88.4	102	50-150	12.2	30
Oil Range Organics (>C28-C40)	mg/Kg	6.32	33.3	33.3	45.2	47.3	117	123	50-150	4.5	30
OTP Surrogate (S)							56.2	71.0	50-150		

Shipment Receipt Form

Customer Number: **03180**
 Customer Name: **Ensafe**
 Report Number: **20-218-0165**

Shipping Method

<input type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<input type="text"/>
<input checked="" type="radio"/> UPS	<input type="radio"/> Client	<input type="radio"/> Courier	Thermometer ID:	<input type="text" value="T101"/>

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



EnSafe Inc.
800-588-7962

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. **CLK080520**

Page **1** of **1**

Project Name: **Former Wayde's Pinball Palace**

PO No. **per MSA**

Project No. **0888826703**

Phase **---**

Site Location: **167 Chelsea Ave**

Sample Analysis Requested (Enter number of containers for each test)

Send Results To: **Allison Harris + Dave Fuehrer**

Sampler/Site Phone# **Chelsey Kipper 270-287-1703**

Lab Name: **Way Point**

Turnaround Time(specify): **10 days**

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Time (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code	Sample Type	Field Filtered (Y/N)	Total No. of Containers	PAH, TN-EPH	VOC	PC	EC	Extra Volume for MS/MSD	HOLD
	16755B0116	SB01	08/04/20	1005	50	N	N	3	1	1	1	1		
	16755B0112	SB01	08/04/20	1010	50	N	N	3	1	1	1	1		
	16755B0208	SB02	08/04/20	1105	50	N	N	3	1	1	1	1		
	16755B0212	SB02	08/04/20	1110	50	N	N	3	1	1	1	1		
	16755B0304	SB03	08/04/20	1305	50	N	N	3	1	1	1	1		
	16755B0404	SB04	08/04/20	1315	50	N	N	3	1	1	1	1		
	16755B0504	SB05	08/04/20	1345	50	N	N	3	1	1	1	1		
	16755B0604	SB06	08/04/20	1330	50	N	N	3	1	1	1	1		
	16755B0704	SB07	08/04/20	1440	50	N	N	3	1	1	1	1		
	16755B0804	SB08	08/04/20	1455	50	N	N	3	1	1	1	1		

Custody Seals received on: Coolers / Containers

Field Comments: **SAMPLES OVERNIGHT ON ICE AT 40C**

Lab Comments: **3.9 T101 SHT**

Relinquished by (signature) **Chelsey Kipper**

Date **6/05/20** Time **0927**

Received by (signature) **Summer Kipnis**

Date **6/5/20** Time **09:30**

Sample Shipment and Delivery Details
Number of coolers in shipment: **1**
Samples Iced?(check) Yes No
Method of Shipment: **DELIVER**

Airbill No: **---**

Date Shipped: **08/05/20**



20-218-0165
03180
08-05-2020
17:35:44

Ensafe
167 Chelsea Avenue

H=Liquid Waste, MS=Mastic, OI=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SN=Miscellaneous Solid/Building Materials, SO=Soil, SU=Surface Water, TG=Trip Blank, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WO=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water
I=Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank
S=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST=sodium thiosulfate, IF NO preservative added leave blank



8/14/2020

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN, 38134

Ref: Analytical Testing
Lab Report Number: 20-219-0137
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Dear Ms. Chelsey Kipper:
Waypoint Analytical, LLC. received sample(s) on 8/6/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.


The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule August 2017) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Rebekah Ross
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2021
Arizona	State Program	AZ0816	08/30/2020
Arkansas	State Program	88-0650	02/07/2021
California	State Program	2904	05/10/2020
Florida	State Program - NELAP	E871157	06/30/2021
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2021
Illinois	State Program - NELAP	200078	10/10/2020
Kentucky	State Program	80215	06/30/2021
Kentucky	State Program	KY90047	12/31/2020
Louisiana	State Program - NELAP	LA037	12/31/2020
Louisiana	State Program - NELAP	04015	06/30/2021
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	415	12/31/2020
Oklahoma	State Program	9311	08/31/2020
Pennsylvania	State Program - NELAP	68-03195	05/31/2021
South Carolina	State Program	84002	06/30/2021
South Carolina	State Program	84002	06/30/2020
Tennessee	State Program	02027	02/11/2023
Tennessee	A2LA ISO 17025:2017	4313.01	10/31/2021
Texas	State Program - NELAP	T104704180	09/30/2020
Virginia	State Program	00106	06/30/2021
Virginia	State Program - NELAP	460181	09/14/2020

Sample Summary Table

Report Number: 20-219-0137
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
92718	167GMW01080520	Aqueous	08/05/2020 17:00	08/06/2020
92719	167GMW02080520	Aqueous	08/05/2020 16:15	08/06/2020
92720	167TB080520	Aqueous	08/05/2020 16:00	08/06/2020

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-219-0137

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167GMW01080520	L 92718							
6010D	Arsenic			0.0195	mg/L	0.0056	08/08/2020 04:16	
6010D	Barium			0.0561	mg/L	0.0040	08/08/2020 04:16	
8260B	sec-Butyl benzene			0.001	mg/L	0.0005	08/08/2020 11:09	
8270D SIM	Acenaphthene			0.000081	mg/L	0.000018	08/10/2020 20:26	
8270D SIM	Anthracene			0.000008	mg/L	0.000005	08/10/2020 20:26	J
8270D SIM	Fluoranthene			0.000006	mg/L	0.000005	08/10/2020 20:26	J
8270D SIM	Fluorene			0.000014	mg/L	0.000010	08/10/2020 20:26	J
8270D SIM	2-Methylnaphthalene			0.000067	mg/L	0.000018	08/10/2020 20:26	
8270D SIM	Naphthalene			0.00199	mg/L	0.000019	08/10/2020 20:26	
8270D SIM	Phenanthrene			0.000015	mg/L	0.000008	08/10/2020 20:26	J
TN EPH	Diesel Range Organics (C10-C28)			0.286	mg/L	0.0548	08/13/2020 02:02	B
TN EPH	Oil Range Organics (>C28-C40)			0.0933	mg/L	0.0841	08/13/2020 02:02	
TN EPH	TN EPH (C10-C40)			0.379	mg/L	0.0548	08/13/2020 02:02	B
167GMW02080520	L 92719							
6010D	Arsenic			0.0353	mg/L	0.0056	08/08/2020 04:20	
6010D	Barium			0.118	mg/L	0.0040	08/08/2020 04:20	
8260B	Benzene			0.0005	mg/L	0.0004	08/08/2020 11:30	J
8260B	sec-Butyl benzene			0.002	mg/L	0.0005	08/08/2020 11:30	
8260B	Ethylbenzene			0.002	mg/L	0.0006	08/08/2020 11:30	
8260B	Isopropylbenzene			0.002	mg/L	0.0008	08/08/2020 11:30	
8260B	m,p-Xylene			0.005	mg/L	0.001	08/08/2020 11:30	
8260B	1,2,4-Trimethylbenzene			0.004	mg/L	0.0008	08/08/2020 11:30	
8260B	1,3,5-Trimethylbenzene			0.001	mg/L	0.0008	08/08/2020 11:30	
8260B	Xylene (Total)			0.005	mg/L	0.0005	08/08/2020 11:30	
8270D SIM	Acenaphthene			0.000033	mg/L	0.000018	08/10/2020 20:47	
8270D SIM	Anthracene			0.000007	mg/L	0.000005	08/10/2020 20:47	J
8270D SIM	Fluorene			0.000016	mg/L	0.000010	08/10/2020 20:47	J
8270D SIM	2-Methylnaphthalene			0.000208	mg/L	0.000018	08/10/2020 20:47	
8270D SIM	Naphthalene			0.00194	mg/L	0.000019	08/10/2020 20:47	
8270D SIM	Phenanthrene			0.000012	mg/L	0.000008	08/10/2020 20:47	J
TN EPH	Diesel Range Organics (C10-C28)			1.13	mg/L	0.0548	08/13/2020 02:21	
TN EPH	TN EPH (C10-C40)			1.13	mg/L	0.0548	08/13/2020 02:21	



Client: Ensafe
Project: Former Wayne's Pinball Palace
Lab Report Number: 20-219-0137
Date: 8/13/2020

CASE NARRATIVE

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

Sample 92719 (167GMW02080520)

QC Batch No: L505705/L505416

Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

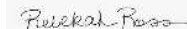
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92718**

Matrix: **Aqueous**

Sample ID : **167GMW01080520**

Sampled: **8/5/2020 17:00**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Arsenic	0.0195	mg/L	0.0056	0.0100	1	08/08/20 04:16	TJS	6010D
Barium	0.0561	mg/L	0.0040	0.0100	1	08/08/20 04:16	TJS	6010D
Cadmium	<0.0003	mg/L	0.0003	0.0020	1	08/08/20 04:16	TJS	6010D
Chromium	<0.003	mg/L	0.003	0.005	1	08/08/20 04:16	TJS	6010D
Lead	<0.002	mg/L	0.002	0.006	1	08/08/20 04:16	TJS	6010D
Mercury	<0.00013	mg/L	0.00013	0.00020	1	08/13/20 13:34	DDB	7470A
Selenium	<0.003	mg/L	0.003	0.010	1	08/10/20 17:43	TJS	6010D
Silver	<0.0023	mg/L	0.0023	0.0050	1	08/08/20 04:16	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	J	Estimated value
L	Limit Exceeded	MQL	Method Quantitation Limit

03180

Ensafe
Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92718**

Matrix: **Aqueous**

Sample ID : **167GMW01080520**

Sampled: **8/5/2020 17:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.009	mg/L	0.009	0.020	1	08/08/20 11:09	ASH	L505439
Acetonitrile	<0.018	mg/L	0.018	0.050	1	08/08/20 11:09	ASH	L505439
Acrolein	<0.002	mg/L	0.002	0.020	1	08/08/20 11:09	ASH	L505439
Acrylonitrile	<0.002	mg/L	0.002	0.020	1	08/08/20 11:09	ASH	L505439
Benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
Bromobenzene	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:09	ASH	L505439
Bromochloromethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
Bromodichloromethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:09	ASH	L505439
Bromoform	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:09	ASH	L505439
Bromomethane	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.002	mg/L	0.002	0.020	1	08/08/20 11:09	ASH	L505439
n-Butylbenzene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 11:09	ASH	L505439
sec-Butyl benzene	0.001	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
tert-Butyl benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
Carbon Disulfide	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
Carbon Tetrachloride	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
Chlorobenzene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
Chlorodibromomethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:09	ASH	L505439
Chloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
2-Chloroethylvinyl Ether	<0.002	mg/L	0.002	0.005	1	08/08/20 11:09	ASH	L505439
Chloroform	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
Chloromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:09	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-219-0137**

REPORT OF ANALYSIS

Lab No : **92718**

Sample ID : **167GMW01080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 17:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
4-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
1,2-Dibromoethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
Dibromomethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
1,2-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
1,3-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
1,4-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
Dichlorodifluoromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:09	ASH	L505439
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
1,2-Dichloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
1,1-Dichloroethene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
cis-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
trans-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
1,2-Dichloroethene (Total)	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09		L505439
1,2-Dichloropropane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
1,3-Dichloropropane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
2,2-Dichloropropane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
1,1-Dichloropropene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
cis-1,3-Dichloropropene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
trans-1,3-Dichloropropene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
Ethyl Acetate	<0.003	mg/L	0.003	0.010	1	08/08/20 11:09	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-219-0137**

REPORT OF ANALYSIS

Lab No : **92718**

Sample ID : **167GMW01080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 17:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
Hexachlorobutadiene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
2-Hexanone	<0.001	mg/L	0.001	0.005	1	08/08/20 11:09	ASH	L505439
Iodomethane	<0.001	mg/L	0.001	0.005	1	08/08/20 11:09	ASH	L505439
Isopropylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
4-Isopropyl toluene	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:09	ASH	L505439
4-Methyl-2-Pentanone	<0.001	mg/L	0.001	0.005	1	08/08/20 11:09	ASH	L505439
Methylene Chloride	<0.004	mg/L	0.004	0.005	1	08/08/20 11:09	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
m,p-Xylene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
Naphthalene	<0.004	mg/L	0.004	0.005	1	08/08/20 11:09	ASH	L505439
o-Xylene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
n-Propylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
Styrene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 11:09	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:09	ASH	L505439
Tetrachloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:09	ASH	L505439
Toluene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
1,2,3-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
1,2,4-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:09	ASH	L505439
1,1,1-Trichloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180
 Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92718**
 Sample ID : **167GMW01080520**

Matrix: **Aqueous**
 Sampled: **8/5/2020 17:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
Trichlorofluoromethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
1,2,3-Trichloropropane	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09	ASH	L505439
1,2,4-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
1,3,5-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:09	ASH	L505439
Vinyl Acetate	<0.002	mg/L	0.002	0.010	1	08/08/20 11:09	ASH	L505439
Vinyl Chloride	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:09	ASH	L505439
Xylene (Total)	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:09		L505439
Surrogate: 4-Bromofluorobenzene	100		Limits: 71-137%		1	08/08/20 11:09	ASH	L505439
Surrogate: Dibromofluoromethane	119		Limits: 70-128%		1	08/08/20 11:09	ASH	L505439
Surrogate: 1,2-Dichloroethane - d4	130		Limits: 63-136%		1	08/08/20 11:09	ASH	L505439
Surrogate: Toluene-d8	104		Limits: 70-130%		1	08/08/20 11:09	ASH	L505439

Analytical Method: 8270D SIM **Prep Batch(es):** **L505416** 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.000081	mg/L	0.000018	0.000020	1	08/10/20 20:26	MLR	L505705
Acenaphthylene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:26	MLR	L505705
Anthracene	0.000008 J	mg/L	0.000005	0.000020	1	08/10/20 20:26	MLR	L505705
Benzo(a)anthracene	<0.000011	mg/L	0.000011	0.000020	1	08/10/20 20:26	MLR	L505705
Benzo(a)pyrene	<0.000012	mg/L	0.000012	0.000020	1	08/10/20 20:26	MLR	L505705
Benzo(b)fluoranthene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:26	MLR	L505705

Qualifiers/Definitions				
*	Outside QC Limit		B	Analyte detected in blank
DF	Dilution Factor		J	Estimated value
MLQ	Method Quantitation Limit			

03180
 Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92718**
 Sample ID : **167GMW01080520**

Matrix: **Aqueous**
 Sampled: **8/5/2020 17:00**

Analytical Method: 8270D SIM **Prep Batch(es):** **L505416** 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(g,h,i)perylene	<0.000007	mg/L	0.000007	0.000020	1	08/10/20 20:26	MLR	L505705
Benzo(k)fluoranthene	<0.000016	mg/L	0.000016	0.000020	1	08/10/20 20:26	MLR	L505705
Chrysene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:26	MLR	L505705
Dibenz(a,h)anthracene	<0.000006	mg/L	0.000006	0.000020	1	08/10/20 20:26	MLR	L505705
Fluoranthene	0.000006 J	mg/L	0.000005	0.000020	1	08/10/20 20:26	MLR	L505705
Fluorene	0.000014 J	mg/L	0.000010	0.000020	1	08/10/20 20:26	MLR	L505705
Indeno(1,2,3-cd)pyrene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:26	MLR	L505705
2-Methylnaphthalene	0.000067	mg/L	0.000018	0.000020	1	08/10/20 20:26	MLR	L505705
Naphthalene	0.00199	mg/L	0.000019	0.000020	1	08/10/20 20:26	MLR	L505705
Phenanthrene	0.000015 J	mg/L	0.000008	0.000020	1	08/10/20 20:26	MLR	L505705
Pyrene	<0.000009	mg/L	0.000009	0.000020	1	08/10/20 20:26	MLR	L505705
Surrogate: 2-Fluorobiphenyl	104		Limits: 70-130%		1	08/10/20 20:26	MLR	L505705
Surrogate: 4-Terphenyl-d14	103		Limits: 70-130%		1	08/10/20 20:26	MLR	L505705

Analytical Method: TN EPH **Prep Batch(es):** **L505744** 08/11/20 14:30
Prep Method: 3510C

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	0.286 B	mg/L	0.0548	0.0900	1	08/13/20 02:02	MMK	L505943
Oil Range Organics (>C28-C40)	0.0933	mg/L	0.0841	0.0900	1	08/13/20 02:02	MMK	L505943
TN EPH (C10-C40)	0.379 B	mg/L	0.0548	0.0900	1	08/13/20 02:02		L505943
Surrogate: OTP Surrogate	73.7		Limits: 50-150%		1	08/13/20 02:02	MMK	L505943

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

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Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project

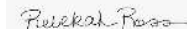
Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92719**

Matrix: **Aqueous**

Sample ID : **167GMW02080520**

Sampled: **8/5/2020 16:15**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Arsenic	0.0353	mg/L	0.0056	0.0100	1	08/08/20 04:20	TJS	6010D
Barium	0.118	mg/L	0.0040	0.0100	1	08/08/20 04:20	TJS	6010D
Cadmium	<0.0003	mg/L	0.0003	0.0020	1	08/08/20 04:20	TJS	6010D
Chromium	<0.003	mg/L	0.003	0.005	1	08/08/20 04:20	TJS	6010D
Lead	<0.002	mg/L	0.002	0.006	1	08/08/20 04:20	TJS	6010D
Mercury	<0.00013	mg/L	0.00013	0.00020	1	08/13/20 13:36	DDB	7470A
Selenium	<0.003	mg/L	0.003	0.010	1	08/10/20 17:48	TJS	6010D
Silver	<0.0023	mg/L	0.0023	0.0050	1	08/08/20 04:20	TJS	6010D

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	J	Estimated value
L	Limit Exceeded	MQL	Method Quantitation Limit

03180

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Ms. Chelsey Kipper

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Memphis , TN 38134

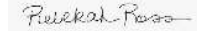
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92719**

Sample ID : **167GMW02080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:15**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.009	mg/L	0.009	0.020	1	08/08/20 11:30	ASH	L505439
Acetonitrile	<0.018	mg/L	0.018	0.050	1	08/08/20 11:30	ASH	L505439
Acrolein	<0.002	mg/L	0.002	0.020	1	08/08/20 11:30	ASH	L505439
Acrylonitrile	<0.002	mg/L	0.002	0.020	1	08/08/20 11:30	ASH	L505439
Benzene	0.0005 J	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
Bromobenzene	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:30	ASH	L505439
Bromochloromethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
Bromodichloromethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:30	ASH	L505439
Bromoform	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:30	ASH	L505439
Bromomethane	<0.001	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.002	mg/L	0.002	0.020	1	08/08/20 11:30	ASH	L505439
n-Butylbenzene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 11:30	ASH	L505439
sec-Butyl benzene	0.002	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
tert-Butyl benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
Carbon Disulfide	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
Carbon Tetrachloride	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
Chlorobenzene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
Chlorodibromomethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:30	ASH	L505439
Chloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
2-Chloroethylvinyl Ether	<0.002	mg/L	0.002	0.005	1	08/08/20 11:30	ASH	L505439
Chloroform	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
Chloromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:30	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

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Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-219-0137**

REPORT OF ANALYSIS

Lab No : **92719**

Sample ID : **167GMW02080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:15**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
4-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.001	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
1,2-Dibromoethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
Dibromomethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
1,2-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
1,3-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
1,4-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
Dichlorodifluoromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 11:30	ASH	L505439
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
1,2-Dichloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
1,1-Dichloroethene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
cis-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
trans-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
1,2-Dichloroethene (Total)	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30		L505439
1,2-Dichloropropane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
1,3-Dichloropropane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
2,2-Dichloropropane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
1,1-Dichloropropene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
cis-1,3-Dichloropropene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
trans-1,3-Dichloropropene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
Ethyl Acetate	<0.003	mg/L	0.003	0.010	1	08/08/20 11:30	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

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Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-219-0137**

REPORT OF ANALYSIS

Lab No : **92719**

Sample ID : **167GMW02080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:15**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	0.002	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
Hexachlorobutadiene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
2-Hexanone	<0.001	mg/L	0.001	0.005	1	08/08/20 11:30	ASH	L505439
Iodomethane	<0.001	mg/L	0.001	0.005	1	08/08/20 11:30	ASH	L505439
Isopropylbenzene	0.002	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
4-Isopropyl toluene	<0.0009	mg/L	0.0009	0.001	1	08/08/20 11:30	ASH	L505439
4-Methyl-2-Pentanone	<0.001	mg/L	0.001	0.005	1	08/08/20 11:30	ASH	L505439
Methylene Chloride	<0.004	mg/L	0.004	0.005	1	08/08/20 11:30	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
m,p-Xylene	0.005	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
Naphthalene	<0.004	mg/L	0.004	0.005	1	08/08/20 11:30	ASH	L505439
o-Xylene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
n-Propylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
Styrene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 11:30	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 11:30	ASH	L505439
Tetrachloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 11:30	ASH	L505439
Toluene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
1,2,3-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
1,2,4-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 11:30	ASH	L505439
1,1,1-Trichloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439

Qualifiers/ Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

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Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92719**
Sample ID : **167GMW02080520**

Matrix: **Aqueous**
Sampled: **8/5/2020 16:15**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
Trichlorofluoromethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
1,2,3-Trichloropropane	<0.0005	mg/L	0.0005	0.001	1	08/08/20 11:30	ASH	L505439
1,2,4-Trimethylbenzene	0.004	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
1,3,5-Trimethylbenzene	0.001	mg/L	0.0008	0.001	1	08/08/20 11:30	ASH	L505439
Vinyl Acetate	<0.002	mg/L	0.002	0.010	1	08/08/20 11:30	ASH	L505439
Vinyl Chloride	<0.0003	mg/L	0.0003	0.001	1	08/08/20 11:30	ASH	L505439
Xylene (Total)	0.005	mg/L	0.0005	0.001	1	08/08/20 11:30		L505439
Surrogate: 4-Bromofluorobenzene	101		Limits: 71-137%		1	08/08/20 11:30	ASH	L505439
Surrogate: Dibromofluoromethane	118		Limits: 70-128%		1	08/08/20 11:30	ASH	L505439
Surrogate: 1,2-Dichloroethane - d4	115		Limits: 63-136%		1	08/08/20 11:30	ASH	L505439
Surrogate: Toluene-d8	106		Limits: 70-130%		1	08/08/20 11:30	ASH	L505439

Analytical Method: 8270D SIM **Prep Batch(es):** **L505416** 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.000033	mg/L	0.000018	0.000020	1	08/10/20 20:47	MLR	L505705
Acenaphthylene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:47	MLR	L505705
Anthracene	0.000007 J	mg/L	0.000005	0.000020	1	08/10/20 20:47	MLR	L505705
Benzo(a)anthracene	<0.000011	mg/L	0.000011	0.000020	1	08/10/20 20:47	MLR	L505705
Benzo(a)pyrene	<0.000012	mg/L	0.000012	0.000020	1	08/10/20 20:47	MLR	L505705
Benzo(b)fluoranthene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:47	MLR	L505705

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

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Ms. Chelsey Kipper
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92719**

Matrix: **Aqueous**

Sample ID : **167GMW02080520**

Sampled: **8/5/2020 16:15**

Analytical Method: 8270D SIM

Prep Batch(es): **L505416** 08/10/20 12:30

Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(g,h,i)perylene	<0.000007	mg/L	0.000007	0.000020	1	08/10/20 20:47	MLR	L505705
Benzo(k)fluoranthene	<0.000016	mg/L	0.000016	0.000020	1	08/10/20 20:47	MLR	L505705
Chrysene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:47	MLR	L505705
Dibenz(a,h)anthracene	<0.000006	mg/L	0.000006	0.000020	1	08/10/20 20:47	MLR	L505705
Fluoranthene	<0.000005	mg/L	0.000005	0.000020	1	08/10/20 20:47	MLR	L505705
Fluorene	0.000016 J	mg/L	0.000010	0.000020	1	08/10/20 20:47	MLR	L505705
Indeno(1,2,3-cd)pyrene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:47	MLR	L505705
2-Methylnaphthalene	0.000208	mg/L	0.000018	0.000020	1	08/10/20 20:47	MLR	L505705
Naphthalene	0.00194	mg/L	0.000019	0.000020	1	08/10/20 20:47	MLR	L505705
Phenanthrene	0.000012 J	mg/L	0.000008	0.000020	1	08/10/20 20:47	MLR	L505705
Pyrene	<0.000009	mg/L	0.000009	0.000020	1	08/10/20 20:47	MLR	L505705
Surrogate: 2-Fluorobiphenyl	133 *			Limits: 70-130%	1	08/10/20 20:47	MLR	L505705
Surrogate: 4-Terphenyl-d14	123			Limits: 70-130%	1	08/10/20 20:47	MLR	L505705

Analytical Method: TN EPH

Prep Batch(es): **L505744** 08/11/20 14:30

Prep Method: 3510C

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	1.13	mg/L	0.0548	0.0900	1	08/13/20 02:21	MMK	L505943
Oil Range Organics (>C28-C40)	<0.0841	mg/L	0.0841	0.0900	1	08/13/20 02:21	MMK	L505943
TN EPH (C10-C40)	1.13	mg/L	0.0548	0.0900	1	08/13/20 02:21		L505943
Surrogate: OTP Surrogate	71.9			Limits: 50-150%	1	08/13/20 02:21	MMK	L505943

Qualifiers/Definitions

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	J	Estimated value
MQL	Method Quantitation Limit		

03180

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Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

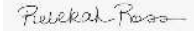
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92720**

Sample ID : **167TB080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.009	mg/L	0.009	0.020	1	08/08/20 10:26	ASH	L505439
Acetonitrile	<0.018	mg/L	0.018	0.050	1	08/08/20 10:26	ASH	L505439
Acrolein	<0.002	mg/L	0.002	0.020	1	08/08/20 10:26	ASH	L505439
Acrylonitrile	<0.002	mg/L	0.002	0.020	1	08/08/20 10:26	ASH	L505439
Benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
Bromobenzene	<0.0007	mg/L	0.0007	0.001	1	08/08/20 10:26	ASH	L505439
Bromochloromethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
Bromodichloromethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 10:26	ASH	L505439
Bromoform	<0.0009	mg/L	0.0009	0.001	1	08/08/20 10:26	ASH	L505439
Bromomethane	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.002	mg/L	0.002	0.020	1	08/08/20 10:26	ASH	L505439
n-Butylbenzene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 10:26	ASH	L505439
sec-Butyl benzene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
tert-Butyl benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
Carbon Disulfide	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
Carbon Tetrachloride	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
Chlorobenzene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
Chlorodibromomethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 10:26	ASH	L505439
Chloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
2-Chloroethylvinyl Ether	<0.002	mg/L	0.002	0.005	1	08/08/20 10:26	ASH	L505439
Chloroform	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
Chloromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 10:26	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

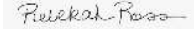
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92720**

Sample ID : **167TB080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
4-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
1,2-Dibromoethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
Dibromomethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
1,2-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
1,3-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
1,4-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
Dichlorodifluoromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 10:26	ASH	L505439
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
1,2-Dichloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
1,1-Dichloroethene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
cis-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
trans-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
1,2-Dichloroethene (Total)	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26		L505439
1,2-Dichloropropane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
1,3-Dichloropropane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
2,2-Dichloropropane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
1,1-Dichloropropene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
cis-1,3-Dichloropropene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
trans-1,3-Dichloropropene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
Ethyl Acetate	<0.003	mg/L	0.003	0.010	1	08/08/20 10:26	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe
 Ms. Chelsey Kipper
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/06/2020



Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **92720**
 Sample ID : **167TB080520**

Matrix: **Aqueous**
 Sampled: **8/5/2020 16:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
Hexachlorobutadiene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
2-Hexanone	<0.001	mg/L	0.001	0.005	1	08/08/20 10:26	ASH	L505439
Iodomethane	<0.001	mg/L	0.001	0.005	1	08/08/20 10:26	ASH	L505439
Isopropylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
4-Isopropyl toluene	<0.0009	mg/L	0.0009	0.001	1	08/08/20 10:26	ASH	L505439
4-Methyl-2-Pentanone	<0.001	mg/L	0.001	0.005	1	08/08/20 10:26	ASH	L505439
Methylene Chloride	<0.004	mg/L	0.004	0.005	1	08/08/20 10:26	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
m,p-Xylene	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
Naphthalene	<0.004	mg/L	0.004	0.005	1	08/08/20 10:26	ASH	L505439
o-Xylene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
n-Propylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
Styrene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 10:26	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 10:26	ASH	L505439
Tetrachloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 10:26	ASH	L505439
Toluene	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
1,2,3-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
1,2,4-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 10:26	ASH	L505439
1,1,1-Trichloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439

Qualifiers/Definitions	*	Outside QC Limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03180

Ensafe

Ms. Chelsey Kipper

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/06/2020

Rebekah Ross

Report Number : **20-219-0137**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **92720**

Sample ID : **167TB080520**

Matrix: **Aqueous**

Sampled: **8/5/2020 16:00**

Analytical Method: 8260B

Prep Batch(es): **L505402** 08/08/20 07:41

Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
Trichlorofluoromethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
1,2,3-Trichloropropane	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26	ASH	L505439
1,2,4-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
1,3,5-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 10:26	ASH	L505439
Vinyl Acetate	<0.002	mg/L	0.002	0.010	1	08/08/20 10:26	ASH	L505439
Vinyl Chloride	<0.0003	mg/L	0.0003	0.001	1	08/08/20 10:26	ASH	L505439
Xylene (Total)	<0.0005	mg/L	0.0005	0.001	1	08/08/20 10:26		L505439
Surrogate: 4-Bromofluorobenzene	108		Limits: 71-137%		1	08/08/20 10:26	ASH	L505439
Surrogate: Dibromofluoromethane	117		Limits: 70-128%		1	08/08/20 10:26	ASH	L505439
Surrogate: 1,2-Dichloroethane - d4	130		Limits: 63-136%		1	08/08/20 10:26	ASH	L505439
Surrogate: Toluene-d8	109		Limits: 70-130%		1	08/08/20 10:26	ASH	L505439

**Qualifiers/
Definitions**

*	Outside QC Limit	B	Analyte detected in blank
DF	Dilution Factor	J	Estimated value
MQL	Method Quantitation Limit		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505206 **QC Analytical Batch(es):** L505493,L505746
QC Prep Batch Method: 3005A **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Lab Reagent Blank LRB-L505206 Matrix: AQU
Associated Lab Samples: 92718, 92719

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Arsenic	mg/L	<0.0056	0.0056	0.0100	08/08/20 04:06
Barium	mg/L	<0.0040	0.0040	0.0100	08/08/20 04:06
Cadmium	mg/L	<0.0003	0.0003	0.0020	08/08/20 04:06
Chromium	mg/L	<0.003	0.003	0.005	08/08/20 04:06
Lead	mg/L	0.002	0.002	0.006	08/08/20 04:06
Selenium	mg/L	<0.003	0.003	0.010	08/10/20 17:33
Silver	mg/L	<0.0023	0.0023	0.0050	08/08/20 04:06

Laboratory Control Sample LCS-L505206

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Arsenic	mg/L	0.100	0.0967	97.0	80-120
Barium	mg/L	1.00	0.935	94.0	80-120
Cadmium	mg/L	0.100	0.0914	91.0	80-120
Chromium	mg/L	1.00	0.995	100	80-120
Lead	mg/L	0.100	0.092	92.0	80-120
Selenium	mg/L	0.100	0.110	110	80-120
Silver	mg/L	0.100	0.0971	97.0	80-120

Matrix Spike & Matrix Spike Duplicate L 92599-MS-L505206 L 92599-MSD-L505206

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Arsenic	mg/L	<0.0056	0.100	0.100	0.104	0.116	104	116	75-125	10.9	20
Barium	mg/L	0.131	1.00	1.00	1.14	1.25	101	112	75-125	9.2	20
Cadmium	mg/L	<0.0003	0.100	0.100	0.0991	0.109	99.0	109	75-125	9.5	20
Chromium	mg/L	0.016	1.00	1.00	0.964	0.967	95.0	95.0	75-125	0.3	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505206 **QC Analytical Batch(es):** L505493,L505746
QC Prep Batch Method: 3005A **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Matrix Spike & Matrix Spike Duplicate L 92599-MS-L505206 L 92599-MSD-L505206

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Lead	mg/L	0.005	0.100	0.100	0.108	0.118	108	118	75-125	8.8	20
Selenium	mg/L	<0.003	0.100	0.100	0.099	0.111	99.0	111	75-125	11.4	20
Silver	mg/L	<0.0023	0.100	0.100	0.0930	0.0934	93.0	93.0	75-125	0.4	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L506085 **QC Analytical Batch(es):** L506278
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L506085 Matrix: AQU
Associated Lab Samples: 92718, 92719

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/L	<0.00013	0.00013	0.00020	08/13/20 13:30

Laboratory Control Sample LCS-L506085

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00474	119	80-120

Matrix Spike & Matrix Spike Duplicate L 93212-MS-L506085 L 93212-MSD-L506085

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00013	0.00400	0.00400	0.00463	0.00460	116	115	80-120	0.6	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 92718, 92719, 92720

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/L	<0.009	0.009	0.020	08/08/20 10:05		
Acetonitrile	mg/L	<0.018	0.018	0.050	08/08/20 10:05		
Acrolein	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
Acrylonitrile	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
Benzene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Bromobenzene	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
Bromochloromethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Bromodichloromethane	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Bromoform	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Bromomethane	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
Methyl Ethyl Ketone (MEK)	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
n-Butylbenzene	mg/L	<0.0010	0.0010	0.001	08/08/20 10:05		
sec-Butyl benzene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
tert-Butyl benzene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Carbon Disulfide	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Carbon Tetrachloride	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Chlorobenzene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Chlorodibromomethane	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Chloroethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
2-Chloroethylvinyl Ether	mg/L	<0.002	0.002	0.005	08/08/20 10:05		
Chloroform	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Chloromethane	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
2-Chlorotoluene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
4-Chlorotoluene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
1,2-Dibromo-3-Chloropropane	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2-Dibromoethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Dibromomethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 92718, 92719, 92720

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichlorobenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,3-Dichlorobenzene	mg/L	0.0008	0.0006	0.001	08/08/20 10:05		
1,4-Dichlorobenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Dichlorodifluoromethane	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
1,1-Dichloroethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,2-Dichloroethane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,1-Dichloroethene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
cis-1,2-Dichloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
trans-1,2-Dichloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,2-Dichloropropane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,3-Dichloropropane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
2,2-Dichloropropane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,1-Dichloropropene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
cis-1,3-Dichloropropene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
trans-1,3-Dichloropropene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Ethyl Acetate	mg/L	<0.003	0.003	0.010	08/08/20 10:05		
Ethylbenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Hexachlorobutadiene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
2-Hexanone	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Iodomethane	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Isopropylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
4-Isopropyl toluene	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
4-Methyl-2-Pentanone	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Methylene Chloride	mg/L	<0.004	0.004	0.005	08/08/20 10:05		
Methyl tert-butyl ether (MTBE)	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
m,p-Xylene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
Naphthalene	mg/L	<0.004	0.004	0.005	08/08/20 10:05		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 92718, 92719, 92720

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
o-Xylene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
n-Propylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Styrene	mg/L	<0.0010	0.0010	0.001	08/08/20 10:05		
1,1,1,2-Tetrachloroethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,1,1,2-Tetrachloroethane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Tetrachloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Toluene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2,3-Trichlorobenzene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2,4-Trichlorobenzene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,1,1-Trichloroethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
1,1,2-Trichloroethane	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Trichloroethene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
Trichlorofluoromethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
1,2,3-Trichloropropane	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
1,2,4-Trimethylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
1,3,5-Trimethylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Vinyl Acetate	mg/L	<0.002	0.002	0.010	08/08/20 10:05		
Vinyl Chloride	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
4-Bromofluorobenzene (S)					08/08/20 10:05	96.8	71-137
Dibromofluoromethane (S)					08/08/20 10:05	117	70-128
1,2-Dichloroethane - d4 (S)					08/08/20 10:05	126	63-136
Toluene-d8 (S)					08/08/20 10:05	104	70-130

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetone	mg/L	0.100	0.120	120	40-160

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetonitrile	mg/L	1.00	1.01	101	40-160
Acrolein	mg/L	0.100	0.103	103	40-160
Acrylonitrile	mg/L	0.100	0.105	105	40-160
Benzene	mg/L	0.100	0.101	101	70-130
Bromobenzene	mg/L	0.100	0.099	99.9	75-125
Bromochloromethane	mg/L	0.100	0.091	91.1	65-135
Bromodichloromethane	mg/L	0.100	0.104	104	75-125
Bromoform	mg/L	0.100	0.115	115	70-130
Bromomethane	mg/L	0.100	0.122	122	40-160
Methyl Ethyl Ketone (MEK)	mg/L	0.100	0.114	114	40-160
n-Butylbenzene	mg/L	0.100	0.107	107	70-130
sec-Butyl benzene	mg/L	0.100	0.117	117	70-130
tert-Butyl benzene	mg/L	0.100	0.123	123	70-130
Carbon Disulfide	mg/L	0.100	0.085	85.5	40-160
Carbon Tetrachloride	mg/L	0.100	0.103	103	65-135
Chlorobenzene	mg/L	0.100	0.118	118	80-120
Chlorodibromomethane	mg/L	0.100	0.115	115	60-140
Chloroethane	mg/L	0.100	0.079	79.3	60-140
2-Chloroethylvinyl Ether	mg/L	0.100	0.108	108	40-160
Chloroform	mg/L	0.100	0.108	108	80-120
Chloromethane	mg/L	0.100	0.110	110	40-160
2-Chlorotoluene	mg/L	0.100	0.117	117	75-125
4-Chlorotoluene	mg/L	0.100	0.113	113	75-125
1,2-Dibromo-3-Chloropropane	mg/L	0.100	0.103	103	50-150
1,2-Dibromoethane	mg/L	0.100	0.103	103	70-130
Dibromomethane	mg/L	0.100	0.099	99.4	75-125
1,2-Dichlorobenzene	mg/L	0.100	0.096	96.3	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
1,3-Dichlorobenzene	mg/L	0.100	0.112	112	75-125
1,4-Dichlorobenzene	mg/L	0.100	0.106	106	75-125
Dichlorodifluoromethane	mg/L	0.100	0.097	97.0	40-160
1,1-Dichloroethane	mg/L	0.100	0.104	104	70-130
1,2-Dichloroethane	mg/L	0.100	0.112	112	70-130
1,1-Dichloroethene	mg/L	0.100	0.091	91.3	80-120
cis-1,2-Dichloroethene	mg/L	0.100	0.109	109	70-130
trans-1,2-Dichloroethene	mg/L	0.100	0.083	83.3	60-140
1,2-Dichloropropane	mg/L	0.100	0.103	103	80-120
1,3-Dichloropropane	mg/L	0.100	0.107	107	75-125
2,2-Dichloropropane	mg/L	0.100	0.114	114	70-130
1,1-Dichloropropene	mg/L	0.100	0.098	98.8	75-125
cis-1,3-Dichloropropene	mg/L	0.100	0.108	108	70-130
trans-1,3-Dichloropropene	mg/L	0.100	0.106	106	55-145
Ethyl Acetate	mg/L	0.100	0.113	113	40-160
Ethylbenzene	mg/L	0.100	0.111	111	80-120
Hexachlorobutadiene	mg/L	0.100	0.112	112	50-150
2-Hexanone	mg/L	0.100	0.106	106	55-145
Iodomethane	mg/L	0.100	0.079	79.1	40-160
Isopropylbenzene	mg/L	0.100	0.120	120	75-125
4-Isopropyl toluene	mg/L	0.100	0.114	114	75-125
4-Methyl-2-Pentanone	mg/L	0.100	0.106	106	60-140
Methylene Chloride	mg/L	0.100	0.093	93.3	55-145
Methyl tert-butyl ether (MTBE)	mg/L	0.100	0.106	106	65-135
m,p-Xylene	mg/L	0.200	0.227	114	75-125
Naphthalene	mg/L	0.100	0.094	94.5	55-145
o-Xylene	mg/L	0.100	0.110	110	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
n-Propylbenzene	mg/L	0.100	0.117	117	70-130
Styrene	mg/L	0.100	0.115	115	65-135
1,1,1,2-Tetrachloroethane	mg/L	0.100	0.098	98.5	70-130
1,1,2,2-Tetrachloroethane	mg/L	0.100	0.092	92.1	65-135
Tetrachloroethene	mg/L	0.100	0.115	115	45-155
Toluene	mg/L	0.100	0.099	99.0	80-120
1,2,3-Trichlorobenzene	mg/L	0.100	0.098	98.5	60-140
1,2,4-Trichlorobenzene	mg/L	0.100	0.101	101	65-135
1,1,1-Trichloroethane	mg/L	0.100	0.104	104	65-135
1,1,2-Trichloroethane	mg/L	0.100	0.102	102	75-125
Trichloroethene	mg/L	0.100	0.098	98.5	70-130
Trichlorofluoromethane	mg/L	0.100	0.117	117	40-140
1,2,3-Trichloropropane	mg/L	0.100	0.116	116	75-125
1,2,4-Trimethylbenzene	mg/L	0.100	0.123	123	65-135
1,3,5-Trimethylbenzene	mg/L	0.100	0.110	110	75-125
Vinyl Acetate	mg/L	0.100	0.106	106	40-160
Vinyl Chloride	mg/L	0.100	0.115	115	80-120
4-Bromofluorobenzene (S)				104	71-137
Dibromofluoromethane (S)				101	70-128
1,2-Dichloroethane - d4 (S)				84.2	63-136
Toluene-d8 (S)				97.2	70-130

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetone	mg/L	<0.009	0.100	0.100	0.109	0.134	109	134	40-160	20.5	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetonitrile	mg/L	<0.018	1.00	1.00	0.997	1.35	99.7	135	40-160	30.0*	30
Acrolein	mg/L	<0.002	0.100	0.100	0.095	0.121	95.0	121	40-160	24.0	30
Acrylonitrile	mg/L	<0.002	0.100	0.100	0.110	0.133	110	133	40-160	18.9	30
Benzene	mg/L	0.0005	0.100	0.100	0.101	0.107	101	107	70-130	5.7	30
Bromobenzene	mg/L	<0.0007	0.100	0.100	0.094	0.081	94.4	81.6	75-125	14.5	30
Bromochloromethane	mg/L	<0.0004	0.100	0.100	0.087	0.093	87.7	93.1	65-135	5.9	30
Bromodichloromethane	mg/L	<0.0009	0.100	0.100	0.102	0.107	102	107	75-125	4.7	30
Bromoform	mg/L	<0.0009	0.100	0.100	0.109	0.123	109	123	70-130	12.0	30
Bromomethane	mg/L	<0.001	0.100	0.100	0.113	0.109	113	109	40-160	3.6	30
Methyl Ethyl Ketone (MEK)	mg/L	<0.002	0.100	0.100	0.114	0.139	114	139	40-160	19.7	30
n-Butylbenzene	mg/L	<0.0010	0.100	0.100	0.099	0.106	99.9	106	70-130	5.9	30
sec-Butyl benzene	mg/L	0.002	0.100	0.100	0.113	0.108	110	105	70-130	4.5	30
tert-Butyl benzene	mg/L	<0.0004	0.100	0.100	0.114	0.107	114	107	70-130	6.3	30
Carbon Disulfide	mg/L	<0.0003	0.100	0.100	0.078	0.085	78.5	85.4	40-160	8.4	30
Carbon Tetrachloride	mg/L	<0.0006	0.100	0.100	0.100	0.108	100	108	65-135	7.6	30
Chlorobenzene	mg/L	<0.0003	0.100	0.100	0.106	0.106	106	106	80-120	0.0	30
Chlorodibromomethane	mg/L	<0.0009	0.100	0.100	0.106	0.112	106	112	60-140	5.5	30
Chloroethane	mg/L	<0.0003	0.100	0.100	0.076	0.082	76.3	82.3	60-140	7.5	30
2-Chloroethylvinyl Ether	mg/L	<0.002	0.100	0.100	<0.002	<0.002	0.0*	0.0*	40-160	0.0	30
Chloroform	mg/L	<0.0008	0.100	0.100	0.104	0.115	104	115	80-120	10.0	30
Chloromethane	mg/L	<0.0007	0.100	0.100	0.090	0.103	90.1	103	40-160	13.3	30
2-Chlorotoluene	mg/L	<0.0005	0.100	0.100	0.120	0.108	120	108	75-125	10.5	30
4-Chlorotoluene	mg/L	<0.0005	0.100	0.100	0.111	0.105	111	105	75-125	5.5	30
1,2-Dibromo-3-Chloropropane	mg/L	<0.001	0.100	0.100	0.107	0.131	107	131	50-150	20.1	30
1,2-Dibromoethane	mg/L	<0.0004	0.100	0.100	0.096	0.108	96.6	108	70-130	11.1	30
Dibromomethane	mg/L	<0.0004	0.100	0.100	0.096	0.102	96.2	102	75-125	5.8	30

* QC Fail

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,2-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.097	0.105	97.1	105	70-130	7.8	30
1,3-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.105	0.114	105	114	75-125	8.2	30
1,4-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.100	0.108	100	108	75-125	7.6	30
Dichlorodifluoromethane	mg/L	<0.0007	0.100	0.100	0.068	0.074	68.6	74.8	40-160	8.6	30
1,1-Dichloroethane	mg/L	<0.0004	0.100	0.100	0.101	0.107	101	107	70-130	5.7	30
1,2-Dichloroethane	mg/L	<0.0006	0.100	0.100	0.102	0.119	102	119	70-130	15.3	30
1,1-Dichloroethene	mg/L	<0.0003	0.100	0.100	0.081	0.088	81.0	88.2	80-120	8.5	30
cis-1,2-Dichloroethene	mg/L	<0.0004	0.100	0.100	0.105	0.117	105	117	70-130	10.8	30
trans-1,2-Dichloroethene	mg/L	<0.0004	0.100	0.100	0.086	0.089	86.0	89.8	60-140	4.3	30
1,2-Dichloropropane	mg/L	<0.0004	0.100	0.100	0.105	0.109	105	109	80-120	3.7	30
1,3-Dichloropropane	mg/L	<0.0003	0.100	0.100	0.111	0.121	111	121	75-125	8.6	30
2,2-Dichloropropane	mg/L	<0.0006	0.100	0.100	0.102	0.114	102	114	70-130	11.1	30
1,1-Dichloropropene	mg/L	<0.0008	0.100	0.100	0.097	0.106	97.7	106	75-125	8.1	30
cis-1,3-Dichloropropene	mg/L	<0.0004	0.100	0.100	0.104	0.108	104	108	70-130	3.7	30
trans-1,3-Dichloropropene	mg/L	<0.0003	0.100	0.100	0.110	0.114	110	114	55-145	3.5	30
Ethyl Acetate	mg/L	<0.003	0.100	0.100	0.097	0.114	97.0	114	40-160	16.1	30
Ethylbenzene	mg/L	0.002	0.100	0.100	0.102	0.098	99.8	96.4	80-120	3.3	30
Hexachlorobutadiene	mg/L	<0.0008	0.100	0.100	0.107	0.112	107	112	50-150	4.5	30
2-Hexanone	mg/L	<0.001	0.100	0.100	0.112	0.132	112	132	55-145	16.3	30
Iodomethane	mg/L	<0.001	0.100	0.100	0.077	0.063	77.2	63.2	40-160	19.9	30
Isopropylbenzene	mg/L	0.002	0.100	0.100	0.115	0.106	113	104	75-125	8.1	30
4-Isopropyl toluene	mg/L	<0.0009	0.100	0.100	0.112	0.104	112	104	75-125	7.4	30
4-Methyl-2-Pentanone	mg/L	<0.001	0.100	0.100	0.105	0.120	105	120	60-140	13.3	30
Methylene Chloride	mg/L	<0.004	0.100	0.100	0.091	0.098	91.0	98.5	55-145	7.9	30
Methyl tert-butyl ether (MTBE)	mg/L	<0.0006	0.100	0.100	0.104	0.120	104	120	65-135	14.2	30
m,p-Xylene	mg/L	0.005	0.200	0.200	0.214	0.222	104	108	75-125	3.6	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Naphthalene	mg/L	<0.004	0.100	0.100	0.107	0.121	107	121	55-145	12.2	30
o-Xylene	mg/L	<0.0005	0.100	0.100	0.107	0.108	107	108	70-130	0.9	30
n-Propylbenzene	mg/L	<0.0008	0.100	0.100	0.111	0.097	111	97.1	70-130	13.3	30
Styrene	mg/L	<0.0010	0.100	0.100	0.125	0.126	125	126	65-135	0.7	30
1,1,1,2-Tetrachloroethane	mg/L	<0.0004	0.100	0.100	0.098	0.097	98.2	97.1	70-130	1.1	30
1,1,1,2-Tetrachloroethane	mg/L	<0.0006	0.100	0.100	0.093	0.104	93.5	104	65-135	10.6	30
Tetrachloroethene	mg/L	<0.0004	0.100	0.100	0.112	0.106	112	106	45-155	5.5	30
Toluene	mg/L	<0.001	0.100	0.100	0.105	0.105	105	105	80-120	0.0	30
1,2,3-Trichlorobenzene	mg/L	<0.001	0.100	0.100	0.100	0.113	100	113	60-140	12.2	30
1,2,4-Trichlorobenzene	mg/L	<0.001	0.100	0.100	0.106	0.115	106	115	65-135	8.1	30
1,1,1-Trichloroethane	mg/L	<0.0003	0.100	0.100	0.102	0.111	102	111	65-135	8.4	30
1,1,2-Trichloroethane	mg/L	<0.0008	0.100	0.100	0.110	0.113	110	113	75-125	2.6	30
Trichloroethene	mg/L	<0.0005	0.100	0.100	0.100	0.102	100	102	70-130	1.9	30
Trichlorofluoromethane	mg/L	<0.0003	0.100	0.100	0.103	0.121	103	121	40-140	16.0	30
1,2,3-Trichloropropane	mg/L	<0.0005	0.100	0.100	0.112	0.123	112	123	75-125	9.3	30
1,2,4-Trimethylbenzene	mg/L	0.004	0.100	0.100	0.110	0.111	106	107	65-135	0.9	30
1,3,5-Trimethylbenzene	mg/L	0.001	0.100	0.100	0.105	0.107	103	105	75-125	1.8	30
Vinyl Acetate	mg/L	<0.002	0.100	0.100	0.095	0.115	95.6	115	40-160	18.4	30
Vinyl Chloride	mg/L	<0.0003	0.100	0.100	0.101	0.110	101	110	80-120	8.5	30
4-Bromofluorobenzene (S)							76.0	80.8	71-137		
Dibromofluoromethane (S)							100	107	70-128		
1,2-Dichloroethane - d4 (S)							74.4	81.4	63-136		
Toluene-d8 (S)							105	104	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505416 **QC Analytical Batch(es):** L505705
QC Prep Batch Method: 3511 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Lab Reagent Blank LRB-L505416 Matrix: AQU
 Associated Lab Samples: 92718, 92719

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/L	<0.000018	0.000018	0.000020	08/10/20 18:21		
Acenaphthylene	mg/L	<0.000014	0.000014	0.000020	08/10/20 18:21		
Anthracene	mg/L	<0.000005	0.000005	0.000020	08/10/20 18:21		
Benzo(a)anthracene	mg/L	<0.000011	0.000011	0.000020	08/10/20 18:21		
Benzo(a)pyrene	mg/L	<0.000012	0.000012	0.000020	08/10/20 18:21		
Benzo(b)fluoranthene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Benzo(g,h,i)perylene	mg/L	<0.000007	0.000007	0.000020	08/10/20 18:21		
Benzo(k)fluoranthene	mg/L	<0.000016	0.000016	0.000020	08/10/20 18:21		
Chrysene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Dibenz(a,h)anthracene	mg/L	<0.000006	0.000006	0.000020	08/10/20 18:21		
Fluoranthene	mg/L	<0.000005	0.000005	0.000020	08/10/20 18:21		
Fluorene	mg/L	<0.000010	0.000010	0.000020	08/10/20 18:21		
Indeno(1,2,3-cd)pyrene	mg/L	<0.000014	0.000014	0.000020	08/10/20 18:21		
2-Methylnaphthalene	mg/L	<0.000018	0.000018	0.000020	08/10/20 18:21		
Naphthalene	mg/L	<0.000019	0.000019	0.000020	08/10/20 18:21		
Phenanthrene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Pyrene	mg/L	<0.000009	0.000009	0.000020	08/10/20 18:21		
2-Fluorobiphenyl (S)					08/10/20 18:21	116	70-130
4-Terphenyl-d14 (S)					08/10/20 18:21	123	70-130

Laboratory Control Sample & LCSD LCS-L505416 LCSD-L505416

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acenaphthene	mg/L	0.00303	0.00298	0.00330	98.3	109	60-140	10.1	20
Acenaphthylene	mg/L	0.00303	0.00209	0.00272	68.9	89.7	60-140	26.1*	20
Anthracene	mg/L	0.00303	0.00295	0.00297	97.3	98.0	60-140	0.6	20

* QC Fail

Date: 08/14/2020 07:44 AM

Page 13 of 15

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505416 **QC Analytical Batch(es):** L505705
QC Prep Batch Method: 3511 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Laboratory Control Sample & LCSD LCS-L505416 LCSD-L505416

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Benzo(a)anthracene	mg/L	0.00303	0.00326	0.00328	108	108	60-140	0.6	20
Benzo(a)pyrene	mg/L	0.00303	0.00299	0.00303	98.6	100	60-140	1.3	20
Benzo(b)fluoranthene	mg/L	0.00303	0.00313	0.00305	103	101	60-140	2.5	20
Benzo(g,h,i)perylene	mg/L	0.00303	0.00217	0.00212	71.6	69.9	60-140	2.3	20
Benzo(k)fluoranthene	mg/L	0.00303	0.00253	0.00245	83.4	80.8	60-140	3.2	20
Chrysene	mg/L	0.00303	0.00263	0.00276	86.7	91.0	60-140	4.8	20
Dibenz(a,h)anthracene	mg/L	0.00303	0.00261	0.00251	86.1	82.8	60-140	3.9	20
Fluoranthene	mg/L	0.00303	0.00319	0.00307	105	101	60-140	3.8	20
Fluorene	mg/L	0.00303	0.00272	0.00311	89.7	103	60-140	13.3	20
Indeno(1,2,3-cd)pyrene	mg/L	0.00303	0.00350	0.00331	116	109	60-140	5.5	20
2-Methylnaphthalene	mg/L	0.00303	0.00281	0.00305	92.7	101	60-140	8.1	20
Naphthalene	mg/L	0.00303	0.00307	0.00317	101	105	60-140	3.2	20
Phenanthrene	mg/L	0.00303	0.00274	0.00286	90.4	94.3	60-140	4.2	20
Pyrene	mg/L	0.00303	0.00343	0.00325	113	107	60-140	5.3	20
2-Fluorobiphenyl (S)					109	122	70-130		
4-Terphenyl-d14 (S)					122	121	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-219-0137

QC Prep: L505744 **QC Analytical Batch(es):** L505943
QC Prep Batch Method: 3510C **Analysis Method:** TN EPH
Analysis Description: TN EPH

Lab Reagent Blank LRB-L505744 Matrix: AQU
Associated Lab Samples: 92718, 92719

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/L	0.0703	0.0548	0.0900	08/12/20 15:37		
Oil Range Organics (>C28-C40)	mg/L	<0.0841	0.0841	0.0900	08/12/20 15:37		
OTP Surrogate (S)					08/12/20 15:37	123	50-150

Laboratory Control Sample & LCSD LCS-L505744 LCSD-L505744

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/L	1.00	1.06	0.991	106	99.1	50-150	6.7	20
Oil Range Organics (>C28-C40)	mg/L	1.00	1.17	0.769	117	76.9	50-150	41.3*	20
OTP Surrogate (S)					132	118	50-150		

Shipment Receipt Form

Customer Number: **03180**
Customer Name: **Ensafe**
Report Number: **20-219-0137**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID: #100

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Trip Blanks received with VOAs	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



EnSafe Inc.
800-588-7962

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. **DWF080520**

Page **1** of **1**

Project Name: **FORMER WAYNE'S PINBALL PALACE**

PO No. **PER MSA**

Project No. **1888826703**

Phase **---**

Site Location: **167 CHELSEA AVE.**

Sample Analysis Requested (Enter number of containers for each test)

Send Results To: **CHELSEY KIPPER (270) 287-1703**

Sampler/Site Phone# **CHELSEY KIPPER**

VOC 5⁸²⁶⁰

PAH TN-EPH

RCRA METALS

Lab Name: **WAY POINT**

9

9

2

Turnaround Time (specify **5-10 DAYS**)

3^V 5^V 1^V

3^V 5^V 1^V

2^V

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Time (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code	Sample Type	Field Filtered (Y/N)	Total No. of Containers	Extra Volume for MS/MSD	HOLD
	167GMW01080520	MW01	08/05/20	1700	WG	N	Y	9		
	167GMW02080520	MW02	08/05/20	1615	WG	N	Y	9		
	167TBO80520	TB	08/05/20	1600	TB	N	N	2		



20-219-0137
03180
08-06-2020
14:37:19

Ensafe
Former Wayne's Pinball Palace

Custody Seals received on: Cooler(s) Container(s)

Lab Comments: 0.8°C T100 (TP)

1 Samples HELD OVERNIGHT ON ICE AT 4°C STRONG CHEMICAL ODOR IN SAMPLES

Relinquished by (signature) **Andrew** Date **08-06-20** Time **1036**

Received by (signature) **A. Kipper** Date **8/6/20** Time **10:30**

Number of coolers in shipment: **1**

Samples Iced?(check) Yes No

Method of Shipment: **Deliver**

Airbill No:

Date Shipped: **08/05/20**

Sample Shipment and Delivery Details

Matrix Code: **AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LF=Free Product, LH=Liquid Waste, MS=Mastic, OIL=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SN=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water**

Sample Type: **AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank**

Preservative added: **HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate, IF NO preservative added leave blank**

Re: _____

8/14/2020

Ensafe
Ms. Allison Harris
5724 Summer Tree Drive
Memphis, TN, 38134

Ref: Analytical Testing
Lab Report Number: 20-220-0136
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Dear Ms. Allison Harris:
Waypoint Analytical, LLC. received sample(s) on 8/7/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule August 2017) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Rebekah Ross
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2021
Arizona	State Program	AZ0816	08/30/2020
Arkansas	State Program	88-0650	02/07/2021
California	State Program	2904	05/10/2020
Florida	State Program - NELAP	E871157	06/30/2021
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2021
Illinois	State Program - NELAP	200078	10/10/2020
Kentucky	State Program	80215	06/30/2021
Kentucky	State Program	KY90047	12/31/2020
Louisiana	State Program - NELAP	LA037	12/31/2020
Louisiana	State Program - NELAP	04015	06/30/2021
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	415	12/31/2020
Oklahoma	State Program	9311	08/31/2020
Pennsylvania	State Program - NELAP	68-03195	05/31/2021
South Carolina	State Program	84002	06/30/2021
South Carolina	State Program	84002	06/30/2020
Tennessee	State Program	02027	02/11/2023
Tennessee	A2LA ISO 17025:2017	4313.01	10/31/2021
Texas	State Program - NELAP	T104704180	09/30/2020
Virginia	State Program	00106	06/30/2021
Virginia	State Program - NELAP	460181	09/14/2020

Sample Summary Table

Report Number: 20-220-0136
Client Project Description: Former Wayne's Pinball Palace
167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
93207	167SSB0916	Solids	08/07/2020 09:15	08/07/2020
93208	167SSB0901	Solids	08/07/2020 09:10	08/07/2020
93209	167SSB1001	Solids	08/07/2020 10:15	08/07/2020
93210	167SSB1016	Solids	08/07/2020 10:25	08/07/2020
93211	167GMW03080720	Aqueous	08/07/2020 12:30	08/07/2020
93212	167GMW04080720	Aqueous	08/07/2020 13:00	08/07/2020
93213	167TB080720	Aqueous	08/07/2020 12:00	08/07/2020

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-220-0136

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB0916	L 93207							
6010D	Arsenic			5.56	mg/Kg - dry	0.311	08/13/2020 21:55	
6010D	Barium			55.8	mg/Kg - dry	0.168	08/13/2020 21:55	
6010D	Cadmium			0.242	mg/Kg - dry	0.0259	08/13/2020 21:55	
6010D	Chromium			14.6	mg/Kg - dry	0.305	08/13/2020 21:55	
6010D	Lead			5.75	mg/Kg - dry	0.233	08/13/2020 21:55	
6010D	Silver			0.460	mg/Kg - dry	0.207	08/14/2020 14:11	
7471A	Mercury			0.0389	mg/Kg - dry	0.00417	08/13/2020 14:37	
8270D SIM	Benzo(a)anthracene			0.000661	mg/Kg - dry	0.000571	08/13/2020 21:02	J
8270D SIM	Benzo(g,h,i)perylene			0.00190	mg/Kg - dry	0.000299	08/13/2020 21:02	
8270D SIM	Dibenz(a,h)anthracene			0.00244	mg/Kg - dry	0.000361	08/13/2020 21:02	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.00144	mg/Kg - dry	0.000445	08/13/2020 21:02	B
8270D SIM	Pyrene			0.000610	mg/Kg - dry	0.000501	08/13/2020 21:02	J
SW-DRYWT	Moisture			22.8	%		08/11/2020 14:04	
167SSB0901	L 93208							
6010D	Arsenic			12.8	mg/Kg - dry	0.286	08/13/2020 22:01	
6010D	Barium			155	mg/Kg - dry	0.155	08/13/2020 22:01	
6010D	Cadmium			0.311	mg/Kg - dry	0.0238	08/13/2020 22:01	
6010D	Chromium			19.3	mg/Kg - dry	0.281	08/13/2020 22:01	
6010D	Lead			55.1	mg/Kg - dry	0.214	08/13/2020 22:01	
7471A	Mercury			0.0765	mg/Kg - dry	0.00371	08/13/2020 13:34	
8270D SIM	Benzo(a)anthracene			0.0160	mg/Kg - dry	0.000525	08/13/2020 21:23	
8270D SIM	Benzo(b)fluoranthene			0.0305	mg/Kg - dry	0.000164	08/13/2020 21:23	
8270D SIM	Benzo(g,h,i)perylene			0.0175	mg/Kg - dry	0.000275	08/13/2020 21:23	
8270D SIM	Benzo(k)fluoranthene			0.0159	mg/Kg - dry	0.000579	08/13/2020 21:23	
8270D SIM	Chrysene			0.0170	mg/Kg - dry	0.000305	08/13/2020 21:23	
8270D SIM	Fluoranthene			0.0360	mg/Kg - dry	0.000630	08/13/2020 21:23	
8270D SIM	Indeno(1,2,3-cd)pyrene			0.0198	mg/Kg - dry	0.000410	08/13/2020 21:23	
8270D SIM	Pyrene			0.0278	mg/Kg - dry	0.000461	08/13/2020 21:23	
SW-DRYWT	Moisture			16.1	%		08/11/2020 14:04	
TN EPH	Diesel Range Organics (C10-C28)			7.56	mg/Kg - dry	3.93	08/12/2020 14:02	
TN EPH	Oil Range Organics (>C28-C40)			23.4	mg/Kg - dry	3.93	08/12/2020 14:02	
TN EPH	TN EPH (C10-C40)			30.9	mg/Kg - dry	3.93	08/12/2020 14:02	
167SSB1001	L 93209							
6010D	Arsenic			10.7	mg/Kg - dry	0.276	08/13/2020 22:06	
6010D	Barium			185	mg/Kg - dry	0.150	08/13/2020 22:06	
6010D	Cadmium			0.474	mg/Kg - dry	0.0230	08/13/2020 22:06	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-220-0136

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167SSB1001	L 93209							
6010D	Chromium			16.4	mg/Kg - dry	0.271	08/13/2020 22:06	
6010D	Lead			26.4	mg/Kg - dry	0.207	08/13/2020 22:06	
7471A	Mercury			0.0510	mg/Kg - dry	0.00397	08/13/2020 17:35	
8270D SIM	Acenaphthene			0.000549	mg/Kg - dry	0.000496	08/13/2020 21:44	J
8270D SIM	Benzo(a)anthracene			0.0104	mg/Kg - dry	0.000508	08/13/2020 21:44	
8270D SIM	Benzo(b)fluoranthene			0.0229	mg/Kg - dry	0.000158	08/13/2020 21:44	
8270D SIM	Benzo(g,h,i)perylene			0.0131	mg/Kg - dry	0.000266	08/13/2020 21:44	
8270D SIM	Chrysene			0.0102	mg/Kg - dry	0.000294	08/13/2020 21:44	
8270D SIM	Fluoranthene			0.0199	mg/Kg - dry	0.000609	08/13/2020 21:44	
8270D SIM	Fluorene			0.000706	mg/Kg - dry	0.000577	08/13/2020 21:44	J
8270D SIM	Indeno(1,2,3-cd)pyrene			0.0139	mg/Kg - dry	0.000396	08/13/2020 21:44	
8270D SIM	Pyrene			0.0150	mg/Kg - dry	0.000445	08/13/2020 21:44	
SW-DRYWT	Moisture			13.2	%		08/11/2020 14:04	
TN EPH	Diesel Range Organics (C10-C28)			6.92	mg/Kg - dry	3.80	08/12/2020 14:21	
TN EPH	Oil Range Organics (>C28-C40)			16.1	mg/Kg - dry	3.80	08/12/2020 14:21	
TN EPH	TN EPH (C10-C40)			23.0	mg/Kg - dry	3.80	08/12/2020 14:21	
167SSB1016	L 93210							
6010D	Arsenic			3.55	mg/Kg - dry	0.307	08/13/2020 22:12	
6010D	Barium			53.1	mg/Kg - dry	0.166	08/13/2020 22:12	
6010D	Cadmium			0.149	mg/Kg - dry	0.0256	08/13/2020 22:12	
6010D	Chromium			11.9	mg/Kg - dry	0.302	08/13/2020 22:12	
6010D	Lead			4.69	mg/Kg - dry	0.230	08/13/2020 22:12	
6010D	Silver			0.444	mg/Kg - dry	0.205	08/14/2020 14:51	
7471A	Mercury			0.0104	mg/Kg - dry	0.00395	08/13/2020 17:36	J
8270D SIM	Benzo(a)anthracene			0.000614	mg/Kg - dry	0.000564	08/13/2020 22:05	J
8270D SIM	Benzo(b)fluoranthene			0.000778	mg/Kg - dry	0.000176	08/13/2020 22:05	J
8270D SIM	Benzo(g,h,i)perylene			0.00108	mg/Kg - dry	0.000295	08/13/2020 22:05	
8270D SIM	Chrysene			0.000349	mg/Kg - dry	0.000327	08/13/2020 22:05	J
8270D SIM	Dibenz(a,h)anthracene			0.00117	mg/Kg - dry	0.000357	08/13/2020 22:05	
8270D SIM	Pyrene			0.000560	mg/Kg - dry	0.000495	08/13/2020 22:05	J
SW-DRYWT	Moisture			21.9	%		08/11/2020 14:04	
TN EPH	Diesel Range Organics (C10-C28)			4.57	mg/Kg - dry	4.23	08/12/2020 14:40	
TN EPH	Oil Range Organics (>C28-C40)			26.6	mg/Kg - dry	4.23	08/12/2020 14:40	
TN EPH	TN EPH (C10-C40)			31.2	mg/Kg - dry	4.23	08/12/2020 14:40	
167GMW03080720	L 93211							
6010D	Barium			0.157	mg/L	0.0040	08/11/2020 19:14	

Summary of Detected Analytes

Project: Former Wayne's Pinball Palace

Report Number: 20-220-0136

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
167GMW03080720	L 93211					
8270D SIM	Anthracene	0.000005	mg/L	0.000005	08/10/2020 19:44	J
8270D SIM	2-Methylnaphthalene	0.000051	mg/L	0.000018	08/10/2020 19:44	
8270D SIM	Naphthalene	0.000158	mg/L	0.000019	08/10/2020 19:44	
8270D SIM	Phenanthrene	0.000011	mg/L	0.000008	08/10/2020 19:44	J
TN EPH	Diesel Range Organics (C10-C28)	0.0872	mg/L	0.0548	08/13/2020 01:24	JB
TN EPH	TN EPH (C10-C40)	0.0872	mg/L	0.0548	08/13/2020 01:24	JB
167GMW04080720	L 93212					
6010D	Barium	0.136	mg/L	0.0040	08/11/2020 19:19	
6010D	Chromium	0.012	mg/L	0.003	08/11/2020 19:19	
6010D	Lead	0.004	mg/L	0.002	08/11/2020 19:19	J
8270D SIM	Anthracene	0.000008	mg/L	0.000005	08/10/2020 20:05	J
8270D SIM	2-Methylnaphthalene	0.000048	mg/L	0.000018	08/10/2020 20:05	
8270D SIM	Naphthalene	0.000181	mg/L	0.000019	08/10/2020 20:05	
8270D SIM	Phenanthrene	0.000008	mg/L	0.000008	08/10/2020 20:05	J

Client: Ensafe
Project: Former Wayne's Pinball Palace
Lab Report Number: 20-220-0136
Date: 8/14/2020

CASE NARRATIVE

Metals Analysis Method 6010D

Sample 93210 (167SSB1016)

Analyte: Lead

QC Batch No: L506391/L505738

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 93207 (167SSB0916)

Analyte: Selenium

QC Batch No: L506391/L505738

This analyte was analyzed at a dilution due to IEC interference/matrix interference.

Sample 93208 (167SSB0901)

Analyte: Selenium

QC Batch No: L506391/L505738

This analyte was analyzed at a dilution due to IEC interference/matrix interference.

Sample 93209 (167SSB1001)

Analyte: Selenium

QC Batch No: L506391/L505738

This analyte was analyzed at a dilution due to IEC interference/matrix interference.

Volatile Organic Compounds - GC/MS Method 8260B

Sample 93212 (167GMW04080720)

QC Batch No: L505439/L505402

The sample was analyzed at a dilution due to the foamy nature of the matrix. Reporting limits have been adjusted accordingly.

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

Analyte: Indeno(1,2,3-cd)pyrene

QC Batch No: L506498/L506017

Target analyte(s) was identified in the method blank associated with this project, below the Method Quantitation Limit. The result for the method blank and sample are flagged with the data qualifier J, Estimated Concentration. Per laboratory protocol any associated affected sample result is flagged "B" to indicate that it was detected in the method blank.

03180

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Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

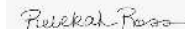
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93207**

Matrix: **Solids**

Sample ID : **167SSB0916**

Sampled: **8/7/2020 9:15**

Test	Results	Units	MDL	ML	DF	Date / Time Analyzed	By	Analytical Method
Moisture	22.8	%			1	08/11/20 14:04	FMM	SW-DRYWT
Arsenic	5.56	mg/Kg - dry	0.311	0.648	1	08/13/20 21:55	TJS	6010D
Barium	55.8	mg/Kg - dry	0.168	0.648	1	08/13/20 21:55	TJS	6010D
Cadmium	0.242	mg/Kg - dry	0.0259	0.130	1	08/13/20 21:55	TJS	6010D
Chromium	14.6	mg/Kg - dry	0.305	0.323	1	08/13/20 21:55	TJS	6010D
Lead	5.75	mg/Kg - dry	0.233	0.388	1	08/13/20 21:55	TJS	6010D
Mercury	0.0389	mg/Kg - dry	0.00417	0.0189	1	08/13/20 14:37	DDB	7471A
Selenium	<0.414	mg/Kg - dry	0.414	0.647	1	08/14/20 14:11	TJS	6010D
Silver	0.460	mg/Kg - dry	0.207	0.324	1	08/14/20 14:11	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

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Memphis, TN 38134


Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93207**

Matrix: **Solids**

Sample ID : **167SSB0916**

Sampled: **8/7/2020 9:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.051	1	08/10/20 13:44	ELM	L505699
Acetonitrile	<0.058	mg/Kg - dry	0.058	0.129	1	08/10/20 13:44	ELM	L505699
Acrolein	<0.008	mg/Kg - dry	0.008	0.051	1	08/10/20 13:44	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.051	1	08/10/20 13:44	ELM	L505699
Benzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:44	ELM	L505699
Bromobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.051	1	08/10/20 13:44	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Carbon Tetrachloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
2-Chloroethylvinyl Ether	<0.007	mg/Kg - dry	0.007	0.012	1	08/10/20 13:44	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699

Qualifiers/ B Analyte detected in blank
Definitions J Estimated value

DF Dilution Factor
MQL Method Quantitation Limit

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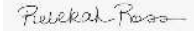
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93207**

Sample ID : **167SSB0916**

Matrix: **Solids**

Sampled: **8/7/2020 9:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.012	1	08/10/20 13:44	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:44	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
cis-1,2-Dichloroethene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:44	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,2-Dichloroethene (Total)	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:44		L505699
1,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:44	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:44	ELM	L505699
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:44	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:44	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.051	1	08/10/20 13:44	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

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Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

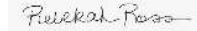
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93207**

Sample ID : **167SSB0916**

Matrix: **Solids**

Sampled: **8/7/2020 9:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:44	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 13:44	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.012	1	08/10/20 13:44	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.012	1	08/10/20 13:44	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.051	1	08/10/20 13:44	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.005	1	08/10/20 13:44	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.012	1	08/10/20 13:44	ELM	L505699
o-Xylene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Styrene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.012	1	08/10/20 13:44	ELM	L505699
1,2,3-Trichlorobenzene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 13:44	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 13:44	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:44	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

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Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93207**

Sample ID : **167SSB0916**

Matrix: **Solids**

Sampled: **8/7/2020 9:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 13:44	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 13:44	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.051	1	08/10/20 13:44	ELM	L505699
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 13:44	ELM	L505699
Xylene (Total)	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 13:44		L505699
Surrogate: 4-Bromofluorobenzene	97.1		Limits: 60-130%		1	08/10/20 13:44	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	121		Limits: 60-132%		1	08/10/20 13:44	ELM	L505699
Surrogate: Toluene-d8	98.5		Limits: 70-130%		1	08/10/20 13:44	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MLQ	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000558	mg/Kg - dry	0.000558	0.000867	1	08/13/20 21:02	MLR	L506498
Acenaphthylene	<0.000494	mg/Kg - dry	0.000494	0.000867	1	08/13/20 21:02	MLR	L506498
Anthracene	<0.000551	mg/Kg - dry	0.000551	0.000867	1	08/13/20 21:02	MLR	L506498
Benzo(a)anthracene	0.000661 J	mg/Kg - dry	0.000571	0.000867	1	08/13/20 21:02	MLR	L506498
Benzo(a)pyrene	<0.000172	mg/Kg - dry	0.000172	0.000867	1	08/13/20 21:02	MLR	L506498
Benzo(b)fluoranthene	<0.000178	mg/Kg - dry	0.000178	0.000867	1	08/13/20 21:02	MLR	L506498
Benzo(g,h,i)perylene	0.00190	mg/Kg - dry	0.000299	0.000867	1	08/13/20 21:02	MLR	L506498

Qualifiers/ B Analyte detected in blank DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

03180

Ensafe
Ms. Allison Harris
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
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Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93207**

Matrix: **Solids**

Sample ID : **167SSB0916**

Sampled: **8/7/2020 9:15**

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000629	mg/Kg - dry	0.000629	0.000867	1	08/13/20 21:02	MLR	L506498
Chrysene	<0.000331	mg/Kg - dry	0.000331	0.000867	1	08/13/20 21:02	MLR	L506498
Dibenz(a,h)anthracene	0.00244	mg/Kg - dry	0.000361	0.000867	1	08/13/20 21:02	MLR	L506498
Fluoranthene	<0.000685	mg/Kg - dry	0.000685	0.000867	1	08/13/20 21:02	MLR	L506498
Fluorene	<0.000648	mg/Kg - dry	0.000648	0.000867	1	08/13/20 21:02	MLR	L506498
Indeno(1,2,3-cd)pyrene	0.00144 B	mg/Kg - dry	0.000445	0.000867	1	08/13/20 21:02	MLR	L506498
2-Methylnaphthalene	<0.000702	mg/Kg - dry	0.000702	0.000867	1	08/13/20 21:02	MLR	L506498
Naphthalene	<0.000604	mg/Kg - dry	0.000604	0.000867	1	08/13/20 21:02	MLR	L506498
Phenanthrene	<0.000847	mg/Kg - dry	0.000847	0.000867	1	08/13/20 21:02	MLR	L506498
Pyrene	0.000610 J	mg/Kg - dry	0.000501	0.000867	1	08/13/20 21:02	MLR	L506498
Surrogate: 2-Fluorobiphenyl	47.9			Limits: 33-115%	1	08/13/20 21:02	MLR	L506498
Surrogate: Nitrobenzene-d5	47.2			Limits: 29-110%	1	08/13/20 21:02	MLR	L506498
Surrogate: 4-Terphenyl-d14	62.6			Limits: 33-122%	1	08/13/20 21:02	MLR	L506498

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<4.27	mg/Kg - dry	4.27	4.27	1	08/12/20 13:43	MMK	L505941
Oil Range Organics (>C28-C40)	<4.27	mg/Kg - dry	4.27	4.27	1	08/12/20 13:43	MMK	L505941
TN EPH (C10-C40)	<4.27	mg/Kg - dry	4.27	4.27	1	08/12/20 13:43		L505941
Surrogate: OTP Surrogate	108			Limits: 50-150%	1	08/12/20 13:43	MMK	L505941

Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

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Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

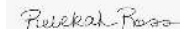
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93208**

Sample ID : **167SSB0901**

Matrix: **Solids**

Sampled: **8/7/2020 9:10**

Test	Results	Units	MDL	ML	DF	Date / Time Analyzed	By	Analytical Method
Moisture	16.1	%			1	08/11/20 14:04	FMM	SW-DRYWT
Arsenic	12.8	mg/Kg - dry	0.286	0.596	1	08/13/20 22:01	TJS	6010D
Barium	155	mg/Kg - dry	0.155	0.596	1	08/13/20 22:01	TJS	6010D
Cadmium	0.311	mg/Kg - dry	0.0238	0.119	1	08/13/20 22:01	TJS	6010D
Chromium	19.3	mg/Kg - dry	0.281	0.297	1	08/13/20 22:01	TJS	6010D
Lead	55.1	mg/Kg - dry	0.214	0.357	1	08/13/20 22:01	TJS	6010D
Mercury	0.0765	mg/Kg - dry	0.00371	0.0168	1	08/13/20 13:34	DDB	7471A
Selenium	<0.381	mg/Kg - dry	0.381	0.595	1	08/14/20 14:21	TJS	6010D
Silver	<0.191	mg/Kg - dry	0.191	0.298	1	08/14/20 14:21	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis, TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93208**

Sample ID : **167SSB0901**

Matrix: **Solids**

Sampled: **8/7/2020 9:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.047	1	08/10/20 14:05	ELM	L505699
Acetonitrile	<0.054	mg/Kg - dry	0.054	0.119	1	08/10/20 14:05	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.047	1	08/10/20 14:05	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.047	1	08/10/20 14:05	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
Bromobenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:05	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:05	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:05	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.009	mg/Kg - dry	0.009	0.047	1	08/10/20 14:05	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:05	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:05	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:05	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 14:05	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:05	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis, TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93208**

Sample ID : **167SSB0901**

Matrix: **Solids**

Sampled: **8/7/2020 9:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 14:05	ELM	L505699
1,2-Dibromoethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:05	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:05	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:05		L505699
1,2-Dichloropropane	<0.0010	mg/Kg - dry	0.0010	0.002	1	08/10/20 14:05	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
2,2-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
1,1-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:05	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
Ethyl Acetate	<0.008	mg/Kg - dry	0.008	0.047	1	08/10/20 14:05	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93208**

Sample ID : **167SSB0901**

Matrix: **Solids**

Sampled: **8/7/2020 9:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:05	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
2-Hexanone	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 14:05	ELM	L505699
Iodomethane	<0.0010	mg/Kg - dry	0.0010	0.011	1	08/10/20 14:05	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 14:05	ELM	L505699
Methylene Chloride	<0.006	mg/Kg - dry	0.006	0.047	1	08/10/20 14:05	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.004	1	08/10/20 14:05	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.011	1	08/10/20 14:05	ELM	L505699
o-Xylene	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:05	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.011	1	08/10/20 14:05	ELM	L505699
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,1,1-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:05	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180
 Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93208**
 Sample ID : **167SSB0901**

Matrix: **Solids**
 Sampled: **8/7/2020 9:10**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:05	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,2,3-Trichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:05	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:05	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.047	1	08/10/20 14:05	ELM	L505699
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:05	ELM	L505699
Xylene (Total)	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:05		L505699
Surrogate: 4-Bromofluorobenzene	102		Limits: 60-130%		1	08/10/20 14:05	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	126		Limits: 60-132%		1	08/10/20 14:05	ELM	L505699
Surrogate: Toluene-d8	95.6		Limits: 70-130%		1	08/10/20 14:05	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000513	mg/Kg - dry	0.000513	0.000798	1	08/13/20 21:23	MLR	L506498
Acenaphthylene	<0.000455	mg/Kg - dry	0.000455	0.000798	1	08/13/20 21:23	MLR	L506498
Anthracene	<0.000507	mg/Kg - dry	0.000507	0.000798	1	08/13/20 21:23	MLR	L506498
Benzo(a)anthracene	0.0160	mg/Kg - dry	0.000525	0.000798	1	08/13/20 21:23	MLR	L506498
Benzo(a)pyrene	<0.000158	mg/Kg - dry	0.000158	0.000798	1	08/13/20 21:23	MLR	L506498
Benzo(b)fluoranthene	0.0305	mg/Kg - dry	0.000164	0.000798	1	08/13/20 21:23	MLR	L506498
Benzo(g,h,i)perylene	0.0175	mg/Kg - dry	0.000275	0.000798	1	08/13/20 21:23	MLR	L506498

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180
 Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93208**
 Sample ID : **167SSB0901**

Matrix: **Solids**
 Sampled: **8/7/2020 9:10**

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	0.0159	mg/Kg - dry	0.000579	0.000798	1	08/13/20 21:23	MLR	L506498
Chrysene	0.0170	mg/Kg - dry	0.000305	0.000798	1	08/13/20 21:23	MLR	L506498
Dibenz(a,h)anthracene	<0.000332	mg/Kg - dry	0.000332	0.000798	1	08/13/20 21:23	MLR	L506498
Fluoranthene	0.0360	mg/Kg - dry	0.000630	0.000798	1	08/13/20 21:23	MLR	L506498
Fluorene	<0.000597	mg/Kg - dry	0.000597	0.000798	1	08/13/20 21:23	MLR	L506498
Indeno(1,2,3-cd)pyrene	0.0198	mg/Kg - dry	0.000410	0.000798	1	08/13/20 21:23	MLR	L506498
2-Methylnaphthalene	<0.000646	mg/Kg - dry	0.000646	0.000798	1	08/13/20 21:23	MLR	L506498
Naphthalene	<0.000556	mg/Kg - dry	0.000556	0.000798	1	08/13/20 21:23	MLR	L506498
Phenanthrene	<0.000779	mg/Kg - dry	0.000779	0.000798	1	08/13/20 21:23	MLR	L506498
Pyrene	0.0278	mg/Kg - dry	0.000461	0.000798	1	08/13/20 21:23	MLR	L506498
Surrogate: 2-Fluorobiphenyl	33.0			Limits: 33-115%	1	08/13/20 21:23	MLR	L506498
Surrogate: Nitrobenzene-d5	30.6			Limits: 29-110%	1	08/13/20 21:23	MLR	L506498
Surrogate: 4-Terphenyl-d14	38.4			Limits: 33-122%	1	08/13/20 21:23	MLR	L506498

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	7.56	mg/Kg - dry	3.93	3.93	1	08/12/20 14:02	MMK	L505941
Oil Range Organics (>C28-C40)	23.4	mg/Kg - dry	3.93	3.93	1	08/12/20 14:02	MMK	L505941
TN EPH (C10-C40)	30.9	mg/Kg - dry	3.93	3.93	1	08/12/20 14:02		L505941
Surrogate: OTP Surrogate	104			Limits: 50-150%	1	08/12/20 14:02	MMK	L505941

Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

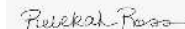
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93209**

Sample ID : **167SSB1001**

Matrix: **Solids**

Sampled: **8/7/2020 10:15**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	13.2	%			1	08/11/20 14:04	FMM	SW-DRYWT
Arsenic	10.7	mg/Kg - dry	0.276	0.576	1	08/13/20 22:06	TJS	6010D
Barium	185	mg/Kg - dry	0.150	0.576	1	08/13/20 22:06	TJS	6010D
Cadmium	0.474	mg/Kg - dry	0.0230	0.115	1	08/13/20 22:06	TJS	6010D
Chromium	16.4	mg/Kg - dry	0.271	0.288	1	08/13/20 22:06	TJS	6010D
Lead	26.4	mg/Kg - dry	0.207	0.345	1	08/13/20 22:06	TJS	6010D
Mercury	0.0510	mg/Kg - dry	0.00397	0.0180	1	08/13/20 17:35	DDB	7471A
Selenium	<0.368	mg/Kg - dry	0.368	0.576	1	08/14/20 14:41	TJS	6010D
Silver	<0.922	mg/Kg - dry	0.922	1.44	5	08/14/20 14:46	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

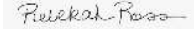
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93209**

Sample ID : **167SSB1001**

Matrix: **Solids**

Sampled: **8/7/2020 10:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.046	1	08/10/20 14:27	ELM	L505699
Acetonitrile	<0.052	mg/Kg - dry	0.052	0.115	1	08/10/20 14:27	ELM	L505699
Acrolein	<0.007	mg/Kg - dry	0.007	0.046	1	08/10/20 14:27	ELM	L505699
Acrylonitrile	<0.002	mg/Kg - dry	0.002	0.046	1	08/10/20 14:27	ELM	L505699
Benzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
Bromobenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:27	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:27	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:27	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.008	mg/Kg - dry	0.008	0.046	1	08/10/20 14:27	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Carbon Tetrachloride	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:27	ELM	L505699
Chlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:27	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:27	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
2-Chloroethylvinyl Ether	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 14:27	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:27	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

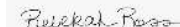
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93209**

Matrix: **Solids**

Sample ID : **167SSB1001**

Sampled: **8/7/2020 10:15**

Analytical Method: 8260B

Prep Batch(es): **L505698** 08/10/20 07:41

Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.004	mg/Kg - dry	0.004	0.011	1	08/10/20 14:27	ELM	L505699
1,2-Dibromoethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
Dibromomethane	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:27	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
cis-1,2-Dichloroethene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:27	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,2-Dichloroethene (Total)	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:27		L505699
1,2-Dichloropropane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:27	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
2,2-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
1,1-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:27	ELM	L505699
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
Ethyl Acetate	<0.008	mg/Kg - dry	0.008	0.046	1	08/10/20 14:27	ELM	L505699

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value

DF Dilution Factor
MQL Method Quantitation Limit

03180

Ensafe
Ms. Allison Harris
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93209**

Matrix: **Solids**

Sample ID : **167SSB1001**

Sampled: **8/7/2020 10:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:27	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
2-Hexanone	<0.005	mg/Kg - dry	0.005	0.011	1	08/10/20 14:27	ELM	L505699
Iodomethane	<0.0009	mg/Kg - dry	0.0009	0.011	1	08/10/20 14:27	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.011	1	08/10/20 14:27	ELM	L505699
Methylene Chloride	<0.006	mg/Kg - dry	0.006	0.046	1	08/10/20 14:27	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.004	1	08/10/20 14:27	ELM	L505699
Naphthalene	<0.007	mg/Kg - dry	0.007	0.011	1	08/10/20 14:27	ELM	L505699
o-Xylene	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:27	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Styrene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.011	1	08/10/20 14:27	ELM	L505699
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,1,1-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:27	ELM	L505699
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

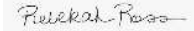
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93209**

Sample ID : **167SSB1001**

Matrix: **Solids**

Sampled: **8/7/2020 10:15**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41

Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:27	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,2,3-Trichloropropane	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:27	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:27	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.046	1	08/10/20 14:27	ELM	L505699
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:27	ELM	L505699
Xylene (Total)	<0.0005	mg/Kg - dry	0.0005	0.002	1	08/10/20 14:27		L505699
Surrogate: 1,2-Dichloroethane - d4	126		Limits: 60-132%		1	08/10/20 14:27	ELM	L505699
Surrogate: 4-Bromofluorobenzene	102		Limits: 60-130%		1	08/10/20 14:27	ELM	L505699
Surrogate: Toluene-d8	98.8		Limits: 70-130%		1	08/10/20 14:27	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04

Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	0.000549 J	mg/Kg - dry	0.000496	0.000771	1	08/13/20 21:44	MLR	L506498
Acenaphthylene	<0.000440	mg/Kg - dry	0.000440	0.000771	1	08/13/20 21:44	MLR	L506498
Anthracene	<0.000490	mg/Kg - dry	0.000490	0.000771	1	08/13/20 21:44	MLR	L506498
Benzo(a)anthracene	0.0104	mg/Kg - dry	0.000508	0.000771	1	08/13/20 21:44	MLR	L506498
Benzo(a)pyrene	<0.000153	mg/Kg - dry	0.000153	0.000771	1	08/13/20 21:44	MLR	L506498
Benzo(b)fluoranthene	0.0229	mg/Kg - dry	0.000158	0.000771	1	08/13/20 21:44	MLR	L506498
Benzo(g,h,i)perylene	0.0131	mg/Kg - dry	0.000266	0.000771	1	08/13/20 21:44	MLR	L506498

Qualifiers/Definitions
 B Analyte detected in blank
 J Estimated value
 DF Dilution Factor
 MQL Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis, TN 38134

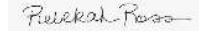
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93209**

Sample ID : **167SSB1001**

Matrix: **Solids**

Sampled: **8/7/2020 10:15**

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04

Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000559	mg/Kg - dry	0.000559	0.000771	1	08/13/20 21:44	MLR	L506498
Chrysene	0.0102	mg/Kg - dry	0.000294	0.000771	1	08/13/20 21:44	MLR	L506498
Dibenz(a,h)anthracene	<0.000321	mg/Kg - dry	0.000321	0.000771	1	08/13/20 21:44	MLR	L506498
Fluoranthene	0.0199	mg/Kg - dry	0.000609	0.000771	1	08/13/20 21:44	MLR	L506498
Fluorene	0.000706 J	mg/Kg - dry	0.000577	0.000771	1	08/13/20 21:44	MLR	L506498
Indeno(1,2,3-cd)pyrene	0.0139	mg/Kg - dry	0.000396	0.000771	1	08/13/20 21:44	MLR	L506498
2-Methylnaphthalene	<0.000624	mg/Kg - dry	0.000624	0.000771	1	08/13/20 21:44	MLR	L506498
Naphthalene	<0.000538	mg/Kg - dry	0.000538	0.000771	1	08/13/20 21:44	MLR	L506498
Phenanthrene	<0.000753	mg/Kg - dry	0.000753	0.000771	1	08/13/20 21:44	MLR	L506498
Pyrene	0.0150	mg/Kg - dry	0.000445	0.000771	1	08/13/20 21:44	MLR	L506498
Surrogate: 2-Fluorobiphenyl	49.2		Limits: 33-115%		1	08/13/20 21:44	MLR	L506498
Surrogate: 4-Terphenyl-d14	60.4		Limits: 33-122%		1	08/13/20 21:44	MLR	L506498
Surrogate: Nitrobenzene-d5	45.9		Limits: 29-110%		1	08/13/20 21:44	MLR	L506498

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04

Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	6.92	mg/Kg - dry	3.80	3.80	1	08/12/20 14:21	MMK	L505941
Oil Range Organics (>C28-C40)	16.1	mg/Kg - dry	3.80	3.80	1	08/12/20 14:21	MMK	L505941
TN EPH (C10-C40)	23.0	mg/Kg - dry	3.80	3.80	1	08/12/20 14:21		L505941
Surrogate: OTP Surrogate	118		Limits: 50-150%		1	08/12/20 14:21	MMK	L505941

Qualifiers/Definitions
B Analyte detected in blank
J Estimated value

DF Dilution Factor
MQL Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

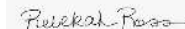
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93210**

Matrix: **Solids**

Sample ID : **167SSB1016**

Sampled: **8/7/2020 10:25**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	21.9	%			1	08/11/20 14:04	FMM	SW-DRYWT
Arsenic	3.55	mg/Kg - dry	0.307	0.640	1	08/13/20 22:12	TJS	6010D
Barium	53.1	mg/Kg - dry	0.166	0.640	1	08/13/20 22:12	TJS	6010D
Cadmium	0.149	mg/Kg - dry	0.0256	0.128	1	08/13/20 22:12	TJS	6010D
Chromium	11.9	mg/Kg - dry	0.302	0.320	1	08/13/20 22:12	TJS	6010D
Lead	4.69	mg/Kg - dry	0.230	0.384	1	08/13/20 22:12	TJS	6010D
Mercury	0.0104 J	mg/Kg - dry	0.00395	0.0179	1	08/13/20 17:36	DDB	7471A
Selenium	<0.409	mg/Kg - dry	0.409	0.640	1	08/13/20 22:12	TJS	6010D
Silver	0.444	mg/Kg - dry	0.205	0.320	1	08/14/20 14:51	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

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Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93210**

Sample ID : **167SSB1016**

Matrix: **Solids**

Sampled: **8/7/2020 10:25**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.005	mg/Kg - dry	0.005	0.052	1	08/10/20 14:48	ELM	L505699
Acetonitrile	<0.059	mg/Kg - dry	0.059	0.130	1	08/10/20 14:48	ELM	L505699
Acrolein	<0.008	mg/Kg - dry	0.008	0.052	1	08/10/20 14:48	ELM	L505699
Acrylonitrile	<0.003	mg/Kg - dry	0.003	0.052	1	08/10/20 14:48	ELM	L505699
Benzene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699
Bromobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
Bromoform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
Bromomethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Methyl Ethyl Ketone (MEK)	<0.010	mg/Kg - dry	0.010	0.052	1	08/10/20 14:48	ELM	L505699
n-Butylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
sec-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
tert-Butyl benzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Carbon Tetrachloride	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:48	ELM	L505699
Chlorobenzene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:48	ELM	L505699
Chlorodibromomethane	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
Chloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
2-Chloroethylvinyl Ether	<0.007	mg/Kg - dry	0.007	0.013	1	08/10/20 14:48	ELM	L505699
Chloroform	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
Chloromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93210**

Sample ID : **167SSB1016**

Matrix: **Solids**

Sampled: **8/7/2020 10:25**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
4-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,2-Dibromo-3-Chloropropane	<0.005	mg/Kg - dry	0.005	0.013	1	08/10/20 14:48	ELM	L505699
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699
Dibromomethane	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:48	ELM	L505699
1,2-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,3-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
cis-1,2-Dichloroethene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:48	ELM	L505699
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,2-Dichloroethene (Total)	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:48		L505699
1,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
2,2-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:48	ELM	L505699
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699
trans-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:48	ELM	L505699
Ethyl Acetate	<0.009	mg/Kg - dry	0.009	0.052	1	08/10/20 14:48	ELM	L505699

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93210**

Sample ID : **167SSB1016**

Matrix: **Solids**

Sampled: **8/7/2020 10:25**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:48	ELM	L505699
Hexachlorobutadiene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
2-Hexanone	<0.006	mg/Kg - dry	0.006	0.013	1	08/10/20 14:48	ELM	L505699
Iodomethane	<0.001	mg/Kg - dry	0.001	0.013	1	08/10/20 14:48	ELM	L505699
Isopropylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
4-Methyl-2-Pentanone	<0.006	mg/Kg - dry	0.006	0.013	1	08/10/20 14:48	ELM	L505699
Methylene Chloride	<0.007	mg/Kg - dry	0.007	0.052	1	08/10/20 14:48	ELM	L505699
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.005	1	08/10/20 14:48	ELM	L505699
Naphthalene	<0.008	mg/Kg - dry	0.008	0.013	1	08/10/20 14:48	ELM	L505699
o-Xylene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:48	ELM	L505699
n-Propylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Styrene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,1,2,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Toluene	<0.004	mg/Kg - dry	0.004	0.013	1	08/10/20 14:48	ELM	L505699
1,2,3-Trichlorobenzene	<0.002	mg/Kg - dry	0.002	0.002	1	08/10/20 14:48	ELM	L505699
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,1,1-Trichloroethane	<0.0009	mg/Kg - dry	0.0009	0.002	1	08/10/20 14:48	ELM	L505699
1,1,2-Trichloroethane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699


Qualifiers/ B Analyte detected in blank DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

03180

Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93210**

Matrix: **Solids**

Sample ID : **167SSB1016**

Sampled: **8/7/2020 10:25**

Analytical Method: 8260B **Prep Batch(es):** **L505698** 08/10/20 07:41
Prep Method: 5030A

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:48	ELM	L505699
Trichlorofluoromethane	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,2,3-Trichloropropane	<0.0008	mg/Kg - dry	0.0008	0.002	1	08/10/20 14:48	ELM	L505699
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
1,3,5-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.002	1	08/10/20 14:48	ELM	L505699
Vinyl Acetate	<0.004	mg/Kg - dry	0.004	0.052	1	08/10/20 14:48	ELM	L505699
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.002	1	08/10/20 14:48	ELM	L505699
Xylene (Total)	<0.0006	mg/Kg - dry	0.0006	0.002	1	08/10/20 14:48		L505699
Surrogate: 4-Bromofluorobenzene	102		Limits: 60-130%		1	08/10/20 14:48	ELM	L505699
Surrogate: 1,2-Dichloroethane - d4	119		Limits: 60-132%		1	08/10/20 14:48	ELM	L505699
Surrogate: Toluene-d8	104		Limits: 70-130%		1	08/10/20 14:48	ELM	L505699

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000551	mg/Kg - dry	0.000551	0.000857	1	08/13/20 22:05	MLR	L506498
Acenaphthylene	<0.000489	mg/Kg - dry	0.000489	0.000857	1	08/13/20 22:05	MLR	L506498
Anthracene	<0.000545	mg/Kg - dry	0.000545	0.000857	1	08/13/20 22:05	MLR	L506498
Benzo(a)anthracene	0.000614 J	mg/Kg - dry	0.000564	0.000857	1	08/13/20 22:05	MLR	L506498
Benzo(a)pyrene	<0.000170	mg/Kg - dry	0.000170	0.000857	1	08/13/20 22:05	MLR	L506498
Benzo(b)fluoranthene	0.000778 J	mg/Kg - dry	0.000176	0.000857	1	08/13/20 22:05	MLR	L506498
Benzo(g,h,i)perylene	0.00108	mg/Kg - dry	0.000295	0.000857	1	08/13/20 22:05	MLR	L506498

Qualifiers/ B Analyte detected in blank DF Dilution Factor
Definitions J Estimated value MQL Method Quantitation Limit

03180

Ensafe
Ms. Allison Harris
5724 Summer Tree Drive
Memphis , TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93210**
Sample ID : **167SSB1016**

Matrix: **Solids**
Sampled: **8/7/2020 10:25**

Analytical Method: 8270D SIM **Prep Batch(es):** **L506017** 08/12/20 16:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.000622	mg/Kg - dry	0.000622	0.000857	1	08/13/20 22:05	MLR	L506498
Chrysene	0.000349 J	mg/Kg - dry	0.000327	0.000857	1	08/13/20 22:05	MLR	L506498
Dibenz(a,h)anthracene	0.00117	mg/Kg - dry	0.000357	0.000857	1	08/13/20 22:05	MLR	L506498
Fluoranthene	<0.000677	mg/Kg - dry	0.000677	0.000857	1	08/13/20 22:05	MLR	L506498
Fluorene	<0.000641	mg/Kg - dry	0.000641	0.000857	1	08/13/20 22:05	MLR	L506498
Indeno(1,2,3-cd)pyrene	<0.000440	mg/Kg - dry	0.000440	0.000857	1	08/13/20 22:05	MLR	L506498
2-Methylnaphthalene	<0.000693	mg/Kg - dry	0.000693	0.000857	1	08/13/20 22:05	MLR	L506498
Naphthalene	<0.000597	mg/Kg - dry	0.000597	0.000857	1	08/13/20 22:05	MLR	L506498
Phenanthrene	<0.000837	mg/Kg - dry	0.000837	0.000857	1	08/13/20 22:05	MLR	L506498
Pyrene	0.000560 J	mg/Kg - dry	0.000495	0.000857	1	08/13/20 22:05	MLR	L506498
Surrogate: 2-Fluorobiphenyl	55.6		Limits: 33-115%		1	08/13/20 22:05	MLR	L506498
Surrogate: Nitrobenzene-d5	57.1		Limits: 29-110%		1	08/13/20 22:05	MLR	L506498
Surrogate: 4-Terphenyl-d14	75.8		Limits: 33-122%		1	08/13/20 22:05	MLR	L506498

Analytical Method: TN EPH **Prep Batch(es):** **L505693** 08/11/20 10:04
Prep Method: 3550B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	4.57	mg/Kg - dry	4.23	4.23	1	08/12/20 14:40	MMK	L505941
Oil Range Organics (>C28-C40)	26.6	mg/Kg - dry	4.23	4.23	1	08/12/20 14:40	MMK	L505941
TN EPH (C10-C40)	31.2	mg/Kg - dry	4.23	4.23	1	08/12/20 14:40		L505941
Surrogate: OTP Surrogate	96.7		Limits: 50-150%		1	08/12/20 14:40	MMK	L505941

Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project

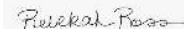
Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Rebekah Ross

Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93211**

Matrix: **Aqueous**

Sample ID : **167GMW03080720**

Sampled: **8/7/2020 12:30**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Arsenic	<0.0056	mg/L	0.0056	0.0100	1	08/11/20 19:14	TJS	6010D
Barium	0.157	mg/L	0.0040	0.0100	1	08/11/20 19:14	TJS	6010D
Cadmium	<0.0003	mg/L	0.0003	0.0020	1	08/11/20 19:14	TJS	6010D
Chromium	<0.003	mg/L	0.003	0.005	1	08/11/20 19:14	TJS	6010D
Lead	<0.002	mg/L	0.002	0.006	1	08/11/20 19:14	TJS	6010D
Mercury	<0.00013	mg/L	0.00013	0.00020	1	08/13/20 13:42	DDB	7470A
Selenium	<0.003	mg/L	0.003	0.010	1	08/12/20 16:42	TJS	6010D
Silver	<0.0023	mg/L	0.0023	0.0050	1	08/11/20 19:14	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

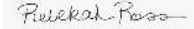
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93211**

Sample ID : **167GMW03080720**

Matrix: **Aqueous**

Sampled: **8/7/2020 12:30**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.009	mg/L	0.009	0.020	1	08/08/20 18:14	ASH	L505439
Acetonitrile	<0.018	mg/L	0.018	0.050	1	08/08/20 18:14	ASH	L505439
Acrolein	<0.002	mg/L	0.002	0.020	1	08/08/20 18:14	ASH	L505439
Acrylonitrile	<0.002	mg/L	0.002	0.020	1	08/08/20 18:14	ASH	L505439
Benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
Bromobenzene	<0.0007	mg/L	0.0007	0.001	1	08/08/20 18:14	ASH	L505439
Bromochloromethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
Bromodichloromethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 18:14	ASH	L505439
Bromoform	<0.0009	mg/L	0.0009	0.001	1	08/08/20 18:14	ASH	L505439
Bromomethane	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.002	mg/L	0.002	0.020	1	08/08/20 18:14	ASH	L505439
n-Butylbenzene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 18:14	ASH	L505439
sec-Butyl benzene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
tert-Butyl benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
Carbon Disulfide	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
Carbon Tetrachloride	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
Chlorobenzene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
Chlorodibromomethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 18:14	ASH	L505439
Chloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
2-Chloroethylvinyl Ether	<0.002	mg/L	0.002	0.005	1	08/08/20 18:14	ASH	L505439
Chloroform	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
Chloromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 18:14	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93211**

Sample ID : **167GMW03080720**

Matrix: **Aqueous**

Sampled: **8/7/2020 12:30**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
4-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
1,2-Dibromoethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
Dibromomethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
1,2-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
1,3-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
1,4-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
Dichlorodifluoromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 18:14	ASH	L505439
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
1,2-Dichloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
1,1-Dichloroethene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
cis-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
trans-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
1,2-Dichloroethene (Total)	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14		L505439
1,2-Dichloropropane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
1,3-Dichloropropane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
2,2-Dichloropropane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
1,1-Dichloropropene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
cis-1,3-Dichloropropene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
trans-1,3-Dichloropropene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
Ethyl Acetate	<0.003	mg/L	0.003	0.010	1	08/08/20 18:14	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93211**

Matrix: **Aqueous**

Sample ID : **167GMW03080720**

Sampled: **8/7/2020 12:30**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
Hexachlorobutadiene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
2-Hexanone	<0.001	mg/L	0.001	0.005	1	08/08/20 18:14	ASH	L505439
Iodomethane	<0.001	mg/L	0.001	0.005	1	08/08/20 18:14	ASH	L505439
Isopropylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
4-Isopropyl toluene	<0.0009	mg/L	0.0009	0.001	1	08/08/20 18:14	ASH	L505439
4-Methyl-2-Pentanone	<0.001	mg/L	0.001	0.005	1	08/08/20 18:14	ASH	L505439
Methylene Chloride	<0.004	mg/L	0.004	0.005	1	08/08/20 18:14	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
m,p-Xylene	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
Naphthalene	<0.004	mg/L	0.004	0.005	1	08/08/20 18:14	ASH	L505439
o-Xylene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
n-Propylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
Styrene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 18:14	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 18:14	ASH	L505439
Tetrachloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 18:14	ASH	L505439
Toluene	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
1,2,3-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
1,2,4-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 18:14	ASH	L505439
1,1,1-Trichloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180
 Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93211**
 Sample ID : **167GMW03080720**

Matrix: **Aqueous**
 Sampled: **8/7/2020 12:30**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
Trichlorofluoromethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
1,2,3-Trichloropropane	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14	ASH	L505439
1,2,4-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
1,3,5-Trimethylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 18:14	ASH	L505439
Vinyl Acetate	<0.002	mg/L	0.002	0.010	1	08/08/20 18:14	ASH	L505439
Vinyl Chloride	<0.0003	mg/L	0.0003	0.001	1	08/08/20 18:14	ASH	L505439
Xylene (Total)	<0.0005	mg/L	0.0005	0.001	1	08/08/20 18:14		L505439
Surrogate: 4-Bromofluorobenzene	91.8		Limits: 71-137%		1	08/08/20 18:14	ASH	L505439
Surrogate: Dibromofluoromethane	126		Limits: 70-128%		1	08/08/20 18:14	ASH	L505439
Surrogate: 1,2-Dichloroethane - d4	132		Limits: 63-136%		1	08/08/20 18:14	ASH	L505439
Surrogate: Toluene-d8	105		Limits: 70-130%		1	08/08/20 18:14	ASH	L505439

Analytical Method: 8270D SIM **Prep Batch(es):** **L505416** 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000018	mg/L	0.000018	0.000020	1	08/10/20 19:44	MLR	L505705
Acenaphthylene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 19:44	MLR	L505705
Anthracene	0.000005 J	mg/L	0.000005	0.000020	1	08/10/20 19:44	MLR	L505705
Benzo(a)anthracene	<0.000011	mg/L	0.000011	0.000020	1	08/10/20 19:44	MLR	L505705
Benzo(a)pyrene	<0.000012	mg/L	0.000012	0.000020	1	08/10/20 19:44	MLR	L505705
Benzo(b)fluoranthene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 19:44	MLR	L505705

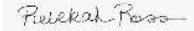
Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

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Ms. Allison Harris
5724 Summer Tree Drive
Memphis, TN 38134

Project Former Wayne's Pinball Palace
Information : 167 Chelsea Avenue, Memphis, TN
Project No. 0888826703

Report Date : 08/14/2020
Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93211**

Matrix: **Aqueous**

Sample ID : **167GMW03080720**

Sampled: **8/7/2020 12:30**

Analytical Method: 8270D SIM

Prep Batch(es): **L505416** 08/10/20 12:30

Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(g,h,i)perylene	<0.000007	mg/L	0.000007	0.000020	1	08/10/20 19:44	MLR	L505705
Benzo(k)fluoranthene	<0.000016	mg/L	0.000016	0.000020	1	08/10/20 19:44	MLR	L505705
Chrysene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 19:44	MLR	L505705
Dibenz(a,h)anthracene	<0.000006	mg/L	0.000006	0.000020	1	08/10/20 19:44	MLR	L505705
Fluoranthene	<0.000005	mg/L	0.000005	0.000020	1	08/10/20 19:44	MLR	L505705
Fluorene	<0.000010	mg/L	0.000010	0.000020	1	08/10/20 19:44	MLR	L505705
Indeno(1,2,3-cd)pyrene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 19:44	MLR	L505705
2-Methylnaphthalene	0.000051	mg/L	0.000018	0.000020	1	08/10/20 19:44	MLR	L505705
Naphthalene	0.000158	mg/L	0.000019	0.000020	1	08/10/20 19:44	MLR	L505705
Phenanthrene	0.000011 J	mg/L	0.000008	0.000020	1	08/10/20 19:44	MLR	L505705
Pyrene	<0.000009	mg/L	0.000009	0.000020	1	08/10/20 19:44	MLR	L505705
Surrogate: 2-Fluorobiphenyl	104		Limits: 70-130%		1	08/10/20 19:44	MLR	L505705
Surrogate: 4-Terphenyl-d14	98.3		Limits: 70-130%		1	08/10/20 19:44	MLR	L505705

Analytical Method: TN EPH

Prep Batch(es): **L505744** 08/11/20 14:30

Prep Method: 3510C

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	0.0872 JB	mg/L	0.0548	0.0900	1	08/13/20 01:24	MMK	L505943
Oil Range Organics (>C28-C40)	<0.0841	mg/L	0.0841	0.0900	1	08/13/20 01:24	MMK	L505943
TN EPH (C10-C40)	0.0872 JB	mg/L	0.0548	0.0900	1	08/13/20 01:24		L505943
Surrogate: OTP Surrogate	60.3		Limits: 50-150%		1	08/13/20 01:24	MMK	L505943

**Qualifiers/
Definitions**

B	Analyte detected in blank	DF	Dilution Factor
J	Estimated value	MQL	Method Quantitation Limit

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Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

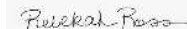
Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93212**

Matrix: **Aqueous**

Sample ID : **167GMW04080720**

Sampled: **8/7/2020 13:00**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Arsenic	<0.0056	mg/L	0.0056	0.0100	1	08/11/20 19:19	TJS	6010D
Barium	0.136	mg/L	0.0040	0.0100	1	08/11/20 19:19	TJS	6010D
Cadmium	<0.0003	mg/L	0.0003	0.0020	1	08/11/20 19:19	TJS	6010D
Chromium	0.012	mg/L	0.003	0.005	1	08/11/20 19:19	TJS	6010D
Lead	0.004 J	mg/L	0.002	0.006	1	08/11/20 19:19	TJS	6010D
Mercury	<0.00013	mg/L	0.00013	0.00020	1	08/13/20 13:44	DDB	7470A
Selenium	<0.003	mg/L	0.003	0.010	1	08/12/20 16:47	TJS	6010D
Silver	<0.0023	mg/L	0.0023	0.0050	1	08/11/20 19:19	TJS	6010D

**Qualifiers/
Definitions**

B Analyte detected in blank
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
L Limit Exceeded

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 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
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 Project No. 0888826703

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Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93212**
 Sample ID : **167GMW04080720**

Matrix: **Aqueous**
 Sampled: **8/7/2020 13:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.092	mg/L	0.092	0.200	10	08/08/20 18:36	ASH	L505439
Acetonitrile	<0.185	mg/L	0.185	0.500	10	08/08/20 18:36	ASH	L505439
Acrolein	<0.029	mg/L	0.029	0.200	10	08/08/20 18:36	ASH	L505439
Acrylonitrile	<0.023	mg/L	0.023	0.200	10	08/08/20 18:36	ASH	L505439
Benzene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
Bromobenzene	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
Bromochloromethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
Bromodichloromethane	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
Bromoform	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
Bromomethane	<0.010	mg/L	0.010	0.020	10	08/08/20 18:36	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.021	mg/L	0.021	0.200	10	08/08/20 18:36	ASH	L505439
n-Butylbenzene	<0.009	mg/L	0.009	0.010	10	08/08/20 18:36	ASH	L505439
sec-Butyl benzene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
tert-Butyl benzene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
Carbon Disulfide	<0.002	mg/L	0.002	0.010	10	08/08/20 18:36	ASH	L505439
Carbon Tetrachloride	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
Chlorobenzene	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
Chlorodibromomethane	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
Chloroethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
2-Chloroethylvinyl Ether	<0.025	mg/L	0.025	0.050	10	08/08/20 18:36	ASH	L505439
Chloroform	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439
Chloromethane	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

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Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93212**

Sample ID : **167GMW04080720**

Matrix: **Aqueous**

Sampled: **8/7/2020 13:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
4-Chlorotoluene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.011	mg/L	0.011	0.020	10	08/08/20 18:36	ASH	L505439
1,2-Dibromoethane	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
Dibromomethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
1,2-Dichlorobenzene	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
1,3-Dichlorobenzene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
1,4-Dichlorobenzene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
Dichlorodifluoromethane	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
1,1-Dichloroethane	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
1,2-Dichloroethane	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
1,1-Dichloroethene	<0.002	mg/L	0.002	0.010	10	08/08/20 18:36	ASH	L505439
cis-1,2-Dichloroethene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
trans-1,2-Dichloroethene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
1,2-Dichloroethene (Total)	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36		L505439
1,2-Dichloropropane	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
1,3-Dichloropropane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
2,2-Dichloropropane	<0.006	mg/L	0.006	0.010	10	08/08/20 18:36	ASH	L505439
1,1-Dichloropropene	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439
cis-1,3-Dichloropropene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
trans-1,3-Dichloropropene	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
Ethyl Acetate	<0.034	mg/L	0.034	0.100	10	08/08/20 18:36	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

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5724 Summer Tree Drive

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Project

Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020

Rebekah Ross

Rebekah Ross
Project Manager

Report Number : **20-220-0136**

REPORT OF ANALYSIS

Lab No : **93212**

Sample ID : **167GMW04080720**

Matrix: **Aqueous**

Sampled: **8/7/2020 13:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
Hexachlorobutadiene	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
2-Hexanone	<0.015	mg/L	0.015	0.050	10	08/08/20 18:36	ASH	L505439
Iodomethane	<0.019	mg/L	0.019	0.050	10	08/08/20 18:36	ASH	L505439
Isopropylbenzene	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439
4-Isopropyl toluene	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
4-Methyl-2-Pentanone	<0.017	mg/L	0.017	0.050	10	08/08/20 18:36	ASH	L505439
Methylene Chloride	<0.042	mg/L	0.042	0.050	10	08/08/20 18:36	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
m,p-Xylene	<0.019	mg/L	0.019	0.020	10	08/08/20 18:36	ASH	L505439
Naphthalene	<0.045	mg/L	0.045	0.050	10	08/08/20 18:36	ASH	L505439
o-Xylene	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
n-Propylbenzene	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439
Styrene	<0.009	mg/L	0.009	0.010	10	08/08/20 18:36	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36	ASH	L505439
Tetrachloroethene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
Toluene	<0.015	mg/L	0.015	0.020	10	08/08/20 18:36	ASH	L505439
1,2,3-Trichlorobenzene	<0.010	mg/L	0.010	0.020	10	08/08/20 18:36	ASH	L505439
1,2,4-Trichlorobenzene	<0.011	mg/L	0.011	0.020	10	08/08/20 18:36	ASH	L505439
1,1,1-Trichloroethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
1,1,2-Trichloroethane	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

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 Project No. 0888826703

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Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93212**
 Sample ID : **167GMW04080720**

Matrix: **Aqueous**
 Sampled: **8/7/2020 13:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
Trichlorofluoromethane	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
1,2,3-Trichloropropane	<0.004	mg/L	0.004	0.010	10	08/08/20 18:36	ASH	L505439
1,2,4-Trimethylbenzene	<0.008	mg/L	0.008	0.010	10	08/08/20 18:36	ASH	L505439
1,3,5-Trimethylbenzene	<0.007	mg/L	0.007	0.010	10	08/08/20 18:36	ASH	L505439
Vinyl Acetate	<0.025	mg/L	0.025	0.100	10	08/08/20 18:36	ASH	L505439
Vinyl Chloride	<0.003	mg/L	0.003	0.010	10	08/08/20 18:36	ASH	L505439
Xylene (Total)	<0.005	mg/L	0.005	0.010	10	08/08/20 18:36		L505439
Surrogate: 4-Bromofluorobenzene	101		Limits: 71-137%		10	08/08/20 18:36	ASH	L505439
Surrogate: Dibromofluoromethane	122		Limits: 70-128%		10	08/08/20 18:36	ASH	L505439
Surrogate: 1,2-Dichloroethane - d4	129		Limits: 63-136%		10	08/08/20 18:36	ASH	L505439
Surrogate: Toluene-d8	103		Limits: 70-130%		10	08/08/20 18:36	ASH	L505439

Analytical Method: 8270D SIM **Prep Batch(es):** **L505416** 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000018	mg/L	0.000018	0.000020	1	08/10/20 20:05	MLR	L505705
Acenaphthylene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:05	MLR	L505705
Anthracene	0.000008 J	mg/L	0.000005	0.000020	1	08/10/20 20:05	MLR	L505705
Benzo(a)anthracene	<0.000011	mg/L	0.000011	0.000020	1	08/10/20 20:05	MLR	L505705
Benzo(a)pyrene	<0.000012	mg/L	0.000012	0.000020	1	08/10/20 20:05	MLR	L505705
Benzo(b)fluoranthene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:05	MLR	L505705

Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

03180
 Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis, TN 38134

Project Former Wayne's Pinball Palace
 Information: 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date: 08/14/2020
 Received: 08/07/2020



Report Number: 20-220-0136

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No: 93212
 Sample ID: 167GMW04080720

Matrix: Aqueous
 Sampled: 8/7/2020 13:00

Analytical Method: 8270D SIM **Prep Batch(es):** L505416 08/10/20 12:30
Prep Method: 3511

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(g,h,i)perylene	<0.000007	mg/L	0.000007	0.000020	1	08/10/20 20:05	MLR	L505705
Benzo(k)fluoranthene	<0.000016	mg/L	0.000016	0.000020	1	08/10/20 20:05	MLR	L505705
Chrysene	<0.000008	mg/L	0.000008	0.000020	1	08/10/20 20:05	MLR	L505705
Dibenz(a,h)anthracene	<0.000006	mg/L	0.000006	0.000020	1	08/10/20 20:05	MLR	L505705
Fluoranthene	<0.000005	mg/L	0.000005	0.000020	1	08/10/20 20:05	MLR	L505705
Fluorene	<0.000010	mg/L	0.000010	0.000020	1	08/10/20 20:05	MLR	L505705
Indeno(1,2,3-cd)pyrene	<0.000014	mg/L	0.000014	0.000020	1	08/10/20 20:05	MLR	L505705
2-Methylnaphthalene	0.000048	mg/L	0.000018	0.000020	1	08/10/20 20:05	MLR	L505705
Naphthalene	0.000181	mg/L	0.000019	0.000020	1	08/10/20 20:05	MLR	L505705
Phenanthrene	0.000008 J	mg/L	0.000008	0.000020	1	08/10/20 20:05	MLR	L505705
Pyrene	<0.000009	mg/L	0.000009	0.000020	1	08/10/20 20:05	MLR	L505705
Surrogate: 2-Fluorobiphenyl	102		Limits: 70-130%		1	08/10/20 20:05	MLR	L505705
Surrogate: 4-Terphenyl-d14	105		Limits: 70-130%		1	08/10/20 20:05	MLR	L505705

Analytical Method: TN EPH **Prep Batch(es):** L505744 08/11/20 14:30
Prep Method: 3510C

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	<0.0548	mg/L	0.0548	0.0900	1	08/13/20 01:43	MMK	L505943
Oil Range Organics (>C28-C40)	<0.0841	mg/L	0.0841	0.0900	1	08/13/20 01:43	MMK	L505943
TN EPH (C10-C40)	<0.0548	mg/L	0.0548	0.0900	1	08/13/20 01:43		L505943
Surrogate: OTP Surrogate	72.7		Limits: 50-150%		1	08/13/20 01:43	MMK	L505943

Qualifiers/Definitions
 B Analyte detected in blank DF Dilution Factor
 J Estimated value MQL Method Quantitation Limit

03180

Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93213**
 Sample ID : **167TB080720**

Matrix: **Aqueous**
 Sampled: **8/7/2020 12:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.009	mg/L	0.009	0.020	1	08/08/20 17:53	ASH	L505439
Acetonitrile	<0.018	mg/L	0.018	0.050	1	08/08/20 17:53	ASH	L505439
Acrolein	<0.002	mg/L	0.002	0.020	1	08/08/20 17:53	ASH	L505439
Acrylonitrile	<0.002	mg/L	0.002	0.020	1	08/08/20 17:53	ASH	L505439
Benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
Bromobenzene	<0.0007	mg/L	0.0007	0.001	1	08/08/20 17:53	ASH	L505439
Bromochloromethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
Bromodichloromethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 17:53	ASH	L505439
Bromoform	<0.0009	mg/L	0.0009	0.001	1	08/08/20 17:53	ASH	L505439
Bromomethane	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
Methyl Ethyl Ketone (MEK)	<0.002	mg/L	0.002	0.020	1	08/08/20 17:53	ASH	L505439
n-Butylbenzene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 17:53	ASH	L505439
sec-Butyl benzene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 17:53	ASH	L505439
tert-Butyl benzene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
Carbon Disulfide	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
Carbon Tetrachloride	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
Chlorobenzene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
Chlorodibromomethane	<0.0009	mg/L	0.0009	0.001	1	08/08/20 17:53	ASH	L505439
Chloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
2-Chloroethylvinyl Ether	<0.002	mg/L	0.002	0.005	1	08/08/20 17:53	ASH	L505439
Chloroform	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439
Chloromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 17:53	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe

Ms. Allison Harris

5724 Summer Tree Drive

Memphis , TN 38134

Project Former Wayne's Pinball Palace

Information : 167 Chelsea Avenue, Memphis, TN

Project No. 0888826703

Report Date : 08/14/2020

Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
Project Manager

Lab No : **93213**

Sample ID : **167TB080720**

Matrix: **Aqueous**

Sampled: **8/7/2020 12:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 17:53	ASH	L505439
4-Chlorotoluene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 17:53	ASH	L505439
1,2-Dibromo-3-Chloropropane	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
1,2-Dibromoethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
Dibromomethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
1,2-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
1,3-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
1,4-Dichlorobenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
Dichlorodifluoromethane	<0.0007	mg/L	0.0007	0.001	1	08/08/20 17:53	ASH	L505439
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
1,2-Dichloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
1,1-Dichloroethene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
cis-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
trans-1,2-Dichloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
1,2-Dichloroethene (Total)	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53		L505439
1,2-Dichloropropane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
1,3-Dichloropropane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
2,2-Dichloropropane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
1,1-Dichloropropene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439
cis-1,3-Dichloropropene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
trans-1,3-Dichloropropene	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
Ethyl Acetate	<0.003	mg/L	0.003	0.010	1	08/08/20 17:53	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

03180

Ensafe
 Ms. Allison Harris
 5724 Summer Tree Drive
 Memphis , TN 38134

Project Former Wayne's Pinball Palace
 Information : 167 Chelsea Avenue, Memphis, TN
 Project No. 0888826703

Report Date : 08/14/2020
 Received : 08/07/2020



Report Number : **20-220-0136**

REPORT OF ANALYSIS

Rebekah Ross
 Project Manager

Lab No : **93213**
 Sample ID : **167TB080720**

Matrix: **Aqueous**
 Sampled: **8/7/2020 12:00**

Analytical Method: 8260B **Prep Batch(es):** **L505402** 08/08/20 07:41
Prep Method: 5030B

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Ethylbenzene	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
Hexachlorobutadiene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439
2-Hexanone	<0.001	mg/L	0.001	0.005	1	08/08/20 17:53	ASH	L505439
Iodomethane	<0.001	mg/L	0.001	0.005	1	08/08/20 17:53	ASH	L505439
Isopropylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439
4-Isopropyl toluene	<0.0009	mg/L	0.0009	0.001	1	08/08/20 17:53	ASH	L505439
4-Methyl-2-Pentanone	<0.001	mg/L	0.001	0.005	1	08/08/20 17:53	ASH	L505439
Methylene Chloride	<0.004	mg/L	0.004	0.005	1	08/08/20 17:53	ASH	L505439
Methyl tert-butyl ether (MTBE)	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
m,p-Xylene	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
Naphthalene	<0.004	mg/L	0.004	0.005	1	08/08/20 17:53	ASH	L505439
o-Xylene	<0.0005	mg/L	0.0005	0.001	1	08/08/20 17:53	ASH	L505439
n-Propylbenzene	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439
Styrene	<0.0010	mg/L	0.0010	0.001	1	08/08/20 17:53	ASH	L505439
1,1,1,2-Tetrachloroethane	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
1,1,2,2-Tetrachloroethane	<0.0006	mg/L	0.0006	0.001	1	08/08/20 17:53	ASH	L505439
Tetrachloroethene	<0.0004	mg/L	0.0004	0.001	1	08/08/20 17:53	ASH	L505439
Toluene	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
1,2,3-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
1,2,4-Trichlorobenzene	<0.001	mg/L	0.001	0.002	1	08/08/20 17:53	ASH	L505439
1,1,1-Trichloroethane	<0.0003	mg/L	0.0003	0.001	1	08/08/20 17:53	ASH	L505439
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.001	1	08/08/20 17:53	ASH	L505439

Qualifiers/Definitions	B	Analyte detected in blank	DF	Dilution Factor
	J	Estimated value	MQL	Method Quantitation Limit

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505628 **QC Analytical Batch(es):** L505888,L506248
QC Prep Batch Method: 3005A **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Lab Reagent Blank LRB-L505628 Matrix: AQU
Associated Lab Samples: 93211, 93212

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Arsenic	mg/L	<0.0056	0.0056	0.0100	08/11/20 19:09
Barium	mg/L	<0.0040	0.0040	0.0100	08/11/20 19:09
Cadmium	mg/L	<0.0003	0.0003	0.0020	08/11/20 19:09
Chromium	mg/L	<0.003	0.003	0.005	08/11/20 19:09
Lead	mg/L	<0.002	0.002	0.006	08/11/20 19:09
Selenium	mg/L	<0.003	0.003	0.010	08/12/20 16:37
Silver	mg/L	<0.0023	0.0023	0.0050	08/11/20 19:09

Laboratory Control Sample LCS-L505628

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Arsenic	mg/L	0.100	0.0974	97.0	80-120
Barium	mg/L	1.00	0.990	99.0	80-120
Cadmium	mg/L	0.100	0.0973	97.0	80-120
Chromium	mg/L	1.00	1.06	106	80-120
Lead	mg/L	0.100	0.101	101	80-120
Selenium	mg/L	0.100	0.095	95.0	80-120
Silver	mg/L	0.100	0.0980	98.0	80-120

Matrix Spike & Matrix Spike Duplicate G 79285-MS-L505628 G 79285-MSD-L505628

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Arsenic	mg/L	0.116	0.100	0.100	0.230	0.233	114	117	75-125	1.2	20
Barium	mg/L	0.0611	1.00	1.00	0.986	0.975	92.0	91.0	75-125	1.1	20
Cadmium	mg/L	<0.0003	0.100	0.100	0.0910	0.0898	91.0	90.0	75-125	1.3	20
Chromium	mg/L	0.318	1.00	1.00	1.30	1.30	98.0	98.0	75-125	0.0	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505628 **QC Analytical Batch(es):** L505888,L506248
QC Prep Batch Method: 3005A **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Matrix Spike & Matrix Spike Duplicate G 79285-MS-L505628 G 79285-MSD-L505628

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Lead	mg/L	<0.002	0.100	0.100	0.091	0.090	91.0	90.0	75-125	1.1	20
Selenium	mg/L	0.075	0.100	0.100	0.161	0.154	86.0	79.0	75-125	4.4	20
Silver	mg/L	<0.0023	0.100	0.100	0.110	0.109	110	109	75-125	0.9	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505738 **QC Analytical Batch(es):** L506391,L506505
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Lab Reagent Blank LRB-L505738 Matrix: SOL
Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Arsenic	mg/Kg	<0.240	0.240	0.500	08/13/20 20:02
Barium	mg/Kg	<0.130	0.130	0.500	08/13/20 20:02
Cadmium	mg/Kg	<0.0200	0.0200	0.100	08/13/20 20:02
Chromium	mg/Kg	<0.236	0.236	0.250	08/13/20 20:02
Lead	mg/Kg	<0.180	0.180	0.300	08/13/20 20:02
Selenium	mg/Kg	<0.320	0.320	0.500	08/13/20 20:02
Silver	mg/Kg	<0.160	0.160	0.250	08/13/20 20:02

Laboratory Control Sample LCS-L505738

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Arsenic	mg/Kg	5.00	5.51	110	80-120
Barium	mg/Kg	50.0	53.1	106	80-120
Cadmium	mg/Kg	5.00	5.22	104	80-120
Chromium	mg/Kg	50.0	54.6	109	80-120
Lead	mg/Kg	5.00	5.43	109	80-120
Selenium	mg/Kg	5.00	5.29	106	80-120
Silver	mg/Kg	5.00	5.82	116	80-120

Matrix Spike & Matrix Spike Duplicate L 93210-MS-L505738 L 93210-MSD-L505738

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Arsenic	mg/Kg	2.77	4.65	4.92	7.26	7.81	97.0	103	75-125	7.2	20
Barium	mg/Kg	41.5	46.5	49.2	78.9	88.8	80.0	96.0	75-125	11.8	20
Cadmium	mg/Kg	0.116	4.65	4.92	3.92	4.33	82.0	86.0	75-125	9.9	20
Chromium	mg/Kg	9.29	46.5	49.2	50.3	54.7	88.0	92.0	75-125	8.3	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505738 **QC Analytical Batch(es):** L506391,L506505
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Matrix Spike & Matrix Spike Duplicate L 93210-MS-L505738 L 93210-MSD-L505738

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Lead	mg/Kg	3.66	4.65	4.92	6.86	8.21	69.0*	93.0	75-125	17.9	20
Selenium	mg/Kg	<0.320	4.65	4.92	3.53	3.94	76.0	80.0	75-125	10.9	20
Silver	mg/Kg	0.347	4.65	4.92	4.96	5.22	99.0	99.0	75-125	5.1	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L506085 **QC Analytical Batch(es):** L506278
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L506085 Matrix: AQU
Associated Lab Samples: 93211, 93212

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/L	<0.00013	0.00013	0.00020	08/13/20 13:30

Laboratory Control Sample LCS-L506085

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00474	119	80-120

Matrix Spike & Matrix Spike Duplicate L 93212-MS-L506085 L 93212-MSD-L506085

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00013	0.00400	0.00400	0.00463	0.00460	116	115	80-120	0.6	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505796 **QC Analytical Batch(es):** L506267
QC Prep Batch Method: 7471A **Analysis Method:** 7471A
Analysis Description: Solids Total Mercury Analysis - CVAA

Lab Reagent Blank LRB-L505796 Matrix: SOL
Associated Lab Samples: 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/Kg	<0.00352	0.00352	0.0160	08/13/20 14:59

Laboratory Control Sample LCS-L505796

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/Kg	0.400	0.365	91.0	80-120

Matrix Spike & Matrix Spike Duplicate E 73302-MS-L505796 E 73302-MSD-L505796

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/Kg	0.0235	0.388	0.369	0.331	0.355	79.0*	90.0	80-120	6.9	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L506032 **QC Analytical Batch(es):** L506267
QC Prep Batch Method: 7471A **Analysis Method:** 7471A
Analysis Description: Solids Total Mercury Analysis - CVA

Lab Reagent Blank LRB-L506032 Matrix: SOL
Associated Lab Samples: 93207

Parameter	Units	Blank Result	MDL	MQL	Analyzed
Mercury	mg/Kg	<0.00352	0.00352	0.0160	08/13/20 15:00

Laboratory Control Sample LCS-L506032

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/Kg	0.400	0.341	85.0	80-120

Matrix Spike & Matrix Spike Duplicate L 93207-MS-L506032 L 93207-MSD-L506032

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/Kg	0.0300	0.351	0.348	0.335	0.344	87.0	90.0	80-120	2.6	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 93211, 93212, 93213

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/L	<0.009	0.009	0.020	08/08/20 10:05		
Acetonitrile	mg/L	<0.018	0.018	0.050	08/08/20 10:05		
Acrolein	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
Acrylonitrile	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
Benzene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Bromobenzene	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
Bromochloromethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Bromodichloromethane	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Bromoform	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Bromomethane	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
Methyl Ethyl Ketone (MEK)	mg/L	<0.002	0.002	0.020	08/08/20 10:05		
n-Butylbenzene	mg/L	<0.0010	0.0010	0.001	08/08/20 10:05		
sec-Butyl benzene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
tert-Butyl benzene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Carbon Disulfide	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Carbon Tetrachloride	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Chlorobenzene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Chlorodibromomethane	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
Chloroethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
2-Chloroethylvinyl Ether	mg/L	<0.002	0.002	0.005	08/08/20 10:05		
Chloroform	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Chloromethane	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
2-Chlorotoluene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
4-Chlorotoluene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
1,2-Dibromo-3-Chloropropane	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2-Dibromoethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Dibromomethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 93211, 93212, 93213

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichlorobenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,3-Dichlorobenzene	mg/L	0.0008	0.0006	0.001	08/08/20 10:05		
1,4-Dichlorobenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Dichlorodifluoromethane	mg/L	<0.0007	0.0007	0.001	08/08/20 10:05		
1,1-Dichloroethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,2-Dichloroethane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,1-Dichloroethene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
cis-1,2-Dichloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
trans-1,2-Dichloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,2-Dichloropropane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,3-Dichloropropane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
2,2-Dichloropropane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
1,1-Dichloropropene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
cis-1,3-Dichloropropene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
trans-1,3-Dichloropropene	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
Ethyl Acetate	mg/L	<0.003	0.003	0.010	08/08/20 10:05		
Ethylbenzene	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Hexachlorobutadiene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
2-Hexanone	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Iodomethane	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Isopropylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
4-Isopropyl toluene	mg/L	<0.0009	0.0009	0.001	08/08/20 10:05		
4-Methyl-2-Pentanone	mg/L	<0.001	0.001	0.005	08/08/20 10:05		
Methylene Chloride	mg/L	<0.004	0.004	0.005	08/08/20 10:05		
Methyl tert-butyl ether (MTBE)	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
m,p-Xylene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
Naphthalene	mg/L	<0.004	0.004	0.005	08/08/20 10:05		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505402 Matrix: AQU
Associated Lab Samples: 93211, 93212, 93213

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
o-Xylene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
n-Propylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Styrene	mg/L	<0.0010	0.0010	0.001	08/08/20 10:05		
1,1,1,2-Tetrachloroethane	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
1,1,1,2-Tetrachloroethane	mg/L	<0.0006	0.0006	0.001	08/08/20 10:05		
Tetrachloroethene	mg/L	<0.0004	0.0004	0.001	08/08/20 10:05		
Toluene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2,3-Trichlorobenzene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,2,4-Trichlorobenzene	mg/L	<0.001	0.001	0.002	08/08/20 10:05		
1,1,1-Trichloroethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
1,1,2-Trichloroethane	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Trichloroethene	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
Trichlorofluoromethane	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
1,2,3-Trichloropropane	mg/L	<0.0005	0.0005	0.001	08/08/20 10:05		
1,2,4-Trimethylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
1,3,5-Trimethylbenzene	mg/L	<0.0008	0.0008	0.001	08/08/20 10:05		
Vinyl Acetate	mg/L	<0.002	0.002	0.010	08/08/20 10:05		
Vinyl Chloride	mg/L	<0.0003	0.0003	0.001	08/08/20 10:05		
4-Bromofluorobenzene (S)					08/08/20 10:05	96.8	71-137
Dibromofluoromethane (S)					08/08/20 10:05	117	70-128
1,2-Dichloroethane - d4 (S)					08/08/20 10:05	126	63-136
Toluene-d8 (S)					08/08/20 10:05	104	70-130

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetone	mg/L	0.100	0.120	120	40-160

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetonitrile	mg/L	1.00	1.01	101	40-160
Acrolein	mg/L	0.100	0.103	103	40-160
Acrylonitrile	mg/L	0.100	0.105	105	40-160
Benzene	mg/L	0.100	0.101	101	70-130
Bromobenzene	mg/L	0.100	0.099	99.9	75-125
Bromochloromethane	mg/L	0.100	0.091	91.1	65-135
Bromodichloromethane	mg/L	0.100	0.104	104	75-125
Bromoform	mg/L	0.100	0.115	115	70-130
Bromomethane	mg/L	0.100	0.122	122	40-160
Methyl Ethyl Ketone (MEK)	mg/L	0.100	0.114	114	40-160
n-Butylbenzene	mg/L	0.100	0.107	107	70-130
sec-Butyl benzene	mg/L	0.100	0.117	117	70-130
tert-Butyl benzene	mg/L	0.100	0.123	123	70-130
Carbon Disulfide	mg/L	0.100	0.085	85.5	40-160
Carbon Tetrachloride	mg/L	0.100	0.103	103	65-135
Chlorobenzene	mg/L	0.100	0.118	118	80-120
Chlorodibromomethane	mg/L	0.100	0.115	115	60-140
Chloroethane	mg/L	0.100	0.079	79.3	60-140
2-Chloroethylvinyl Ether	mg/L	0.100	0.108	108	40-160
Chloroform	mg/L	0.100	0.108	108	80-120
Chloromethane	mg/L	0.100	0.110	110	40-160
2-Chlorotoluene	mg/L	0.100	0.117	117	75-125
4-Chlorotoluene	mg/L	0.100	0.113	113	75-125
1,2-Dibromo-3-Chloropropane	mg/L	0.100	0.103	103	50-150
1,2-Dibromoethane	mg/L	0.100	0.103	103	70-130
Dibromomethane	mg/L	0.100	0.099	99.4	75-125
1,2-Dichlorobenzene	mg/L	0.100	0.096	96.3	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
1,3-Dichlorobenzene	mg/L	0.100	0.112	112	75-125
1,4-Dichlorobenzene	mg/L	0.100	0.106	106	75-125
Dichlorodifluoromethane	mg/L	0.100	0.097	97.0	40-160
1,1-Dichloroethane	mg/L	0.100	0.104	104	70-130
1,2-Dichloroethane	mg/L	0.100	0.112	112	70-130
1,1-Dichloroethene	mg/L	0.100	0.091	91.3	80-120
cis-1,2-Dichloroethene	mg/L	0.100	0.109	109	70-130
trans-1,2-Dichloroethene	mg/L	0.100	0.083	83.3	60-140
1,2-Dichloropropane	mg/L	0.100	0.103	103	80-120
1,3-Dichloropropane	mg/L	0.100	0.107	107	75-125
2,2-Dichloropropane	mg/L	0.100	0.114	114	70-130
1,1-Dichloropropene	mg/L	0.100	0.098	98.8	75-125
cis-1,3-Dichloropropene	mg/L	0.100	0.108	108	70-130
trans-1,3-Dichloropropene	mg/L	0.100	0.106	106	55-145
Ethyl Acetate	mg/L	0.100	0.113	113	40-160
Ethylbenzene	mg/L	0.100	0.111	111	80-120
Hexachlorobutadiene	mg/L	0.100	0.112	112	50-150
2-Hexanone	mg/L	0.100	0.106	106	55-145
Iodomethane	mg/L	0.100	0.079	79.1	40-160
Isopropylbenzene	mg/L	0.100	0.120	120	75-125
4-Isopropyl toluene	mg/L	0.100	0.114	114	75-125
4-Methyl-2-Pentanone	mg/L	0.100	0.106	106	60-140
Methylene Chloride	mg/L	0.100	0.093	93.3	55-145
Methyl tert-butyl ether (MTBE)	mg/L	0.100	0.106	106	65-135
m,p-Xylene	mg/L	0.200	0.227	114	75-125
Naphthalene	mg/L	0.100	0.094	94.5	55-145
o-Xylene	mg/L	0.100	0.110	110	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505402

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
n-Propylbenzene	mg/L	0.100	0.117	117	70-130
Styrene	mg/L	0.100	0.115	115	65-135
1,1,1,2-Tetrachloroethane	mg/L	0.100	0.098	98.5	70-130
1,1,2,2-Tetrachloroethane	mg/L	0.100	0.092	92.1	65-135
Tetrachloroethene	mg/L	0.100	0.115	115	45-155
Toluene	mg/L	0.100	0.099	99.0	80-120
1,2,3-Trichlorobenzene	mg/L	0.100	0.098	98.5	60-140
1,2,4-Trichlorobenzene	mg/L	0.100	0.101	101	65-135
1,1,1-Trichloroethane	mg/L	0.100	0.104	104	65-135
1,1,2-Trichloroethane	mg/L	0.100	0.102	102	75-125
Trichloroethene	mg/L	0.100	0.098	98.5	70-130
Trichlorofluoromethane	mg/L	0.100	0.117	117	40-140
1,2,3-Trichloropropane	mg/L	0.100	0.116	116	75-125
1,2,4-Trimethylbenzene	mg/L	0.100	0.123	123	65-135
1,3,5-Trimethylbenzene	mg/L	0.100	0.110	110	75-125
Vinyl Acetate	mg/L	0.100	0.106	106	40-160
Vinyl Chloride	mg/L	0.100	0.115	115	80-120
4-Bromofluorobenzene (S)				104	71-137
Dibromofluoromethane (S)				101	70-128
1,2-Dichloroethane - d4 (S)				84.2	63-136
Toluene-d8 (S)				97.2	70-130

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetone	mg/L	<0.009	0.100	0.100	0.109	0.134	109	134	40-160	20.5	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetonitrile	mg/L	<0.018	1.00	1.00	0.997	1.35	99.7	135	40-160	30.0*	30
Acrolein	mg/L	<0.002	0.100	0.100	0.095	0.121	95.0	121	40-160	24.0	30
Acrylonitrile	mg/L	<0.002	0.100	0.100	0.110	0.133	110	133	40-160	18.9	30
Benzene	mg/L	0.0005	0.100	0.100	0.101	0.107	101	107	70-130	5.7	30
Bromobenzene	mg/L	<0.0007	0.100	0.100	0.094	0.081	94.4	81.6	75-125	14.5	30
Bromochloromethane	mg/L	<0.0004	0.100	0.100	0.087	0.093	87.7	93.1	65-135	5.9	30
Bromodichloromethane	mg/L	<0.0009	0.100	0.100	0.102	0.107	102	107	75-125	4.7	30
Bromoform	mg/L	<0.0009	0.100	0.100	0.109	0.123	109	123	70-130	12.0	30
Bromomethane	mg/L	<0.001	0.100	0.100	0.113	0.109	113	109	40-160	3.6	30
Methyl Ethyl Ketone (MEK)	mg/L	<0.002	0.100	0.100	0.114	0.139	114	139	40-160	19.7	30
n-Butylbenzene	mg/L	<0.0010	0.100	0.100	0.099	0.106	99.9	106	70-130	5.9	30
sec-Butyl benzene	mg/L	0.002	0.100	0.100	0.113	0.108	110	105	70-130	4.5	30
tert-Butyl benzene	mg/L	<0.0004	0.100	0.100	0.114	0.107	114	107	70-130	6.3	30
Carbon Disulfide	mg/L	<0.0003	0.100	0.100	0.078	0.085	78.5	85.4	40-160	8.4	30
Carbon Tetrachloride	mg/L	<0.0006	0.100	0.100	0.100	0.108	100	108	65-135	7.6	30
Chlorobenzene	mg/L	<0.0003	0.100	0.100	0.106	0.106	106	106	80-120	0.0	30
Chlorodibromomethane	mg/L	<0.0009	0.100	0.100	0.106	0.112	106	112	60-140	5.5	30
Chloroethane	mg/L	<0.0003	0.100	0.100	0.076	0.082	76.3	82.3	60-140	7.5	30
2-Chloroethylvinyl Ether	mg/L	<0.002	0.100	0.100	<0.002	<0.002	0.0*	0.0*	40-160	0.0	30
Chloroform	mg/L	<0.0008	0.100	0.100	0.104	0.115	104	115	80-120	10.0	30
Chloromethane	mg/L	<0.0007	0.100	0.100	0.090	0.103	90.1	103	40-160	13.3	30
2-Chlorotoluene	mg/L	<0.0005	0.100	0.100	0.120	0.108	120	108	75-125	10.5	30
4-Chlorotoluene	mg/L	<0.0005	0.100	0.100	0.111	0.105	111	105	75-125	5.5	30
1,2-Dibromo-3-Chloropropane	mg/L	<0.001	0.100	0.100	0.107	0.131	107	131	50-150	20.1	30
1,2-Dibromoethane	mg/L	<0.0004	0.100	0.100	0.096	0.108	96.6	108	70-130	11.1	30
Dibromomethane	mg/L	<0.0004	0.100	0.100	0.096	0.102	96.2	102	75-125	5.8	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,2-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.097	0.105	97.1	105	70-130	7.8	30
1,3-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.105	0.114	105	114	75-125	8.2	30
1,4-Dichlorobenzene	mg/L	<0.0006	0.100	0.100	0.100	0.108	100	108	75-125	7.6	30
Dichlorodifluoromethane	mg/L	<0.0007	0.100	0.100	0.068	0.074	68.6	74.8	40-160	8.6	30
1,1-Dichloroethane	mg/L	<0.0004	0.100	0.100	0.101	0.107	101	107	70-130	5.7	30
1,2-Dichloroethane	mg/L	<0.0006	0.100	0.100	0.102	0.119	102	119	70-130	15.3	30
1,1-Dichloroethene	mg/L	<0.0003	0.100	0.100	0.081	0.088	81.0	88.2	80-120	8.5	30
cis-1,2-Dichloroethene	mg/L	<0.0004	0.100	0.100	0.105	0.117	105	117	70-130	10.8	30
trans-1,2-Dichloroethene	mg/L	<0.0004	0.100	0.100	0.086	0.089	86.0	89.8	60-140	4.3	30
1,2-Dichloropropane	mg/L	<0.0004	0.100	0.100	0.105	0.109	105	109	80-120	3.7	30
1,3-Dichloropropane	mg/L	<0.0003	0.100	0.100	0.111	0.121	111	121	75-125	8.6	30
2,2-Dichloropropane	mg/L	<0.0006	0.100	0.100	0.102	0.114	102	114	70-130	11.1	30
1,1-Dichloropropene	mg/L	<0.0008	0.100	0.100	0.097	0.106	97.7	106	75-125	8.1	30
cis-1,3-Dichloropropene	mg/L	<0.0004	0.100	0.100	0.104	0.108	104	108	70-130	3.7	30
trans-1,3-Dichloropropene	mg/L	<0.0003	0.100	0.100	0.110	0.114	110	114	55-145	3.5	30
Ethyl Acetate	mg/L	<0.003	0.100	0.100	0.097	0.114	97.0	114	40-160	16.1	30
Ethylbenzene	mg/L	0.002	0.100	0.100	0.102	0.098	99.8	96.4	80-120	3.3	30
Hexachlorobutadiene	mg/L	<0.0008	0.100	0.100	0.107	0.112	107	112	50-150	4.5	30
2-Hexanone	mg/L	<0.001	0.100	0.100	0.112	0.132	112	132	55-145	16.3	30
Iodomethane	mg/L	<0.001	0.100	0.100	0.077	0.063	77.2	63.2	40-160	19.9	30
Isopropylbenzene	mg/L	0.002	0.100	0.100	0.115	0.106	113	104	75-125	8.1	30
4-Isopropyl toluene	mg/L	<0.0009	0.100	0.100	0.112	0.104	112	104	75-125	7.4	30
4-Methyl-2-Pentanone	mg/L	<0.001	0.100	0.100	0.105	0.120	105	120	60-140	13.3	30
Methylene Chloride	mg/L	<0.004	0.100	0.100	0.091	0.098	91.0	98.5	55-145	7.9	30
Methyl tert-butyl ether (MTBE)	mg/L	<0.0006	0.100	0.100	0.104	0.120	104	120	65-135	14.2	30
m,p-Xylene	mg/L	0.005	0.200	0.200	0.214	0.222	104	108	75-125	3.6	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505402 **QC Analytical Batch(es):** L505439
QC Prep Batch Method: 5030B **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 92719-MS-L505402 L 92719-MSD-L505402

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Naphthalene	mg/L	<0.004	0.100	0.100	0.107	0.121	107	121	55-145	12.2	30
o-Xylene	mg/L	<0.0005	0.100	0.100	0.107	0.108	107	108	70-130	0.9	30
n-Propylbenzene	mg/L	<0.0008	0.100	0.100	0.111	0.097	111	97.1	70-130	13.3	30
Styrene	mg/L	<0.0010	0.100	0.100	0.125	0.126	125	126	65-135	0.7	30
1,1,1,2-Tetrachloroethane	mg/L	<0.0004	0.100	0.100	0.098	0.097	98.2	97.1	70-130	1.1	30
1,1,1,2-Tetrachloroethane	mg/L	<0.0006	0.100	0.100	0.093	0.104	93.5	104	65-135	10.6	30
Tetrachloroethene	mg/L	<0.0004	0.100	0.100	0.112	0.106	112	106	45-155	5.5	30
Toluene	mg/L	<0.001	0.100	0.100	0.105	0.105	105	105	80-120	0.0	30
1,2,3-Trichlorobenzene	mg/L	<0.001	0.100	0.100	0.100	0.113	100	113	60-140	12.2	30
1,2,4-Trichlorobenzene	mg/L	<0.001	0.100	0.100	0.106	0.115	106	115	65-135	8.1	30
1,1,1-Trichloroethane	mg/L	<0.0003	0.100	0.100	0.102	0.111	102	111	65-135	8.4	30
1,1,2-Trichloroethane	mg/L	<0.0008	0.100	0.100	0.110	0.113	110	113	75-125	2.6	30
Trichloroethene	mg/L	<0.0005	0.100	0.100	0.100	0.102	100	102	70-130	1.9	30
Trichlorofluoromethane	mg/L	<0.0003	0.100	0.100	0.103	0.121	103	121	40-140	16.0	30
1,2,3-Trichloropropane	mg/L	<0.0005	0.100	0.100	0.112	0.123	112	123	75-125	9.3	30
1,2,4-Trimethylbenzene	mg/L	0.004	0.100	0.100	0.110	0.111	106	107	65-135	0.9	30
1,3,5-Trimethylbenzene	mg/L	0.001	0.100	0.100	0.105	0.107	103	105	75-125	1.8	30
Vinyl Acetate	mg/L	<0.002	0.100	0.100	0.095	0.115	95.6	115	40-160	18.4	30
Vinyl Chloride	mg/L	<0.0003	0.100	0.100	0.101	0.110	101	110	80-120	8.5	30
4-Bromofluorobenzene (S)							76.0	80.8	71-137		
Dibromofluoromethane (S)							100	107	70-128		
1,2-Dichloroethane - d4 (S)							74.4	81.4	63-136		
Toluene-d8 (S)							105	104	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	<0.004	0.004	0.040	08/10/20 09:43		
Acetonitrile	mg/Kg	<0.045	0.045	0.100	08/10/20 09:43		
Acrolein	mg/Kg	<0.006	0.006	0.040	08/10/20 09:43		
Acrylonitrile	mg/Kg	<0.002	0.002	0.040	08/10/20 09:43		
Benzene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Bromobenzene	mg/Kg	<0.0008	0.0008	0.002	08/10/20 09:43		
Bromochloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromoform	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Bromomethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.007	0.007	0.040	08/10/20 09:43		
n-Butylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
sec-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
tert-Butyl benzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Carbon Disulfide	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Carbon Tetrachloride	mg/Kg	<0.0004	0.0004	0.002	08/10/20 09:43		
Chlorobenzene	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
Chlorodibromomethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Chloroethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Chloroethylvinyl Ether	mg/Kg	<0.005	0.005	0.010	08/10/20 09:43		
Chloroform	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Chloromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
4-Chlorotoluene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.004	0.004	0.010	08/10/20 09:43		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Dibromomethane	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,2-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,3-Dichlorobenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,4-Dichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,2-Dichloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,1-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
cis-1,2-Dichloroethene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2-Dichloropropane	mg/Kg	<0.0008	0.0008	0.002	08/10/20 09:43		
1,3-Dichloropropane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
2,2-Dichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
1,1-Dichloropropene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
cis-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
trans-1,3-Dichloropropene	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Ethyl Acetate	mg/Kg	<0.007	0.007	0.040	08/10/20 09:43		
Ethylbenzene	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
Hexachlorobutadiene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
2-Hexanone	mg/Kg	<0.004	0.004	0.010	08/10/20 09:43		
Iodomethane	mg/Kg	<0.0008	0.0008	0.010	08/10/20 09:43		
Isopropylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
4-Isopropyl toluene	mg/Kg	<0.0010	0.0010	0.002	08/10/20 09:43		
4-Methyl-2-Pentanone	mg/Kg	<0.005	0.005	0.010	08/10/20 09:43		
Methylene Chloride	mg/Kg	<0.005	0.005	0.040	08/10/20 09:43		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
m,p-Xylene	mg/Kg	<0.001	0.001	0.004	08/10/20 09:43		
Naphthalene	mg/Kg	<0.006	0.006	0.010	08/10/20 09:43		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L505698 Matrix: SOL
Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
o-Xylene	mg/Kg	<0.0004	0.0004	0.002	08/10/20 09:43		
n-Propylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Styrene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
Toluene	mg/Kg	<0.003	0.003	0.010	08/10/20 09:43		
1,2,3-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2,4-Trichlorobenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,1,1-Trichloroethane	mg/Kg	<0.0007	0.0007	0.002	08/10/20 09:43		
1,1,2-Trichloroethane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
Trichloroethene	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
Trichlorofluoromethane	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
1,2,3-Trichloropropane	mg/Kg	<0.0006	0.0006	0.002	08/10/20 09:43		
1,2,4-Trimethylbenzene	mg/Kg	<0.0009	0.0009	0.002	08/10/20 09:43		
1,3,5-Trimethylbenzene	mg/Kg	<0.001	0.001	0.002	08/10/20 09:43		
Vinyl Acetate	mg/Kg	<0.003	0.003	0.040	08/10/20 09:43		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.002	08/10/20 09:43		
4-Bromofluorobenzene (S)					08/10/20 09:43	104	60-130
1,2-Dichloroethane - d4 (S)					08/10/20 09:43	129	60-132
Toluene-d8 (S)					08/10/20 09:43	106	70-130

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acetone	mg/Kg	0.200	0.191	95.5	40-160
Acetonitrile	mg/Kg	2.00	1.76	88.0	40-160

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acrolein	mg/Kg	0.200	0.179	89.5	40-160
Acrylonitrile	mg/Kg	0.200	0.201	101	40-160
Benzene	mg/Kg	0.200	0.186	93.0	70-130
Bromobenzene	mg/Kg	0.200	0.166	83.0	75-125
Bromochloromethane	mg/Kg	0.200	0.182	91.0	65-135
Bromodichloromethane	mg/Kg	0.200	0.172	86.0	75-125
Bromoform	mg/Kg	0.200	0.177	88.5	70-130
Bromomethane	mg/Kg	0.200	0.224	112	40-160
Methyl Ethyl Ketone (MEK)	mg/Kg	0.200	0.179	89.5	40-160
n-Butylbenzene	mg/Kg	0.200	0.178	89.0	70-130
sec-Butyl benzene	mg/Kg	0.200	0.184	92.0	70-130
tert-Butyl benzene	mg/Kg	0.200	0.188	94.0	70-130
Carbon Disulfide	mg/Kg	0.200	0.172	86.0	40-160
Carbon Tetrachloride	mg/Kg	0.200	0.187	93.5	65-135
Chlorobenzene	mg/Kg	0.200	0.174	87.0	80-120
Chlorodibromomethane	mg/Kg	0.200	0.180	90.0	60-140
Chloroethane	mg/Kg	0.200	0.168	84.0	60-140
2-Chloroethylvinyl Ether	mg/Kg	0.200	0.166	83.0	40-160
Chloroform	mg/Kg	0.200	0.190	95.0	80-120
Chloromethane	mg/Kg	0.200	0.183	91.5	40-160
2-Chlorotoluene	mg/Kg	0.200	0.181	90.5	75-125
4-Chlorotoluene	mg/Kg	0.200	0.175	87.5	75-125
1,2-Dibromo-3-Chloropropane	mg/Kg	0.200	0.166	83.0	50-150
1,2-Dibromoethane	mg/Kg	0.200	0.160	80.0	70-130
Dibromomethane	mg/Kg	0.200	0.164	82.0	75-125
1,2-Dichlorobenzene	mg/Kg	0.200	0.160	80.0	70-130
1,3-Dichlorobenzene	mg/Kg	0.200	0.158	79.0	75-125

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	0.200	0.171	85.5	75-125
Dichlorodifluoromethane	mg/Kg	0.200	0.120	60.0	40-160
1,1-Dichloroethane	mg/Kg	0.200	0.193	96.5	70-130
1,2-Dichloroethane	mg/Kg	0.200	0.193	96.5	70-130
1,1-Dichloroethene	mg/Kg	0.200	0.174	87.0	80-120
cis-1,2-Dichloroethene	mg/Kg	0.200	0.192	96.0	70-130
trans-1,2-Dichloroethene	mg/Kg	0.200	0.171	85.5	60-140
1,2-Dichloropropane	mg/Kg	0.200	0.181	90.5	80-120
1,3-Dichloropropane	mg/Kg	0.200	0.166	83.0	75-125
2,2-Dichloropropane	mg/Kg	0.200	0.204	102	70-130
1,1-Dichloropropene	mg/Kg	0.200	0.192	96.0	75-125
cis-1,3-Dichloropropene	mg/Kg	0.200	0.171	85.5	70-130
trans-1,3-Dichloropropene	mg/Kg	0.200	0.174	87.0	55-145
Ethyl Acetate	mg/Kg	0.200	0.179	89.5	40-160
Ethylbenzene	mg/Kg	0.200	0.185	92.5	80-120
Hexachlorobutadiene	mg/Kg	0.200	0.173	86.5	50-150
2-Hexanone	mg/Kg	0.200	0.166	83.0	55-145
Iodomethane	mg/Kg	0.200	0.160	80.0	40-160
Isopropylbenzene	mg/Kg	0.200	0.182	91.0	75-125
4-Isopropyl toluene	mg/Kg	0.200	0.174	87.0	75-125
4-Methyl-2-Pentanone	mg/Kg	0.200	0.166	83.0	60-140
Methylene Chloride	mg/Kg	0.200	0.176	88.0	55-145
Methyl tert-butyl ether (MTBE)	mg/Kg	0.200	0.181	90.5	65-135
m,p-Xylene	mg/Kg	0.400	0.353	88.2	75-125
Naphthalene	mg/Kg	0.200	0.156	78.0	55-145
o-Xylene	mg/Kg	0.200	0.179	89.5	70-130
n-Propylbenzene	mg/Kg	0.200	0.174	87.0	70-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L505698

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Styrene	mg/Kg	0.200	0.198	99.0	65-135
1,1,1,2-Tetrachloroethane	mg/Kg	0.200	0.165	82.5	70-130
1,1,2,2-Tetrachloroethane	mg/Kg	0.200	0.147	73.5	65-135
Tetrachloroethene	mg/Kg	0.200	0.179	89.5	45-155
Toluene	mg/Kg	0.200	0.167	83.5	80-120
1,2,3-Trichlorobenzene	mg/Kg	0.200	0.155	77.5	60-140
1,2,4-Trichlorobenzene	mg/Kg	0.200	0.158	79.0	65-135
1,1,1-Trichloroethane	mg/Kg	0.200	0.194	97.0	65-135
1,1,2-Trichloroethane	mg/Kg	0.200	0.172	86.0	75-125
Trichloroethene	mg/Kg	0.200	0.187	93.5	70-130
Trichlorofluoromethane	mg/Kg	0.200	0.224	112	60-140
1,2,3-Trichloropropane	mg/Kg	0.200	0.177	88.5	75-125
1,2,4-Trimethylbenzene	mg/Kg	0.200	0.194	97.0	75-125
1,3,5-Trimethylbenzene	mg/Kg	0.200	0.168	84.0	75-125
Vinyl Acetate	mg/Kg	0.200	0.196	98.0	40-160
Vinyl Chloride	mg/Kg	0.200	0.208	104	80-120
4-Bromofluorobenzene (S)				96.2	60-130
1,2-Dichloroethane - d4 (S)				88.8	60-132
Toluene-d8 (S)				98.6	70-130

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acetone	mg/Kg	0.011	0.204	0.200	0.192	0.191	94.1	95.5	40-160	0.5	30
Acetonitrile	mg/Kg	<0.046	2.04	2.00	1.84	2.17	90.1	109	40-160	16.4	30
Acrolein	mg/Kg	<0.006	0.204	0.200	0.011	0.154	0.0*	77.0	40-160	117*	30

* QC Fail

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Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acrylonitrile	mg/Kg	<0.002	0.204	0.200	0.206	0.203	101	102	40-160	1.4	30
Benzene	mg/Kg	<0.0006	0.204	0.200	0.155	0.182	75.9	91.0	70-130	16.0	30
Bromobenzene	mg/Kg	<0.0008	0.204	0.200	0.088	0.155	43.1*	77.5	75-125	55.1*	30
Bromochloromethane	mg/Kg	<0.001	0.204	0.200	0.166	0.172	81.3	86.0	65-135	3.5	30
Bromodichloromethane	mg/Kg	<0.001	0.204	0.200	0.150	0.191	73.5*	95.5	75-125	24.0	30
Bromoform	mg/Kg	<0.001	0.204	0.200	0.149	0.193	73.0	96.5	70-130	25.7	30
Bromomethane	mg/Kg	0.002	0.204	0.200	0.201	0.184	97.2	90.6	40-160	8.8	30
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.007	0.204	0.200	0.186	0.210	91.1	105	40-160	12.1	30
n-Butylbenzene	mg/Kg	<0.001	0.204	0.200	0.075	0.157	37.1*	78.5	70-130	69.8*	30
sec-Butyl benzene	mg/Kg	0.002	0.204	0.200	0.086	0.163	40.9*	80.0	70-130	61.3*	30
tert-Butyl benzene	mg/Kg	<0.001	0.204	0.200	0.089	0.158	43.6*	79.0	70-130	55.7*	30
Carbon Disulfide	mg/Kg	<0.001	0.204	0.200	0.121	0.137	59.3	68.5	40-160	12.4	30
Carbon Tetrachloride	mg/Kg	<0.0004	0.204	0.200	0.139	0.179	68.1	89.5	65-135	25.1	30
Chlorobenzene	mg/Kg	<0.0005	0.204	0.200	0.122	0.178	59.8*	89.0	80-120	37.3*	30
Chlorodibromomethane	mg/Kg	<0.001	0.204	0.200	0.159	0.198	77.9	99.0	60-140	21.8	30
Chloroethane	mg/Kg	<0.001	0.204	0.200	0.150	0.164	73.5	82.0	60-140	8.9	30
2-Chloroethylvinyl Ether	mg/Kg	<0.005	0.204	0.200	0.159	0.202	77.9	101	40-160	23.8	30
Chloroform	mg/Kg	0.002	0.204	0.200	0.168	0.200	81.0	98.6	80-120	17.3	30
Chloromethane	mg/Kg	<0.001	0.204	0.200	0.137	0.143	67.1	71.5	40-160	4.2	30
2-Chlorotoluene	mg/Kg	<0.001	0.204	0.200	0.105	0.180	51.4*	90.0	75-125	52.6*	30
4-Chlorotoluene	mg/Kg	<0.001	0.204	0.200	0.093	0.159	45.9*	79.5	75-125	51.6*	30
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.004	0.204	0.200	0.150	0.187	73.5	93.5	50-150	21.9	30
1,2-Dibromoethane	mg/Kg	<0.0006	0.204	0.200	0.145	0.177	71.0	88.5	70-130	19.8	30
Dibromomethane	mg/Kg	<0.0005	0.204	0.200	0.160	0.183	78.4	91.5	75-125	13.4	30
1,2-Dichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.089	0.156	43.8*	78.0	70-130	54.2*	30
1,3-Dichlorobenzene	mg/Kg	0.001	0.204	0.200	0.096	0.158	47.0*	79.0	75-125	48.8*	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.094	0.167	46.0*	83.5	75-125	55.9*	30
Dichlorodifluoromethane	mg/Kg	<0.001	0.204	0.200	0.072	0.073	35.3*	36.5*	40-160	1.2	30
1,1-Dichloroethane	mg/Kg	<0.0009	0.204	0.200	0.159	0.185	77.9	92.5	70-130	15.1	30
1,2-Dichloroethane	mg/Kg	0.028	0.204	0.200	0.238	0.234	103	103	70-130	1.6	30
1,1-Dichloroethene	mg/Kg	<0.001	0.204	0.200	0.132	0.148	64.7*	74.0*	80-120	11.4	30
cis-1,2-Dichloroethene	mg/Kg	<0.0007	0.204	0.200	0.169	0.192	82.8	96.0	70-130	12.7	30
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.204	0.200	0.140	0.158	68.6	79.0	60-140	12.0	30
1,2-Dichloropropane	mg/Kg	<0.0008	0.204	0.200	0.157	0.195	76.9*	97.5	80-120	21.5	30
1,3-Dichloropropane	mg/Kg	<0.0010	0.204	0.200	0.161	0.184	78.9	92.0	75-125	13.3	30
2,2-Dichloropropane	mg/Kg	<0.0006	0.204	0.200	0.152	0.187	74.5	93.5	70-130	20.6	30
1,1-Dichloropropene	mg/Kg	0.010	0.204	0.200	0.141	0.180	64.0*	84.8	75-125	24.2	30
cis-1,3-Dichloropropene	mg/Kg	<0.0006	0.204	0.200	0.154	0.194	75.4	97.0	70-130	22.9	30
trans-1,3-Dichloropropene	mg/Kg	<0.0006	0.204	0.200	0.152	0.193	74.5	96.5	55-145	23.7	30
Ethyl Acetate	mg/Kg	<0.007	0.204	0.200	0.185	0.209	90.6	105	40-160	12.1	30
Ethylbenzene	mg/Kg	0.001	0.204	0.200	0.104	0.173	50.9*	86.5	80-120	49.8*	30
Hexachlorobutadiene	mg/Kg	<0.001	0.204	0.200	0.073	0.147	36.2*	73.5	50-150	66.1*	30
2-Hexanone	mg/Kg	<0.005	0.204	0.200	0.163	0.204	79.9	102	55-145	22.3	30
Iodomethane	mg/Kg	<0.0008	0.204	0.200	0.134	0.118	65.6	59.0	40-160	12.6	30
Isopropylbenzene	mg/Kg	<0.0009	0.204	0.200	0.092	0.176	45.2*	88.0	75-125	62.2*	30
4-Isopropyl toluene	mg/Kg	<0.0010	0.204	0.200	0.085	0.165	41.7*	82.5	75-125	63.8*	30
4-Methyl-2-Pentanone	mg/Kg	<0.005	0.204	0.200	0.159	0.200	77.9	100	60-140	22.8	30
Methylene Chloride	mg/Kg	<0.005	0.204	0.200	0.158	0.164	77.4	82.0	55-145	3.7	30
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.001	0.204	0.200	0.160	0.192	78.4	96.0	65-135	18.1	30
m,p-Xylene	mg/Kg	0.005	0.407	0.401	0.218	0.347	52.2*	85.2	75-125	45.6*	30
Naphthalene	mg/Kg	0.009	0.204	0.200	0.089	0.170	43.6*	85.0	55-145	62.5*	30
o-Xylene	mg/Kg	0.001	0.204	0.200	0.121	0.170	59.3*	85.0	70-130	33.6*	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505698 **QC Analytical Batch(es):** L505699
QC Prep Batch Method: 5030A **Analysis Method:** 8260B
Analysis Description: Volatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate L 93112-MS-L505698 L 93112-MSD-L505698

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	<0.001	0.204	0.200	0.086	0.155	42.2*	77.5	70-130	57.0*	30
Styrene	mg/Kg	<0.001	0.204	0.200	0.116	0.196	56.8*	98.0	65-135	51.2*	30
1,1,1,2-Tetrachloroethane	mg/Kg	<0.0010	0.204	0.200	0.133	0.163	65.1*	81.5	70-130	20.2	30
1,1,2,2-Tetrachloroethane	mg/Kg	<0.001	0.204	0.200	0.135	0.165	66.1	82.5	65-135	20.0	30
Tetrachloroethene	mg/Kg	<0.0009	0.204	0.200	0.107	0.179	52.4*	89.5	60-155	50.3*	30
Toluene	mg/Kg	<0.003	0.204	0.200	0.142	0.180	69.6*	90.0	80-120	23.6	30
1,2,3-Trichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.067	0.139	33.1*	69.5	60-140	68.9*	30
1,2,4-Trichlorobenzene	mg/Kg	<0.001	0.204	0.200	0.068	0.129	33.6*	64.5*	65-135	61.1*	30
1,1,1-Trichloroethane	mg/Kg	<0.0007	0.204	0.200	0.152	0.189	74.5	94.5	65-135	21.7	30
1,1,2-Trichloroethane	mg/Kg	0.0007	0.204	0.200	0.160	0.201	78.4	101	75-125	22.7	30
Trichloroethene	mg/Kg	<0.0005	0.204	0.200	0.141	0.182	69.1*	91.0	70-130	25.3	30
Trichlorofluoromethane	mg/Kg	<0.001	0.204	0.200	0.190	0.214	93.1	107	60-140	11.8	30
1,2,3-Trichloropropane	mg/Kg	<0.0006	0.204	0.200	0.145	0.183	71.0*	91.5	75-125	23.1	30
1,2,4-Trimethylbenzene	mg/Kg	0.003	0.204	0.200	0.092	0.179	43.7*	87.9	75-125	63.8*	30
1,3,5-Trimethylbenzene	mg/Kg	<0.001	0.204	0.200	0.085	0.153	42.0*	76.5	75-125	56.3*	30
Vinyl Acetate	mg/Kg	<0.003	0.204	0.200	0.177	0.193	86.7	96.5	40-160	8.6	30
Vinyl Chloride	mg/Kg	<0.0005	0.204	0.200	0.173	0.170	84.8	85.0	80-120	1.7	30
4-Bromofluorobenzene (S)							101	98.4	60-130		
1,2-Dichloroethane - d4 (S)							104	99.0	60-132		
Toluene-d8 (S)							108	108	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505416 **QC Analytical Batch(es):** L505705
QC Prep Batch Method: 3511 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Lab Reagent Blank LRB-L505416 Matrix: AQU
 Associated Lab Samples: 93211, 93212

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/L	<0.000018	0.000018	0.000020	08/10/20 18:21		
Acenaphthylene	mg/L	<0.000014	0.000014	0.000020	08/10/20 18:21		
Anthracene	mg/L	<0.000005	0.000005	0.000020	08/10/20 18:21		
Benzo(a)anthracene	mg/L	<0.000011	0.000011	0.000020	08/10/20 18:21		
Benzo(a)pyrene	mg/L	<0.000012	0.000012	0.000020	08/10/20 18:21		
Benzo(b)fluoranthene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Benzo(g,h,i)perylene	mg/L	<0.000007	0.000007	0.000020	08/10/20 18:21		
Benzo(k)fluoranthene	mg/L	<0.000016	0.000016	0.000020	08/10/20 18:21		
Chrysene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Dibenz(a,h)anthracene	mg/L	<0.000006	0.000006	0.000020	08/10/20 18:21		
Fluoranthene	mg/L	<0.000005	0.000005	0.000020	08/10/20 18:21		
Fluorene	mg/L	<0.000010	0.000010	0.000020	08/10/20 18:21		
Indeno(1,2,3-cd)pyrene	mg/L	<0.000014	0.000014	0.000020	08/10/20 18:21		
2-Methylnaphthalene	mg/L	<0.000018	0.000018	0.000020	08/10/20 18:21		
Naphthalene	mg/L	<0.000019	0.000019	0.000020	08/10/20 18:21		
Phenanthrene	mg/L	<0.000008	0.000008	0.000020	08/10/20 18:21		
Pyrene	mg/L	<0.000009	0.000009	0.000020	08/10/20 18:21		
2-Fluorobiphenyl (S)					08/10/20 18:21	116	70-130
4-Terphenyl-d14 (S)					08/10/20 18:21	123	70-130

Laboratory Control Sample & LCSD LCS-L505416 LCSD-L505416

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acenaphthene	mg/L	0.00303	0.00298	0.00330	98.3	109	60-140	10.1	20
Acenaphthylene	mg/L	0.00303	0.00209	0.00272	68.9	89.7	60-140	26.1*	20
Anthracene	mg/L	0.00303	0.00295	0.00297	97.3	98.0	60-140	0.6	20

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505416 **QC Analytical Batch(es):** L505705
QC Prep Batch Method: 3511 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Laboratory Control Sample & LCSD LCS-L505416 LCSD-L505416

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Benzo(a)anthracene	mg/L	0.00303	0.00326	0.00328	108	108	60-140	0.6	20
Benzo(a)pyrene	mg/L	0.00303	0.00299	0.00303	98.6	100	60-140	1.3	20
Benzo(b)fluoranthene	mg/L	0.00303	0.00313	0.00305	103	101	60-140	2.5	20
Benzo(g,h,i)perylene	mg/L	0.00303	0.00217	0.00212	71.6	69.9	60-140	2.3	20
Benzo(k)fluoranthene	mg/L	0.00303	0.00253	0.00245	83.4	80.8	60-140	3.2	20
Chrysene	mg/L	0.00303	0.00263	0.00276	86.7	91.0	60-140	4.8	20
Dibenz(a,h)anthracene	mg/L	0.00303	0.00261	0.00251	86.1	82.8	60-140	3.9	20
Fluoranthene	mg/L	0.00303	0.00319	0.00307	105	101	60-140	3.8	20
Fluorene	mg/L	0.00303	0.00272	0.00311	89.7	103	60-140	13.3	20
Indeno(1,2,3-cd)pyrene	mg/L	0.00303	0.00350	0.00331	116	109	60-140	5.5	20
2-Methylnaphthalene	mg/L	0.00303	0.00281	0.00305	92.7	101	60-140	8.1	20
Naphthalene	mg/L	0.00303	0.00307	0.00317	101	105	60-140	3.2	20
Phenanthrene	mg/L	0.00303	0.00274	0.00286	90.4	94.3	60-140	4.2	20
Pyrene	mg/L	0.00303	0.00343	0.00325	113	107	60-140	5.3	20
2-Fluorobiphenyl (S)					109	122	70-130		
4-Terphenyl-d14 (S)					122	121	70-130		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L506017 **QC Analytical Batch(es):** L506498
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Lab Reagent Blank LRB-L506017 Matrix: SOL
Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/Kg	<0.000431	0.000431	0.000670	08/13/20 18:13		
Acenaphthylene	mg/Kg	<0.000382	0.000382	0.000670	08/13/20 18:13		
Anthracene	mg/Kg	<0.000426	0.000426	0.000670	08/13/20 18:13		
Benzo(a)anthracene	mg/Kg	<0.000441	0.000441	0.000670	08/13/20 18:13		
Benzo(a)pyrene	mg/Kg	<0.000133	0.000133	0.000670	08/13/20 18:13		
Benzo(b)fluoranthene	mg/Kg	<0.000138	0.000138	0.000670	08/13/20 18:13		
Benzo(g,h,i)perylene	mg/Kg	<0.000231	0.000231	0.000670	08/13/20 18:13		
Benzo(k)fluoranthene	mg/Kg	<0.000486	0.000486	0.000670	08/13/20 18:13		
Chrysene	mg/Kg	<0.000256	0.000256	0.000670	08/13/20 18:13		
Dibenz(a,h)anthracene	mg/Kg	<0.000279	0.000279	0.000670	08/13/20 18:13		
Fluoranthene	mg/Kg	<0.000529	0.000529	0.000670	08/13/20 18:13		
Fluorene	mg/Kg	<0.000501	0.000501	0.000670	08/13/20 18:13		
Indeno(1,2,3-cd)pyrene	mg/Kg	0.000592	0.000344	0.000670	08/13/20 18:13		
2-Methylnaphthalene	mg/Kg	<0.000542	0.000542	0.000670	08/13/20 18:13		
Naphthalene	mg/Kg	<0.000467	0.000467	0.000670	08/13/20 18:13		
Phenanthrene	mg/Kg	<0.000654	0.000654	0.000670	08/13/20 18:13		
Pyrene	mg/Kg	<0.000387	0.000387	0.000670	08/13/20 18:13		
2-Fluorobiphenyl (S)					08/13/20 18:13	57.6	33-115
Nitrobenzene-d5 (S)					08/13/20 18:13	54.3	29-110
4-Terphenyl-d14 (S)					08/13/20 18:13	78.3	33-122

Laboratory Control Sample LCS-L506017

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	mg/Kg	0.167	0.101	60.4	30-130
Acenaphthylene	mg/Kg	0.167	0.110	65.8	30-130
Anthracene	mg/Kg	0.167	0.107	64.0	30-130

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L506017 **QC Analytical Batch(es):** L506498
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Laboratory Control Sample LCS-L506017

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Benzo(a)anthracene	mg/Kg	0.167	0.124	74.2	30-130
Benzo(a)pyrene	mg/Kg	0.167	0.119	71.2	30-130
Benzo(b)fluoranthene	mg/Kg	0.167	0.193	116	30-130
Benzo(g,h,i)perylene	mg/Kg	0.167	0.117	70.0	30-130
Benzo(k)fluoranthene	mg/Kg	0.167	0.188	113	30-130
Chrysene	mg/Kg	0.167	0.102	61.0	30-130
Dibenz(a,h)anthracene	mg/Kg	0.167	0.143	85.6	30-130
Fluoranthene	mg/Kg	0.167	0.135	80.8	30-130
Fluorene	mg/Kg	0.167	0.127	76.0	30-130
Indeno(1,2,3-cd)pyrene	mg/Kg	0.167	0.135	80.8	30-130
2-Methylnaphthalene	mg/Kg	0.167	0.0867	51.9	30-130
Naphthalene	mg/Kg	0.167	0.0823	49.2	30-130
Phenanthrene	mg/Kg	0.167	0.0989	59.2	30-130
Pyrene	mg/Kg	0.167	0.132	79.0	30-130
2-Fluorobiphenyl (S)				54.0	33-115
Nitrobenzene-d5 (S)				50.4	29-110
4-Terphenyl-d14 (S)				92.7	33-122

Matrix Spike & Matrix Spike Duplicate L 93208-MS-L506017 L 93208-MSD-L506017

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	mg/Kg	<0.000431	0.166	0.164	0.0966	0.0906	58.1	55.2	30-130	6.4	30
Acenaphthylene	mg/Kg	<0.000382	0.166	0.164	0.105	0.0985	63.2	60.0	30-130	6.3	30
Anthracene	mg/Kg	<0.000426	0.166	0.164	0.0972	0.0945	58.5	57.6	30-130	2.8	30
Benzo(a)anthracene	mg/Kg	0.0134	0.166	0.164	0.114	0.109	60.6	58.2	30-130	4.4	30
Benzo(a)pyrene	mg/Kg	<0.000133	0.166	0.164	0.102	0.0931	61.4	56.7	30-130	9.1	30

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L506017 **QC Analytical Batch(es):** L506498
QC Prep Batch Method: 3550B **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Matrix Spike & Matrix Spike Duplicate L 93208-MS-L506017 L 93208-MSD-L506017

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Benzo(b)fluoranthene	mg/Kg	0.0256	0.166	0.164	0.124	0.161	59.2	82.5	30-130	25.9	30
Benzo(g,h,i)perylene	mg/Kg	0.0147	0.166	0.164	0.146	0.140	79.0	76.4	30-130	4.1	30
Benzo(k)fluoranthene	mg/Kg	0.0133	0.166	0.164	0.116	0.160	61.8	89.4	30-130	31.8*	30
Chrysene	mg/Kg	0.0143	0.166	0.164	0.0917	0.0961	46.6	49.8	30-130	4.6	30
Dibenz(a,h)anthracene	mg/Kg	<0.000279	0.166	0.164	0.183	0.176	110	107	30-130	3.8	30
Fluoranthene	mg/Kg	0.0302	0.166	0.164	0.120	0.0950	54.0	39.5	30-130	23.2	30
Fluorene	mg/Kg	<0.000501	0.166	0.164	0.123	0.107	74.0	65.2	30-130	13.9	30
Indeno(1,2,3-cd)pyrene	mg/Kg	0.0166	0.166	0.164	0.156	0.144	83.9	77.6	30-130	8.0	30
2-Methylnaphthalene	mg/Kg	<0.000542	0.166	0.164	0.0828	0.0784	49.8	47.8	30-130	5.4	30
Naphthalene	mg/Kg	<0.000467	0.166	0.164	0.0792	0.0743	47.7	45.3	30-130	6.3	30
Phenanthrene	mg/Kg	<0.000654	0.166	0.164	0.103	0.105	62.0	64.0	30-130	1.9	30
Pyrene	mg/Kg	0.0233	0.166	0.164	0.111	0.0809	52.8	35.1	30-130	31.3*	30
2-Fluorobiphenyl (S)							47.4	37.5	33-115		
Nitrobenzene-d5 (S)							45.6	35.9	29-110		
4-Terphenyl-d14 (S)							61.0	33.2	33-122		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Analytical Batch: L505753
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate L 93210-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	21.9	20.3	7.5	20.0	08/11/20 14:04

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505693 **QC Analytical Batch(es):** L505941
QC Prep Batch Method: 3550B **Analysis Method:** TN EPH
Analysis Description: TN EPH

Lab Reagent Blank LRB-L505693 Matrix: SOL
 Associated Lab Samples: 93207, 93208, 93209, 93210

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	<3.30	3.30	3.30	08/12/20 10:13		
Oil Range Organics (>C28-C40)	mg/Kg	<3.30	3.30	3.30	08/12/20 10:13		
OTP Surrogate (S)					08/12/20 10:13	119	50-150

Laboratory Control Sample LCS-L505693

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	33.3	37.7	113	50-150
Oil Range Organics (>C28-C40)	mg/Kg	33.3	31.9	95.7	50-150
OTP Surrogate (S)				93.1	50-150

Matrix Spike & Matrix Spike Duplicate L 92399-MS-L505693 L 92399-MSD-L505693

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/Kg	4.14	33.3	33.3	33.6	38.0	88.4	102	50-150	12.2	30
Oil Range Organics (>C28-C40)	mg/Kg	6.32	33.3	33.3	45.2	47.3	117	123	50-150	4.5	30
OTP Surrogate (S)							56.2	71.0	50-150		

Quality Control Data

Client ID: Ensafe
Project Description: Former Wayne's Pinball Palace
Report No: 20-220-0136

QC Prep: L505744 **QC Analytical Batch(es):** L505943
QC Prep Batch Method: 3510C **Analysis Method:** TN EPH
Analysis Description: TN EPH

Lab Reagent Blank LRB-L505744 Matrix: AQU
 Associated Lab Samples: 93211, 93212

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/L	0.0703	0.0548	0.0900	08/12/20 15:37		
Oil Range Organics (>C28-C40)	mg/L	<0.0841	0.0841	0.0900	08/12/20 15:37		
OTP Surrogate (S)					08/12/20 15:37	123	50-150

Laboratory Control Sample & LCSD LCS-L505744 LCSD-L505744

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/L	1.00	1.06	0.991	106	99.1	50-150	6.7	20
Oil Range Organics (>C28-C40)	mg/L	1.00	1.17	0.769	117	76.9	50-150	41.3*	20
OTP Surrogate (S)					132	118	50-150		

Shipment Receipt Form

Customer Number: **03180**
 Customer Name: **Ensafe**
 Report Number: **20-220-0136**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID: #100

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Trip Blanks received with VOAs	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. CLK080720

Page 1 of 1

Project Name: Former Wayne's Pinball Palace
Site Location: 167 Chelsea + 705 N Third St
Send Results To: Allison Harris + Dave Fuehrer
Chebey Ripper 270-287-1703

PO No. per MSA

Project No. 0888826703 Phase

Sample Analysis Requested (Enter number of containers for each test)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Time (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code	Sample Type	Field Filtered (Y/N)	Total No. of Containers (3) →	VOC	PAH, TN-EH RCRA Metals	VOC-PAH RCRA Metals	NI HA	HA	NI HA	Extra Volume for MS/MSD	HOLD
						(2)		3	1	1	1					
						(1)		3	1	1	1					
								3	1	1	1					
								3	1	1	1					
								9	3	3	1	2				
								9	3	3	1	2				
								2	2							




Field Comments: Done Sampling
Relinquished by (signature): Chebey Ripper
Date: 08/07/2020 1533

Lab Comments: 3.8°C T100(TP)
Received by (signature): Allison Harris
Date: 08/07/2020 1533

Sample Shipment and Delivery Details
Number of coolers in shipment: 1
Samples Iced?(check) Yes No
Method of Shipment: Personal Delivery
Airbill No:

Date Shipped: 08/07/2020

(1) Matrix Code: AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LF=Free Product, LH=Liquid Waste, MS=Mastid, Oil=oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SN=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water
(2) Sample Type: AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank
(3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST=sodium thiosulfate, if NO preservative added leave blank



Attachment D
Soil Gas Laboratory Report

August 12, 2020

Allison Harris
Ensafe
5724 Summer Trees Drive
Memphis, TN 38134

RE: Project: Former Wayne's Pinball Palace
Pace Project No.: 10527674

Dear Allison Harris:

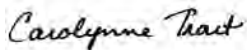
Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Tina Cantwell, Ensaf



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01	Minnesota Petrofund Certification #: 1240
Alabama Certification #: 40770	Mississippi Certification #: MN00064
Alaska Contaminated Sites Certification #: 17-009	Missouri Certification #: 10100
Alaska DW Certification #: MN00064	Montana Certification #: CERT0092
Arizona Certification #: AZ0014	Nebraska Certification #: NE-OS-18-06
Arkansas DW Certification #: MN00064	Nevada Certification #: MN00064
Arkansas WW Certification #: 88-0680	New Hampshire Certification #: 2081
California Certification #: 2929	New Jersey Certification #: MN002
CNMI Saipan Certification #: MP0003	New York Certification #: 11647
Colorado Certification #: MN00064	North Carolina DW Certification #: 27700
Connecticut Certification #: PH-0256	North Carolina WW Certification #: 530
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Dakota Certification #: R-036
Florida Certification #: E87605	Ohio DW Certification #: 41244
Georgia Certification #: 959	Ohio VAP Certification #: CL101
Guam EPA Certification #: MN00064	Oklahoma Certification #: 9507
Hawaii Certification #: MN00064	Oregon Primary Certification #: MN300001
Idaho Certification #: MN00064	Oregon Secondary Certification #: MN200001
Illinois Certification #: 200011	Pennsylvania Certification #: 68-00563
Indiana Certification #: C-MN-01	Puerto Rico Certification #: MN00064
Iowa Certification #: 368	South Carolina Certification #: 74003001
Kansas Certification #: E-10167	Tennessee Certification #: TN02818
Kentucky DW Certification #: 90062	Texas Certification #: T104704192
Kentucky WW Certification #: 90062	Utah Certification #: MN00064
Louisiana DEQ Certification #: 03086	Vermont Certification #: VT-027053137
Louisiana DW Certification #: MN00064	Virginia Certification #: 460163
Maine Certification #: MN00064	Washington Certification #: C486
Maryland Certification #: 322	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01
Minnesota Dept of Ag Certification #: via MN 027-053-137	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10527674001	167SG01	Air	08/05/20 14:21	08/07/20 09:00
10527674002	167SG02	Air	08/05/20 14:48	08/07/20 09:00
10527674003	167SG03	Air	08/05/20 14:59	08/07/20 09:00
10527674004	167SG04	Air	08/05/20 15:15	08/07/20 09:00
10527674005	167SG05	Air	08/05/20 15:38	08/07/20 09:00
10527674006	167SG06	Air	08/05/20 15:51	08/07/20 09:00
10527674007	167SG07	Air	08/05/20 16:08	08/07/20 09:00
10527674008	167SG08	Air	08/05/20 16:26	08/07/20 09:00

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SAMPLE ANALYTE COUNT

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10527674001	167SG01	TO-15	MG2	61
10527674002	167SG02	TO-15	MG2	61
10527674003	167SG03	TO-15	MG2	61
10527674004	167SG04	TO-15	MG2	61
10527674005	167SG05	TO-15	MG2	61
10527674006	167SG06	TO-15	MG2	61
10527674007	167SG07	TO-15	MG2	61
10527674008	167SG08	TO-15	MG2	61

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Method: TO-15

Description: TO15 MSV AIR

Client: EnSafe

Date: August 12, 2020

General Information:

8 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 691611

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 3698408)
- Ethanol

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG01 Lab ID: 10527674001 Collected: 08/05/20 14:21 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	33.3	ug/m3	12.2	3.5	2.02		08/12/20 01:05	67-64-1	
Benzene	4.2	ug/m3	0.66	0.26	2.02		08/12/20 01:05	71-43-2	
Benzyl chloride	<0.66	ug/m3	5.3	0.66	2.02		08/12/20 01:05	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.7	0.53	2.02		08/12/20 01:05	75-27-4	
Bromoform	<2.8	ug/m3	10.6	2.8	2.02		08/12/20 01:05	75-25-2	
Bromomethane	<0.36	ug/m3	1.6	0.36	2.02		08/12/20 01:05	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.91	0.20	2.02		08/12/20 01:05	106-99-0	
2-Butanone (MEK)	17.8	ug/m3	6.1	1.1	2.02		08/12/20 01:05	78-93-3	
Carbon disulfide	13.1	ug/m3	1.3	0.39	2.02		08/12/20 01:05	75-15-0	
Carbon tetrachloride	<0.30	ug/m3	2.6	0.30	2.02		08/12/20 01:05	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.9	0.31	2.02		08/12/20 01:05	108-90-7	
Chloroethane	<0.26	ug/m3	1.1	0.26	2.02		08/12/20 01:05	75-00-3	
Chloroform	<0.39	ug/m3	1.0	0.39	2.02		08/12/20 01:05	67-66-3	
Chloromethane	1.5	ug/m3	0.85	0.19	2.02		08/12/20 01:05	74-87-3	
Cyclohexane	2.8J	ug/m3	3.5	0.46	2.02		08/12/20 01:05	110-82-7	
Dibromochloromethane	<0.60	ug/m3	3.5	0.60	2.02		08/12/20 01:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.66	ug/m3	1.6	0.66	2.02		08/12/20 01:05	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	2.5	0.76	2.02		08/12/20 01:05	95-50-1	
1,3-Dichlorobenzene	<0.96	ug/m3	2.5	0.96	2.02		08/12/20 01:05	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.2	1.7	2.02		08/12/20 01:05	106-46-7	
Dichlorodifluoromethane	2.0J	ug/m3	2.0	0.30	2.02		08/12/20 01:05	75-71-8	
1,1-Dichloroethane	<0.25	ug/m3	1.7	0.25	2.02		08/12/20 01:05	75-34-3	
1,2-Dichloroethane	<0.36	ug/m3	0.83	0.36	2.02		08/12/20 01:05	107-06-2	
1,1-Dichloroethene	<0.29	ug/m3	1.6	0.29	2.02		08/12/20 01:05	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.6	0.33	2.02		08/12/20 01:05	156-59-2	
trans-1,2-Dichloroethene	<0.34	ug/m3	1.6	0.34	2.02		08/12/20 01:05	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.9	0.34	2.02		08/12/20 01:05	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.9	0.44	2.02		08/12/20 01:05	10061-01-5	
trans-1,3-Dichloropropene	<0.58	ug/m3	1.9	0.58	2.02		08/12/20 01:05	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.9	0.66	2.02		08/12/20 01:05	76-14-2	
Ethanol	29.9	ug/m3	3.9	1.9	2.02		08/12/20 01:05	64-17-5	
Ethyl acetate	5.4	ug/m3	1.5	0.34	2.02		08/12/20 01:05	141-78-6	
Ethylbenzene	13.2	ug/m3	1.8	0.37	2.02		08/12/20 01:05	100-41-4	
4-Ethyltoluene	<0.96	ug/m3	5.0	0.96	2.02		08/12/20 01:05	622-96-8	
n-Heptane	8.3	ug/m3	1.7	0.35	2.02		08/12/20 01:05	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	10.9	1.6	2.02		08/12/20 01:05	87-68-3	
n-Hexane	7.9	ug/m3	1.4	0.49	2.02		08/12/20 01:05	110-54-3	
2-Hexanone	2.7J	ug/m3	8.4	0.72	2.02		08/12/20 01:05	591-78-6	
Methylene Chloride	19.7	ug/m3	7.1	2.0	2.02		08/12/20 01:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.5J	ug/m3	8.4	0.42	2.02		08/12/20 01:05	108-10-1	
Methyl-tert-butyl ether	<0.28	ug/m3	7.4	0.28	2.02		08/12/20 01:05	1634-04-4	
Naphthalene	<2.5	ug/m3	5.4	2.5	2.02		08/12/20 01:05	91-20-3	
2-Propanol	4.7J	ug/m3	5.0	1.7	2.02		08/12/20 01:05	67-63-0	
Propylene	49.3	ug/m3	0.71	0.20	2.02		08/12/20 01:05	115-07-1	
Styrene	2.6	ug/m3	1.7	0.75	2.02		08/12/20 01:05	100-42-5	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG01 **Lab ID: 10527674001** Collected: 08/05/20 14:21 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.61	ug/m3	1.4	0.61	2.02		08/12/20 01:05	79-34-5	
Tetrachloroethene	0.79J	ug/m3	1.4	0.58	2.02		08/12/20 01:05	127-18-4	
Tetrahydrofuran	<0.34	ug/m3	1.2	0.34	2.02		08/12/20 01:05	109-99-9	
Toluene	15.8	ug/m3	1.5	0.34	2.02		08/12/20 01:05	108-88-3	
1,2,4-Trichlorobenzene	<6.7	ug/m3	15.2	6.7	2.02		08/12/20 01:05	120-82-1	
1,1,1-Trichloroethane	<0.27	ug/m3	2.2	0.27	2.02		08/12/20 01:05	71-55-6	
1,1,2-Trichloroethane	<0.45	ug/m3	1.1	0.45	2.02		08/12/20 01:05	79-00-5	
Trichloroethene	0.67J	ug/m3	1.1	0.36	2.02		08/12/20 01:05	79-01-6	
Trichlorofluoromethane	0.96J	ug/m3	2.3	0.57	2.02		08/12/20 01:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/m3	3.2	0.50	2.02		08/12/20 01:05	76-13-1	
1,2,4-Trimethylbenzene	3.3	ug/m3	2.0	0.82	2.02		08/12/20 01:05	95-63-6	
1,3,5-Trimethylbenzene	1.6J	ug/m3	2.0	0.61	2.02		08/12/20 01:05	108-67-8	
Vinyl acetate	<0.36	ug/m3	1.4	0.36	2.02		08/12/20 01:05	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.53	0.20	2.02		08/12/20 01:05	75-01-4	
m&p-Xylene	53.5	ug/m3	3.6	0.86	2.02		08/12/20 01:05	179601-23-1	
o-Xylene	14.7	ug/m3	1.8	0.39	2.02		08/12/20 01:05	95-47-6	

Sample: 167SG02 **Lab ID: 10527674002** Collected: 08/05/20 14:48 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	26.5	ug/m3	11.7	3.4	1.94		08/10/20 01:20	67-64-1	
Benzene	7.6	ug/m3	0.63	0.25	1.94		08/10/20 01:20	71-43-2	
Benzyl chloride	<0.64	ug/m3	5.1	0.64	1.94		08/10/20 01:20	100-44-7	
Bromodichloromethane	<0.51	ug/m3	2.6	0.51	1.94		08/10/20 01:20	75-27-4	
Bromoform	<2.7	ug/m3	10.2	2.7	1.94		08/10/20 01:20	75-25-2	
Bromomethane	<0.35	ug/m3	1.5	0.35	1.94		08/10/20 01:20	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.87	0.19	1.94		08/10/20 01:20	106-99-0	
2-Butanone (MEK)	11.7	ug/m3	5.8	1.0	1.94		08/10/20 01:20	78-93-3	
Carbon disulfide	14.5	ug/m3	1.2	0.38	1.94		08/10/20 01:20	75-15-0	
Carbon tetrachloride	<0.29	ug/m3	2.5	0.29	1.94		08/10/20 01:20	56-23-5	
Chlorobenzene	<0.29	ug/m3	1.8	0.29	1.94		08/10/20 01:20	108-90-7	
Chloroethane	<0.25	ug/m3	1.0	0.25	1.94		08/10/20 01:20	75-00-3	
Chloroform	<0.37	ug/m3	0.96	0.37	1.94		08/10/20 01:20	67-66-3	
Chloromethane	1.0	ug/m3	0.81	0.19	1.94		08/10/20 01:20	74-87-3	
Cyclohexane	11.7	ug/m3	3.4	0.44	1.94		08/10/20 01:20	110-82-7	
Dibromochloromethane	<0.57	ug/m3	3.4	0.57	1.94		08/10/20 01:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.63	ug/m3	1.5	0.63	1.94		08/10/20 01:20	106-93-4	
1,2-Dichlorobenzene	<0.73	ug/m3	2.4	0.73	1.94		08/10/20 01:20	95-50-1	
1,3-Dichlorobenzene	<0.92	ug/m3	2.4	0.92	1.94		08/10/20 01:20	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	5.9	1.6	1.94		08/10/20 01:20	106-46-7	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: **167SG02** Lab ID: **10527674002** Collected: 08/05/20 14:48 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2.6	ug/m3	2.0	0.29	1.94		08/10/20 01:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/m3	1.6	0.24	1.94		08/10/20 01:20	75-34-3	
1,2-Dichloroethane	0.39J	ug/m3	0.80	0.35	1.94		08/10/20 01:20	107-06-2	
1,1-Dichloroethene	<0.28	ug/m3	1.6	0.28	1.94		08/10/20 01:20	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.6	0.31	1.94		08/10/20 01:20	156-59-2	
trans-1,2-Dichloroethene	<0.33	ug/m3	1.6	0.33	1.94		08/10/20 01:20	156-60-5	
1,2-Dichloropropane	<0.33	ug/m3	1.8	0.33	1.94		08/10/20 01:20	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.8	0.43	1.94		08/10/20 01:20	10061-01-5	
trans-1,3-Dichloropropene	<0.55	ug/m3	1.8	0.55	1.94		08/10/20 01:20	10061-02-6	
Dichlorotetrafluoroethane	<0.63	ug/m3	2.8	0.63	1.94		08/10/20 01:20	76-14-2	
Ethanol	26.3	ug/m3	3.7	1.8	1.94		08/10/20 01:20	64-17-5	
Ethyl acetate	3.8	ug/m3	1.4	0.33	1.94		08/10/20 01:20	141-78-6	
Ethylbenzene	4.6	ug/m3	1.7	0.35	1.94		08/10/20 01:20	100-41-4	
4-Ethyltoluene	1.5J	ug/m3	4.8	0.92	1.94		08/10/20 01:20	622-96-8	
n-Heptane	14.3	ug/m3	1.6	0.34	1.94		08/10/20 01:20	142-82-5	
Hexachloro-1,3-butadiene	<1.5	ug/m3	10.5	1.5	1.94		08/10/20 01:20	87-68-3	
n-Hexane	17.8	ug/m3	1.4	0.47	1.94		08/10/20 01:20	110-54-3	
2-Hexanone	<0.69	ug/m3	8.1	0.69	1.94		08/10/20 01:20	591-78-6	
Methylene Chloride	22.2	ug/m3	6.8	1.9	1.94		08/10/20 01:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.41	ug/m3	8.1	0.41	1.94		08/10/20 01:20	108-10-1	
Methyl-tert-butyl ether	<0.27	ug/m3	7.1	0.27	1.94		08/10/20 01:20	1634-04-4	
Naphthalene	<2.4	ug/m3	5.2	2.4	1.94		08/10/20 01:20	91-20-3	
2-Propanol	4.4J	ug/m3	4.8	1.7	1.94		08/10/20 01:20	67-63-0	
Propylene	71.1	ug/m3	0.68	0.19	1.94		08/10/20 01:20	115-07-1	
Styrene	1.7J	ug/m3	1.7	0.72	1.94		08/10/20 01:20	100-42-5	
1,1,2,2-Tetrachloroethane	<0.58	ug/m3	1.4	0.58	1.94		08/10/20 01:20	79-34-5	
Tetrachloroethene	1.0J	ug/m3	1.3	0.55	1.94		08/10/20 01:20	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.2	0.33	1.94		08/10/20 01:20	109-99-9	
Toluene	25.4	ug/m3	1.5	0.32	1.94		08/10/20 01:20	108-88-3	
1,2,4-Trichlorobenzene	<6.4	ug/m3	14.6	6.4	1.94		08/10/20 01:20	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/m3	2.2	0.26	1.94		08/10/20 01:20	71-55-6	
1,1,2-Trichloroethane	<0.44	ug/m3	1.1	0.44	1.94		08/10/20 01:20	79-00-5	
Trichloroethene	0.70J	ug/m3	1.1	0.34	1.94		08/10/20 01:20	79-01-6	
Trichlorofluoromethane	1.6J	ug/m3	2.2	0.55	1.94		08/10/20 01:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.48	ug/m3	3.0	0.48	1.94		08/10/20 01:20	76-13-1	
1,2,4-Trimethylbenzene	11.8	ug/m3	1.9	0.79	1.94		08/10/20 01:20	95-63-6	
1,3,5-Trimethylbenzene	5.5	ug/m3	1.9	0.58	1.94		08/10/20 01:20	108-67-8	
Vinyl acetate	<0.34	ug/m3	1.4	0.34	1.94		08/10/20 01:20	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.50	0.20	1.94		08/10/20 01:20	75-01-4	
m&p-Xylene	15.9	ug/m3	3.4	0.83	1.94		08/10/20 01:20	179601-23-1	
o-Xylene	6.7	ug/m3	1.7	0.38	1.94		08/10/20 01:20	95-47-6	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: **167SG03** Lab ID: **10527674003** Collected: 08/05/20 14:59 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	35.8	ug/m3	11.7	3.4	1.94		08/12/20 00:36	67-64-1	
Benzene	14.4	ug/m3	0.63	0.25	1.94		08/12/20 00:36	71-43-2	
Benzyl chloride	<0.64	ug/m3	5.1	0.64	1.94		08/12/20 00:36	100-44-7	
Bromodichloromethane	<0.51	ug/m3	2.6	0.51	1.94		08/12/20 00:36	75-27-4	
Bromoform	<2.7	ug/m3	10.2	2.7	1.94		08/12/20 00:36	75-25-2	
Bromomethane	<0.35	ug/m3	1.5	0.35	1.94		08/12/20 00:36	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.87	0.19	1.94		08/12/20 00:36	106-99-0	
2-Butanone (MEK)	12.9	ug/m3	5.8	1.0	1.94		08/12/20 00:36	78-93-3	
Carbon disulfide	14.1	ug/m3	1.2	0.38	1.94		08/12/20 00:36	75-15-0	
Carbon tetrachloride	0.31J	ug/m3	2.5	0.29	1.94		08/12/20 00:36	56-23-5	
Chlorobenzene	<0.29	ug/m3	1.8	0.29	1.94		08/12/20 00:36	108-90-7	
Chloroethane	<0.25	ug/m3	1.0	0.25	1.94		08/12/20 00:36	75-00-3	
Chloroform	<0.37	ug/m3	0.96	0.37	1.94		08/12/20 00:36	67-66-3	
Chloromethane	1.2	ug/m3	0.81	0.19	1.94		08/12/20 00:36	74-87-3	
Cyclohexane	5.2	ug/m3	3.4	0.44	1.94		08/12/20 00:36	110-82-7	
Dibromochloromethane	<0.57	ug/m3	3.4	0.57	1.94		08/12/20 00:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.63	ug/m3	1.5	0.63	1.94		08/12/20 00:36	106-93-4	
1,2-Dichlorobenzene	<0.73	ug/m3	2.4	0.73	1.94		08/12/20 00:36	95-50-1	
1,3-Dichlorobenzene	<0.92	ug/m3	2.4	0.92	1.94		08/12/20 00:36	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	5.9	1.6	1.94		08/12/20 00:36	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	2.0	0.29	1.94		08/12/20 00:36	75-71-8	
1,1-Dichloroethane	<0.24	ug/m3	1.6	0.24	1.94		08/12/20 00:36	75-34-3	
1,2-Dichloroethane	0.70J	ug/m3	0.80	0.35	1.94		08/12/20 00:36	107-06-2	
1,1-Dichloroethene	<0.28	ug/m3	1.6	0.28	1.94		08/12/20 00:36	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.6	0.31	1.94		08/12/20 00:36	156-59-2	
trans-1,2-Dichloroethene	<0.33	ug/m3	1.6	0.33	1.94		08/12/20 00:36	156-60-5	
1,2-Dichloropropane	<0.33	ug/m3	1.8	0.33	1.94		08/12/20 00:36	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.8	0.43	1.94		08/12/20 00:36	10061-01-5	
trans-1,3-Dichloropropene	<0.55	ug/m3	1.8	0.55	1.94		08/12/20 00:36	10061-02-6	
Dichlorotetrafluoroethane	<0.63	ug/m3	2.8	0.63	1.94		08/12/20 00:36	76-14-2	
Ethanol	24.8	ug/m3	3.7	1.8	1.94		08/12/20 00:36	64-17-5	
Ethyl acetate	3.7	ug/m3	1.4	0.33	1.94		08/12/20 00:36	141-78-6	
Ethylbenzene	4.1	ug/m3	1.7	0.35	1.94		08/12/20 00:36	100-41-4	
4-Ethyltoluene	1.6J	ug/m3	4.8	0.92	1.94		08/12/20 00:36	622-96-8	
n-Heptane	5.5	ug/m3	1.6	0.34	1.94		08/12/20 00:36	142-82-5	
Hexachloro-1,3-butadiene	<1.5	ug/m3	10.5	1.5	1.94		08/12/20 00:36	87-68-3	
n-Hexane	8.8	ug/m3	1.4	0.47	1.94		08/12/20 00:36	110-54-3	
2-Hexanone	1.6J	ug/m3	8.1	0.69	1.94		08/12/20 00:36	591-78-6	
Methylene Chloride	30.3	ug/m3	6.8	1.9	1.94		08/12/20 00:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.0J	ug/m3	8.1	0.41	1.94		08/12/20 00:36	108-10-1	
Methyl-tert-butyl ether	<0.27	ug/m3	7.1	0.27	1.94		08/12/20 00:36	1634-04-4	
Naphthalene	<2.4	ug/m3	5.2	2.4	1.94		08/12/20 00:36	91-20-3	
2-Propanol	3.0J	ug/m3	4.8	1.7	1.94		08/12/20 00:36	67-63-0	
Propylene	74.5	ug/m3	0.68	0.19	1.94		08/12/20 00:36	115-07-1	
Styrene	1.9	ug/m3	1.7	0.72	1.94		08/12/20 00:36	100-42-5	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG03 **Lab ID: 10527674003** Collected: 08/05/20 14:59 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.58	ug/m3	1.4	0.58	1.94		08/12/20 00:36	79-34-5	
Tetrachloroethene	3.6	ug/m3	1.3	0.55	1.94		08/12/20 00:36	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.2	0.33	1.94		08/12/20 00:36	109-99-9	
Toluene	24.4	ug/m3	1.5	0.32	1.94		08/12/20 00:36	108-88-3	
1,2,4-Trichlorobenzene	<6.4	ug/m3	14.6	6.4	1.94		08/12/20 00:36	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/m3	2.2	0.26	1.94		08/12/20 00:36	71-55-6	
1,1,2-Trichloroethane	<0.44	ug/m3	1.1	0.44	1.94		08/12/20 00:36	79-00-5	
Trichloroethene	0.78J	ug/m3	1.1	0.34	1.94		08/12/20 00:36	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	2.2	0.55	1.94		08/12/20 00:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.67J	ug/m3	3.0	0.48	1.94		08/12/20 00:36	76-13-1	
1,2,4-Trimethylbenzene	10.1	ug/m3	1.9	0.79	1.94		08/12/20 00:36	95-63-6	
1,3,5-Trimethylbenzene	4.9	ug/m3	1.9	0.58	1.94		08/12/20 00:36	108-67-8	
Vinyl acetate	<0.34	ug/m3	1.4	0.34	1.94		08/12/20 00:36	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.50	0.20	1.94		08/12/20 00:36	75-01-4	
m&p-Xylene	17.6	ug/m3	3.4	0.83	1.94		08/12/20 00:36	179601-23-1	
o-Xylene	7.7	ug/m3	1.7	0.38	1.94		08/12/20 00:36	95-47-6	

Sample: 167SG04 **Lab ID: 10527674004** Collected: 08/05/20 15:15 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	<106	ug/m3	366	106	60.6		08/12/20 02:25	67-64-1	
Benzene	49.7	ug/m3	19.7	7.8	60.6		08/12/20 02:25	71-43-2	
Benzyl chloride	<19.9	ug/m3	159	19.9	60.6		08/12/20 02:25	100-44-7	
Bromodichloromethane	<16.0	ug/m3	82.4	16.0	60.6		08/12/20 02:25	75-27-4	
Bromoform	<85.4	ug/m3	318	85.4	60.6		08/12/20 02:25	75-25-2	
Bromomethane	<10.9	ug/m3	47.8	10.9	60.6		08/12/20 02:25	74-83-9	
1,3-Butadiene	<6.0	ug/m3	27.3	6.0	60.6		08/12/20 02:25	106-99-0	
2-Butanone (MEK)	<32.5	ug/m3	182	32.5	60.6		08/12/20 02:25	78-93-3	
Carbon disulfide	13.3J	ug/m3	38.4	11.8	60.6		08/12/20 02:25	75-15-0	
Carbon tetrachloride	<8.9	ug/m3	77.6	8.9	60.6		08/12/20 02:25	56-23-5	
Chlorobenzene	<9.2	ug/m3	56.7	9.2	60.6		08/12/20 02:25	108-90-7	
Chloroethane	<7.9	ug/m3	32.5	7.9	60.6		08/12/20 02:25	75-00-3	
Chloroform	<11.7	ug/m3	30.1	11.7	60.6		08/12/20 02:25	67-66-3	
Chloromethane	<5.8	ug/m3	25.5	5.8	60.6		08/12/20 02:25	74-87-3	
Cyclohexane	<13.9	ug/m3	106	13.9	60.6		08/12/20 02:25	110-82-7	
Dibromochloromethane	<17.9	ug/m3	105	17.9	60.6		08/12/20 02:25	124-48-1	
1,2-Dibromoethane (EDB)	<19.7	ug/m3	47.3	19.7	60.6		08/12/20 02:25	106-93-4	
1,2-Dichlorobenzene	<22.8	ug/m3	73.9	22.8	60.6		08/12/20 02:25	95-50-1	
1,3-Dichlorobenzene	<28.7	ug/m3	73.9	28.7	60.6		08/12/20 02:25	541-73-1	
1,4-Dichlorobenzene	<51.1	ug/m3	185	51.1	60.6		08/12/20 02:25	106-46-7	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: **167SG04** Lab ID: **10527674004** Collected: 08/05/20 15:15 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	<9.1	ug/m3	61.2	9.1	60.6		08/12/20 02:25	75-71-8	
1,1-Dichloroethane	<7.6	ug/m3	49.9	7.6	60.6		08/12/20 02:25	75-34-3	
1,2-Dichloroethane	<10.8	ug/m3	24.9	10.8	60.6		08/12/20 02:25	107-06-2	
1,1-Dichloroethene	<8.7	ug/m3	48.8	8.7	60.6		08/12/20 02:25	75-35-4	
cis-1,2-Dichloroethene	<9.8	ug/m3	48.8	9.8	60.6		08/12/20 02:25	156-59-2	
trans-1,2-Dichloroethene	<10.2	ug/m3	48.8	10.2	60.6		08/12/20 02:25	156-60-5	
1,2-Dichloropropane	<10.3	ug/m3	56.9	10.3	60.6		08/12/20 02:25	78-87-5	
cis-1,3-Dichloropropene	<13.3	ug/m3	55.9	13.3	60.6		08/12/20 02:25	10061-01-5	
trans-1,3-Dichloropropene	<17.3	ug/m3	55.9	17.3	60.6		08/12/20 02:25	10061-02-6	
Dichlorotetrafluoroethane	<19.8	ug/m3	86.1	19.8	60.6		08/12/20 02:25	76-14-2	
Ethanol	<57.1	ug/m3	116	57.1	60.6		08/12/20 02:25	64-17-5	
Ethyl acetate	<10.2	ug/m3	44.4	10.2	60.6		08/12/20 02:25	141-78-6	
Ethylbenzene	1170	ug/m3	53.5	11.0	60.6		08/12/20 02:25	100-41-4	
4-Ethyltoluene	1790	ug/m3	152	28.8	60.6		08/12/20 02:25	622-96-8	
n-Heptane	633	ug/m3	50.5	10.5	60.6		08/12/20 02:25	142-82-5	
Hexachloro-1,3-butadiene	<48.2	ug/m3	328	48.2	60.6		08/12/20 02:25	87-68-3	
n-Hexane	495	ug/m3	43.4	14.7	60.6		08/12/20 02:25	110-54-3	
2-Hexanone	<21.5	ug/m3	252	21.5	60.6		08/12/20 02:25	591-78-6	
Methylene Chloride	<59.9	ug/m3	214	59.9	60.6		08/12/20 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.7	ug/m3	252	12.7	60.6		08/12/20 02:25	108-10-1	
Methyl-tert-butyl ether	<8.4	ug/m3	222	8.4	60.6		08/12/20 02:25	1634-04-4	
Naphthalene	1450	ug/m3	161	75.1	60.6		08/12/20 02:25	91-20-3	
2-Propanol	<51.7	ug/m3	152	51.7	60.6		08/12/20 02:25	67-63-0	
Propylene	34.7	ug/m3	21.2	5.9	60.6		08/12/20 02:25	115-07-1	
Styrene	37.3J	ug/m3	52.5	22.4	60.6		08/12/20 02:25	100-42-5	
1,1,2,2-Tetrachloroethane	<18.2	ug/m3	42.3	18.2	60.6		08/12/20 02:25	79-34-5	
Tetrachloroethene	<17.3	ug/m3	41.8	17.3	60.6		08/12/20 02:25	127-18-4	
Tetrahydrofuran	<10.3	ug/m3	36.4	10.3	60.6		08/12/20 02:25	109-99-9	
Toluene	1600	ug/m3	46.4	10.1	60.6		08/12/20 02:25	108-88-3	
1,2,4-Trichlorobenzene	<201	ug/m3	457	201	60.6		08/12/20 02:25	120-82-1	
1,1,1-Trichloroethane	<8.1	ug/m3	67.3	8.1	60.6		08/12/20 02:25	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/m3	33.6	13.6	60.6		08/12/20 02:25	79-00-5	
Trichloroethene	<10.7	ug/m3	33.1	10.7	60.6		08/12/20 02:25	79-01-6	
Trichlorofluoromethane	<17.1	ug/m3	69.1	17.1	60.6		08/12/20 02:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	<15.1	ug/m3	94.5	15.1	60.6		08/12/20 02:25	76-13-1	
1,2,4-Trimethylbenzene	8500	ug/m3	60.5	24.6	60.6		08/12/20 02:25	95-63-6	
1,3,5-Trimethylbenzene	2940	ug/m3	60.5	18.2	60.6		08/12/20 02:25	108-67-8	
Vinyl acetate	<10.7	ug/m3	43.4	10.7	60.6		08/12/20 02:25	108-05-4	
Vinyl chloride	<6.1	ug/m3	15.8	6.1	60.6		08/12/20 02:25	75-01-4	
m&p-Xylene	6740	ug/m3	107	25.8	60.6		08/12/20 02:25	179601-23-1	
o-Xylene	2940	ug/m3	53.5	11.8	60.6		08/12/20 02:25	95-47-6	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG05 Lab ID: 10527674005 Collected: 08/05/20 15:38 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	46.2	ug/m3	12.0	3.5	1.98		08/12/20 01:33	67-64-1	
Benzene	2.7	ug/m3	0.64	0.26	1.98		08/12/20 01:33	71-43-2	
Benzyl chloride	<0.65	ug/m3	5.2	0.65	1.98		08/12/20 01:33	100-44-7	
Bromodichloromethane	<0.52	ug/m3	2.7	0.52	1.98		08/12/20 01:33	75-27-4	
Bromoform	<2.8	ug/m3	10.4	2.8	1.98		08/12/20 01:33	75-25-2	
Bromomethane	<0.36	ug/m3	1.6	0.36	1.98		08/12/20 01:33	74-83-9	
1,3-Butadiene	0.64J	ug/m3	0.89	0.20	1.98		08/12/20 01:33	106-99-0	
2-Butanone (MEK)	23.2	ug/m3	5.9	1.1	1.98		08/12/20 01:33	78-93-3	
Carbon disulfide	24.8	ug/m3	1.3	0.39	1.98		08/12/20 01:33	75-15-0	
Carbon tetrachloride	<0.29	ug/m3	2.5	0.29	1.98		08/12/20 01:33	56-23-5	
Chlorobenzene	<0.30	ug/m3	1.9	0.30	1.98		08/12/20 01:33	108-90-7	
Chloroethane	<0.26	ug/m3	1.1	0.26	1.98		08/12/20 01:33	75-00-3	
Chloroform	0.45J	ug/m3	0.98	0.38	1.98		08/12/20 01:33	67-66-3	
Chloromethane	1.2	ug/m3	0.83	0.19	1.98		08/12/20 01:33	74-87-3	
Cyclohexane	5.7	ug/m3	3.5	0.45	1.98		08/12/20 01:33	110-82-7	
Dibromochloromethane	<0.58	ug/m3	3.4	0.58	1.98		08/12/20 01:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.64	ug/m3	1.5	0.64	1.98		08/12/20 01:33	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	2.4	0.74	1.98		08/12/20 01:33	95-50-1	
1,3-Dichlorobenzene	<0.94	ug/m3	2.4	0.94	1.98		08/12/20 01:33	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.1	1.7	1.98		08/12/20 01:33	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	2.0	0.30	1.98		08/12/20 01:33	75-71-8	
1,1-Dichloroethane	<0.25	ug/m3	1.6	0.25	1.98		08/12/20 01:33	75-34-3	
1,2-Dichloroethane	<0.35	ug/m3	0.81	0.35	1.98		08/12/20 01:33	107-06-2	
1,1-Dichloroethene	<0.28	ug/m3	1.6	0.28	1.98		08/12/20 01:33	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.6	0.32	1.98		08/12/20 01:33	156-59-2	
trans-1,2-Dichloroethene	<0.33	ug/m3	1.6	0.33	1.98		08/12/20 01:33	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.9	0.34	1.98		08/12/20 01:33	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.8	0.44	1.98		08/12/20 01:33	10061-01-5	
trans-1,3-Dichloropropene	<0.56	ug/m3	1.8	0.56	1.98		08/12/20 01:33	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.8	0.65	1.98		08/12/20 01:33	76-14-2	
Ethanol	21.9	ug/m3	3.8	1.9	1.98		08/12/20 01:33	64-17-5	
Ethyl acetate	2.5	ug/m3	1.5	0.33	1.98		08/12/20 01:33	141-78-6	
Ethylbenzene	2.8	ug/m3	1.7	0.36	1.98		08/12/20 01:33	100-41-4	
4-Ethyltoluene	2.9J	ug/m3	5.0	0.94	1.98		08/12/20 01:33	622-96-8	
n-Heptane	<0.34	ug/m3	1.6	0.34	1.98		08/12/20 01:33	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	10.7	1.6	1.98		08/12/20 01:33	87-68-3	
n-Hexane	5.1	ug/m3	1.4	0.48	1.98		08/12/20 01:33	110-54-3	
2-Hexanone	3.5J	ug/m3	8.2	0.70	1.98		08/12/20 01:33	591-78-6	
Methylene Chloride	19.2	ug/m3	7.0	2.0	1.98		08/12/20 01:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	18.1	ug/m3	8.2	0.42	1.98		08/12/20 01:33	108-10-1	
Methyl-tert-butyl ether	<0.27	ug/m3	7.2	0.27	1.98		08/12/20 01:33	1634-04-4	
Naphthalene	<2.5	ug/m3	5.3	2.5	1.98		08/12/20 01:33	91-20-3	
2-Propanol	5.7	ug/m3	5.0	1.7	1.98		08/12/20 01:33	67-63-0	
Propylene	10.6	ug/m3	0.69	0.19	1.98		08/12/20 01:33	115-07-1	
Styrene	1.1J	ug/m3	1.7	0.73	1.98		08/12/20 01:33	100-42-5	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG05 **Lab ID: 10527674005** Collected: 08/05/20 15:38 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.60	ug/m3	1.4	0.60	1.98		08/12/20 01:33	79-34-5	
Tetrachloroethene	930	ug/m3	40.9	17.0	59.4		08/12/20 01:59	127-18-4	
Tetrahydrofuran	<0.34	ug/m3	1.2	0.34	1.98		08/12/20 01:33	109-99-9	
Toluene	24.1	ug/m3	1.5	0.33	1.98		08/12/20 01:33	108-88-3	
1,2,4-Trichlorobenzene	<6.6	ug/m3	14.9	6.6	1.98		08/12/20 01:33	120-82-1	
1,1,1-Trichloroethane	0.98J	ug/m3	2.2	0.27	1.98		08/12/20 01:33	71-55-6	
1,1,2-Trichloroethane	<0.45	ug/m3	1.1	0.45	1.98		08/12/20 01:33	79-00-5	
Trichloroethene	1.6	ug/m3	1.1	0.35	1.98		08/12/20 01:33	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	2.3	0.56	1.98		08/12/20 01:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.49	ug/m3	3.1	0.49	1.98		08/12/20 01:33	76-13-1	
1,2,4-Trimethylbenzene	14.7	ug/m3	2.0	0.80	1.98		08/12/20 01:33	95-63-6	
1,3,5-Trimethylbenzene	6.4	ug/m3	2.0	0.59	1.98		08/12/20 01:33	108-67-8	
Vinyl acetate	<0.35	ug/m3	1.4	0.35	1.98		08/12/20 01:33	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.51	0.20	1.98		08/12/20 01:33	75-01-4	
m&p-Xylene	11.7	ug/m3	3.5	0.84	1.98		08/12/20 01:33	179601-23-1	
o-Xylene	5.6	ug/m3	1.7	0.38	1.98		08/12/20 01:33	95-47-6	

Sample: 167SG06 **Lab ID: 10527674006** Collected: 08/05/20 15:51 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	29.9	ug/m3	12.4	3.6	2.06		08/12/20 00:04	67-64-1	
Benzene	1.5	ug/m3	0.67	0.27	2.06		08/12/20 00:04	71-43-2	
Benzyl chloride	<0.68	ug/m3	5.4	0.68	2.06		08/12/20 00:04	100-44-7	
Bromodichloromethane	<0.54	ug/m3	2.8	0.54	2.06		08/12/20 00:04	75-27-4	
Bromoform	<2.9	ug/m3	10.8	2.9	2.06		08/12/20 00:04	75-25-2	
Bromomethane	0.60J	ug/m3	1.6	0.37	2.06		08/12/20 00:04	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.93	0.21	2.06		08/12/20 00:04	106-99-0	
2-Butanone (MEK)	30.3	ug/m3	6.2	1.1	2.06		08/12/20 00:04	78-93-3	
Carbon disulfide	13.9	ug/m3	1.3	0.40	2.06		08/12/20 00:04	75-15-0	
Carbon tetrachloride	<0.30	ug/m3	2.6	0.30	2.06		08/12/20 00:04	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.9	0.31	2.06		08/12/20 00:04	108-90-7	
Chloroethane	<0.27	ug/m3	1.1	0.27	2.06		08/12/20 00:04	75-00-3	
Chloroform	<0.40	ug/m3	1.0	0.40	2.06		08/12/20 00:04	67-66-3	
Chloromethane	1.2	ug/m3	0.87	0.20	2.06		08/12/20 00:04	74-87-3	
Cyclohexane	5.3	ug/m3	3.6	0.47	2.06		08/12/20 00:04	110-82-7	
Dibromochloromethane	<0.61	ug/m3	3.6	0.61	2.06		08/12/20 00:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.67	ug/m3	1.6	0.67	2.06		08/12/20 00:04	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	2.5	0.77	2.06		08/12/20 00:04	95-50-1	
1,3-Dichlorobenzene	<0.97	ug/m3	2.5	0.97	2.06		08/12/20 00:04	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.3	1.7	2.06		08/12/20 00:04	106-46-7	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG06 Lab ID: 10527674006 Collected: 08/05/20 15:51 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	1.9J	ug/m3	2.1	0.31	2.06		08/12/20 00:04	75-71-8	
1,1-Dichloroethane	<0.26	ug/m3	1.7	0.26	2.06		08/12/20 00:04	75-34-3	
1,2-Dichloroethane	<0.37	ug/m3	0.85	0.37	2.06		08/12/20 00:04	107-06-2	
1,1-Dichloroethene	<0.29	ug/m3	1.7	0.29	2.06		08/12/20 00:04	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.7	0.33	2.06		08/12/20 00:04	156-59-2	
trans-1,2-Dichloroethene	<0.35	ug/m3	1.7	0.35	2.06		08/12/20 00:04	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.9	0.35	2.06		08/12/20 00:04	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.9	0.45	2.06		08/12/20 00:04	10061-01-5	
trans-1,3-Dichloropropene	<0.59	ug/m3	1.9	0.59	2.06		08/12/20 00:04	10061-02-6	
Dichlorotetrafluoroethane	<0.67	ug/m3	2.9	0.67	2.06		08/12/20 00:04	76-14-2	
Ethanol	29.7	ug/m3	4.0	1.9	2.06		08/12/20 00:04	64-17-5	
Ethyl acetate	4.4	ug/m3	1.5	0.35	2.06		08/12/20 00:04	141-78-6	
Ethylbenzene	2.8	ug/m3	1.8	0.37	2.06		08/12/20 00:04	100-41-4	
4-Ethyltoluene	2.3J	ug/m3	5.2	0.98	2.06		08/12/20 00:04	622-96-8	
n-Heptane	5.6	ug/m3	1.7	0.36	2.06		08/12/20 00:04	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	11.2	1.6	2.06		08/12/20 00:04	87-68-3	
n-Hexane	4.3	ug/m3	1.5	0.50	2.06		08/12/20 00:04	110-54-3	
2-Hexanone	<0.73	ug/m3	8.6	0.73	2.06		08/12/20 00:04	591-78-6	
Methylene Chloride	36.9	ug/m3	7.3	2.0	2.06		08/12/20 00:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	16.4	ug/m3	8.6	0.43	2.06		08/12/20 00:04	108-10-1	
Methyl-tert-butyl ether	<0.28	ug/m3	7.5	0.28	2.06		08/12/20 00:04	1634-04-4	
Naphthalene	<2.6	ug/m3	5.5	2.6	2.06		08/12/20 00:04	91-20-3	
2-Propanol	10.3	ug/m3	5.2	1.8	2.06		08/12/20 00:04	67-63-0	
Propylene	12.2	ug/m3	0.72	0.20	2.06		08/12/20 00:04	115-07-1	
Styrene	1.1J	ug/m3	1.8	0.76	2.06		08/12/20 00:04	100-42-5	
1,1,2,2-Tetrachloroethane	<0.62	ug/m3	1.4	0.62	2.06		08/12/20 00:04	79-34-5	
Tetrachloroethene	621	ug/m3	13.9	5.8	20.2		08/12/20 11:34	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	1.2	0.35	2.06		08/12/20 00:04	109-99-9	
Toluene	13.1	ug/m3	1.6	0.34	2.06		08/12/20 00:04	108-88-3	
1,2,4-Trichlorobenzene	<6.8	ug/m3	15.5	6.8	2.06		08/12/20 00:04	120-82-1	
1,1,1-Trichloroethane	0.97J	ug/m3	2.3	0.28	2.06		08/12/20 00:04	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	1.1	0.46	2.06		08/12/20 00:04	79-00-5	
Trichloroethene	0.89J	ug/m3	1.1	0.36	2.06		08/12/20 00:04	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	2.3	0.58	2.06		08/12/20 00:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.51	ug/m3	3.2	0.51	2.06		08/12/20 00:04	76-13-1	
1,2,4-Trimethylbenzene	12.0	ug/m3	2.1	0.84	2.06		08/12/20 00:04	95-63-6	
1,3,5-Trimethylbenzene	6.6	ug/m3	2.1	0.62	2.06		08/12/20 00:04	108-67-8	
Vinyl acetate	<0.36	ug/m3	1.5	0.36	2.06		08/12/20 00:04	108-05-4	
Vinyl chloride	<0.21	ug/m3	0.54	0.21	2.06		08/12/20 00:04	75-01-4	
m&p-Xylene	15.6	ug/m3	3.6	0.88	2.06		08/12/20 00:04	179601-23-1	
o-Xylene	11.4	ug/m3	1.8	0.40	2.06		08/12/20 00:04	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG07 Lab ID: 10527674007 Collected: 08/05/20 16:08 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	28.0	ug/m3	12.2	3.5	2.02		08/11/20 23:32	67-64-1	
Benzene	0.43J	ug/m3	0.66	0.26	2.02		08/11/20 23:32	71-43-2	
Benzyl chloride	<0.66	ug/m3	5.3	0.66	2.02		08/11/20 23:32	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.7	0.53	2.02		08/11/20 23:32	75-27-4	
Bromoform	<2.8	ug/m3	10.6	2.8	2.02		08/11/20 23:32	75-25-2	
Bromomethane	0.73J	ug/m3	1.6	0.36	2.02		08/11/20 23:32	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.91	0.20	2.02		08/11/20 23:32	106-99-0	
2-Butanone (MEK)	13.6	ug/m3	6.1	1.1	2.02		08/11/20 23:32	78-93-3	
Carbon disulfide	11.6	ug/m3	1.3	0.39	2.02		08/11/20 23:32	75-15-0	
Carbon tetrachloride	<0.30	ug/m3	2.6	0.30	2.02		08/11/20 23:32	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.9	0.31	2.02		08/11/20 23:32	108-90-7	
Chloroethane	<0.26	ug/m3	1.1	0.26	2.02		08/11/20 23:32	75-00-3	
Chloroform	<0.39	ug/m3	1.0	0.39	2.02		08/11/20 23:32	67-66-3	
Chloromethane	1.4	ug/m3	0.85	0.19	2.02		08/11/20 23:32	74-87-3	
Cyclohexane	0.66J	ug/m3	3.5	0.46	2.02		08/11/20 23:32	110-82-7	
Dibromochloromethane	<0.60	ug/m3	3.5	0.60	2.02		08/11/20 23:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.66	ug/m3	1.6	0.66	2.02		08/11/20 23:32	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	2.5	0.76	2.02		08/11/20 23:32	95-50-1	
1,3-Dichlorobenzene	<0.96	ug/m3	2.5	0.96	2.02		08/11/20 23:32	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.2	1.7	2.02		08/11/20 23:32	106-46-7	
Dichlorodifluoromethane	2.0J	ug/m3	2.0	0.30	2.02		08/11/20 23:32	75-71-8	
1,1-Dichloroethane	<0.25	ug/m3	1.7	0.25	2.02		08/11/20 23:32	75-34-3	
1,2-Dichloroethane	<0.36	ug/m3	0.83	0.36	2.02		08/11/20 23:32	107-06-2	
1,1-Dichloroethene	<0.29	ug/m3	1.6	0.29	2.02		08/11/20 23:32	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.6	0.33	2.02		08/11/20 23:32	156-59-2	
trans-1,2-Dichloroethene	<0.34	ug/m3	1.6	0.34	2.02		08/11/20 23:32	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.9	0.34	2.02		08/11/20 23:32	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.9	0.44	2.02		08/11/20 23:32	10061-01-5	
trans-1,3-Dichloropropene	<0.58	ug/m3	1.9	0.58	2.02		08/11/20 23:32	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.9	0.66	2.02		08/11/20 23:32	76-14-2	
Ethanol	24.1	ug/m3	3.9	1.9	2.02		08/11/20 23:32	64-17-5	
Ethyl acetate	2.2	ug/m3	1.5	0.34	2.02		08/11/20 23:32	141-78-6	
Ethylbenzene	0.61J	ug/m3	1.8	0.37	2.02		08/11/20 23:32	100-41-4	
4-Ethyltoluene	<0.96	ug/m3	5.0	0.96	2.02		08/11/20 23:32	622-96-8	
n-Heptane	<0.35	ug/m3	1.7	0.35	2.02		08/11/20 23:32	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	10.9	1.6	2.02		08/11/20 23:32	87-68-3	
n-Hexane	1.5	ug/m3	1.4	0.49	2.02		08/11/20 23:32	110-54-3	
2-Hexanone	2.5J	ug/m3	8.4	0.72	2.02		08/11/20 23:32	591-78-6	
Methylene Chloride	21.0	ug/m3	7.1	2.0	2.02		08/11/20 23:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.0J	ug/m3	8.4	0.42	2.02		08/11/20 23:32	108-10-1	
Methyl-tert-butyl ether	<0.28	ug/m3	7.4	0.28	2.02		08/11/20 23:32	1634-04-4	
Naphthalene	<2.5	ug/m3	5.4	2.5	2.02		08/11/20 23:32	91-20-3	
2-Propanol	9.9	ug/m3	5.0	1.7	2.02		08/11/20 23:32	67-63-0	
Propylene	<0.20	ug/m3	0.71	0.20	2.02		08/11/20 23:32	115-07-1	
Styrene	0.83J	ug/m3	1.7	0.75	2.02		08/11/20 23:32	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: 167SG07 **Lab ID: 10527674007** Collected: 08/05/20 16:08 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.61	ug/m3	1.4	0.61	2.02		08/11/20 23:32	79-34-5	
Tetrachloroethene	0.76J	ug/m3	1.4	0.58	2.02		08/11/20 23:32	127-18-4	
Tetrahydrofuran	<0.34	ug/m3	1.2	0.34	2.02		08/11/20 23:32	109-99-9	
Toluene	6.3	ug/m3	1.5	0.34	2.02		08/11/20 23:32	108-88-3	
1,2,4-Trichlorobenzene	<6.7	ug/m3	15.2	6.7	2.02		08/11/20 23:32	120-82-1	
1,1,1-Trichloroethane	<0.27	ug/m3	2.2	0.27	2.02		08/11/20 23:32	71-55-6	
1,1,2-Trichloroethane	<0.45	ug/m3	1.1	0.45	2.02		08/11/20 23:32	79-00-5	
Trichloroethene	0.56J	ug/m3	1.1	0.36	2.02		08/11/20 23:32	79-01-6	
Trichlorofluoromethane	0.99J	ug/m3	2.3	0.57	2.02		08/11/20 23:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/m3	3.2	0.50	2.02		08/11/20 23:32	76-13-1	
1,2,4-Trimethylbenzene	1.3J	ug/m3	2.0	0.82	2.02		08/11/20 23:32	95-63-6	
1,3,5-Trimethylbenzene	0.64J	ug/m3	2.0	0.61	2.02		08/11/20 23:32	108-67-8	
Vinyl acetate	<0.36	ug/m3	1.4	0.36	2.02		08/11/20 23:32	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.53	0.20	2.02		08/11/20 23:32	75-01-4	
m&p-Xylene	2.3J	ug/m3	3.6	0.86	2.02		08/11/20 23:32	179601-23-1	
o-Xylene	1.1J	ug/m3	1.8	0.39	2.02		08/11/20 23:32	95-47-6	

Sample: 167SG08 **Lab ID: 10527674008** Collected: 08/05/20 16:26 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	18.9	ug/m3	12.4	3.6	2.06		08/11/20 23:02	67-64-1	
Benzene	1.3	ug/m3	0.67	0.27	2.06		08/11/20 23:02	71-43-2	
Benzyl chloride	<0.68	ug/m3	5.4	0.68	2.06		08/11/20 23:02	100-44-7	
Bromodichloromethane	<0.54	ug/m3	2.8	0.54	2.06		08/11/20 23:02	75-27-4	
Bromoform	<2.9	ug/m3	10.8	2.9	2.06		08/11/20 23:02	75-25-2	
Bromomethane	<0.37	ug/m3	1.6	0.37	2.06		08/11/20 23:02	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.93	0.21	2.06		08/11/20 23:02	106-99-0	
2-Butanone (MEK)	6.7	ug/m3	6.2	1.1	2.06		08/11/20 23:02	78-93-3	
Carbon disulfide	10.5	ug/m3	1.3	0.40	2.06		08/11/20 23:02	75-15-0	
Carbon tetrachloride	<0.30	ug/m3	2.6	0.30	2.06		08/11/20 23:02	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.9	0.31	2.06		08/11/20 23:02	108-90-7	
Chloroethane	<0.27	ug/m3	1.1	0.27	2.06		08/11/20 23:02	75-00-3	
Chloroform	<0.40	ug/m3	1.0	0.40	2.06		08/11/20 23:02	67-66-3	
Chloromethane	0.41J	ug/m3	0.87	0.20	2.06		08/11/20 23:02	74-87-3	
Cyclohexane	0.81J	ug/m3	3.6	0.47	2.06		08/11/20 23:02	110-82-7	
Dibromochloromethane	<0.61	ug/m3	3.6	0.61	2.06		08/11/20 23:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.67	ug/m3	1.6	0.67	2.06		08/11/20 23:02	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	2.5	0.77	2.06		08/11/20 23:02	95-50-1	
1,3-Dichlorobenzene	<0.97	ug/m3	2.5	0.97	2.06		08/11/20 23:02	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.3	1.7	2.06		08/11/20 23:02	106-46-7	

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ANALYTICAL RESULTS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Sample: **167SG08** Lab ID: **10527674008** Collected: 08/05/20 16:26 Received: 08/07/20 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2.4	ug/m3	2.1	0.31	2.06		08/11/20 23:02	75-71-8	
1,1-Dichloroethane	<0.26	ug/m3	1.7	0.26	2.06		08/11/20 23:02	75-34-3	
1,2-Dichloroethane	<0.37	ug/m3	0.85	0.37	2.06		08/11/20 23:02	107-06-2	
1,1-Dichloroethene	<0.29	ug/m3	1.7	0.29	2.06		08/11/20 23:02	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.7	0.33	2.06		08/11/20 23:02	156-59-2	
trans-1,2-Dichloroethene	<0.35	ug/m3	1.7	0.35	2.06		08/11/20 23:02	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.9	0.35	2.06		08/11/20 23:02	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.9	0.45	2.06		08/11/20 23:02	10061-01-5	
trans-1,3-Dichloropropene	<0.59	ug/m3	1.9	0.59	2.06		08/11/20 23:02	10061-02-6	
Dichlorotetrafluoroethane	<0.67	ug/m3	2.9	0.67	2.06		08/11/20 23:02	76-14-2	
Ethanol	39.6	ug/m3	4.0	1.9	2.06		08/11/20 23:02	64-17-5	
Ethyl acetate	1.7	ug/m3	1.5	0.35	2.06		08/11/20 23:02	141-78-6	
Ethylbenzene	0.56J	ug/m3	1.8	0.37	2.06		08/11/20 23:02	100-41-4	
4-Ethyltoluene	<0.98	ug/m3	5.2	0.98	2.06		08/11/20 23:02	622-96-8	
n-Heptane	<0.36	ug/m3	1.7	0.36	2.06		08/11/20 23:02	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	11.2	1.6	2.06		08/11/20 23:02	87-68-3	
n-Hexane	2.4	ug/m3	1.5	0.50	2.06		08/11/20 23:02	110-54-3	
2-Hexanone	0.89J	ug/m3	8.6	0.73	2.06		08/11/20 23:02	591-78-6	
Methylene Chloride	27.0	ug/m3	7.3	2.0	2.06		08/11/20 23:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	0.91J	ug/m3	8.6	0.43	2.06		08/11/20 23:02	108-10-1	
Methyl-tert-butyl ether	<0.28	ug/m3	7.5	0.28	2.06		08/11/20 23:02	1634-04-4	
Naphthalene	5.6	ug/m3	5.5	2.6	2.06		08/11/20 23:02	91-20-3	
2-Propanol	3.7J	ug/m3	5.2	1.8	2.06		08/11/20 23:02	67-63-0	
Propylene	<0.20	ug/m3	0.72	0.20	2.06		08/11/20 23:02	115-07-1	
Styrene	1.3J	ug/m3	1.8	0.76	2.06		08/11/20 23:02	100-42-5	
1,1,2,2-Tetrachloroethane	<0.62	ug/m3	1.4	0.62	2.06		08/11/20 23:02	79-34-5	
Tetrachloroethene	8.4	ug/m3	1.4	0.59	2.06		08/11/20 23:02	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	1.2	0.35	2.06		08/11/20 23:02	109-99-9	
Toluene	7.2	ug/m3	1.6	0.34	2.06		08/11/20 23:02	108-88-3	
1,2,4-Trichlorobenzene	<6.8	ug/m3	15.5	6.8	2.06		08/11/20 23:02	120-82-1	
1,1,1-Trichloroethane	0.35J	ug/m3	2.3	0.28	2.06		08/11/20 23:02	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	1.1	0.46	2.06		08/11/20 23:02	79-00-5	
Trichloroethene	2.3	ug/m3	1.1	0.36	2.06		08/11/20 23:02	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	2.3	0.58	2.06		08/11/20 23:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.51	ug/m3	3.2	0.51	2.06		08/11/20 23:02	76-13-1	
1,2,4-Trimethylbenzene	1.1J	ug/m3	2.1	0.84	2.06		08/11/20 23:02	95-63-6	
1,3,5-Trimethylbenzene	<0.62	ug/m3	2.1	0.62	2.06		08/11/20 23:02	108-67-8	
Vinyl acetate	<0.36	ug/m3	1.5	0.36	2.06		08/11/20 23:02	108-05-4	
Vinyl chloride	<0.21	ug/m3	0.54	0.21	2.06		08/11/20 23:02	75-01-4	
m&p-Xylene	2.6J	ug/m3	3.6	0.88	2.06		08/11/20 23:02	179601-23-1	
o-Xylene	1.0J	ug/m3	1.8	0.40	2.06		08/11/20 23:02	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

QC Batch: 691611

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10527674002

METHOD BLANK: 3697737

Matrix: Air

Associated Lab Samples: 10527674002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.067	0.56	0.067	08/09/20 09:26	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	0.15	08/09/20 09:26	
1,1,2-Trichloroethane	ug/m3	<0.11	0.28	0.11	08/09/20 09:26	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.12	0.78	0.12	08/09/20 09:26	
1,1-Dichloroethane	ug/m3	<0.063	0.41	0.063	08/09/20 09:26	
1,1-Dichloroethene	ug/m3	<0.072	0.40	0.072	08/09/20 09:26	
1,2,4-Trichlorobenzene	ug/m3	<1.7	3.8	1.7	08/09/20 09:26	
1,2,4-Trimethylbenzene	ug/m3	<0.20	0.50	0.20	08/09/20 09:26	
1,2-Dibromoethane (EDB)	ug/m3	<0.16	0.39	0.16	08/09/20 09:26	
1,2-Dichlorobenzene	ug/m3	<0.19	0.61	0.19	08/09/20 09:26	
1,2-Dichloroethane	ug/m3	<0.089	0.21	0.089	08/09/20 09:26	
1,2-Dichloropropane	ug/m3	<0.085	0.47	0.085	08/09/20 09:26	
1,3,5-Trimethylbenzene	ug/m3	<0.15	0.50	0.15	08/09/20 09:26	
1,3-Butadiene	ug/m3	<0.050	0.22	0.050	08/09/20 09:26	
1,3-Dichlorobenzene	ug/m3	<0.24	0.61	0.24	08/09/20 09:26	
1,4-Dichlorobenzene	ug/m3	<0.42	1.5	0.42	08/09/20 09:26	
2-Butanone (MEK)	ug/m3	<0.27	1.5	0.27	08/09/20 09:26	
2-Hexanone	ug/m3	<0.18	2.1	0.18	08/09/20 09:26	
2-Propanol	ug/m3	<0.43	1.2	0.43	08/09/20 09:26	
4-Ethyltoluene	ug/m3	<0.24	1.2	0.24	08/09/20 09:26	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.10	2.1	0.10	08/09/20 09:26	
Acetone	ug/m3	<0.88	3.0	0.88	08/09/20 09:26	
Benzene	ug/m3	<0.064	0.16	0.064	08/09/20 09:26	
Benzyl chloride	ug/m3	<0.16	1.3	0.16	08/09/20 09:26	
Bromodichloromethane	ug/m3	<0.13	0.68	0.13	08/09/20 09:26	
Bromoform	ug/m3	<0.70	2.6	0.70	08/09/20 09:26	
Bromomethane	ug/m3	<0.090	0.39	0.090	08/09/20 09:26	
Carbon disulfide	ug/m3	<0.098	0.32	0.098	08/09/20 09:26	
Carbon tetrachloride	ug/m3	<0.074	0.64	0.074	08/09/20 09:26	
Chlorobenzene	ug/m3	<0.076	0.47	0.076	08/09/20 09:26	
Chloroethane	ug/m3	<0.066	0.27	0.066	08/09/20 09:26	
Chloroform	ug/m3	<0.096	0.25	0.096	08/09/20 09:26	
Chloromethane	ug/m3	<0.048	0.21	0.048	08/09/20 09:26	
cis-1,2-Dichloroethene	ug/m3	<0.080	0.40	0.080	08/09/20 09:26	
cis-1,3-Dichloropropene	ug/m3	<0.11	0.46	0.11	08/09/20 09:26	
Cyclohexane	ug/m3	<0.11	0.88	0.11	08/09/20 09:26	
Dibromochloromethane	ug/m3	<0.15	0.86	0.15	08/09/20 09:26	
Dichlorodifluoromethane	ug/m3	<0.075	0.50	0.075	08/09/20 09:26	
Dichlorotetrafluoroethane	ug/m3	<0.16	0.71	0.16	08/09/20 09:26	
Ethanol	ug/m3	<0.47	0.96	0.47	08/09/20 09:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

METHOD BLANK: 3697737

Matrix: Air

Associated Lab Samples: 10527674002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.084	0.37	0.084	08/09/20 09:26	
Ethylbenzene	ug/m3	<0.090	0.44	0.090	08/09/20 09:26	
Hexachloro-1,3-butadiene	ug/m3	<0.40	2.7	0.40	08/09/20 09:26	
m&p-Xylene	ug/m3	<0.21	0.88	0.21	08/09/20 09:26	
Methyl-tert-butyl ether	ug/m3	<0.069	1.8	0.069	08/09/20 09:26	
Methylene Chloride	ug/m3	<0.49	1.8	0.49	08/09/20 09:26	
n-Heptane	ug/m3	<0.086	0.42	0.086	08/09/20 09:26	
n-Hexane	ug/m3	<0.12	0.36	0.12	08/09/20 09:26	
Naphthalene	ug/m3	<0.62	1.3	0.62	08/09/20 09:26	
o-Xylene	ug/m3	<0.097	0.44	0.097	08/09/20 09:26	
Propylene	ug/m3	<0.049	0.18	0.049	08/09/20 09:26	
Styrene	ug/m3	<0.18	0.43	0.18	08/09/20 09:26	
Tetrachloroethene	ug/m3	<0.14	0.34	0.14	08/09/20 09:26	
Tetrahydrofuran	ug/m3	<0.085	0.30	0.085	08/09/20 09:26	
Toluene	ug/m3	<0.083	0.38	0.083	08/09/20 09:26	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	0.084	08/09/20 09:26	
trans-1,3-Dichloropropene	ug/m3	<0.14	0.46	0.14	08/09/20 09:26	
Trichloroethene	ug/m3	<0.088	0.27	0.088	08/09/20 09:26	
Trichlorofluoromethane	ug/m3	<0.14	0.57	0.14	08/09/20 09:26	
Vinyl acetate	ug/m3	<0.088	0.36	0.088	08/09/20 09:26	
Vinyl chloride	ug/m3	<0.050	0.13	0.050	08/09/20 09:26	

LABORATORY CONTROL SAMPLE: 3697738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	66.5	117	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	69.9	97	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	61.6	108	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	93.1	116	70-130	
1,1-Dichloroethane	ug/m3	42.7	47.7	112	70-130	
1,1-Dichloroethene	ug/m3	41.4	51.4	124	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	169	108	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	56.5	110	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	87.4	109	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	62.9	100	70-136	
1,2-Dichloroethane	ug/m3	42.4	49.7	117	70-130	
1,2-Dichloropropane	ug/m3	48.6	52.1	107	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	56.0	109	70-136	
1,3-Butadiene	ug/m3	23.3	25.4	109	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	64.7	102	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	64.6	102	70-145	
2-Butanone (MEK)	ug/m3	31.4	37.2	119	61-130	
2-Hexanone	ug/m3	42.8	50.0	117	70-138	
2-Propanol	ug/m3	119	114	96	70-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

LABORATORY CONTROL SAMPLE: 3697738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	60.6	116	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	47.9	110	70-134	
Acetone	ug/m3	126	121	96	59-137	
Benzene	ug/m3	33.5	36.1	108	70-133	
Benzyl chloride	ug/m3	55.1	60.4	110	70-139	
Bromodichloromethane	ug/m3	71.5	81.4	114	70-130	
Bromoform	ug/m3	110	131	119	60-140	
Bromomethane	ug/m3	41.3	43.6	106	70-131	
Carbon disulfide	ug/m3	33.3	38.3	115	70-130	
Carbon tetrachloride	ug/m3	66.2	78.7	119	70-133	
Chlorobenzene	ug/m3	48.3	49.5	102	70-131	
Chloroethane	ug/m3	28.1	30.6	109	70-141	
Chloroform	ug/m3	51.1	58.0	114	70-130	
Chloromethane	ug/m3	21.9	22.0	100	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	48.0	115	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	55.0	115	70-138	
Cyclohexane	ug/m3	36.7	42.0	114	70-133	
Dibromochloromethane	ug/m3	90.7	105	116	70-139	
Dichlorodifluoromethane	ug/m3	51.6	60.1	117	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	79.4	109	65-133	
Ethanol	ug/m3	103	95.1	93	65-135	
Ethyl acetate	ug/m3	38.6	42.6	111	70-135	
Ethylbenzene	ug/m3	45.6	49.6	109	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	144	129	70-134	
m&p-Xylene	ug/m3	91.2	102	112	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	44.6	116	70-131	
Methylene Chloride	ug/m3	182	194	107	69-130	
n-Heptane	ug/m3	43.6	47.6	109	70-130	
n-Hexane	ug/m3	37.6	41.1	109	70-131	
Naphthalene	ug/m3	57.7	52.5	91	63-130	
o-Xylene	ug/m3	45.5	49.4	109	70-135	
Propylene	ug/m3	18.2	20.2	111	63-139	
Styrene	ug/m3	44.9	52.9	118	70-143	
Tetrachloroethene	ug/m3	71	74.5	105	70-136	
Tetrahydrofuran	ug/m3	31.5	34.7	110	70-137	
Toluene	ug/m3	39.5	43.5	110	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	46.1	109	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	57.0	120	70-139	
Trichloroethene	ug/m3	56.3	60.8	108	70-132	
Trichlorofluoromethane	ug/m3	59.7	65.7	110	65-136	
Vinyl acetate	ug/m3	34.5	40.7	118	66-140	
Vinyl chloride	ug/m3	26.7	28.9	108	68-141	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3698408

Parameter	Units	10527686001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.21	<0.21		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.47	<0.47		25	
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.61J	<0.39		25	
1,1-Dichloroethane	ug/m3	<0.20	<0.20		25	
1,1-Dichloroethene	ug/m3	<0.22	<0.22		25	
1,2,4-Trichlorobenzene	ug/m3	<5.1	<5.1		25	
1,2,4-Trimethylbenzene	ug/m3	0.81J	0.90J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.50	<0.50		25	
1,2-Dichlorobenzene	ug/m3	<0.58	<0.58		25	
1,2-Dichloroethane	ug/m3	<0.28	<0.28		25	
1,2-Dichloropropane	ug/m3	<0.26	<0.26		25	
1,3,5-Trimethylbenzene	ug/m3	<0.46	<0.46		25	
1,3-Butadiene	ug/m3	<0.15	<0.15		25	
1,3-Dichlorobenzene	ug/m3	<0.73	<0.73		25	
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
2-Butanone (MEK)	ug/m3	5.2	5.1	1	25	
2-Hexanone	ug/m3	<0.55	<0.55		25	
2-Propanol	ug/m3	64.4	63.7	1	25	
4-Ethyltoluene	ug/m3	<0.74	<0.74		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.33	<0.33		25	
Acetone	ug/m3	21.4	20.4	5	25	
Benzene	ug/m3	0.54	0.52	5	25	
Benzyl chloride	ug/m3	<0.51	<0.51		25	
Bromodichloromethane	ug/m3	<0.41	<0.41		25	
Bromoform	ug/m3	<2.2	<2.2		25	
Bromomethane	ug/m3	<0.28	<0.28		25	
Carbon disulfide	ug/m3	<0.30	<0.30		25	
Carbon tetrachloride	ug/m3	0.49J	0.42J		25	
Chlorobenzene	ug/m3	<0.24	<0.24		25	
Chloroethane	ug/m3	<0.20	<0.20		25	
Chloroform	ug/m3	<0.30	<0.30		25	
Chloromethane	ug/m3	0.95	1.2	22	25	
cis-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
cis-1,3-Dichloropropene	ug/m3	<0.34	<0.34		25	
Cyclohexane	ug/m3	<0.35	<0.35		25	
Dibromochloromethane	ug/m3	<0.46	<0.46		25	
Dichlorodifluoromethane	ug/m3	3.0	3.1	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.51	<0.51		25	
Ethanol	ug/m3	1380	1440	4	25	E
Ethyl acetate	ug/m3	<0.26	<0.26		25	
Ethylbenzene	ug/m3	0.36J	0.39J		25	
Hexachloro-1,3-butadiene	ug/m3	<1.2	<1.2		25	
m&p-Xylene	ug/m3	1.3J	1.3J		25	
Methyl-tert-butyl ether	ug/m3	<0.21	<0.21		25	
Methylene Chloride	ug/m3	2.8J	2.7J		25	
n-Heptane	ug/m3	<0.27	<0.27		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3698408

Parameter	Units	10527686001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.1	1.1J		25	
Naphthalene	ug/m3	<1.9	<1.9		25	
o-Xylene	ug/m3	0.52J	0.52J		25	
Propylene	ug/m3	<0.15	<0.15		25	
Styrene	ug/m3	<0.57	<0.57		25	
Tetrachloroethene	ug/m3	1.1J	1.2		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
Toluene	ug/m3	2.4	2.4	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.26	<0.26		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	<0.27	<0.27		25	
Trichlorofluoromethane	ug/m3	1.6J	1.5J		25	
Vinyl acetate	ug/m3	<0.27	<0.27		25	
Vinyl chloride	ug/m3	<0.16	<0.16		25	

SAMPLE DUPLICATE: 3698409

Parameter	Units	10527547017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.21		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.47		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.51J		25	
1,1-Dichloroethane	ug/m3	ND	<0.20		25	
1,1-Dichloroethene	ug/m3	ND	<0.22		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.1		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.50		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.58		25	
1,2-Dichloroethane	ug/m3	ND	<0.28		25	
1,2-Dichloropropane	ug/m3	ND	<0.26		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.46		25	
1,3-Butadiene	ug/m3	ND	<0.15		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.73		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.3		25	
2-Butanone (MEK)	ug/m3	ND	<0.83		25	
2-Hexanone	ug/m3	ND	<0.55		25	
2-Propanol	ug/m3	ND	<1.3		25	
4-Ethyltoluene	ug/m3	ND	<0.74		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.33		25	
Acetone	ug/m3	ND	5.7J		25	
Benzene	ug/m3	ND	<0.20		25	
Benzyl chloride	ug/m3	ND	<0.51		25	
Bromodichloromethane	ug/m3	ND	<0.41		25	
Bromoform	ug/m3	ND	<2.2		25	
Bromomethane	ug/m3	ND	<0.28		25	

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3698409

Parameter	Units	10527547017 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.30		25	
Carbon tetrachloride	ug/m3	ND	0.49J		25	
Chlorobenzene	ug/m3	ND	<0.24		25	
Chloroethane	ug/m3	ND	<0.20		25	
Chloroform	ug/m3	ND	<0.30		25	
Chloromethane	ug/m3	0.79	0.80	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.25		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.34		25	
Cyclohexane	ug/m3	ND	<0.35		25	
Dibromochloromethane	ug/m3	ND	<0.46		25	
Dichlorodifluoromethane	ug/m3	3.0	3.0	0	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.51		25	
Ethanol	ug/m3	4.3	3.5	22	25	
Ethyl acetate	ug/m3	ND	<0.26		25	
Ethylbenzene	ug/m3	ND	<0.28		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.2		25	
m&p-Xylene	ug/m3	ND	<0.66		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.21		25	
Methylene Chloride	ug/m3	ND	4.0J		25	
n-Heptane	ug/m3	ND	<0.27		25	
n-Hexane	ug/m3	ND	0.40J		25	
Naphthalene	ug/m3	ND	<1.9		25	
o-Xylene	ug/m3	ND	<0.30		25	
Propylene	ug/m3	ND	<0.15		25	
Styrene	ug/m3	ND	<0.57		25	
Tetrachloroethene	ug/m3	ND	<0.44		25	
Tetrahydrofuran	ug/m3	ND	<0.26		25	
Toluene	ug/m3	ND	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.26		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Trichloroethene	ug/m3	ND	<0.27		25	
Trichlorofluoromethane	ug/m3	ND	1.5J		25	
Vinyl acetate	ug/m3	ND	<0.27		25	
Vinyl chloride	ug/m3	ND	<0.16		25	

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

QC Batch: 691915

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10527674001, 10527674003, 10527674004, 10527674005, 10527674006, 10527674007, 10527674008

METHOD BLANK: 3698778

Matrix: Air

Associated Lab Samples: 10527674001, 10527674003, 10527674004, 10527674005, 10527674006, 10527674007, 10527674008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.13	1.1	0.13	08/11/20 14:15	
1,1,2,2-Tetrachloroethane	ug/m3	<0.30	0.70	0.30	08/11/20 14:15	
1,1,2-Trichloroethane	ug/m3	<0.22	0.56	0.22	08/11/20 14:15	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.25	1.6	0.25	08/11/20 14:15	
1,1-Dichloroethane	ug/m3	<0.13	0.82	0.13	08/11/20 14:15	
1,1-Dichloroethene	ug/m3	<0.14	0.81	0.14	08/11/20 14:15	
1,2,4-Trichlorobenzene	ug/m3	<3.3	7.5	3.3	08/11/20 14:15	
1,2,4-Trimethylbenzene	ug/m3	<0.41	1.0	0.41	08/11/20 14:15	
1,2-Dibromoethane (EDB)	ug/m3	<0.32	0.78	0.32	08/11/20 14:15	
1,2-Dichlorobenzene	ug/m3	<0.38	1.2	0.38	08/11/20 14:15	
1,2-Dichloroethane	ug/m3	<0.18	0.41	0.18	08/11/20 14:15	
1,2-Dichloropropane	ug/m3	<0.17	0.94	0.17	08/11/20 14:15	
1,3,5-Trimethylbenzene	ug/m3	<0.30	1.0	0.30	08/11/20 14:15	
1,3-Butadiene	ug/m3	<0.10	0.45	0.10	08/11/20 14:15	
1,3-Dichlorobenzene	ug/m3	<0.47	1.2	0.47	08/11/20 14:15	
1,4-Dichlorobenzene	ug/m3	<0.84	3.1	0.84	08/11/20 14:15	
2-Butanone (MEK)	ug/m3	<0.54	3.0	0.54	08/11/20 14:15	
2-Hexanone	ug/m3	<0.36	4.2	0.36	08/11/20 14:15	
2-Propanol	ug/m3	<0.85	2.5	0.85	08/11/20 14:15	
4-Ethyltoluene	ug/m3	<0.48	2.5	0.48	08/11/20 14:15	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.21	4.2	0.21	08/11/20 14:15	
Acetone	ug/m3	<1.8	6.0	1.8	08/11/20 14:15	
Benzene	ug/m3	<0.13	0.32	0.13	08/11/20 14:15	
Benzyl chloride	ug/m3	<0.33	2.6	0.33	08/11/20 14:15	
Bromodichloromethane	ug/m3	<0.26	1.4	0.26	08/11/20 14:15	
Bromoform	ug/m3	<1.4	5.2	1.4	08/11/20 14:15	
Bromomethane	ug/m3	<0.18	0.79	0.18	08/11/20 14:15	
Carbon disulfide	ug/m3	<0.20	0.63	0.20	08/11/20 14:15	
Carbon tetrachloride	ug/m3	<0.15	1.3	0.15	08/11/20 14:15	
Chlorobenzene	ug/m3	<0.15	0.94	0.15	08/11/20 14:15	
Chloroethane	ug/m3	<0.13	0.54	0.13	08/11/20 14:15	
Chloroform	ug/m3	<0.19	0.50	0.19	08/11/20 14:15	
Chloromethane	ug/m3	<0.096	0.42	0.096	08/11/20 14:15	
cis-1,2-Dichloroethene	ug/m3	<0.16	0.81	0.16	08/11/20 14:15	
cis-1,3-Dichloropropene	ug/m3	<0.22	0.92	0.22	08/11/20 14:15	
Cyclohexane	ug/m3	<0.23	1.8	0.23	08/11/20 14:15	
Dibromochloromethane	ug/m3	<0.30	1.7	0.30	08/11/20 14:15	
Dichlorodifluoromethane	ug/m3	0.18J	1.0	0.15	08/11/20 14:15	
Dichlorotetrafluoroethane	ug/m3	<0.33	1.4	0.33	08/11/20 14:15	
Ethanol	ug/m3	<0.94	1.9	0.94	08/11/20 14:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

METHOD BLANK: 3698778

Matrix: Air

Associated Lab Samples: 10527674001, 10527674003, 10527674004, 10527674005, 10527674006, 10527674007, 10527674008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.17	0.73	0.17	08/11/20 14:15	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	08/11/20 14:15	
Hexachloro-1,3-butadiene	ug/m3	<0.80	5.4	0.80	08/11/20 14:15	
m&p-Xylene	ug/m3	<0.43	1.8	0.43	08/11/20 14:15	
Methyl-tert-butyl ether	ug/m3	<0.14	3.7	0.14	08/11/20 14:15	
Methylene Chloride	ug/m3	<0.99	3.5	0.99	08/11/20 14:15	
n-Heptane	ug/m3	<0.17	0.83	0.17	08/11/20 14:15	
n-Hexane	ug/m3	<0.24	0.72	0.24	08/11/20 14:15	
Naphthalene	ug/m3	<1.2	2.7	1.2	08/11/20 14:15	
o-Xylene	ug/m3	<0.19	0.88	0.19	08/11/20 14:15	
Propylene	ug/m3	<0.098	0.35	0.098	08/11/20 14:15	
Styrene	ug/m3	<0.37	0.87	0.37	08/11/20 14:15	
Tetrachloroethene	ug/m3	<0.29	0.69	0.29	08/11/20 14:15	
Tetrahydrofuran	ug/m3	<0.17	0.60	0.17	08/11/20 14:15	
Toluene	ug/m3	<0.17	0.77	0.17	08/11/20 14:15	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	0.17	08/11/20 14:15	
trans-1,3-Dichloropropene	ug/m3	<0.28	0.92	0.28	08/11/20 14:15	
Trichloroethene	ug/m3	<0.18	0.55	0.18	08/11/20 14:15	
Trichlorofluoromethane	ug/m3	<0.28	1.1	0.28	08/11/20 14:15	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	08/11/20 14:15	
Vinyl chloride	ug/m3	<0.10	0.26	0.10	08/11/20 14:15	

LABORATORY CONTROL SAMPLE: 3698779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.7	57.7	102	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	73.4	66.8	91	70-132	
1,1,2-Trichloroethane	ug/m3	57.4	56.7	99	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.1	84.6	104	70-130	
1,1-Dichloroethane	ug/m3	43	41.7	97	70-130	
1,1-Dichloroethene	ug/m3	43.2	41.1	95	69-137	
1,2,4-Trichlorobenzene	ug/m3	81.1	80.9	100	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.3	57.9	111	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.1	81.0	99	70-138	
1,2-Dichlorobenzene	ug/m3	63.2	63.4	100	70-136	
1,2-Dichloroethane	ug/m3	42.8	42.6	100	70-130	
1,2-Dichloropropane	ug/m3	48.8	48.1	99	70-132	
1,3,5-Trimethylbenzene	ug/m3	53	56.7	107	70-136	
1,3-Butadiene	ug/m3	24.6	25.7	104	67-139	
1,3-Dichlorobenzene	ug/m3	60.3	64.8	107	70-138	
1,4-Dichlorobenzene	ug/m3	66	66.2	100	70-145	
2-Butanone (MEK)	ug/m3	30	31.6	105	61-130	
2-Hexanone	ug/m3	37.6	47.1	125	70-138	
2-Propanol	ug/m3	27.5	23.6	86	70-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace
Pace Project No.: 10527674

LABORATORY CONTROL SAMPLE: 3698779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.7	59.0	112	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	42.1	46.2	110	70-134	
Acetone	ug/m3	26.2	21.7	83	59-137	
Benzene	ug/m3	34.4	32.6	95	70-133	
Benzyl chloride	ug/m3	52.4	51.5	98	70-139	
Bromodichloromethane	ug/m3	69.1	70.4	102	70-130	
Bromoform	ug/m3	108	124	115	60-140	
Bromomethane	ug/m3	41	40.8	100	70-131	
Carbon disulfide	ug/m3	34.3	32.7	95	70-130	
Carbon tetrachloride	ug/m3	65.5	68.2	104	70-133	
Chlorobenzene	ug/m3	49.5	45.3	91	70-131	
Chloroethane	ug/m3	28	31.1	111	70-141	
Chloroform	ug/m3	50	49.8	100	70-130	
Chloromethane	ug/m3	22.1	22.4	101	64-137	
cis-1,2-Dichloroethene	ug/m3	41.8	43.4	104	70-132	
cis-1,3-Dichloropropene	ug/m3	46	54.6	119	70-138	
Cyclohexane	ug/m3	36.4	37.2	102	70-133	
Dibromochloromethane	ug/m3	88.7	90.7	102	70-139	
Dichlorodifluoromethane	ug/m3	54.9	50.3	92	70-130	
Dichlorotetrafluoroethane	ug/m3	77.9	73.5	94	65-133	
Ethanol	ug/m3	21.1	18.7	89	65-135	
Ethyl acetate	ug/m3	37.7	38.8	103	70-135	
Ethylbenzene	ug/m3	46.3	47.4	102	70-142	
Hexachloro-1,3-butadiene	ug/m3	116	111	95	70-134	
m&p-Xylene	ug/m3	46	48.1	105	70-141	
Methyl-tert-butyl ether	ug/m3	34.9	38.5	111	70-131	
Methylene Chloride	ug/m3	38.8	38.7	100	69-130	
n-Heptane	ug/m3	42.8	42.7	100	70-130	
n-Hexane	ug/m3	36.8	37.0	101	70-131	
Naphthalene	ug/m3	58.3	58.1	100	63-130	
o-Xylene	ug/m3	46.5	46.3	100	70-135	
Propylene	ug/m3	18.3	18.0	98	63-139	
Styrene	ug/m3	45.2	50.5	112	70-143	
Tetrachloroethene	ug/m3	74.9	69.4	93	70-136	
Tetrahydrofuran	ug/m3	29.8	31.7	106	70-137	
Toluene	ug/m3	40.4	40.1	99	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	41.4	99	70-132	
trans-1,3-Dichloropropene	ug/m3	43.4	53.0	122	70-139	
Trichloroethene	ug/m3	56.7	56.6	100	70-132	
Trichlorofluoromethane	ug/m3	59.6	56.6	95	65-136	
Vinyl acetate	ug/m3	32.5	37.4	115	66-140	
Vinyl chloride	ug/m3	28.5	27.5	96	68-141	

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3699944

Parameter	Units	10527675006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.20		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.45		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.44J		25	
1,1-Dichloroethane	ug/m3	ND	<0.19		25	
1,1-Dichloroethene	ug/m3	ND	<0.21		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<4.9		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.60		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.48		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.56		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.25		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.45		25	
1,3-Butadiene	ug/m3	ND	<0.15		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.70		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.3		25	
2-Butanone (MEK)	ug/m3	ND	0.96J		25	
2-Hexanone	ug/m3	ND	<0.53		25	
2-Propanol	ug/m3	6.2	6.2	1	25	
4-Ethyltoluene	ug/m3	ND	<0.71		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.31		25	
Acetone	ug/m3	ND	7.9J		25	
Benzene	ug/m3	ND	0.27J		25	
Benzyl chloride	ug/m3	ND	<0.49		25	
Bromodichloromethane	ug/m3	ND	<0.39		25	
Bromoform	ug/m3	ND	<2.1		25	
Bromomethane	ug/m3	ND	<0.27		25	
Carbon disulfide	ug/m3	ND	<0.29		25	
Carbon tetrachloride	ug/m3	ND	0.30J		25	
Chlorobenzene	ug/m3	ND	<0.23		25	
Chloroethane	ug/m3	ND	<0.20		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	0.74	0.78	5	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.24		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.33		25	
Cyclohexane	ug/m3	ND	<0.34		25	
Dibromochloromethane	ug/m3	ND	<0.44		25	
Dichlorodifluoromethane	ug/m3	2.2	2.3	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.49		25	
Ethanol	ug/m3	5.3	5.6	4	25	
Ethyl acetate	ug/m3	ND	<0.25		25	
Ethylbenzene	ug/m3	ND	<0.27		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.2		25	
m&p-Xylene	ug/m3	ND	<0.63		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.21		25	
Methylene Chloride	ug/m3	ND	4.3J		25	
n-Heptane	ug/m3	ND	<0.26		25	

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3699944

Parameter	Units	10527675006 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	1.1J		25	
Naphthalene	ug/m3	ND	<1.8		25	
o-Xylene	ug/m3	ND	<0.29		25	
Propylene	ug/m3	ND	<0.15		25	
Styrene	ug/m3	ND	<0.55		25	
Tetrachloroethene	ug/m3	ND	<0.43		25	
Tetrahydrofuran	ug/m3	ND	<0.25		25	
Toluene	ug/m3	1.6	1.6	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.25		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.26		25	
Trichlorofluoromethane	ug/m3	ND	1.1J		25	
Vinyl acetate	ug/m3	ND	<0.26		25	
Vinyl chloride	ug/m3	ND	<0.15		25	

SAMPLE DUPLICATE: 3699945

Parameter	Units	10527675005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.18		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.40		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.30		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.43J		25	
1,1-Dichloroethane	ug/m3	ND	<0.17		25	
1,1-Dichloroethene	ug/m3	ND	<0.19		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<4.4		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.58J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.44		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.50		25	
1,2-Dichloroethane	ug/m3	ND	<0.24		25	
1,2-Dichloropropane	ug/m3	ND	<0.23		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.40		25	
1,3-Butadiene	ug/m3	ND	<0.13		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.63		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.1		25	
2-Butanone (MEK)	ug/m3	10.1	9.8	3	25	
2-Hexanone	ug/m3	ND	2.6J		25	
2-Propanol	ug/m3	8.8	8.0	10	25	
4-Ethyltoluene	ug/m3	ND	<0.64		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	1.4J		25	
Acetone	ug/m3	37.6	34.8	8	25	
Benzene	ug/m3	ND	0.37J		25	
Benzyl chloride	ug/m3	ND	<0.44		25	
Bromodichloromethane	ug/m3	ND	<0.35		25	
Bromoform	ug/m3	ND	<1.9		25	
Bromomethane	ug/m3	ND	<0.24		25	

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QUALITY CONTROL DATA

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

SAMPLE DUPLICATE: 3699945

Parameter	Units	10527675005 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	0.56J		25	
Carbon tetrachloride	ug/m3	ND	0.40J		25	
Chlorobenzene	ug/m3	ND	<0.20		25	
Chloroethane	ug/m3	ND	<0.18		25	
Chloroform	ug/m3	0.84	0.82	2	25	
Chloromethane	ug/m3	1.1	1.0	10	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.22		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.29		25	
Cyclohexane	ug/m3	ND	0.93J		25	
Dibromochloromethane	ug/m3	ND	<0.40		25	
Dichlorodifluoromethane	ug/m3	2.3	2.2	6	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.44		25	
Ethanol	ug/m3	187	165	12	25	
Ethyl acetate	ug/m3	4.5	4.6	3	25	
Ethylbenzene	ug/m3	2.5	2.4	1	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.1		25	
m&p-Xylene	ug/m3	11.9	11.9	0	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.18		25	
Methylene Chloride	ug/m3	39.0	37.8	3	25	
n-Heptane	ug/m3	3.9	4.0	2	25	
n-Hexane	ug/m3	4.5	4.5	1	25	
Naphthalene	ug/m3	ND	<1.7		25	
o-Xylene	ug/m3	4.4	4.4	0	25	
Propylene	ug/m3	ND	<0.13		25	
Styrene	ug/m3	ND	0.86J		25	
Tetrachloroethene	ug/m3	ND	<0.38		25	
Tetrahydrofuran	ug/m3	3.9	3.7	4	25	
Toluene	ug/m3	9.8	9.9	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.23		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.38		25	
Trichloroethene	ug/m3	ND	<0.24		25	
Trichlorofluoromethane	ug/m3	ND	1.2J		25	
Vinyl acetate	ug/m3	ND	<0.24		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Wayne's Pinball Palace

Pace Project No.: 10527674

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10527674001	167SG01	TO-15	691915		
10527674002	167SG02	TO-15	691611		
10527674003	167SG03	TO-15	691915		
10527674004	167SG04	TO-15	691915		
10527674005	167SG05	TO-15	691915		
10527674006	167SG06	TO-15	691915		
10527674007	167SG07	TO-15	691915		
10527674008	167SG08	TO-15	691915		

REPORT OF LABORATORY ANALYSIS

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SUMMA CANISTER CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. CLK 080620

Page 1 of 1

Project Name: Former Wayne's Pinball Palace

Project No. 0888826703 Phase

Site Location: 167 Chelsea Ave + 705 N Third St

Send Results To: Allison Harris + Tina Cantwell

Sampler/Site Phone# Chelsea Ripper 270-287-1703

Lab Name: PACE - MN

Turnaround Time (specify): Standard

Lab ID	Sample ID (sys_sample_code)	Location ID (sys_loc_code)	Matrix Code (1)	Canister Number	Flow Controller Number	Start Date (mm/dd/yy)	Start Time (hhmm)	End Date (mm/dd/yy)	End Time (hhmm)	Canister Size (Liters)	Field Initial Pressure (in Hg)	Field Final Pressure (in Hg)	Analysis Requested
	1675601	5601	GS	1303	2291	08/05/00	1416	08/05/00	1421	1	30	4	10-15
	1675602	5602	GS	1141	2558	08/05/00	1443	08/05/00	1448	1	30	4	002
	1675603	5603	GS	2958	2303	08/05/00	1454	08/05/00	1459	1	30	3	003
	1675604	5604	GS	3258	2451	08/05/00	1510	08/05/00	1515	1	30	4	004
	1675605	5605	GS	2968	2285	08/05/00	1532	08/05/00	1538	1	29	4	005
	1675606	5606	GS	1018	2372	08/05/00	1545	08/05/00	1551	1	28	4	006
	1675607	5607	GS	2411	2443	08/05/00	1602	08/05/00	1608	1	29	4	007
	1675608	5608	GS	3958	2411	08/05/00	1621	08/05/00	1626	1	28	4	008

WO#: 10527674



Field Comments:

Lab Comments:

Sample Shipment Details

Unless otherwise specified, all results must be reported in µg/m3

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
Chelsea Ripper	08/06/00	1230	1. [Signature]		
			2. [Signature]	08/06/00	900
			3.		

Number of packages: 1

Method of Shipment: FedEx

Date Shipped: 08/06/2000



Document Name: Sample Condition Upon Receipt (SCUR) - Air

Document Revised: 24Mar2020

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Document No.: ENV-FRM-MIN4-0113 Rev.00

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Ensafe

Project #:

WO#: 10527674

PM: CT1

Due Date: 08/14/20

CLIENT: EnSafe

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Pace [X] Speedee [] Commercial See Exception

Tracking Number: 1875 2987 8438

Custody Seal on Cooler/Box Present? [X] Yes [] No Seals Intact? [X] Yes [] No

Packing Material: [] Bubble Wrap [] Bubble Bags [] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermometer Used: [] G87A9170600254 [] G87A9155100842

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: 8720 M

Type of ice Received [] Blue [] Wet [X] None ① 8720 M

Comments:

Table with 13 rows of custody and sampling questions, including Chain of Custody Present, Samples Arrived within Hold Time, and Media type (Air Can, Airbag, Filter, TDT, Passive).

Gauge # [X] 10AIR26 [] 10AIR34 [] 10AIR35 [] 4097

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure, Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples SG01 through SG08.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carolyn Hunt

Date: 8/11/20