



December 2, 2016

Haig's Delicacies
25673 Nickel Street
Hayward, CA 94545

Attn: Mr. Steve Cherezian

Subject: Groundwater, Soil & Soil Vapor Sampling Results

25673 Nickel Place
Hayward, CA

Dear Mr. Cherezian:

Applied Water Resources, Corp. (AWR) has completed the multi medium sampling as noted above. AWR was requested to complete the sampling on behalf of Haig's Delicacies, the current property owner and occupant.

The property is in a light industrial area within the City of Hayward, California. The site is a light industrial office/warehouse property currently occupied by Haig's Delicacies, which produces Hummus and other similar types of dips and spreads.

SITE INVESTIGATION

Applied Water Resources, Corp. (AWR) was contracted to complete a Phase II investigation at the above captioned site. The Phase II investigation was recommended by ADR Environmental Group, Inc. in their Phase I ESA dated September 20, 2016. The need for the Phase II investigation is based on the fact that volatile organic compounds (VOCs) had been historically stored outside the building and used inside the building by a former tenant. Based on this condition, ADR recommended that a Phase II investigation be performed. AWR proposed to advance two shallow sample borings within the former Haz Mat Storage area identified in the Phase I report and in the rear portion of the site outside of where the former paint booth area.

The scope of work consisted of the following tasks:

- Task 1 - Utility Location, Permitting, and Health and Safety Plan
- Task 2 – Field Investigation of Soil, Ground Water, and Soil Vapor Quality

Task 1 - Utility Location, Permitting, and Health and Safety Plan

As described below, investigation activities included drilling and collecting soil, ground water, and soil vapor samples at the Site. Subsurface investigation permits have been obtained from Alameda County.

Underground Services Alert (USA) was notified and the boring locations were cleared for underground utilities. The final drilling locations were selected based upon access limitations (i.e., site features, utilities).

As required by the Occupational Health and Safety Administration (OSHA) 29 CFR 1910.120, Hazardous Waste Operations and Emergency Responses, a site Health and Safety Plan (HSP) was prepared for use while conducting proposed field sampling activities.

Task 2 - Field Investigation of Soil, Ground Water, and Soil Vapor Quality

AWR completed the following site assessment at the project site. AWR advanced three borings and one temporary soil gas points across the site in order to identify the presence or absence of petroleum hydrocarbons or solvents in the soil, groundwater and soil vapors within the property. The field investigation included the installation of three soil boring sample points (SB-1 through SB-3) and one soil vapor sample point adjacent to SB-1 (called SV-1). Sample locations are shown on the attached figure.

The drilling was performed using direct push methods advancing dual tube casing to allow for discrete ground water sample collection. All direct push work was performed by a licensed C-57 drilling contractor. Soil samples were collected continuously to a depth of 4 to 12 feet bgs for SB-1 and SB-2 and 4 feet for SB-3. SV-1 was advanced to 5 feet, and temporary built up with a vapor intake at 4.5 feet, sand from 4-5 feet, and hydrated bentonite from 1-4 feet deep.

Soil samples were collected at depths of two and four feet from the three borings. All two and four foot samples were analyzed for petroleum hydrocarbons and VOCs. Groundwater was encountered at a depth of approximately 8 feet below the surface in SB-1 and SB-2 and grab groundwater samples were collected from two of the soil borings.

Soil Sampling and Analysis

Soil samples were collected to characterize both residual concentrations posing a risk and residual mass of contaminant that might require removal.

Soil samples were collected using geoprobe acetate liners that were cut into approximalty 6" sample and immediately capped with Teflon sheets and new endcaps and analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015 and the complete list of volatile organic compounds (VOCs) by EPA Method 8260, TPH as diesel (TPHd) and TPH as motor oil (TPHmo) by EPA Method 8015. The test results for the soil can be found in Table 1.

Table 1 – Soil Sample Analysis Results

Sample Location and Depth	Date Sampled	TPH Gasoline C7-C12	TPH Diesel C10-C23	TPH Motor Oil C18-C36	VOCs
SB-1 @ 2'	11/10/16	ND	ND	7.9 mg/kg	All were ND
SB-1 @ 4'	11/10/16	ND	ND	7.4 mg/kg	All were ND
SB-2 @ 2'	11/10/16	ND	ND	6.9 mg/kg	All were ND
SB-2 @ 4'	11/10/16	ND	ND	ND	All were ND
SB-3 @ 2'	11/10/16	ND	1.7 mg/kg	30 mg/kg	All were ND
SB-3 @ 4'	11/10/16	ND	ND	ND	All were ND
ESL		100 mg/kg	100 mg/kg	5100 mg/kg	various

NOTES:

1. ND is not detected - the compound was not present in concentrations exceeding the laboratory reporting limit.
2. These samples were run for the entire 8260 Volatile Organic Compounds list - only compounds detected in one or more samples are listed in the table. Please see the laboratory analysis report for a full list of analytes and respective reporting limits.
3. ESL is the Environmental Screening Level for unrestricted properties developed by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and published in February 2016 - Summary Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3m bgs), Groundwater is Current or Potential Source of Drinking Water

Grab Ground Water Sampling and Analysis

Grab ground water samples were collected from SB-1 and SB-2. The water samples collected from these borings were analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015 and VOCs by EPA Method 8260. The analysis results are summarized in Table 2 below.

Table 2 – Groundwater Sample Analysis Results

Analyte	SB-1 GW	SB-2 GW	ESL
Acetone	11	ND	1,500 ug/L
cis-1,2-Dichloroethene	ND	14	6 ug/L
Methyl-t-butyl ether (MTBE)	ND	2.9	5 ug/L
Trichloroethene	ND	64	5 ug/L and 49 ug/L (see note 4)
TPH-gasoline (C6-C12)	ND	ND	220 ug/L
TPH-Diesel (C10-C23)	100 ug/L	150 ug/L	150 ug/L
TPH-Motor Oil (C18-C36)	1400 ug/L	3100 mg/L	5000 ug/L

NOTES:

1. ND is not detected - the compound was not present in concentrations exceeding the laboratory reporting limit.
2. These samples were run for the entire 8260 Volatile Organic Compounds list - only compounds detected in one or more samples are listed in the table. Please see the laboratory analysis report for a full list of analytes and respective reporting limits.
3. ESL is the Environmental Screening Level developed by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and published in February 2016 for commercial/industrial groundwater for non-drinking water.
4. The unrestricted ESL for Trichloroethene in water is 5.0 ug/L but is derived based on potential to impact drinking water. The shallow water at the site will not be used for drinking water. The ESL for commercial/industrial properties when impacts to drinking water are not considered is currently 49ug/L and is derived based on the potential for vapor intrusion.

Soil Vapor Sampling and Analysis

The soil vapor sample was collected in accordance with AWR's Standard Operating Procedures (SOP). The soil boring was advanced to 5 feet, built with sand from 4-5 foot deep with a filter and sample port near the center of the sand layer, and then sealed with hydrated bentonite chips. The soil vapor sample was collected in a 1-liter suma canister using a helium shroud for leak detection. The soil vapor sample was analyzed for all volatile organic compounds including naphthalene by EPA Method TO-15. The soil vapor test results can be found in Table 3.

Table 3 – Soil Vapor Sample Analysis Results

	SV-1 - 5' 11/10/16	ESL
Benzene	2.5 ug/m3	420 ug/m3
Carbon Disulfide	2.0 ug/m3	No ESL developed
Dichlorodifluoromethane	2.6 ug/m3	No ESL developed
Ethylbenzene	2.4 ug/m3	4,900 ug/m3
2-Hexanone (methyl butyl ketone, MBK)	11 ug/m3	No ESL developed
4-Methyl-2-pentanone (MIBK)	2.4 ug/m3	420,000 ug/m3
Toluene	4.7 ug/m3	1,300,000 ug/m3
Trichloroethene (TCE)	3.1 ug/m3	3000 ug/m3
1,2,4-Trimethylbenzene	4.6 ug/m3	No ESL developed
Xylenes, Total	13 ug/m3	440,000 ug/m3

NOTES:

1. These samples were run for the entire TO-15 Volatile Organic Compounds list - only compounds detected in one or more samples are listed in the table. Please see the laboratory analysis report for a full list of analytes and respective reporting limits.
2. ESL is the Environmental Screening Level for subslab/soil gas developed by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and published in February 2016 for commercial/industrial properties.

Boring Sealing

Upon completion of all sampling and data collection activities, the borings were tremie grouted to ground surface with neat cement under the supervision of an Alameda County inspector. Prior to sealing, the temporary hydrated bentonite seal was removed from the soil vapor sample location. The top of each boring was finished similar to surrounding materials.

Sample Preservation and Transport

All samples for laboratory analysis were collected into containers supplied by the laboratory. Following collection, all samples were appropriately labeled with the sample ID, date and time of collection, and sampler's initials. The samples were placed on ice within an ice chest and transported to the laboratory under standard chain-of-custody procedures.

Waste Disposal

All soil cuttings and other investigation derived waste were placed in drums, labeled, and tested for appropriate disposal.

CONCLUSIONS

As indicated in Table 2 the ESL value for TCE is 5 ug/l for groundwater protection and 49 ug/l for evaluating the potential for soil vapor intrusion. This shallow groundwater at the site is not considered drinking water. The groundwater sample collected at SB-1 was non-detect for TCE indicating that TCE in groundwater is not pervasive throughout the site. In addition the soil vapor result for TCE is multiple orders of magnitude below its ESL value, indicating that the detected TCE in groundwater is not a threat to adversely impact indoor air quality. Based on the comparison presented above, it is our opinion that the detected TCE is not a threat to drinking water or indoor air quality. Therefore, no additional investigation is recommended.

Should you have any questions or require supplemental data, please feel free to contact us at your convenience.

Very truly yours,
APPLIED WATER RESOURCES, CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

Enclosures: Figure 1 – Site Map
 Laboratory Analysis Report
 Permits



NOTE: Base photo from Google Earth

FIGURE 1 – Site Map

25673 Nickel
Hayward, California





McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1611584

Report Created for: Applied Water Resources

1046 W. Taylor Street, Ste. 209
San Jose, CA 95051-1333

Project Contact: Janelle Amendola

Project P.O.:

Project Name: 25673 Nickle Place

Project Received: 11/11/2016

Analytical Report reviewed & approved for release on 11/18/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Applied Water Resources
Project: 25673 Nickle Place
WorkOrder: 1611584

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Applied Water Resources

Project: 25673 Nickle Place

WorkOrder: 1611584

Analytical Qualifiers

S	surrogate spike recovery outside accepted recovery limits
b1	aqueous sample that contains greater than ~1 vol. % sediment
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c8	sample pH is greater than 2
d6	one to a few isolated non-target peaks present in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

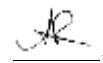
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 2'	1611584-001A	Soil	11/10/2016 09:48	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/16/2016 10:13
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/16/2016 10:13
Benzene	ND		0.0050	1	11/16/2016 10:13
Bromobenzene	ND		0.0050	1	11/16/2016 10:13
Bromoform	ND		0.0050	1	11/16/2016 10:13
Bromochloromethane	ND		0.0050	1	11/16/2016 10:13
Bromodichloromethane	ND		0.0050	1	11/16/2016 10:13
Bromoform	ND		0.0050	1	11/16/2016 10:13
Bromomethane	ND		0.0050	1	11/16/2016 10:13
2-Butanone (MEK)	ND		0.020	1	11/16/2016 10:13
t-Butyl alcohol (TBA)	ND		0.050	1	11/16/2016 10:13
n-Butyl benzene	ND		0.0050	1	11/16/2016 10:13
sec-Butyl benzene	ND		0.0050	1	11/16/2016 10:13
tert-Butyl benzene	ND		0.0050	1	11/16/2016 10:13
Carbon Disulfide	ND		0.0050	1	11/16/2016 10:13
Carbon Tetrachloride	ND		0.0050	1	11/16/2016 10:13
Chlorobenzene	ND		0.0050	1	11/16/2016 10:13
Chloroethane	ND		0.0050	1	11/16/2016 10:13
Chloroform	ND		0.0050	1	11/16/2016 10:13
Chloromethane	ND		0.0050	1	11/16/2016 10:13
2-Chlorotoluene	ND		0.0050	1	11/16/2016 10:13
4-Chlorotoluene	ND		0.0050	1	11/16/2016 10:13
Dibromochloromethane	ND		0.0050	1	11/16/2016 10:13
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/16/2016 10:13
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/16/2016 10:13
Dibromomethane	ND		0.0050	1	11/16/2016 10:13
1,2-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:13
1,3-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:13
1,4-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:13
Dichlorodifluoromethane	ND		0.0050	1	11/16/2016 10:13
1,1-Dichloroethane	ND		0.0050	1	11/16/2016 10:13
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/16/2016 10:13
1,1-Dichloroethene	ND		0.0050	1	11/16/2016 10:13
cis-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 10:13
trans-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 10:13
1,2-Dichloropropane	ND		0.0050	1	11/16/2016 10:13
1,3-Dichloropropane	ND		0.0050	1	11/16/2016 10:13
2,2-Dichloropropane	ND		0.0050	1	11/16/2016 10:13

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/14/16
Project: 25673 Nickle Place

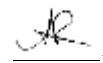
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 2'	1611584-001A	Soil	11/10/2016 09:48	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.0050	1	11/16/2016 10:13
cis-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 10:13
trans-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 10:13
Diisopropyl ether (DIPE)	ND		0.0050	1	11/16/2016 10:13
Ethylbenzene	ND		0.0050	1	11/16/2016 10:13
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/16/2016 10:13
Freon 113	ND		0.0050	1	11/16/2016 10:13
Hexachlorobutadiene	ND		0.0050	1	11/16/2016 10:13
Hexachloroethane	ND		0.0050	1	11/16/2016 10:13
2-Hexanone	ND		0.0050	1	11/16/2016 10:13
Isopropylbenzene	ND		0.0050	1	11/16/2016 10:13
4-Isopropyl toluene	ND		0.0050	1	11/16/2016 10:13
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/16/2016 10:13
Methylene chloride	ND		0.0050	1	11/16/2016 10:13
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/16/2016 10:13
Naphthalene	ND		0.0050	1	11/16/2016 10:13
n-Propyl benzene	ND		0.0050	1	11/16/2016 10:13
Styrene	ND		0.0050	1	11/16/2016 10:13
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 10:13
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 10:13
Tetrachloroethene	ND		0.0050	1	11/16/2016 10:13
Toluene	ND		0.0050	1	11/16/2016 10:13
1,2,3-Trichlorobenzene	ND		0.0050	1	11/16/2016 10:13
1,2,4-Trichlorobenzene	ND		0.0050	1	11/16/2016 10:13
1,1,1-Trichloroethane	ND		0.0050	1	11/16/2016 10:13
1,1,2-Trichloroethane	ND		0.0050	1	11/16/2016 10:13
Trichloroethene	ND		0.0050	1	11/16/2016 10:13
Trichlorofluoromethane	ND		0.0050	1	11/16/2016 10:13
1,2,3-Trichloropropane	ND		0.0050	1	11/16/2016 10:13
1,2,4-Trimethylbenzene	ND		0.0050	1	11/16/2016 10:13
1,3,5-Trimethylbenzene	ND		0.0050	1	11/16/2016 10:13
Vinyl Chloride	ND		0.0050	1	11/16/2016 10:13
Xylenes, Total	ND		0.0050	1	11/16/2016 10:13

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 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 2'	1611584-001A	Soil	11/10/2016 09:48	GC10	129717
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	110		70-130		11/16/2016 10:13
Toluene-d8	111		70-130		11/16/2016 10:13
4-BFB	95		70-130		11/16/2016 10:13
Benzene-d6	86		60-140		11/16/2016 10:13
Ethylbenzene-d10	90		60-140		11/16/2016 10:13
1,2-DCB-d4	82		60-140		11/16/2016 10:13

Analyst(s): KF

(Cont.)

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 Angela Rydelius, Lab Manager



Analytical Report

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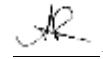
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 4'	1611584-002A	Soil	11/10/2016 09:49	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/16/2016 10:53
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/16/2016 10:53
Benzene	ND		0.0050	1	11/16/2016 10:53
Bromobenzene	ND		0.0050	1	11/16/2016 10:53
Bromoform	ND		0.0050	1	11/16/2016 10:53
Bromochloromethane	ND		0.0050	1	11/16/2016 10:53
Bromodichloromethane	ND		0.0050	1	11/16/2016 10:53
Bromoform	ND		0.0050	1	11/16/2016 10:53
Bromomethane	ND		0.0050	1	11/16/2016 10:53
2-Butanone (MEK)	ND		0.020	1	11/16/2016 10:53
t-Butyl alcohol (TBA)	ND		0.050	1	11/16/2016 10:53
n-Butyl benzene	ND		0.0050	1	11/16/2016 10:53
sec-Butyl benzene	ND		0.0050	1	11/16/2016 10:53
tert-Butyl benzene	ND		0.0050	1	11/16/2016 10:53
Carbon Disulfide	ND		0.0050	1	11/16/2016 10:53
Carbon Tetrachloride	ND		0.0050	1	11/16/2016 10:53
Chlorobenzene	ND		0.0050	1	11/16/2016 10:53
Chloroethane	ND		0.0050	1	11/16/2016 10:53
Chloroform	ND		0.0050	1	11/16/2016 10:53
Chloromethane	ND		0.0050	1	11/16/2016 10:53
2-Chlorotoluene	ND		0.0050	1	11/16/2016 10:53
4-Chlorotoluene	ND		0.0050	1	11/16/2016 10:53
Dibromochloromethane	ND		0.0050	1	11/16/2016 10:53
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/16/2016 10:53
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/16/2016 10:53
Dibromomethane	ND		0.0050	1	11/16/2016 10:53
1,2-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:53
1,3-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:53
1,4-Dichlorobenzene	ND		0.0050	1	11/16/2016 10:53
Dichlorodifluoromethane	ND		0.0050	1	11/16/2016 10:53
1,1-Dichloroethane	ND		0.0050	1	11/16/2016 10:53
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/16/2016 10:53
1,1-Dichloroethene	ND		0.0050	1	11/16/2016 10:53
cis-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 10:53
trans-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 10:53
1,2-Dichloropropane	ND		0.0050	1	11/16/2016 10:53
1,3-Dichloropropane	ND		0.0050	1	11/16/2016 10:53
2,2-Dichloropropane	ND		0.0050	1	11/16/2016 10:53

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 Angela Rydelius, Lab Manager



Analytical Report

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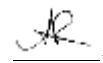
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1,1-Dichloropropene	ND		0.0050	1	11/16/2016 10:53
cis-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 10:53
trans-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 10:53
Diisopropyl ether (DIPE)	ND		0.0050	1	11/16/2016 10:53
Ethylbenzene	ND		0.0050	1	11/16/2016 10:53
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/16/2016 10:53
Freon 113	ND		0.0050	1	11/16/2016 10:53
Hexachlorobutadiene	ND		0.0050	1	11/16/2016 10:53
Hexachloroethane	ND		0.0050	1	11/16/2016 10:53
2-Hexanone	ND		0.0050	1	11/16/2016 10:53
Isopropylbenzene	ND		0.0050	1	11/16/2016 10:53
4-Isopropyl toluene	ND		0.0050	1	11/16/2016 10:53
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/16/2016 10:53
Methylene chloride	ND		0.0050	1	11/16/2016 10:53
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/16/2016 10:53
Naphthalene	ND		0.0050	1	11/16/2016 10:53
n-Propyl benzene	ND		0.0050	1	11/16/2016 10:53
Styrene	ND		0.0050	1	11/16/2016 10:53
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 10:53
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 10:53
Tetrachloroethene	ND		0.0050	1	11/16/2016 10:53
Toluene	ND		0.0050	1	11/16/2016 10:53
1,2,3-Trichlorobenzene	ND		0.0050	1	11/16/2016 10:53
1,2,4-Trichlorobenzene	ND		0.0050	1	11/16/2016 10:53
1,1,1-Trichloroethane	ND		0.0050	1	11/16/2016 10:53
1,1,2-Trichloroethane	ND		0.0050	1	11/16/2016 10:53
Trichloroethene	ND		0.0050	1	11/16/2016 10:53
Trichlorofluoromethane	ND		0.0050	1	11/16/2016 10:53
1,2,3-Trichloropropane	ND		0.0050	1	11/16/2016 10:53
1,2,4-Trimethylbenzene	ND		0.0050	1	11/16/2016 10:53
1,3,5-Trimethylbenzene	ND		0.0050	1	11/16/2016 10:53
Vinyl Chloride	ND		0.0050	1	11/16/2016 10:53
Xylenes, Total	ND		0.0050	1	11/16/2016 10:53

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 4'	1611584-002A	Soil	11/10/2016 09:49	GC10	129717
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	109		70-130		11/16/2016 10:53
Toluene-d8	111		70-130		11/16/2016 10:53
4-BFB	94		70-130		11/16/2016 10:53
Benzene-d6	84		60-140		11/16/2016 10:53
Ethylbenzene-d10	88		60-140		11/16/2016 10:53
1,2-DCB-d4	81		60-140		11/16/2016 10:53

Analyst(s): KF

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

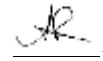
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 2'	1611584-004A	Soil	11/10/2016 11:40	GC16	129734
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/17/2016 04:38
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/17/2016 04:38
Benzene	ND		0.0050	1	11/17/2016 04:38
Bromobenzene	ND		0.0050	1	11/17/2016 04:38
Bromoform	ND		0.0050	1	11/17/2016 04:38
Bromochloromethane	ND		0.0050	1	11/17/2016 04:38
Bromodichloromethane	ND		0.0050	1	11/17/2016 04:38
Bromoform	ND		0.0050	1	11/17/2016 04:38
Bromomethane	ND		0.0050	1	11/17/2016 04:38
2-Butanone (MEK)	ND		0.020	1	11/17/2016 04:38
t-Butyl alcohol (TBA)	ND		0.050	1	11/17/2016 04:38
n-Butyl benzene	ND		0.0050	1	11/17/2016 04:38
sec-Butyl benzene	ND		0.0050	1	11/17/2016 04:38
tert-Butyl benzene	ND		0.0050	1	11/17/2016 04:38
Carbon Disulfide	ND		0.0050	1	11/17/2016 04:38
Carbon Tetrachloride	ND		0.0050	1	11/17/2016 04:38
Chlorobenzene	ND		0.0050	1	11/17/2016 04:38
Chloroethane	ND		0.0050	1	11/17/2016 04:38
Chloroform	ND		0.0050	1	11/17/2016 04:38
Chloromethane	ND		0.0050	1	11/17/2016 04:38
2-Chlorotoluene	ND		0.0050	1	11/17/2016 04:38
4-Chlorotoluene	ND		0.0050	1	11/17/2016 04:38
Dibromochloromethane	ND		0.0050	1	11/17/2016 04:38
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/17/2016 04:38
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/17/2016 04:38
Dibromomethane	ND		0.0050	1	11/17/2016 04:38
1,2-Dichlorobenzene	ND		0.0050	1	11/17/2016 04:38
1,3-Dichlorobenzene	ND		0.0050	1	11/17/2016 04:38
1,4-Dichlorobenzene	ND		0.0050	1	11/17/2016 04:38
Dichlorodifluoromethane	ND		0.0050	1	11/17/2016 04:38
1,1-Dichloroethane	ND		0.0050	1	11/17/2016 04:38
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/17/2016 04:38
1,1-Dichloroethene	ND		0.0050	1	11/17/2016 04:38
cis-1,2-Dichloroethene	ND		0.0050	1	11/17/2016 04:38
trans-1,2-Dichloroethene	ND		0.0050	1	11/17/2016 04:38
1,2-Dichloropropane	ND		0.0050	1	11/17/2016 04:38
1,3-Dichloropropane	ND		0.0050	1	11/17/2016 04:38
2,2-Dichloropropane	ND		0.0050	1	11/17/2016 04:38

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

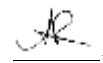
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 2'	1611584-004A	Soil	11/10/2016 11:40	GC16	129734
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.0050	1	11/17/2016 04:38
cis-1,3-Dichloropropene	ND		0.0050	1	11/17/2016 04:38
trans-1,3-Dichloropropene	ND		0.0050	1	11/17/2016 04:38
Diisopropyl ether (DIPE)	ND		0.0050	1	11/17/2016 04:38
Ethylbenzene	ND		0.0050	1	11/17/2016 04:38
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/17/2016 04:38
Freon 113	ND		0.0050	1	11/17/2016 04:38
Hexachlorobutadiene	ND		0.0050	1	11/17/2016 04:38
Hexachloroethane	ND		0.0050	1	11/17/2016 04:38
2-Hexanone	ND		0.0050	1	11/17/2016 04:38
Isopropylbenzene	ND		0.0050	1	11/17/2016 04:38
4-Isopropyl toluene	ND		0.0050	1	11/17/2016 04:38
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/17/2016 04:38
Methylene chloride	ND		0.0050	1	11/17/2016 04:38
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/17/2016 04:38
Naphthalene	ND		0.0050	1	11/17/2016 04:38
n-Propyl benzene	ND		0.0050	1	11/17/2016 04:38
Styrene	ND		0.0050	1	11/17/2016 04:38
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/17/2016 04:38
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/17/2016 04:38
Tetrachloroethene	ND		0.0050	1	11/17/2016 04:38
Toluene	ND		0.0050	1	11/17/2016 04:38
1,2,3-Trichlorobenzene	ND		0.0050	1	11/17/2016 04:38
1,2,4-Trichlorobenzene	ND		0.0050	1	11/17/2016 04:38
1,1,1-Trichloroethane	ND		0.0050	1	11/17/2016 04:38
1,1,2-Trichloroethane	ND		0.0050	1	11/17/2016 04:38
Trichloroethene	ND		0.0050	1	11/17/2016 04:38
Trichlorofluoromethane	ND		0.0050	1	11/17/2016 04:38
1,2,3-Trichloropropane	ND		0.0050	1	11/17/2016 04:38
1,2,4-Trimethylbenzene	ND		0.0050	1	11/17/2016 04:38
1,3,5-Trimethylbenzene	ND		0.0050	1	11/17/2016 04:38
Vinyl Chloride	ND		0.0050	1	11/17/2016 04:38
Xylenes, Total	ND		0.0050	1	11/17/2016 04:38

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

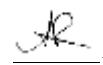
Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 2'	1611584-004A	Soil	11/10/2016 11:40	GC16	129734
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	100		70-130		11/17/2016 04:38
Toluene-d8	108		70-130		11/17/2016 04:38
4-BFB	86		70-130		11/17/2016 04:38
Benzene-d6	91		60-140		11/17/2016 04:38
Ethylbenzene-d10	101		60-140		11/17/2016 04:38
1,2-DCB-d4	72		60-140		11/17/2016 04:38

Analyst(s): JEM

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

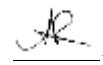
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 4	1611584-005A	Soil	11/10/2016 11:42	GC16	129734
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/17/2016 05:17
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/17/2016 05:17
Benzene	ND		0.0050	1	11/17/2016 05:17
Bromobenzene	ND		0.0050	1	11/17/2016 05:17
Bromoform	ND		0.0050	1	11/17/2016 05:17
Bromochloromethane	ND		0.0050	1	11/17/2016 05:17
Bromodichloromethane	ND		0.0050	1	11/17/2016 05:17
Bromoform	ND		0.0050	1	11/17/2016 05:17
Bromomethane	ND		0.0050	1	11/17/2016 05:17
2-Butanone (MEK)	ND		0.020	1	11/17/2016 05:17
t-Butyl alcohol (TBA)	ND		0.050	1	11/17/2016 05:17
n-Butyl benzene	ND		0.0050	1	11/17/2016 05:17
sec-Butyl benzene	ND		0.0050	1	11/17/2016 05:17
tert-Butyl benzene	ND		0.0050	1	11/17/2016 05:17
Carbon Disulfide	ND		0.0050	1	11/17/2016 05:17
Carbon Tetrachloride	ND		0.0050	1	11/17/2016 05:17
Chlorobenzene	ND		0.0050	1	11/17/2016 05:17
Chloroethane	ND		0.0050	1	11/17/2016 05:17
Chloroform	ND		0.0050	1	11/17/2016 05:17
Chloromethane	ND		0.0050	1	11/17/2016 05:17
2-Chlorotoluene	ND		0.0050	1	11/17/2016 05:17
4-Chlorotoluene	ND		0.0050	1	11/17/2016 05:17
Dibromochloromethane	ND		0.0050	1	11/17/2016 05:17
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/17/2016 05:17
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/17/2016 05:17
Dibromomethane	ND		0.0050	1	11/17/2016 05:17
1,2-Dichlorobenzene	ND		0.0050	1	11/17/2016 05:17
1,3-Dichlorobenzene	ND		0.0050	1	11/17/2016 05:17
1,4-Dichlorobenzene	ND		0.0050	1	11/17/2016 05:17
Dichlorodifluoromethane	ND		0.0050	1	11/17/2016 05:17
1,1-Dichloroethane	ND		0.0050	1	11/17/2016 05:17
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/17/2016 05:17
1,1-Dichloroethene	ND		0.0050	1	11/17/2016 05:17
cis-1,2-Dichloroethene	ND		0.0050	1	11/17/2016 05:17
trans-1,2-Dichloroethene	ND		0.0050	1	11/17/2016 05:17
1,2-Dichloropropane	ND		0.0050	1	11/17/2016 05:17
1,3-Dichloropropane	ND		0.0050	1	11/17/2016 05:17
2,2-Dichloropropane	ND		0.0050	1	11/17/2016 05:17

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

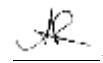
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 4	1611584-005A	Soil	11/10/2016 11:42	GC16	129734
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.0050	1	11/17/2016 05:17
cis-1,3-Dichloropropene	ND		0.0050	1	11/17/2016 05:17
trans-1,3-Dichloropropene	ND		0.0050	1	11/17/2016 05:17
Diisopropyl ether (DIPE)	ND		0.0050	1	11/17/2016 05:17
Ethylbenzene	ND		0.0050	1	11/17/2016 05:17
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/17/2016 05:17
Freon 113	ND		0.0050	1	11/17/2016 05:17
Hexachlorobutadiene	ND		0.0050	1	11/17/2016 05:17
Hexachloroethane	ND		0.0050	1	11/17/2016 05:17
2-Hexanone	ND		0.0050	1	11/17/2016 05:17
Isopropylbenzene	ND		0.0050	1	11/17/2016 05:17
4-Isopropyl toluene	ND		0.0050	1	11/17/2016 05:17
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/17/2016 05:17
Methylene chloride	ND		0.0050	1	11/17/2016 05:17
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/17/2016 05:17
Naphthalene	ND		0.0050	1	11/17/2016 05:17
n-Propyl benzene	ND		0.0050	1	11/17/2016 05:17
Styrene	ND		0.0050	1	11/17/2016 05:17
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/17/2016 05:17
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/17/2016 05:17
Tetrachloroethene	ND		0.0050	1	11/17/2016 05:17
Toluene	ND		0.0050	1	11/17/2016 05:17
1,2,3-Trichlorobenzene	ND		0.0050	1	11/17/2016 05:17
1,2,4-Trichlorobenzene	ND		0.0050	1	11/17/2016 05:17
1,1,1-Trichloroethane	ND		0.0050	1	11/17/2016 05:17
1,1,2-Trichloroethane	ND		0.0050	1	11/17/2016 05:17
Trichloroethene	ND		0.0050	1	11/17/2016 05:17
Trichlorofluoromethane	ND		0.0050	1	11/17/2016 05:17
1,2,3-Trichloropropane	ND		0.0050	1	11/17/2016 05:17
1,2,4-Trimethylbenzene	ND		0.0050	1	11/17/2016 05:17
1,3,5-Trimethylbenzene	ND		0.0050	1	11/17/2016 05:17
Vinyl Chloride	ND		0.0050	1	11/17/2016 05:17
Xylenes, Total	ND		0.0050	1	11/17/2016 05:17

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 4	1611584-005A	Soil	11/10/2016 11:42	GC16	129734
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	101		70-130		11/17/2016 05:17
Toluene-d8	111		70-130		11/17/2016 05:17
4-BFB	90		70-130		11/17/2016 05:17
Benzene-d6	99		60-140		11/17/2016 05:17
Ethylbenzene-d10	115		60-140		11/17/2016 05:17
1,2-DCB-d4	79		60-140		11/17/2016 05:17

Analyst(s): JEM

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

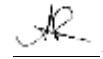
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 2'	1611584-007A	Soil	11/10/2016 12:18	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/16/2016 12:54
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/16/2016 12:54
Benzene	ND		0.0050	1	11/16/2016 12:54
Bromobenzene	ND		0.0050	1	11/16/2016 12:54
Bromoform	ND		0.0050	1	11/16/2016 12:54
Bromochloromethane	ND		0.0050	1	11/16/2016 12:54
Bromodichloromethane	ND		0.0050	1	11/16/2016 12:54
Bromoform	ND		0.0050	1	11/16/2016 12:54
Bromomethane	ND		0.0050	1	11/16/2016 12:54
2-Butanone (MEK)	ND		0.020	1	11/16/2016 12:54
t-Butyl alcohol (TBA)	ND		0.050	1	11/16/2016 12:54
n-Butyl benzene	ND		0.0050	1	11/16/2016 12:54
sec-Butyl benzene	ND		0.0050	1	11/16/2016 12:54
tert-Butyl benzene	ND		0.0050	1	11/16/2016 12:54
Carbon Disulfide	ND		0.0050	1	11/16/2016 12:54
Carbon Tetrachloride	ND		0.0050	1	11/16/2016 12:54
Chlorobenzene	ND		0.0050	1	11/16/2016 12:54
Chloroethane	ND		0.0050	1	11/16/2016 12:54
Chloroform	ND		0.0050	1	11/16/2016 12:54
Chloromethane	ND		0.0050	1	11/16/2016 12:54
2-Chlorotoluene	ND		0.0050	1	11/16/2016 12:54
4-Chlorotoluene	ND		0.0050	1	11/16/2016 12:54
Dibromochloromethane	ND		0.0050	1	11/16/2016 12:54
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/16/2016 12:54
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/16/2016 12:54
Dibromomethane	ND		0.0050	1	11/16/2016 12:54
1,2-Dichlorobenzene	ND		0.0050	1	11/16/2016 12:54
1,3-Dichlorobenzene	ND		0.0050	1	11/16/2016 12:54
1,4-Dichlorobenzene	ND		0.0050	1	11/16/2016 12:54
Dichlorodifluoromethane	ND		0.0050	1	11/16/2016 12:54
1,1-Dichloroethane	ND		0.0050	1	11/16/2016 12:54
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/16/2016 12:54
1,1-Dichloroethene	ND		0.0050	1	11/16/2016 12:54
cis-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 12:54
trans-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 12:54
1,2-Dichloropropane	ND		0.0050	1	11/16/2016 12:54
1,3-Dichloropropane	ND		0.0050	1	11/16/2016 12:54
2,2-Dichloropropane	ND		0.0050	1	11/16/2016 12:54

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/14/16
Project: 25673 Nickle Place

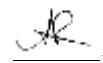
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 2'	1611584-007A	Soil	11/10/2016 12:18	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.0050	1	11/16/2016 12:54
cis-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 12:54
trans-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 12:54
Diisopropyl ether (DIPE)	ND		0.0050	1	11/16/2016 12:54
Ethylbenzene	ND		0.0050	1	11/16/2016 12:54
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/16/2016 12:54
Freon 113	ND		0.0050	1	11/16/2016 12:54
Hexachlorobutadiene	ND		0.0050	1	11/16/2016 12:54
Hexachloroethane	ND		0.0050	1	11/16/2016 12:54
2-Hexanone	ND		0.0050	1	11/16/2016 12:54
Isopropylbenzene	ND		0.0050	1	11/16/2016 12:54
4-Isopropyl toluene	ND		0.0050	1	11/16/2016 12:54
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/16/2016 12:54
Methylene chloride	ND		0.0050	1	11/16/2016 12:54
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/16/2016 12:54
Naphthalene	ND		0.0050	1	11/16/2016 12:54
n-Propyl benzene	ND		0.0050	1	11/16/2016 12:54
Styrene	ND		0.0050	1	11/16/2016 12:54
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 12:54
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 12:54
Tetrachloroethene	ND		0.0050	1	11/16/2016 12:54
Toluene	ND		0.0050	1	11/16/2016 12:54
1,2,3-Trichlorobenzene	ND		0.0050	1	11/16/2016 12:54
1,2,4-Trichlorobenzene	ND		0.0050	1	11/16/2016 12:54
1,1,1-Trichloroethane	ND		0.0050	1	11/16/2016 12:54
1,1,2-Trichloroethane	ND		0.0050	1	11/16/2016 12:54
Trichloroethene	ND		0.0050	1	11/16/2016 12:54
Trichlorofluoromethane	ND		0.0050	1	11/16/2016 12:54
1,2,3-Trichloropropane	ND		0.0050	1	11/16/2016 12:54
1,2,4-Trimethylbenzene	ND		0.0050	1	11/16/2016 12:54
1,3,5-Trimethylbenzene	ND		0.0050	1	11/16/2016 12:54
Vinyl Chloride	ND		0.0050	1	11/16/2016 12:54
Xylenes, Total	ND		0.0050	1	11/16/2016 12:54

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 2'	1611584-007A	Soil	11/10/2016 12:18	GC10	129717
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	110		70-130		11/16/2016 12:54
Toluene-d8	113		70-130		11/16/2016 12:54
4-BFB	97		70-130		11/16/2016 12:54
Benzene-d6	93		60-140		11/16/2016 12:54
Ethylbenzene-d10	99		60-140		11/16/2016 12:54
1,2-DCB-d4	88		60-140		11/16/2016 12:54

Analyst(s): KF

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

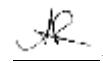
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 4'	1611584-008A	Soil	11/10/2016 12:20	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		0.10	1	11/16/2016 13:34
tert-Amyl methyl ether (TAME)	ND		0.0050	1	11/16/2016 13:34
Benzene	ND		0.0050	1	11/16/2016 13:34
Bromobenzene	ND		0.0050	1	11/16/2016 13:34
Bromoform	ND		0.0050	1	11/16/2016 13:34
Bromochloromethane	ND		0.0050	1	11/16/2016 13:34
Bromodichloromethane	ND		0.0050	1	11/16/2016 13:34
Bromoform	ND		0.0050	1	11/16/2016 13:34
Bromomethane	ND		0.0050	1	11/16/2016 13:34
2-Butanone (MEK)	ND		0.020	1	11/16/2016 13:34
t-Butyl alcohol (TBA)	ND		0.050	1	11/16/2016 13:34
n-Butyl benzene	ND		0.0050	1	11/16/2016 13:34
sec-Butyl benzene	ND		0.0050	1	11/16/2016 13:34
tert-Butyl benzene	ND		0.0050	1	11/16/2016 13:34
Carbon Disulfide	ND		0.0050	1	11/16/2016 13:34
Carbon Tetrachloride	ND		0.0050	1	11/16/2016 13:34
Chlorobenzene	ND		0.0050	1	11/16/2016 13:34
Chloroethane	ND		0.0050	1	11/16/2016 13:34
Chloroform	ND		0.0050	1	11/16/2016 13:34
Chloromethane	ND		0.0050	1	11/16/2016 13:34
2-Chlorotoluene	ND		0.0050	1	11/16/2016 13:34
4-Chlorotoluene	ND		0.0050	1	11/16/2016 13:34
Dibromochloromethane	ND		0.0050	1	11/16/2016 13:34
1,2-Dibromo-3-chloropropane	ND		0.0040	1	11/16/2016 13:34
1,2-Dibromoethane (EDB)	ND		0.0040	1	11/16/2016 13:34
Dibromomethane	ND		0.0050	1	11/16/2016 13:34
1,2-Dichlorobenzene	ND		0.0050	1	11/16/2016 13:34
1,3-Dichlorobenzene	ND		0.0050	1	11/16/2016 13:34
1,4-Dichlorobenzene	ND		0.0050	1	11/16/2016 13:34
Dichlorodifluoromethane	ND		0.0050	1	11/16/2016 13:34
1,1-Dichloroethane	ND		0.0050	1	11/16/2016 13:34
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	11/16/2016 13:34
1,1-Dichloroethene	ND		0.0050	1	11/16/2016 13:34
cis-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 13:34
trans-1,2-Dichloroethene	ND		0.0050	1	11/16/2016 13:34
1,2-Dichloropropane	ND		0.0050	1	11/16/2016 13:34
1,3-Dichloropropane	ND		0.0050	1	11/16/2016 13:34
2,2-Dichloropropane	ND		0.0050	1	11/16/2016 13:34

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/14/16
Project: 25673 Nickle Place

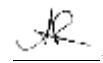
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 4'	1611584-008A	Soil	11/10/2016 12:20	GC10	129717
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.0050	1	11/16/2016 13:34
cis-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 13:34
trans-1,3-Dichloropropene	ND		0.0050	1	11/16/2016 13:34
Diisopropyl ether (DIPE)	ND		0.0050	1	11/16/2016 13:34
Ethylbenzene	ND		0.0050	1	11/16/2016 13:34
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	11/16/2016 13:34
Freon 113	ND		0.0050	1	11/16/2016 13:34
Hexachlorobutadiene	ND		0.0050	1	11/16/2016 13:34
Hexachloroethane	ND		0.0050	1	11/16/2016 13:34
2-Hexanone	ND		0.0050	1	11/16/2016 13:34
Isopropylbenzene	ND		0.0050	1	11/16/2016 13:34
4-Isopropyl toluene	ND		0.0050	1	11/16/2016 13:34
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	11/16/2016 13:34
Methylene chloride	ND		0.0050	1	11/16/2016 13:34
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	11/16/2016 13:34
Naphthalene	ND		0.0050	1	11/16/2016 13:34
n-Propyl benzene	ND		0.0050	1	11/16/2016 13:34
Styrene	ND		0.0050	1	11/16/2016 13:34
1,1,1,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 13:34
1,1,2,2-Tetrachloroethane	ND		0.0050	1	11/16/2016 13:34
Tetrachloroethene	ND		0.0050	1	11/16/2016 13:34
Toluene	ND		0.0050	1	11/16/2016 13:34
1,2,3-Trichlorobenzene	ND		0.0050	1	11/16/2016 13:34
1,2,4-Trichlorobenzene	ND		0.0050	1	11/16/2016 13:34
1,1,1-Trichloroethane	ND		0.0050	1	11/16/2016 13:34
1,1,2-Trichloroethane	ND		0.0050	1	11/16/2016 13:34
Trichloroethene	ND		0.0050	1	11/16/2016 13:34
Trichlorofluoromethane	ND		0.0050	1	11/16/2016 13:34
1,2,3-Trichloropropane	ND		0.0050	1	11/16/2016 13:34
1,2,4-Trimethylbenzene	ND		0.0050	1	11/16/2016 13:34
1,3,5-Trimethylbenzene	ND		0.0050	1	11/16/2016 13:34
Vinyl Chloride	ND		0.0050	1	11/16/2016 13:34
Xylenes, Total	ND		0.0050	1	11/16/2016 13:34

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 4'	1611584-008A	Soil	11/10/2016 12:20	GC10	129717
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Limits			
Dibromofluoromethane	109	70-130			11/16/2016 13:34
Toluene-d8	115	70-130			11/16/2016 13:34
4-BFB	97	70-130			11/16/2016 13:34
Benzene-d6	100	60-140			11/16/2016 13:34
Ethylbenzene-d10	111	60-140			11/16/2016 13:34
1,2-DCB-d4	93	60-140			11/16/2016 13:34

Analyst(s): KF



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/15/16-11/16/16
Project: 25673 Nickle Place

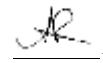
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 GW	1611584-003C	Water	11/10/2016 10:45	GC18	129798
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	11		10	1	11/16/2016 15:52
tert-Amyl methyl ether (TAME)	ND		0.50	1	11/16/2016 15:52
Benzene	ND		0.50	1	11/16/2016 15:52
Bromobenzene	ND		0.50	1	11/16/2016 15:52
Bromoform	ND		0.50	1	11/16/2016 15:52
Bromochloromethane	ND		0.50	1	11/16/2016 15:52
Bromodichloromethane	ND		0.50	1	11/16/2016 15:52
Bromoform	ND		0.50	1	11/16/2016 15:52
Bromomethane	ND		0.50	1	11/16/2016 15:52
2-Butanone (MEK)	ND		2.0	1	11/16/2016 15:52
t-Butyl alcohol (TBA)	ND		2.0	1	11/16/2016 15:52
n-Butyl benzene	ND		0.50	1	11/16/2016 15:52
sec-Butyl benzene	ND		0.50	1	11/16/2016 15:52
tert-Butyl benzene	ND		0.50	1	11/16/2016 15:52
Carbon Disulfide	ND		0.50	1	11/16/2016 15:52
Carbon Tetrachloride	ND		0.50	1	11/16/2016 15:52
Chlorobenzene	ND		0.50	1	11/16/2016 15:52
Chloroethane	ND		0.50	1	11/16/2016 15:52
Chloroform	ND		0.50	1	11/16/2016 15:52
Chloromethane	ND		0.50	1	11/16/2016 15:52
2-Chlorotoluene	ND		0.50	1	11/16/2016 15:52
4-Chlorotoluene	ND		0.50	1	11/16/2016 15:52
Dibromochloromethane	ND		0.50	1	11/16/2016 15:52
1,2-Dibromo-3-chloropropane	ND		0.20	1	11/16/2016 15:52
1,2-Dibromoethane (EDB)	ND		0.50	1	11/16/2016 15:52
Dibromomethane	ND		0.50	1	11/16/2016 15:52
1,2-Dichlorobenzene	ND		0.50	1	11/16/2016 15:52
1,3-Dichlorobenzene	ND		0.50	1	11/16/2016 15:52
1,4-Dichlorobenzene	ND		0.50	1	11/16/2016 15:52
Dichlorodifluoromethane	ND		0.50	1	11/16/2016 15:52
1,1-Dichloroethane	ND		0.50	1	11/16/2016 15:52
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	11/16/2016 15:52
1,1-Dichloroethene	ND		0.50	1	11/16/2016 15:52
cis-1,2-Dichloroethene	ND		0.50	1	11/16/2016 15:52
trans-1,2-Dichloroethene	ND		0.50	1	11/16/2016 15:52
1,2-Dichloropropane	ND		0.50	1	11/16/2016 15:52
1,3-Dichloropropane	ND		0.50	1	11/16/2016 15:52
2,2-Dichloropropane	ND		0.50	1	11/16/2016 15:52

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/16/16
Project: 25673 Nickle Place

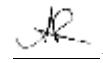
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 GW	1611584-003C	Water	11/10/2016 10:45	GC18	129798
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		0.50	1	11/16/2016 15:52
cis-1,3-Dichloropropene	ND		0.50	1	11/16/2016 15:52
trans-1,3-Dichloropropene	ND		0.50	1	11/16/2016 15:52
Diisopropyl ether (DIPE)	ND		0.50	1	11/16/2016 15:52
Ethylbenzene	ND		0.50	1	11/16/2016 15:52
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	11/16/2016 15:52
Freon 113	ND		0.50	1	11/16/2016 15:52
Hexachlorobutadiene	ND		0.50	1	11/16/2016 15:52
Hexachloroethane	ND		0.50	1	11/16/2016 15:52
2-Hexanone	ND		0.50	1	11/16/2016 15:52
Isopropylbenzene	ND		0.50	1	11/16/2016 15:52
4-Isopropyl toluene	ND		0.50	1	11/16/2016 15:52
Methyl-t-butyl ether (MTBE)	ND		0.50	1	11/16/2016 15:52
Methylene chloride	ND		0.50	1	11/16/2016 15:52
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	11/16/2016 15:52
Naphthalene	ND		0.50	1	11/16/2016 15:52
n-Propyl benzene	ND		0.50	1	11/16/2016 15:52
Styrene	ND		0.50	1	11/16/2016 15:52
1,1,1,2-Tetrachloroethane	ND		0.50	1	11/16/2016 15:52
1,1,2,2-Tetrachloroethane	ND		0.50	1	11/16/2016 15:52
Tetrachloroethene	ND		0.50	1	11/16/2016 15:52
Toluene	ND		0.50	1	11/16/2016 15:52
1,2,3-Trichlorobenzene	ND		0.50	1	11/16/2016 15:52
1,2,4-Trichlorobenzene	ND		0.50	1	11/16/2016 15:52
1,1,1-Trichloroethane	ND		0.50	1	11/16/2016 15:52
1,1,2-Trichloroethane	ND		0.50	1	11/16/2016 15:52
Trichloroethene	ND		0.50	1	11/16/2016 15:52
Trichlorofluoromethane	ND		0.50	1	11/16/2016 15:52
1,2,3-Trichloropropane	ND		0.50	1	11/16/2016 15:52
1,2,4-Trimethylbenzene	ND		0.50	1	11/16/2016 15:52
1,3,5-Trimethylbenzene	ND		0.50	1	11/16/2016 15:52
Vinyl Chloride	ND		0.50	1	11/16/2016 15:52
Xylenes, Total	ND		0.50	1	11/16/2016 15:52

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/15/16-11/16/16
Project: 25673 Nickle Place

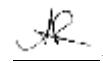
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 GW	1611584-003C	Water	11/10/2016 10:45	GC18	129798
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	105		70-130		11/16/2016 15:52
Toluene-d8	96		70-130		11/16/2016 15:52
4-BFB	93		70-130		11/16/2016 15:52
Analyst(s): KF			<u>Analytical Comments:</u> b1		

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/16/16
Project: 25673 Nickle Place

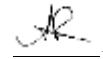
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 GW	1611584-006C	Water	11/10/2016 11:59	GC18	129798
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		50	5	11/15/2016 20:11
tert-Amyl methyl ether (TAME)	ND		2.5	5	11/15/2016 20:11
Benzene	ND		2.5	5	11/15/2016 20:11
Bromobenzene	ND		2.5	5	11/15/2016 20:11
Bromoform	ND		2.5	5	11/15/2016 20:11
Bromomethane	ND		2.5	5	11/15/2016 20:11
Bromodichloromethane	ND		2.5	5	11/15/2016 20:11
2-Butanone (MEK)	ND		10	5	11/15/2016 20:11
t-Butyl alcohol (TBA)	ND		10	5	11/15/2016 20:11
n-Butyl benzene	ND		2.5	5	11/15/2016 20:11
sec-Butyl benzene	ND		2.5	5	11/15/2016 20:11
tert-Butyl benzene	ND		2.5	5	11/15/2016 20:11
Carbon Disulfide	ND		2.5	5	11/15/2016 20:11
Carbon Tetrachloride	ND		2.5	5	11/15/2016 20:11
Chlorobenzene	ND		2.5	5	11/15/2016 20:11
Chloroethane	ND		2.5	5	11/15/2016 20:11
Chloroform	ND		2.5	5	11/15/2016 20:11
Chloromethane	ND		2.5	5	11/15/2016 20:11
2-Chlorotoluene	ND		2.5	5	11/15/2016 20:11
4-Chlorotoluene	ND		2.5	5	11/15/2016 20:11
Dibromochloromethane	ND		2.5	5	11/15/2016 20:11
1,2-Dibromo-3-chloropropane	ND		1.0	5	11/15/2016 20:11
1,2-Dibromoethane (EDB)	ND		2.5	5	11/15/2016 20:11
Dibromomethane	ND		2.5	5	11/15/2016 20:11
1,2-Dichlorobenzene	ND		2.5	5	11/15/2016 20:11
1,3-Dichlorobenzene	ND		2.5	5	11/15/2016 20:11
1,4-Dichlorobenzene	ND		2.5	5	11/15/2016 20:11
Dichlorodifluoromethane	ND		2.5	5	11/15/2016 20:11
1,1-Dichloroethane	ND		2.5	5	11/15/2016 20:11
1,2-Dichloroethane (1,2-DCA)	ND		2.5	5	11/15/2016 20:11
1,1-Dichloroethene	ND		2.5	5	11/15/2016 20:11
cis-1,2-Dichloroethene	14		2.5	5	11/15/2016 20:11
trans-1,2-Dichloroethene	ND		2.5	5	11/15/2016 20:11
1,2-Dichloropropane	ND		2.5	5	11/15/2016 20:11
1,3-Dichloropropane	ND		2.5	5	11/15/2016 20:11
2,2-Dichloropropane	ND		2.5	5	11/15/2016 20:11

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/16/16-11/16/16
Project: 25673 Nickle Place

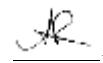
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 GW	1611584-006C	Water	11/10/2016 11:59	GC18	129798
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		2.5	5	11/15/2016 20:11
cis-1,3-Dichloropropene	ND		2.5	5	11/15/2016 20:11
trans-1,3-Dichloropropene	ND		2.5	5	11/15/2016 20:11
Diisopropyl ether (DIPE)	ND		2.5	5	11/15/2016 20:11
Ethylbenzene	ND		2.5	5	11/15/2016 20:11
Ethyl tert-butyl ether (ETBE)	ND		2.5	5	11/15/2016 20:11
Freon 113	ND		2.5	5	11/15/2016 20:11
Hexachlorobutadiene	ND		2.5	5	11/15/2016 20:11
Hexachloroethane	ND		2.5	5	11/15/2016 20:11
2-Hexanone	ND		2.5	5	11/15/2016 20:11
Isopropylbenzene	ND		2.5	5	11/15/2016 20:11
4-Isopropyl toluene	ND		2.5	5	11/15/2016 20:11
Methyl-t-butyl ether (MTBE)	2.9		2.5	5	11/15/2016 20:11
Methylene chloride	ND		2.5	5	11/15/2016 20:11
4-Methyl-2-pentanone (MIBK)	ND		2.5	5	11/15/2016 20:11
Naphthalene	ND		2.5	5	11/15/2016 20:11
n-Propyl benzene	ND		2.5	5	11/15/2016 20:11
Styrene	ND		2.5	5	11/15/2016 20:11
1,1,1,2-Tetrachloroethane	ND		2.5	5	11/15/2016 20:11
1,1,2,2-Tetrachloroethane	ND		2.5	5	11/15/2016 20:11
Tetrachloroethene	ND		2.5	5	11/15/2016 20:11
Toluene	ND		2.5	5	11/15/2016 20:11
1,2,3-Trichlorobenzene	ND		2.5	5	11/15/2016 20:11
1,2,4-Trichlorobenzene	ND		2.5	5	11/15/2016 20:11
1,1,1-Trichloroethane	ND		2.5	5	11/15/2016 20:11
1,1,2-Trichloroethane	ND		2.5	5	11/15/2016 20:11
Trichloroethene	64		2.5	5	11/15/2016 20:11
Trichlorofluoromethane	ND		2.5	5	11/15/2016 20:11
1,2,3-Trichloropropane	ND		2.5	5	11/15/2016 20:11
1,2,4-Trimethylbenzene	ND		2.5	5	11/15/2016 20:11
1,3,5-Trimethylbenzene	ND		2.5	5	11/15/2016 20:11
Vinyl Chloride	ND		2.5	5	11/15/2016 20:11
Xylenes, Total	ND		2.5	5	11/15/2016 20:11

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/15/16-11/16/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 GW	1611584-006C	Water	11/10/2016 11:59	GC18	129798
Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)		Limits		
Dibromofluoromethane	106		70-130		11/15/2016 20:11
Toluene-d8	94		70-130		11/15/2016 20:11
4-BFB	98		70-130		11/15/2016 20:11
<u>Analyst(s):</u>	KF		<u>Analytical Comments:</u> c8,b1		



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

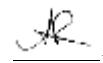
WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 2'	1611584-001A	Soil	11/10/2016 09:48	GC12	129693
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/15/2016 00:46
MTBE	ND		0.050	1	11/15/2016 00:46
Benzene	ND		0.0050	1	11/15/2016 00:46
Toluene	ND		0.0050	1	11/15/2016 00:46
Ethylbenzene	ND		0.0050	1	11/15/2016 00:46
Xylenes	ND		0.015	1	11/15/2016 00:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	79		69-117		11/15/2016 00:46
<u>Analyst(s):</u>	IA				
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 4'	1611584-002A	Soil	11/10/2016 09:49	GC12	129693
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/15/2016 01:18
MTBE	ND		0.050	1	11/15/2016 01:18
Benzene	ND		0.0050	1	11/15/2016 01:18
Toluene	ND		0.0050	1	11/15/2016 01:18
Ethylbenzene	ND		0.0050	1	11/15/2016 01:18
Xylenes	ND		0.015	1	11/15/2016 01:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	78		69-117		11/15/2016 01:18
<u>Analyst(s):</u>	IA				

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 2'	1611584-004A	Soil	11/10/2016 11:40	GC12	129753
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/15/2016 01:50
MTBE	ND		0.050	1	11/15/2016 01:50
Benzene	ND		0.0050	1	11/15/2016 01:50
Toluene	ND		0.0050	1	11/15/2016 01:50
Ethylbenzene	ND		0.0050	1	11/15/2016 01:50
Xylenes	ND		0.015	1	11/15/2016 01:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	83		69-117		11/15/2016 01:50
<u>Analyst(s):</u>	IA				
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 4	1611584-005A	Soil	11/10/2016 11:42	GC12	129753
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/15/2016 02:22
MTBE	ND		0.050	1	11/15/2016 02:22
Benzene	ND		0.0050	1	11/15/2016 02:22
Toluene	ND		0.0050	1	11/15/2016 02:22
Ethylbenzene	ND		0.0050	1	11/15/2016 02:22
Xylenes	ND		0.015	1	11/15/2016 02:22
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	84		69-117		11/15/2016 02:22
<u>Analyst(s):</u>	IA				

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 2'	1611584-007A	Soil	11/10/2016 12:18	GC12	129693
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/16/2016 21:34
MTBE	ND		0.050	1	11/16/2016 21:34
Benzene	ND		0.0050	1	11/16/2016 21:34
Toluene	ND		0.0050	1	11/16/2016 21:34
Ethylbenzene	ND		0.0050	1	11/16/2016 21:34
Xylenes	ND		0.015	1	11/16/2016 21:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	85		69-117		11/16/2016 21:34
<u>Analyst(s):</u>	IA				
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 4'	1611584-008A	Soil	11/10/2016 12:20	GC12	129693
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		1.0	1	11/16/2016 22:06
MTBE	ND		0.050	1	11/16/2016 22:06
Benzene	ND		0.0050	1	11/16/2016 22:06
Toluene	ND		0.0050	1	11/16/2016 22:06
Ethylbenzene	ND		0.0050	1	11/16/2016 22:06
Xylenes	ND		0.015	1	11/16/2016 22:06
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	83		69-117		11/16/2016 22:06
<u>Analyst(s):</u>	IA				



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/17/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 GW	1611584-003A	Water	11/10/2016 10:45	GC3	129928
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		50	1	11/17/2016 07:37
MTBE	ND		5.0	1	11/17/2016 07:37
Benzene	ND		0.50	1	11/17/2016 07:37
Toluene	ND		0.50	1	11/17/2016 07:37
Ethylbenzene	ND		0.50	1	11/17/2016 07:37
Xylenes	ND		1.5	1	11/17/2016 07:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	110		89-115		11/17/2016 07:37
<u>Analyst(s):</u> IA			<u>Analytical Comments:</u>	b1	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 GW	1611584-006A	Water	11/10/2016 11:59	GC3	129928
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		50	1	11/17/2016 08:07
MTBE	ND		5.0	1	11/17/2016 08:07
Benzene	ND		0.50	1	11/17/2016 08:07
Toluene	ND		0.50	1	11/17/2016 08:07
Ethylbenzene	ND		0.50	1	11/17/2016 08:07
Xylenes	ND		1.5	1	11/17/2016 08:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
aaa-TFT	534	S	89-115		11/17/2016 08:07
<u>Analyst(s):</u> IA			<u>Analytical Comments:</u>	d6,c4,b1	



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/14/16
Project: 25673 Nickle Place

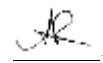
WorkOrder: 1611584
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SV-1 @ 5'	1611584-009A	SoilGas	11/10/2016 13:15	GC26	129810

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.75	25.47	AK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	11/14/2016 17:00

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/16/16 17:00
Date Prepared: 11/15/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SV-1 @ 5'	1611584-009A	SoilGas	11/10/2016 13:15	GC29	129877

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)			
12.75	25.47	AK			
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	60	1	11/15/2016 17:28	
Acrolein	ND	5.8	1	11/15/2016 17:28	
Acrylonitrile	ND	1.1	1	11/15/2016 17:28	
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/15/2016 17:28	
Benzene	2.5	1.6	1	11/15/2016 17:28	
Benzyl chloride	ND	2.6	1	11/15/2016 17:28	
Bromodichloromethane	ND	3.5	1	11/15/2016 17:28	
Bromoform	ND	5.2	1	11/15/2016 17:28	
Bromomethane	ND	2.0	1	11/15/2016 17:28	
1,3-Butadiene	ND	1.1	1	11/15/2016 17:28	
2-Butanone (MEK)	ND	75	1	11/15/2016 17:28	
t-Butyl alcohol (TBA)	ND	31	1	11/15/2016 17:28	
Carbon Disulfide	2.0	1.6	1	11/15/2016 17:28	
Carbon Tetrachloride	ND	3.2	1	11/15/2016 17:28	
Chlorobenzene	ND	2.4	1	11/15/2016 17:28	
Chloroethane	ND	1.3	1	11/15/2016 17:28	
Chloroform	ND	2.4	1	11/15/2016 17:28	
Chloromethane	ND	1.0	1	11/15/2016 17:28	
Cyclohexane	ND	18	1	11/15/2016 17:28	
Dibromochloromethane	ND	4.4	1	11/15/2016 17:28	
1,2-Dibromo-3-chloropropane	ND	0.12	1	11/15/2016 17:28	
1,2-Dibromoethane (EDB)	ND	3.9	1	11/15/2016 17:28	
1,2-Dichlorobenzene	ND	3.0	1	11/15/2016 17:28	
1,3-Dichlorobenzene	ND	3.0	1	11/15/2016 17:28	
1,4-Dichlorobenzene	ND	3.0	1	11/15/2016 17:28	
Dichlorodifluoromethane	2.6	2.5	1	11/15/2016 17:28	
1,1-Dichloroethane	ND	2.0	1	11/15/2016 17:28	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/15/2016 17:28	
1,1-Dichloroethene	ND	2.0	1	11/15/2016 17:28	
cis-1,2-Dichloroethene	ND	2.0	1	11/15/2016 17:28	
trans-1,2-Dichloroethene	ND	2.0	1	11/15/2016 17:28	
1,2-Dichloropropane	ND	2.4	1	11/15/2016 17:28	
cis-1,3-Dichloropropene	ND	2.3	1	11/15/2016 17:28	

(Cont.)

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/15/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SV-1 @ 5'	1611584-009A	SoilGas	11/10/2016 13:15	GC29	129877

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)			
12.75	25.47	AK			
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>	
trans-1,3-Dichloropropene	ND	2.3	1	11/15/2016 17:28	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/15/2016 17:28	
Diisopropyl ether (DIPE)	ND	2.1	1	11/15/2016 17:28	
1,4-Dioxane	ND	1.8	1	11/15/2016 17:28	
Ethanol	ND	96	1	11/15/2016 17:28	
Ethyl acetate	ND	1.8	1	11/15/2016 17:28	
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/15/2016 17:28	
Ethylbenzene	2.4	2.2	1	11/15/2016 17:28	
4-Ethyltoluene	ND	2.5	1	11/15/2016 17:28	
Freon 113	ND	3.9	1	11/15/2016 17:28	
Heptane	ND	21	1	11/15/2016 17:28	
Hexachlorobutadiene	ND	5.4	1	11/15/2016 17:28	
Hexane	ND	18	1	11/15/2016 17:28	
2-Hexanone	11	2.1	1	11/15/2016 17:28	
4-Methyl-2-pentanone (MIBK)	2.4	2.1	1	11/15/2016 17:28	
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/15/2016 17:28	
Methylene chloride	ND	8.8	1	11/15/2016 17:28	
Methyl methacrylate	ND	2.1	1	11/15/2016 17:28	
Naphthalene	ND	5.3	1	11/15/2016 17:28	
Propene	ND	88	1	11/15/2016 17:28	
Styrene	ND	2.2	1	11/15/2016 17:28	
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/15/2016 17:28	
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/15/2016 17:28	
Tetrachloroethene	ND	3.4	1	11/15/2016 17:28	
Tetrahydrofuran	ND	3.0	1	11/15/2016 17:28	
Toluene	4.7	1.9	1	11/15/2016 17:28	
1,2,4-Trichlorobenzene	ND	3.8	1	11/15/2016 17:28	
1,1,1-Trichloroethane	ND	2.8	1	11/15/2016 17:28	
1,1,2-Trichloroethane	ND	2.8	1	11/15/2016 17:28	
Trichloroethene	3.1	2.8	1	11/15/2016 17:28	
Trichlorofluoromethane	ND	2.8	1	11/15/2016 17:28	
1,2,4-Trimethylbenzene	4.6	2.5	1	11/15/2016 17:28	
1,3,5-Trimethylbenzene	ND	2.5	1	11/15/2016 17:28	

(Cont.)

 Angela Rydelius, Lab Manager



Analytical Report

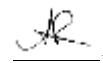
Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/15/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SV-1 @ 5'	1611584-009A	SoilGas	11/10/2016 13:15	GC29	129877

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)		
12.75	25.47	AK		
Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	11/15/2016 17:28
Vinyl Chloride	ND	1.3	1	11/15/2016 17:28
Xylenes, Total	13	6.6	1	11/15/2016 17:28
Surrogates	REC (%)	Limits		
1,2-DCA-d4	108	70-130		
Toluene-d8	75	70-130		
4-BFB	101	70-130		

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

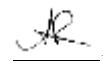
WorkOrder: 1611584
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 2'	1611584-001A	Soil	11/10/2016 09:48	GC11B	129666
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	11/14/2016 20:23
TPH-Motor Oil (C18-C36)	7.9		5.0	1	11/14/2016 20:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	87		72-114		11/14/2016 20:23
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 @ 4'	1611584-002A	Soil	11/10/2016 09:49	GC11A	129666
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	11/14/2016 20:23
TPH-Motor Oil (C18-C36)	7.4		5.0	1	11/14/2016 20:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	97		72-114		11/14/2016 20:23
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 2'	1611584-004A	Soil	11/10/2016 11:40	GC11B	129764
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	11/14/2016 23:23
TPH-Motor Oil (C18-C36)	6.9		5.0	1	11/14/2016 23:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	87		72-114		11/14/2016 23:23
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7		

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16-11/14/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 @ 4'	1611584-005A	Soil	11/10/2016 11:42	GC11B	129764
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	11/15/2016 00:41
TPH-Motor Oil (C18-C36)	ND		5.0	1	11/15/2016 00:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	87		72-114		11/15/2016 00:41
<u>Analyst(s):</u>	TK				
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 2'	1611584-007A	Soil	11/10/2016 12:18	GC9b	129719
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.7		1.0	1	11/14/2016 19:58
TPH-Motor Oil (C18-C36)	30		5.0	1	11/14/2016 19:58
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	86		72-114		11/14/2016 19:58
<u>Analyst(s):</u>	TK			<u>Analytical Comments:</u> e7,e2	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3 @ 4'	1611584-008A	Soil	11/10/2016 12:20	GC9a	129719
<u>Analyses</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	11/14/2016 19:58
TPH-Motor Oil (C18-C36)	ND		5.0	1	11/14/2016 19:58
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	96		72-114		11/14/2016 19:58
<u>Analyst(s):</u>	TK				



Analytical Report

Client: Applied Water Resources
Date Received: 11/11/16 17:00
Date Prepared: 11/11/16
Project: 25673 Nickle Place

WorkOrder: 1611584
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1 GW	1611584-003B	Water	11/10/2016 10:45	GC9a	129714

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	100	100	2	11/14/2016 21:16
TPH-Motor Oil (C18-C36)	1400	500	2	11/14/2016 21:16

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
C9	89	72-117	11/14/2016 21:16
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2,b1	

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2 GW	1611584-006B	Water	11/10/2016 11:59	GC11B	129714

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	150	100	2	11/17/2016 03:02
TPH-Motor Oil (C18-C36)	3100	500	2	11/17/2016 03:02

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
C9	112	72-117	11/17/2016 03:02
<u>Analyst(s):</u> TK		<u>Analytical Comments:</u> e7,e2,b1	



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/11/16	BatchID:	129693
Date Analyzed:	11/13/16	Extraction Method:	SW5030B
Instrument:	GC19	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129693 161158-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.579	0.40	0.60	-	97	89-118
MTBE	ND	0.0898	0.050	0.10	-	90	68-116
Benzene	ND	0.105	0.0050	0.10	-	105	85-118
Toluene	ND	0.108	0.0050	0.10	-	108	87-121
Ethylbenzene	ND	0.111	0.0050	0.10	-	111	91-124
Xylenes	ND	0.333	0.015	0.30	-	111	92-126
Surrogate Recovery							
2-Fluorotoluene	0.109	0.109		0.10	109	109	88-119

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		290	NR	NR	-	NR	
MTBE	NR	NR		ND<25	NR	NR	-	NR	
Benzene	NR	NR		ND<2.5	NR	NR	-	NR	
Toluene	NR	NR		6	NR	NR	-	NR	
Ethylbenzene	NR	NR		12	NR	NR	-	NR	
Xylenes	NR	NR		80	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/11/16
Date Analyzed: 11/14/16 - 11/15/16
Instrument: GC10, GC28
Matrix: Soil
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129717
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-129717
1611580-010AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0435	0.0050	0.050	-	87	53-116
Benzene	ND	0.0488	0.0050	0.050	-	98	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromo(chloromethane)	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0488	0.0050	0.050	-	98	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0444	0.0040	0.050	-	89	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0445	0.0040	0.050	-	89	58-135
1,1-Dichloroethene	ND	0.0498	0.0050	0.050	-	100	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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NELAP 4033ORELAP



QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/11/16	BatchID:	129717
Date Analyzed:	11/14/16 - 11/15/16	Extraction Method:	SW5030B
Instrument:	GC10, GC28	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129717 1611580-010AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0425	0.0050	0.050	-	85	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0452	0.0050	0.050	-	90	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0440	0.0050	0.050	-	88	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0527	0.0050	0.050	-	105	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0523	0.0050	0.050	-	105	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/11/16	BatchID:	129717
Date Analyzed:	11/14/16 - 11/15/16	Extraction Method:	SW5030B
Instrument:	GC10, GC28	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129717 1611580-010AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits		
Surrogate Recovery									
Dibromofluoromethane	0.122	0.135		0.12	97	108	70-130		
Toluene-d8	0.147	0.148		0.12	117	119	70-130		
4-BFB	0.0144	0.0137		0.012	115	110	70-130		
Benzene-d6	0.0964	0.0973		0.10	96	97	60-140		
Ethylbenzene-d10	0.122	0.112		0.10	122	112	60-140		
1,2-DCB-d4	0.0902	0.0896		0.10	90	90	60-140		
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0416	0.0421	0.050	ND	83	84	53-116	1.29	20
Benzene	0.0452	0.0459	0.050	ND	90	92	63-137	1.53	20
t-Butyl alcohol (TBA)	0.164	0.161	0.20	ND	82	80	41-135	2.39	20
Chlorobenzene	0.0453	0.0460	0.050	ND	91	92	77-121	1.50	20
1,2-Dibromoethane (EDB)	0.0416	0.0425	0.050	ND	83	85	67-119	1.97	20
1,2-Dichloroethane (1,2-DCA)	0.0415	0.0421	0.050	ND	83	84	58-135	1.45	20
1,1-Dichloroethene	0.0462	0.0458	0.050	ND	92	92	42-145	0	20
Diisopropyl ether (DIPE)	0.0394	0.0401	0.050	ND	79	80	52-129	1.76	20
Ethyl tert-butyl ether (ETBE)	0.0422	0.0430	0.050	ND	84	86	53-125	1.87	20
Methyl-t-butyl ether (MTBE)	0.0414	0.0422	0.050	ND	83	84	58-122	2.11	20
Toluene	0.0482	0.0498	0.050	ND	92	95	76-130	3.13	20
Trichloroethylene	0.0483	0.0492	0.050	ND	97	98	72-132	1.75	20
Surrogate Recovery									
Dibromofluoromethane	0.135	0.136	0.12		108	109	70-130	0.369	20
Toluene-d8	0.144	0.145	0.12		115	116	70-130	0.261	20
4-BFB	0.0136	0.0139	0.012		109	111	70-130	2.35	20
Benzene-d6	0.0901	0.0899	0.10		90	90	60-140	0	20
Ethylbenzene-d10	0.103	0.103	0.10		103	103	60-140	0	20
1,2-DCB-d4	0.0868	0.0875	0.10		87	88	60-140	0.789	20

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QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/14/16
Date Analyzed: 11/14/16
Instrument: GC10
Matrix: Soil
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129734
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-129734
1611588-044AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0431	0.0050	0.050	-	86	53-116
Benzene	ND	0.0488	0.0050	0.050	-	98	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.161	0.050	0.20	-	80	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0490	0.0050	0.050	-	98	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0448	0.0040	0.050	-	90	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0432	0.0040	0.050	-	86	58-135
1,1-Dichloroethene	ND	0.0508	0.0050	0.050	-	102	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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NELAP 4033ORELAP



QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/14/16	BatchID:	129734
Date Analyzed:	11/14/16	Extraction Method:	SW5030B
Instrument:	GC10	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129734 1611588-044AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0412	0.0050	0.050	-	82	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0435	0.0050	0.050	-	87	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0433	0.0050	0.050	-	87	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0521	0.0050	0.050	-	104	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0526	0.0050	0.050	-	105	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/14/16	BatchID:	129734
Date Analyzed:	11/14/16	Extraction Method:	SW5030B
Instrument:	GC10	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129734 1611588-044AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.133	0.132		0.12	106	106	70-130
Toluene-d8	0.143	0.148		0.12	114	119	70-130
4-BFB	0.0128	0.0142		0.012	102	114	70-130
Benzene-d6	0.0877	0.107		0.10	88	107	60-140
Ethylbenzene-d10	0.0984	0.121		0.10	98	121	60-140
1,2-DCB-d4	0.0886	0.0945		0.10	89	94	60-140
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits
tert-Amyl methyl ether (TAME)	0.0406	0.0410	0.050	ND	81	82	53-116
Benzene	0.0451	0.0448	0.050	ND	90	90	63-137
t-Butyl alcohol (TBA)	0.146	0.154	0.20	ND	73	77	41-135
Chlorobenzene	0.0459	0.0448	0.050	ND	92	90	77-121
1,2-Dibromoethane (EDB)	0.0418	0.0417	0.050	ND	84	83	67-119
1,2-Dichloroethane (1,2-DCA)	0.0404	0.0401	0.050	ND	81	80	58-135
1,1-Dichloroethylene	0.0461	0.0456	0.050	ND	92	91	42-145
Diisopropyl ether (DIPE)	0.0379	0.0382	0.050	ND	76	76	52-129
Ethyl tert-butyl ether (ETBE)	0.0408	0.0410	0.050	ND	82	82	53-125
Methyl-t-butyl ether (MTBE)	0.0399	0.0401	0.050	ND	80	80	58-122
Toluene	0.0472	0.0469	0.050	ND	94	94	76-130
Trichloroethylene	0.0490	0.0480	0.050	ND	98	96	72-132
Surrogate Recovery							
Dibromofluoromethane	0.133	0.134	0.12		106	107	70-130
Toluene-d8	0.146	0.146	0.12		117	117	70-130
4-BFB	0.0142	0.0141	0.012		114	113	70-130
Benzene-d6	0.0983	0.0947	0.10		98	95	60-140
Ethylbenzene-d10	0.109	0.107	0.10		109	107	60-140
1,2-DCB-d4	0.0890	0.0889	0.10		89	89	60-140

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NELAP 4033ORELAP



QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/14/16	BatchID:	129753
Date Analyzed:	11/15/16	Extraction Method:	SW5030B
Instrument:	GC19	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129753 1611602-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.574	0.40	0.60	-	96	89-118
MTBE	ND	0.0871	0.050	0.10	-	87	68-116
Benzene	ND	0.102	0.0050	0.10	-	102	85-118
Toluene	ND	0.104	0.0050	0.10	-	104	87-121
Ethylbenzene	ND	0.106	0.0050	0.10	-	106	91-124
Xylenes	ND	0.317	0.015	0.30	-	106	92-126

Surrogate Recovery

2-Fluorotoluene	0.116	0.107	0.10	116	107	88-119
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.539	0.563	0.60	ND	90	94	66-122	4.29	20
MTBE	0.0825	0.0860	0.10	ND	82	86	58-106	4.21	20
Benzene	0.0956	0.0989	0.10	ND	96	99	63-116	3.38	20
Toluene	0.0985	0.102	0.10	ND	99	101	66-118	2.91	20
Ethylbenzene	0.101	0.104	0.10	ND	101	104	69-121	3.23	20
Xylenes	0.304	0.316	0.30	ND	101	105	70-125	3.81	20

Surrogate Recovery

2-Fluorotoluene	0.102	0.104	0.10	102	104	69-117	1.63	20
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NELAP 4033ORELAP



QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/16/16 - 11/17/16	BatchID:	129928
Date Analyzed:	11/16/16 - 11/17/16	Extraction Method:	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	µg/L
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129928 1611584-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	54.4	40	60	-	91	85-112
MTBE	ND	10.2	5.0	10	-	102	74-127
Benzene	ND	10.3	0.50	10	-	103	81-124
Toluene	ND	10.7	0.50	10	-	107	79-131
Ethylbenzene	ND	10.9	0.50	10	-	109	86-127
Xylenes	ND	34.4	1.5	30	-	115	87-133
Surrogate Recovery							
aaa-TFT	11.0	10.7		10	110	107	87-117

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.0	58.9	60	ND	102	98	85-113	3.62	20
MTBE	9.38	9.09	10	ND	94	91	73-120	3.22	20
Benzene	10.4	10.8	10	ND	104	108	84-121	3.98	20
Toluene	10.8	11.3	10	ND	109	113	86-125	4.24	20
Ethylbenzene	11.2	11.6	10	ND	112	116	93-124	3.98	20
Xylenes	35.4	35.8	30	ND	118	119	93-130	1.04	20
Surrogate Recovery									
aaa-TFT	10.6	10.8	10		106	108	89-115	2.10	20



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/14/16
Date Analyzed: 11/14/16
Instrument: GC16
Matrix: Water
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129798
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-129798
1611569-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	9.66	0.50	10	-	97	54-140
Benzene	ND	10.2	0.50	10	-	102	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromo(chloromethane)	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	36.5	2.0	40	-	91	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	8.87	0.50	10	-	89	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	8.73	0.50	10	-	87	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.68	0.50	10	-	97	66-125
1,1-Dichloroethene	ND	9.90	0.50	10	-	99	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/14/16	BatchID:	129798
Date Analyzed:	11/14/16	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Water	Unit:	µg/L
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129798 1611569-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.76	0.50	10	-	98	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	10.1	0.50	10	-	101	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.66	0.50	10	-	97	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	8.60	0.50	10	-	86	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	9.17	0.50	10	-	92	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

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QA/QC Officer



Quality Control Report

Client:	Applied Water Resources	WorkOrder:	1611584
Date Prepared:	11/14/16	BatchID:	129798
Date Analyzed:	11/14/16	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Water	Unit:	µg/L
Project:	25673 Nickle Place	Sample ID:	MB/LCS-129798 1611569-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits		
Surrogate Recovery									
Dibromofluoromethane	28.2	28.6		25	113	115	70-130		
Toluene-d8	25.2	25.0		25	101	100	70-130		
4-BFB	2.42	2.91		2.5	97	117	70-130		
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	9.88	10.1	10	ND	99	101	69-139	2.28	20
Benzene	10.4	10.2	10	ND	104	102	69-141	2.15	20
t-Butyl alcohol (TBA)	37.6	40.1	40	ND	89	95	41-152	6.32	20
Chlorobenzene	8.71	8.50	10	ND	87	85	77-120	2.44	20
1,2-Dibromoethane (EDB)	8.84	8.98	10	ND	88	90	76-135	1.47	20
1,2-Dichloroethane (1,2-DCA)	9.45	9.91	10	ND	94	99	73-139	4.79	20
1,1-Dichloroethene	10.2	10.3	10	ND	98	99	59-140	0.614	20
Diisopropyl ether (DIPE)	9.99	10.0	10	ND	100	100	72-140	0	20
Ethyl tert-butyl ether (ETBE)	10.2	10.4	10	ND	102	104	71-140	1.95	20
Methyl-t-butyl ether (MTBE)	9.94	10.2	10	ND	99	102	73-139	2.91	20
Toluene	8.45	8.21	10	ND	84	82	71-128	2.84	20
Trichloroethene	8.81	8.71	10	ND	88	87	64-132	1.16	20
Surrogate Recovery									
Dibromofluoromethane	28.8	28.8	25		115	115	73-131	0	20
Toluene-d8	24.9	24.8	25		100	99	72-117	0.500	20
4-BFB	2.62	2.50	2.5		105	100	74-116	4.61	20



Quality Control Report

Client: Applied Water Resources **WorkOrder:** 1611584
Date Prepared: 11/14/16 **BatchID:** 129810
Date Analyzed: 11/14/16 **Extraction Method:** ASTM D 1946-90
Instrument: GC26 **Analytical Method:** ASTM D 1946-90
Matrix: Soilgas **Unit:** %
Project: 25673 Nickle Place **Sample ID:** MB/LCS-129810

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0764	0.025	0.10	-	76	60-140

 QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/14/16 - 11/15/16
Date Analyzed: 11/14/16 - 11/15/16
Instrument: GC29
Matrix: SoilGas
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129877
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$
Sample ID: MB/LCS-129877

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	61.4	30	60	-	102	60-140
Acrolein	ND	62.1	2.9	58.25	-	107	60-140
Acrylonitrile	ND	63.0	0.55	55	-	115	60-140
tert-Amyl methyl ether (TAME)	ND	94.8	1.0	105	-	90	60-140
Benzene	ND	75.0	0.80	80	-	94	60-140
Benzyl chloride	ND	121	1.3	132.5	-	91	60-140
Bromodichloromethane	ND	141	1.8	175	-	80	60-140
Bromoform	ND	312	2.6	262.5	-	119	60-140
Bromomethane	ND	102	1.0	97.5	-	105	60-140
1,3-Butadiene	ND	60.2	0.55	55	-	110	60-140
2-Butanone (MEK)	ND	81.3	38	75	-	108	60-140
t-Butyl alcohol (TBA)	ND	79.3	16	77.5	-	102	60-140
Carbon Disulfide	ND	89.1	0.80	80	-	111	60-140
Carbon Tetrachloride	ND	140	1.6	160	-	87	60-140
Chlorobenzene	ND	124	1.2	117.5	-	105	60-140
Chloroethane	ND	71.4	0.65	67.5	-	106	60-140
Chloroform	ND	119	1.2	122.5	-	97	60-140
Chloromethane	ND	62.0	0.50	52.5	-	118	60-140
Cyclohexane	ND	91.6	9.0	87.5	-	105	60-140
Dibromochloromethane	ND	201	2.2	217.5	-	92	60-140
1,2-Dibromo-3-chloropropane	ND	242	0.060	245	-	99	60-140
1,2-Dibromoethane (EDB)	ND	161	2.0	195	-	83	60-140
1,2-Dichlorobenzene	ND	158	1.5	152.5	-	104	60-140
1,3-Dichlorobenzene	ND	158	1.5	152.5	-	104	60-140
1,4-Dichlorobenzene	ND	156	1.5	152.5	-	103	60-140
Dichlorodifluoromethane	ND	131	1.2	125	-	105	60-140
1,1-Dichloroethane	ND	108	1.0	102.5	-	105	60-140
1,2-Dichloroethane (1,2-DCA)	ND	96.5	1.0	102.5	-	94	60-140
1,1-Dichloroethene	ND	96.8	1.0	100	-	97	60-140
cis-1,2-Dichloroethene	ND	104	1.0	100	-	104	60-140
trans-1,2-Dichloroethene	ND	106	1.0	100	-	106	60-140
1,2-Dichloropropane	ND	99.9	1.2	117.5	-	85	60-140
cis-1,3-Dichloropropene	ND	102	1.2	115	-	89	60-140
trans-1,3-Dichloropropene	ND	100	1.2	115	-	87	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	202	1.8	177.5	-	114	60-140
Diisopropyl ether (DIPE)	ND	120	1.0	105	-	114	60-140
1,4-Dioxane	ND	93.6	0.90	92.5	-	101	60-140

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 QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/14/16 - 11/15/16
Date Analyzed: 11/14/16 - 11/15/16
Instrument: GC29
Matrix: SoilGas
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129877
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$
Sample ID: MB/LCS-129877

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	39.1	48	47.5	-	82	60-140
Ethyl acetate	ND	99.5	0.90	92.5	-	108	60-140
Ethyl tert-butyl ether (ETBE)	ND	113	1.0	105	-	107	60-140
Ethylbenzene	ND	116	1.1	110	-	105	60-140
4-Ethyltoluene	ND	136	1.2	125	-	109	60-140
Freon 113	ND	201	2.0	195	-	103	60-140
Heptane	ND	98.0	10	105	-	93	60-140
Hexachlorobutadiene	ND	307	2.7	270	-	114	60-140
Hexane	ND	98.7	9.0	90	-	110	60-140
2-Hexanone	ND	88.8	1.0	105	-	85	60-140
Isopropyl Alcohol	ND	65.2	25	62.5	-	104	60-140
4-Methyl-2-pentanone (MIBK)	ND	96.2	1.0	105	-	92	60-140
Methyl-t-butyl ether (MTBE)	ND	95.4	0.90	92.5	-	103	60-140
Methylene chloride	ND	90.7	4.4	87.5	-	104	60-140
Methyl methacrylate	ND	94.9	1.0	104	-	91	60-140
Naphthalene	ND	279	2.6	265	-	105	60-140
Propene	ND	42.5	44	42.5	-	100	60-140
Styrene	ND	114	1.1	107.5	-	106	60-140
1,1,1,2-Tetrachloroethane	ND	184	1.8	175	-	105	60-140
1,1,2,2-Tetrachloroethane	ND	180	1.8	175	-	103	60-140
Tetrachloroethene	ND	154	1.7	172	-	89	60-140
Tetrahydrofuran	ND	78.9	1.5	75	-	105	60-140
Toluene	ND	83.2	0.95	95	-	88	60-140
1,2,4-Trichlorobenzene	ND	214	1.9	187.5	-	114	60-140
1,1,1-Trichloroethane	ND	120	1.4	137.5	-	87	60-140
1,1,2-Trichloroethane	ND	118	1.4	137.5	-	86	60-140
Trichloroethene	ND	119	1.4	137.5	-	86	60-140
Trichlorofluoromethane	ND	147	1.4	142.5	-	103	60-140
1,2,4-Trimethylbenzene	ND	135	1.2	125	-	108	60-140
1,3,5-Trimethylbenzene	ND	144	1.2	125	-	115	60-140
Vinyl Acetate	ND	93.8	9.0	90	-	104	60-140
Vinyl Chloride	ND	68.6	0.65	65	-	105	60-140
Xylenes, Total	ND	353	3.3	330	-	107	60-140

(Cont.)

 QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/14/16 - 11/15/16
Date Analyzed: 11/14/16 - 11/15/16
Instrument: GC29
Matrix: SoilGas
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129877
Extraction Method: TO15
Analytical Method: TO15
Unit: $\mu\text{g}/\text{m}^3$
Sample ID: MB/LCS-129877

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
1,2-DCA-d4	514	514		500	103	103	70-130
Toluene-d8	461	439		500	92	88	70-130
4-BFB	501	497		500	100	99	70-130

 QA/QC Officer



Quality Control Report

Client: Applied Water Resources **WorkOrder:** 1611584
Date Prepared: 11/10/16 **BatchID:** 129666
Date Analyzed: 11/11/16 **Extraction Method:** SW3550B
Instrument: GC9b **Analytical Method:** SW8015B
Matrix: Soil **Unit:** mg/Kg
Project: 25673 Nickle Place **Sample ID:** MB/LCS-129666
1611355-002AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.8	1.0	40	-	99	91-127
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-

Surrogate Recovery

C26	22.1	-		25	88	-	-
-----	------	---	--	----	----	---	---

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		1800	NR	NR	-	NR	

(Cont.)

NELAP 4033ORELAP

S.H. QA/QC Officer



Quality Control Report

Client: Applied Water Resources
Date Prepared: 11/11/16
Date Analyzed: 11/14/16
Instrument: GC9b
Matrix: Soil
Project: 25673 Nickle Place

WorkOrder: 1611584
BatchID: 129719
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-129719
1611584-007AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.7	1.0	40	-	94	91-127
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-

Surrogate Recovery

C9 21.2 21.5 25 85 86 74-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	37.3	37.7	40	1.713	89	90	74-143	1.10	30

(Cont.)

NELAP 4033ORELAP

S.H. QA/QC Officer



Quality Control Report

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.3	1.0	40	-	108	91-127
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	21.7	21.7		25	87	87	74-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	62.4	70.2	40	23.03	98	118	74-143	11.8	30



Quality Control Report

Client: Applied Water Resources **WorkOrder:** 1611584
Date Prepared: 11/11/16 **BatchID:** 129714
Date Analyzed: 11/14/16 **Extraction Method:** SW3510C
Instrument: GC9b **Analytical Method:** SW8015B
Matrix: Water **Unit:** µg/L
Project: 25673 Nickle Place **Sample ID:** MB/LCS/LCSD-129714

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	542		625	87	74-107
Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC
TPH-Diesel (C10-C23)	1300	1070	1000	129	107
Surrogate Recovery					
C9	537	536	625	86	86
				95-136	74-107
				18.8	0
				30	30

McCampbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1611584

ClientCode: AWRS

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Report to:

Janelle Amendola
Applied Water Resources
1046 W. Taylor Street, Ste. 209
San Jose, CA 95051-1333
(408) 496-0801 FAX:

Email: jamendola@awrcorp.net
cc/3rd Party: kprice@awrcorp.net;
PO:
ProjectNo: 25673 Nickle Place

Bill to:

Candy Curtis
Applied Water Resources
2363 Mariner Square Drive, Ste. 245
Alameda, CA 94501
ccurtis@awrcorp.net

Requested TAT: **5 days;**

Date Received: **11/11/2016**
Date Logged: **11/11/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1611584-001	SB-1 @ 2'	Soil	11/10/2016 09:48	<input type="checkbox"/>	A		A					A					
1611584-002	SB-1 @ 4'	Soil	11/10/2016 09:49	<input type="checkbox"/>	A		A					A					
1611584-003	SB-1 GW	Water	11/10/2016 10:45	<input type="checkbox"/>		C		A					B				
1611584-004	SB-2 @ 2'	Soil	11/10/2016 11:40	<input type="checkbox"/>	A		A					A					
1611584-005	SB-2 @ 4	Soil	11/10/2016 11:42	<input type="checkbox"/>	A		A					A					
1611584-006	SB-2 GW	Water	11/10/2016 11:59	<input type="checkbox"/>		C		A					B				
1611584-007	SB-3 @ 2'	Soil	11/10/2016 12:18	<input type="checkbox"/>	A		A					A					
1611584-008	SB-3 @ 4'	Soil	11/10/2016 12:20	<input type="checkbox"/>	A		A					A					
1611584-009	SV-1 @ 5'	SoilGas	11/10/2016 13:15	<input type="checkbox"/>						A	A	A					

Test Legend:

1	8260B_S
5	HELIUM_LC_SOILGAS(%)
9	TPH(DMO)_W

2	8260B_W
6	TO15_Scan-SIM_SOIL(UG/M3)
10	

3	G-MBTEX_S
7	TO15-8260_SOIL(UG/M3)
11	

4	G-MBTEX_W
8	TPH(DMO)_S
12	

Prepared by: Alexandra Iniguez

The following SampID: 009A contains testgroup TO15He SG(UG/M3).

Comments: Samples 004 & 005 taken off hold 11/14/16

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: APPLIED WATER RESOURCES

Project: 25673 Nickle Place

Work Order: 1611584

Client Contact: Janelle Amendola

QC Level: LEVEL 2

Contact's Email: jamendola@awrcorp.net

Comments:

Date Logged: 11/11/2016

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611584-001A	SB-1 @ 2'	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	11/10/2016 9:48	5 days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>					
			SW8260B (VOCs)			<input type="checkbox"/>					
1611584-002A	SB-1 @ 4'	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	11/10/2016 9:49	5 days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>					
			SW8260B (VOCs)			<input type="checkbox"/>					
1611584-003A	SB-1 GW	Water	SW8021B/8015Bm (G/MBTEX)	1	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 10:45	5 days	30%+	<input type="checkbox"/>	<input type="checkbox"/>
				2	ILA	<input type="checkbox"/>			30%+	<input type="checkbox"/>	
1611584-003B	SB-1 GW	Water	SW8015B (Diesel & Motor Oil)	1	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 10:45	5 days	30%+	<input type="checkbox"/>	
1611584-003C	SB-1 GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 10:45	5 days	30%+	<input type="checkbox"/>	
1611584-004A	SB-2 @ 2'	Soil		1	Acetate Liner	<input type="checkbox"/>	11/10/2016 11:40		<input checked="" type="checkbox"/>		
1611584-005A	SB-2 @ 4	Soil		1	Acetate Liner	<input type="checkbox"/>	11/10/2016 11:42		<input checked="" type="checkbox"/>		
1611584-006A	SB-2 GW	Water	SW8021B/8015Bm (G/MBTEX)	1	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 11:59	5 days	20%+	<input type="checkbox"/>	<input type="checkbox"/>
				2	ILA	<input type="checkbox"/>			20%+	<input type="checkbox"/>	
1611584-006B	SB-2 GW	Water	SW8015B (Diesel & Motor Oil)	1	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 11:59	5 days	20%+	<input type="checkbox"/>	
1611584-006C	SB-2 GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	11/10/2016 11:59	5 days	20%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: APPLIED WATER RESOURCES

Project: 25673 Nickle Place

Work Order: 1611584

Client Contact: Janelle Amendola

QC Level: LEVEL 2

Contact's Email: jamendola@awrcorp.net

Comments:

Date Logged: 11/11/2016

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611584-007A	SB-3 @ 2'	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	11/10/2016 12:18	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1611584-008A	SB-3 @ 4'	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	11/10/2016 12:20	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1611584-009A	SV-1 @ 5'	SoilGas	TO15 w/ Helium	1	1L Summa	<input type="checkbox"/>	11/10/2016 13:15	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701

Telephone: (877) 252-9262 / Fax: (925) 252-9269

www.mccampbell.com

main@mccampbell.com

Report To: J. Amendolia / K. PriceBill To: AWRCompany: Applied Water ResourcesEmail: j.amendolia@awrcorp.netAlt Email: kprice@awrcon.net Tele:Project Name#: 25673 Nickel PlaceProject Location: 25673 Nickel Place PO #Sampler Signature: Dale M

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative
	Date	Time			
SB-1 @ 2'	11/10/14	9:48	1	S	X X
SB-1 @ 4'	11/10/14	9:49	1	S	X X
SB-1 GW	11/10/14	10:45	6	W	X X
SB-2 @ 2'	11/10/14	11:40	1	S	X X X
SB-2 @ 4'	11/10/14	11:42	1	S	X X X
SB-2 GW	11/10/14	11:59	6	W	X X
SB-3 @ 2'	11/10/14	12:18	1	S	X X
SB-3 @ 4'	11/10/14	12:20	1	S	X
SV-1 @ 5'	11/10/14	13:15	1	Air	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Comments / Instructions
<u>Dale M</u>	11/11/14	1700	<u>B. Price</u>	11/11/14	1700	SU-1 @ 5' used Helium Shroud for leak detection
<u>B. Price</u>	11/11/14	1700	<u>J. Amendolia</u>	11/11	1700	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

THE SAMPLES WERE RECEIVED UNLABELED.

Page ____ of ____



Sample Receipt Checklist

Client Name:	Applied Water Resources	Date and Time Received	11/11/2016 17:00
Project Name:	25673 Nickle Place	Date Logged:	11/11/2016
WorkOrder No:	1611584	Received by:	Agustina Venegas
Carrier:	Benjamin Yslas (MAI Courier)	Logged by:	Alexandra Iniguez

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/coolier?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/coolier in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample/Temp Blank temperature		Temp:	NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/04/2016 By jamesy

Permit Numbers: W2016-0782
Permits Valid from 11/10/2016 to 11/10/2016

Application Id:	1477422992634	City of Project Site:	Hayward
Site Location:	25673 Nickel Place, Hayward, CA	Completion Date:	11/10/2016
Project Start Date:	11/10/2016		
Assigned Inspector:	Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org		
Applicant:	Applied Water Resources, Corp. - Kendall Price	Phone:	408-220-4876
	10460 West Taylor St., Ste. 209, San Jose, CA 95126		
Property Owner:	Steven Haig's Delicacies	Phone:	510-782-6285 x104
	25673 Nickel Place, Hayward, CA 94545		
Client:	Steven Haig's Delicacies	Phone:	510-782-6285 x104
	25673 Nickel Place, Hayward, CA 94545		
Contact:	Kendall Price	Phone:	408-220-4876
		Cell:	408-220-4876

Receipt Number: WR2016-0539	Total Due:	\$265.00
Payer Name : Kendall W. Price	Total Amount Paid:	\$265.00
	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 3 Boreholes

Driller: Enprobe - Lic #: 1012248 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0782	11/04/2016	02/08/2017	3	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
 7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
 8. **NOTE:**
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.
 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
-