



Walgreen Oshkosh, Inc.
304 Wilmot Road
Deerfield, IL 60015
P 847-527-4321
Walgreens.com

September 9, 2016

RECEIVED

By Alameda County Environmental Health 1:36 pm, Sep 14, 2016

Ms. Anne Jurek
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Submittal of Revised Work Plan for Walgreens Fuel Spill Site Investigation
Interstate 680 at Koopman Road
Sunol, Alameda County, California
Site Cleanup Case No. RO0003158

Dear Ms. Jurek:

On behalf of Walgreen Oshkosh, Inc. (Walgreens), Bureau Veritas North America, Inc. (BVNA) has prepared the attached technical report to comply with the email sent on August 2, 2016 by Ms. Anne Jurek, the Professional Technical Specialist II for Alameda County Department of Environmental Health, to provide a Revised Work Plan to further characterize the soil quality for residual petroleum hydrocarbons at the truck crash site and downgradient drainage for the diesel fuel spill that occurred on November 22, 2014.

"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document is true and correct to the best of my knowledge."

If you have any questions or concerns, please contact Chris Whitehurst at 530-406-7733.

Sincerely,

Sean Barbour
Vice President, Walgreen Oshkosh, Inc.

Enclosures

Cc:



September 7, 2016

Anne Jurek
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Project No. 33115-015204.00

Subject: Revised Work Plan for Walgreens Fuel Spill Site Investigation
Interstate 680 at Koopman Road
Sunol, Alameda County, California
Site Cleanup Case No. RO 0003158

Dear Ms. Jurek:

Bureau Veritas North America Inc. (BVNA) prepared this work plan on behalf of Walgreen Oshkosh, Inc. (Walgreens) to address the letter issued by Alameda County Environmental Health (ACEH), dated June 11, 2015 requesting a technical report to further investigate a diesel fuel spill that entered a storm water drainage west of the crash site. BVNA submitted a work plan to ACEH on April 4, 2016 for review. To address questions regarding the spill incident and remedial actions taken, ACEH requested a meeting to obtain additional information prior to initiation of the site investigation. The ACEH meeting held on July 28, 2016 was attended by representatives for ACEH, BVNA, Walgreens Regional Fleet Operations, and Clean Harbors Environmental Services. BVNA revised the work plan, which is attached and refocuses the site sampling program that addresses the ACEH email dated August 2, 2016 that summarizes the discussions from the July 28, 2016 meeting.

If you have any questions or concerns, please contact me at (925) 426-2679.

Sincerely,

Donald A. Ashton, PG, REPA
Senior Project Manager
Health, Safety and Environmental Services
Don.Ashton@us.bureauveritas.com

cc: Chris Whitehurst, Walgreens - Senior Manager Regional Fleet Operations
Edward Lee, Walgreens - Field Compliance Manager
William Ragsdale, Clean Harbors Environmental Services

Enclosures

Bureau Veritas North America, Inc.

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Revised Work Plan for Walgreens Diesel Spill Site Investigation

Truck Crash Site
Koopman Road and Interstate 680
Sunol, California

September 7, 2016
33115-015204.00

Prepared for
Clean Harbors Environmental Services
San Jose, California



For the benefit of business and people

Bureau Veritas North America, Inc.
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1.0 **INTRODUCTION**

Bureau Veritas North America, Inc. (BVNA) prepared a work plan: *Work Plan for Walgreens Fuel Spill Site Investigation, dated January 26, 2016*, on behalf of Walgreen Oshkosh, Inc. (Walgreens): which was reviewed by the client and submitted to Alameda County Environmental Health (ACEH) on April 6, 2016. The work plan was submitted to address the request for a technical report by ACEH in a letter dated June 11, 2015 (ACEH, 2015) to further characterize the release of diesel fuel from a Walgreens truck crash that occurred in Sunol, California on November 22, 2014. BVNA's work plan was based on the report: *Walgreens Diesel Spill Emergency Response and Cleanup Summary*, prepared by Clean Harbors Environmental Services, dated January 2015, that summarized the cleanup operations (CHES, 2015). ACEH reviewed the submitted work plan and requested a meeting to obtain additional information. A meeting was held at the ACEH office on July 28, 2016 and attended by representatives from Walgreens, CHES, and BVNA. BVNA prepared this revised work plan, which refocuses the site sampling program that addresses the ACEH email dated August 2, 2016 that summarizes the discussions from the July 28, 2016 meeting.

1.1 **BACKGROUND**

On November 22, 2014, a Walgreens semi-truck and trailer crashed during a rain event on the east side of Interstate 680 resulting in the release of an estimated 150 gallons of diesel fuel about 360 feet south of Koopman Road near a storm water concrete 'V' ditch. The ditch carried rain water and a portion of the fuel spilled to the north toward Koopman Road where it turned to the west and entered a concrete culvert that passes under the freeway and Pleasanton-Sunol Road. The culvert daylighted just west of Pleasanton-Sunol Road where it discharges to an unlined channel, which discharges to Arroyo de la Laguna, which flows to Alameda Creek and then to the San Francisco Bay. The total distance of the potentially impacted drainage route is approximately 1,200 feet from the crash site to Arroyo de la Laguna (the Arroyo).

BVNA reviewed precipitation records on Weather Underground (www.weatherunderground.com) for the general area prior to the day of the crash and for several days thereafter, to better understand the conditions at the time of the crash, during site cleanup and sample collection. The following table lists precipitation for the Livermore Municipal Airport (NOAA Station KLVK), an upgradient weather station. Recorded precipitation is as follows:

Date	Daily Precipitation Total (inches)	Total Precipitation Since 7-1-2014
11-19-2014	0.05	0.80
11-20-2014	0.39	1.19
11-21-2014	Trace	1.19



Date	Daily Precipitation Total (inches)	Total Precipitation Since 7-1-2014
11-22-2014 Spill Event	0.05	1.24
11-23-2014	0.00	1.24
11-24-2014	0.00	1.24
11-25-2014	0.00	1.24
11-29-2014	0.03	1.27
11-30-2014	0.44	1.71
12-1-2014 Sampling Event	0.05	1.76
12-2-2014	1.41	3.17
12-3-2014	1.28	4.45
12-4-2014	0.04	4.49

The above precipitation records indicate that a near significant rain event happened 2 days prior to the crash; however, the day before and the day of the crash there was only light rain fall. This indicates that runoff in the ditches impacted by the fuel release was likely very limited.

An emergency cleanup response was initiated within a few hours of the crash event (reported time 09:30 hours), with the CHES response team arriving at about 11:30 hours. Upon arrival at the site, CHES implemented measures to contain the fuel spill and fuel sheen on runoff in the drainage ditch. Three petroleum absorbing booms were placed across the distal portion of the drainage where it is unlined west of Pleasanton-Sunol Road, which reportedly kept any floating petroleum sheen from reaching the Arroyo. Statements that fuel sheen on runoff did not reach the Arroyo is consistent with the indicated limited rainfall, the time of day of the crash and emergency response action.

Cleanup operations began on the day of the crash and continued over the next three days. Cleanup operations consisted of removing fuel impacted soil at the crash site, which was reported to be an area of about 4 feet, by 2 feet by about 1.5 feet deep. The ditches and culverts were cleaned of vegetation debris and soil contained in the concrete lined sections that were impacted by fuel. The distal unlined portion of the creek between Pleasanton-Sunol Road and the Arroyo was cleaned by removing debris



and soil that lined the bottom of the drainage. Soil was reportedly removed for about 200 lineal feet along the unlined drainage to a depth of about 2 feet in an area that was about 15 feet wide near the terminus of the concrete lined drainage that narrowed to a width of about 2 feet wide as it neared the bank of the Arroyo.

The above precipitation records indicate that there was little to no rain during the period of cleanup (November 22 to 26, 2014). The CHES, 2014 report includes waste manifests that indicate that 12 drums of diesel impacted debris and soil were removed on November 24, 2014. An additional 31 drums of potentially fuel impacted soil were removed on November 26, 2014, and a 20 cubic yard bin reportedly containing debris, logs, leaves and other solids was removed on December 8, 2014 (CHES, 2014 and ACEH Inspection Notes for November 26, 2014).

The ACEH Inspection Notes on file in the public database for this Site Cleanup Case (#RO 0003158) indicate that the site was visited by ACEH staff (Ms. Barbara Jakub and Mr. Rob Weston) on November 26, 2014, four days after the crash and on the last day of site cleanup. Notes indicate that there was concern that the fuel spill might have reached the Arroyo and flowed to the Niles groundwater basin, a drinking water resource managed by Alameda County Water District (ACWD), estimated distance of 5.5 miles. Also, San Francisco Public Utilities Commission (SFPUC) owns the land where the drainage is unlined and enters the Arroyo. An un-named staff member for SFPUC reportedly was concerned that groundwater at an irrigation well about 100 feet south of the unlined drainage could be impacted (see Figure 2). The ACEH Inspection Notes indicate that the well is not used during the wet season and due to site cleanup, "it is unlikely that the well has been impacted."

Mr. Neil Fujita, a representative for SFPUC stated in an email on September 2, 2016 that he directed the sampling of soil in the distal portion of the unlined drainage and from the SFPUC well on the SFPUC property. Mr. Fujita provided BVNA with a copy of the Well Completion Report with a log of the well construction (Appendix A). The well log indicates that Arroyo Well #1 was installed in January 2014. The borehole is 20 inches in diameter, drilled to a total depth of 39 feet, with a well casing 9 inches in diameter. A surface seal of grout was placed from the surface to a depth of 23.5 feet and a bentonite clay seal was placed from 23.5 to 28 feet. The well casing is screened from 28 to 38 feet. The well surface completion has a raised concrete pad and extended well casing that is more than a foot above grade, which appears to be in compliance with production well regulations. Therefore, it seems very unlikely that the spill that occurred on November 22, 2014 could have impacted the well which was not in use at the time, was sampled on December 1, 2014 only 9 days later during a period of only light rain, and being located about 80 to 100 feet from the unlined drainage area. BVNA inquired if SFPUC had previously tested the well water for total petroleum hydrocarbons. Mr. Fujita indicated that no testing for petroleum hydrocarbons had been conducted; only general water quality testing had been conducted.

The CHES, 2014 report documents confirmation sampling of soil and groundwater in the area of the unlined drainage. On December 1, 2014, CHES collected duplicate soil samples from the base of the drainage that had recently been cleaned by soil removal (Soil Sample #1 and #2, two discrete samples) at the location at the west end of the unlined drainage near the bank of the Arroyo, and duplicate well water samples (Water Sample #1 and #2) from the nearby SFPUC well spigot. Figure 2 depicts the



sample locations on SFPUC property. The chain-of-custody (COC) documents that these samples were submitted to the Accutest Laboratory in San Jose within less than two hours of collection. The analytical program was by U.S. EPA SW846 and 8015B for total petroleum hydrocarbons as diesel ranged organics (DRO). This analytical procedure will report both polar and non-polar hydrocarbons within the diesel fuel range unless special sample preparation is requested using a silica-gel cleanup procedure that will remove polar compounds. Petroleum hydrocarbons as fuels are non-polar; therefore, if a sample includes significant biologic matter, the reported DRO concentration can be skewed high.

The DRO concentrations (C10 to C28) in Soil Samples #1 and #2 were reported at 283 and 505 milligrams per kilogram (mg/kg), respectively; and Water Sample #1 and #2 were reported at 0.349 and 0.135 milligrams per liter (mg/L), respectively. The soil and water results slightly exceeded the Environmental Screening Levels (ESLs) of 230 mg/kg and 0.100 mg/L, respectively, established by the Regional Water Control Board (2016). Laboratory quality control (QC) data indicates that the results for the water samples were within acceptable surrogate recovery limits; however, the two soil sample results were just under the upper acceptable surrogate recovery limit; therefore, the soil results are potentially skewed a bit high. Based on the 2014 analytical results of DRO in the confirmation samples, ACEH requested a work plan to further investigate and characterize the potential for diesel impacts to soil and groundwater to protect the nearby irrigation well and surface waters of Alameda Creek.

The diesel release occurred on November 22, 2014 and the confirmation sampling occurred on December 1, 2014, nine (9) days after the crash and after a significant rain event that occurred the day before sample collection that likely resulted in renewed runoff within the drainage. It should be noted that the drainage collects runoff from the adjoining roadways, other potential sources of DRO as well as from the area of the crash site.

BVNA obtained and reviewed the laboratory chromatograms for each of the 2014 sample results along with a standard diesel and motor oil chromatogram provided by the laboratory, which is presented in the Quantitation Report, Page 2; last page of Appendix B. Review of the standard chromatogram indicates that the diesel chromatogram and the motor oil ranged organics (ORO) curves both have typical bell shaped curves. However, the two soil sample chromatograms have a somewhat skewed petroleum hydrocarbon curve for the DRO concentrations and also a second and more pronounced skewed curve for ORO concentrations (see Appendix B: C37385 page 22 and C37385R page 22). Chromatograms for the two water samples (Appendix B: C37385 page 20 and C37385R page 20) show a suppressed curve significantly skewed toward the longer chained carbon compounds within the DRO limits, characteristic of aged and weathered DRO with little to no ORO concentrations. Therefore, the skewed signature of DRO compounds in the soil and water samples indicate that that the petroleum hydrocarbons reported in the samples are likely from other sources, likely aged and not due to the Walgreens release of fresh diesel fuel to the unlined drainage.

The finding of low concentrations of DRO compounds in confirmation soil samples is not unexpected due to the long term existence of the nearby and upgradient 680 Freeway and Pleasanton-Sunol Road with constructed drainage ditches that collect runoff from these roadways and discharge that runoff through the unlined drainage, then to the Arroyo. Discharges to the unlined drainage and nearby areas



from these roadways over time have the potential to impact shallow groundwater over time. Roadways are common non-point discharge sources for motor vehicle fluids, fuels and oils that occur over time and migrate in storm water runoff.

BVNA learned that another truck crash occurred on December 10, 2015 when a street sweeper truck veered off of the highway and crashed in essentially at the same location as the 2014 Walgreen truck crash. It is likely that numerous other vehicle fluid releases have occurred in the vicinity over the decades that these roadways have been in existence.

2.0 SCOPE OF WORK

The proposed and revised scope of work includes the following steps:

- Based on recent communications with Mr. Fujita, access to SFPUC property can be arranged without special authorization if escorted onto the property for a limited surficial soil sampling. Therefore, BVNA's scope of work assumes that a site visit can be scheduled at a mutually agreeable time with SFPUC to conduct the scope of work outlined below.
- BVNA also made phone contact with a Cal Trans representative who stated that no encroachment permit or special authorization would be required to access the truck crash site provided that the site could be accessed by foot without entering the adjoining freeway. Therefore, this scope of work assumes that the crash site can be readily accessed by foot from Koopman Road and that the sampling program outlined below can be completed in a safe manner.
- BVNA will schedule a site visit for surficial soil sampling using hand sampling equipment. Soil sampling will be conducted at two locations (see Figure 2). The first location is the crash site where soil cleanup occurred. ACEH Inspection Notes include photographs of the crash site and the area of soil remediation. Therefore, providing the crash site can be located, BVNA will collect discrete soil samples using hand sampling equipment at the depth of 6 inches bgs and at 2 feet bgs at the crash site. BVNA will attempt to collect soil samples from the second location, which is the same location in the unlined drainage near the Arroyo where CHES collected Soil Samples #1 and #2 in 2014. BVNA will rely on being escorted by Mr Fujita and that Mr Fujita can locate the same sample location where soil samples were collected on December 1, 2014. If the prior sample location can not be determined, BVNA will select a sample location within the bottom of the indicated unlined drainage where discrete soil samples can be collected at the depth of 6 inches and 2 feet bgs.

2.1 LABORATORY ANALYSIS II

BVNA proposes to submit up to a total of four (4) soil samples to a State-certified laboratory for chemical analysis by the following United States Environmental Protection Agency (USEPA) Methods:

- Total Petroleum Hydrocarbons (TPH) as diesel range organics (DRO) by Method 8015B – The four samples will be prepared both with and without silica gel cleanup (SGC) in order to evaluate whether the analytical results include both polar and non-polar molecules.



3.0 REPORTING II

Upon project completion of the field activities and receipt of the laboratory analyses, BVNA will prepare a written electronic report summarizing the findings of work performed. The report will include a summary of investigative methodologies, analytical results, findings, and conclusions. In addition, tables will be provided summarizing analytical results, as well as figures showing the sample locations. Appendices will also be provided, which will include certified analytical reports.

4.0 SCHEDULE

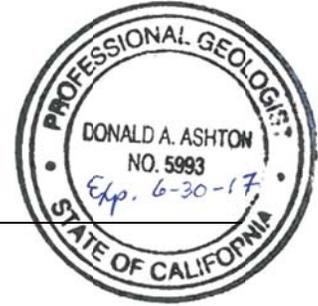
Upon ACEH approval of this work plan, BVNA will attempt to schedule an escort for site access to the SFPUC property unlined drainage area. Upon scheduling SFPUC property access, BVNA anticipates that surficial soil sampling can be completed in one site visit. Samples results should be available within 7 to 10 days of sample collection. It is anticipated that an electronic copy of our report will be submitted to the ACEH ftp database within 10 to 15 days of receipt of the final analytical results, allowing for client review of the final report.

4.1 ASSUMPTIONS

Any unexpected conditions or concerns that become apparent during the project, such as deviation from the assumptions outlined herein, may require a revision in the project scope, schedule, and fees. This proposed scope of work assumes the following:

- 1) Access to the drainage area and crash site can be obtained without significant restriction;
- 2) BVNA can perform the fieldwork activities within one business field day;
- 3) Site conditions allow for completion of the proposed surficial soil sampling using hand sampling equipment; and
- 4) Laboratory analysis can be completed within 7 to 10 days;

BVNA appreciates the opportunity to submit this work plan to ACEH on behalf of Walgreens and looks forward to working with you on this project. If you have any questions or comments regarding the information provided herein, please do not hesitate to contact us.



This report prepared by:

Donald A. Ashton, P.G., REPA
Senior Geologist
Health, Safety & Environmental Services

This report reviewed by:

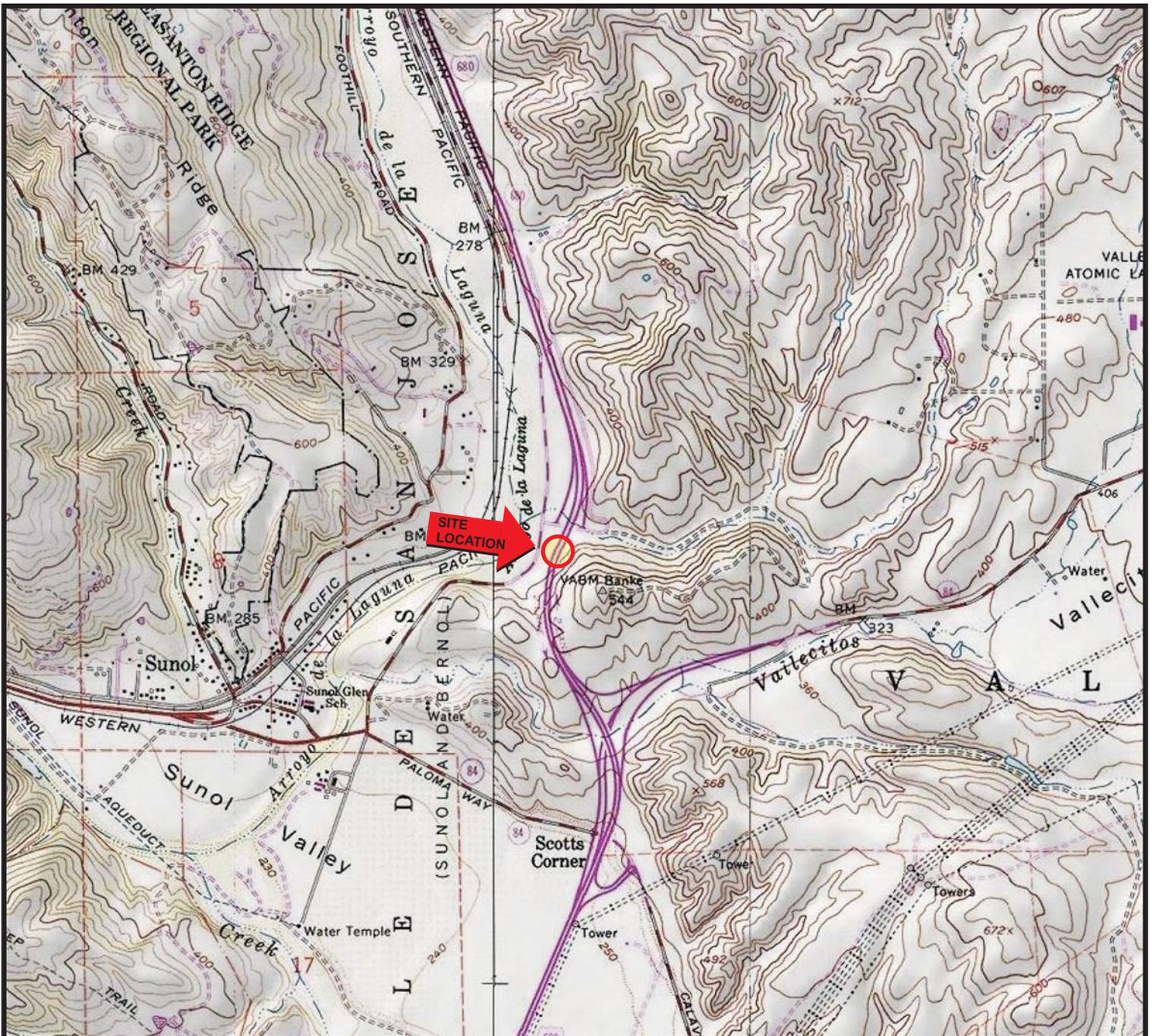
Mark Williams, P.G.
Senior Project Manager
Health, Safety, and Environmental Services

September 7, 2016

Project No. 33115-015204.00

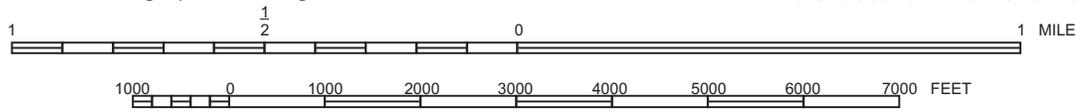


FIGURES



Source: TOPO! © 2000 National Geographic Holdings

Note: Location Information is Approximate



Portion of the 7.5-Minute Series La Costa Valley, California
 Quadrangle Topographic Map (Datum: NAD 83)
 United States Department of the Interior
 Geological Survey
 1996



QUADRANGLE LOCATION

SUBJECT PROPERTY LOCATION

Koopman Road & I 680
 Sunol, California

Project No. 33115-015204.00

FIGURE

1



**BUREAU
 VERITAS**



WALGREENS SUNOL SPILL SITE
 Koopman Road & I 680
 Sunol, California
 Project No. 33115-015204.00

FIGURE
 2





APPENDIX A

WELL COMPLETION REPORT – SFPUC ARROYO WELL #1

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet
No. XXXXXXXX

Page 1 of 1
 Owner's Well Number Arroyo Well #1
 Date Work Began 01/21/14 Date Work Ended 01/25/14
 Local Permit Agency Zone 7 Water Agency
 Permit Number 2013139 Permit Date 11/21/13

DWR Use Only - Do Not Fill In	
State Well Number/Site Number	
Latitude	Longitude
APN/TRS/Other	

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method _____ Drilling Fluid _____		
Depth from Surface		Description
Feet to Feet		Describe material, grain size, color, etc.
0	05'	Brown Sand w/silt
5	12'	Grey Sand and Gravel with some clay
12	25	light Brown Sand with gravel
23'		water showing on Auger
25	35	Grey Rock & River gravel with sand
38	38	Dark grey siltstone
37.5	38	" " "
38	39	Dark grey silty claystone
Total Depth of Boring <u>39</u> Feet		
Total Depth of Completed Well <u>39</u> Feet		

Well Owner	
Name	<u>S.F.P.U.C</u>
Mailing Address	<u>525 Golden Gate Ave</u>
City	<u>San Francisco</u> State <u>CA</u> Zip <u>94102</u>

Well Location	
Address	<u>West of I-80 Sunol blvd exit</u>
City	<u>Sunol CA</u> County <u>Alameda</u>
Latitude	Dec. Min. Sec. N Longitude Dec. Min. Sec. W
Datum	Dec. Lat. Dec. Long.
APN Book	<u>096</u> Page <u>0375</u> Parcel <u>006-11</u>
Township	Range Section



Activity	
<input checked="" type="radio"/> New Well	
<input type="radio"/> Modification/Repair	<input type="radio"/> Deepen <input type="radio"/> Other
<input type="radio"/> Destroy	Describe procedures and materials under "GEOLOGIC LOG"
Planned Uses	
<input type="radio"/> Water Supply	<input type="checkbox"/> Domestic <input type="checkbox"/> Public
<input checked="" type="checkbox"/> Irrigation	<input type="checkbox"/> Industrial
<input type="radio"/> Cathodic Protection	<input type="radio"/> Dewatering
<input type="radio"/> Heat Exchange	<input type="radio"/> Injection
<input type="radio"/> Monitoring	<input type="radio"/> Remediation
<input type="radio"/> Sparging	<input type="radio"/> Test Well
<input type="radio"/> Vapor Extraction	<input type="radio"/> Other

Water Level and Yield of Completed Well	
Depth to first water	<u>23'</u> (Feet below surface)
Depth to Static	
Water Level	<u>21.5</u> (Feet) Date Measured <u>6/16/14</u>
Estimated Yield *	<u>35</u> (GPM) Test Type <u>Pump</u>
Test Length	<u>4 hrs</u> (Hours) Total Drawdown <u>.5</u> (Feet)
*May not be representative of a well's long term yield.	

Casings							
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any
Feet to Feet	(Inches)			(Inches)	(Inches)		(Inches)
0	24	20"	Casing	PVC	Sch 80	9"	-
24	34	20	screen	Stainless	wirewrap	9"	wirewrap .010
38	39	20	CAP	Sch 80 Cap	Sch 80	9"	Cap

Annular Material			
Depth from Surface	Fill	Description	
Feet to Feet			
28	23.5	Seal	3/8 Bentonite
23.5	0	Seal	Neat Cement
26.0	39	Gravel Pack	Med. Aquarium

Attachments	
<input type="checkbox"/> Geologic Log	
<input checked="" type="checkbox"/> Well Construction Diagram	
<input type="checkbox"/> Geophysical Log(s)	
<input type="checkbox"/> Soil/Water Chemical Analyses	
<input type="checkbox"/> Other _____	
Attach additional information, if it exists.	

Certification Statement	
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief	
Name	<u>Cowhey Pacific Drilling Inc</u>
Person, Firm or Corporation	
Address	<u>1215 Michigan Ave San Francisco CA 94107</u>
City	State Zip
Signed	<u>[Signature]</u> Date Signed <u>2/15/14</u> 351525
C-57 Licensed Water Well Contractor C-57 License Number	



APPENDIX B

LABORATORY ANALYTICAL REPORTS WITH CHROMATOGRAMS

Technical Report for

Cleanharbors-San Jose-Commercial Street

Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

1403217363

Accutest Job Number: C37385

Sampling Date: 12/01/14

Report to:

Clean Harbors
1010 Commercial Street
San Jose, CA 95112
allred.norman@cleanharbors.com

ATTN: Chris Allred

Total number of pages in report: **26**



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



James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



November 17, 2015

William Ragsdale
Clean Harbors
1010 Commercial Street
San Jose, CA 95112

Re: Accutest Job # C37385 Reissue

Dear Mr. Ragsdale,

This is a reissued report for Accutest Job # **C37385**, original report dated 12/5/2014.

The TPH chromatograms associated with samples *C37385-1* and *C37385-2* have been incorporated into this revised report as per 11/17/15 request from *Bureau Veritas*.

Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

Accutest Laboratories

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1

2

3

4

5

6



Sample Summary

Cleanharbors-San Jose-Commercial Street

Job No: C37385

Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA
Project No: 1403217363

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
C37385-1	12/01/14	10:20	BG	12/01/14	AQ Water	WATER SAMPLE #1
C37385-2	12/01/14	10:20	BG	12/01/14	SO Soil	SOIL SAMPLE #1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C37385
Account: Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA
Collected: 12/01/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C37385-1	WATER SAMPLE #1					
TPH (C10-C28)		0.349	0.098	0.025	mg/l	SW846 8015B M
C37385-2	SOIL SAMPLE #1					
TPH (C10-C28)		283	100	25	mg/kg	SW846 8015B M



Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	WATER SAMPLE #1		Date Sampled:	12/01/14
Lab Sample ID:	C37385-1		Date Received:	12/01/14
Matrix:	AQ - Water		Percent Solids:	n/a
Method:	SW846 8015B M SW846 3510C			
Project:	Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH319287.D	1	12/01/14	AG	12/01/14	OP11296	GHH1413
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.349	0.098	0.025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		32-124%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	SOIL SAMPLE #1	Date Sampled:	12/01/14
Lab Sample ID:	C37385-2	Date Received:	12/01/14
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3550B		
Project:	Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH319274.D	3	12/01/14	AG	12/01/14	OP11297	GHH1413
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	283	100	25	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	120%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C37385 **Client:** CLEAN HARBORS **Project:** WALGREENS DEISEL SPILL
Date / Time Received: 12/1/2014 12:00:00 PM **Delivery Method:** Client **Airbill #'s:**
Cooler Temps (Initial/Adjusted): #1: (14.5/14.5):

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>	
1. Temp criteria achieved:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Cooler temp verification:	IR1;		
3. Cooler media:	No Ice		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>			
	<u>Y</u>	<u>or</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>		
	<u>Y</u>	<u>or</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>		
	<u>Y</u>	<u>or</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>			
	<u>Y</u>	<u>or</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.1
4

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C37385
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11297-MB	HH319285.D	1	12/01/14	AG	12/01/14	OP11297	GHH1413

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	0.83	mg/kg	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	91% 37-122%

Method Blank Summary

Job Number: C37385
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11296-MB	HH319290.D	1	12/01/14	AG	12/01/14	OP11296	GHH1413

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.10	0.025	mg/l	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	92% 32-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C37385
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11297-BS	HH319282.D	1	12/01/14	AG	12/01/14	OP11297	GHH1413
OP11297-BSD	HH319283.D	1	12/01/14	AG	12/01/14	OP11297	GHH1413

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	28.8	86	27.9	84	3	39-102/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	96%	94%	37-122%

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C37385
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11296-BS	HH319288.D	1	12/01/14	AG	12/01/14	OP11296	GHH1413
OP11296-BSD	HH319289.D	1	12/01/14	AG	12/01/14	OP11296	GHH1413

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1	0.920	92	1.01	101	9	38-115/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	93%	99%	32-124%

* = Outside of Control Limits.

5.2.2
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C37385
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11297-MS	HH319278.D	5	12/01/14	AG	12/01/14	OP11297	GHH1413
OP11297-MSD	HH319279.D	5	12/01/14	AG	12/01/14	OP11297	GHH1413
C37385-2	HH319274.D	3	12/01/14	AG	12/01/14	OP11297	GHH1413

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-2

CAS No.	Compound	C37385-2 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	283	33.3	448	495* a	33.3	497	642* a	10	39-102/29

CAS No.	Surrogate Recoveries	MS	MSD	C37385-2	Limits
630-01-3	Hexacosane	66%	87%	120%	37-122%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

5.3.1
5

GC Semi-volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319287.D Vial: 11
 Acq On : 01-Dec-2014, 21:55:55 Operator: ALLENG
 Sample : C37385-1 Inst : HP5890
 Misc : OP11296,GHH1413,1020,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 02 09:49:46 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Hexacosane	9.77	1662833	83.924 ppm
Spiked Amount 100.000		Recovery =	83.92%
Target Compounds			
2) H TPH (C10-C28)	6.80	7704320	355.984 ppm
3) H TPH (>C28-C40)	12.00	998433	82.254 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H TPH (Diesel)	6.80	7644008	355.136 ppm
7) H TPH (Motor Oil)	12.00	997446	81.220 ppm

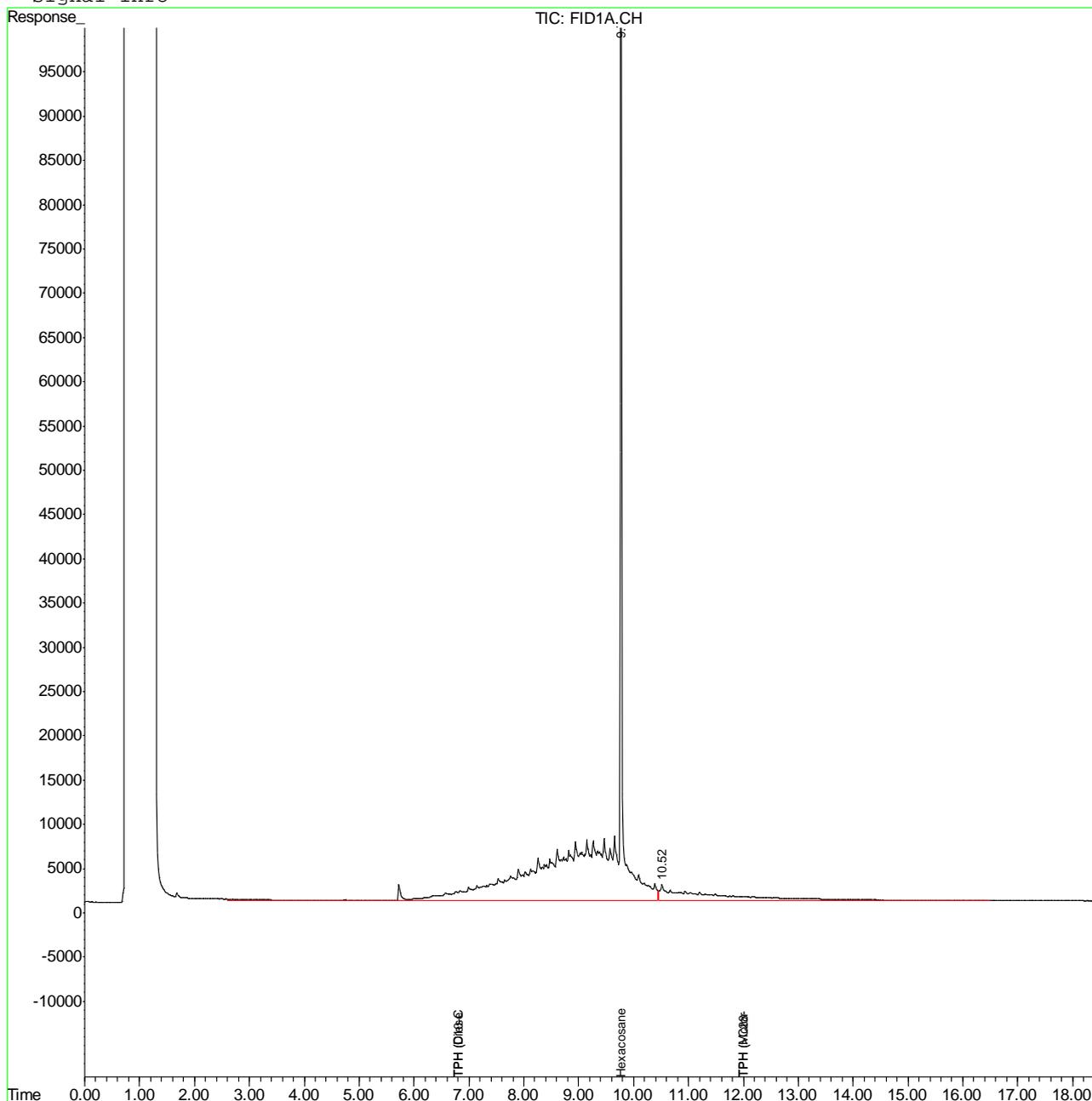
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 HH319287.D GHH1360.M Tue Dec 02 12:18:16 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319287.D Vial: 11
Acq On : 01-Dec-2014, 21:55:55 Operator: ALLENG
Sample : C37385-1 Inst : HP5890
Misc : OP11296,GHH1413,1020,,,1,1,W Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 12:13 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
Title : TPH-Extractable by SW-846 Method 8015B
Last Update : Thu Nov 13 11:38:16 2014
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319274.D Vial: 4
 Acq On : 01-Dec-2014, 15:10:54 Operator: ALLENG
 Sample : C37385-2 Inst : HP5890
 Misc : OP11297,GHH1413,30.03,,,10,3,S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 01 16:46:38 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Hexacosane	9.78	79074	3.991	ppm m
Spiked Amount 100.000		Recovery =	3.99%	
Target Compounds				
2) H TPH (C10-C28)	6.80	6132973	283.379	ppm
3) H TPH (>C28-C40)	12.00	7262682	598.321	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H TPH (Diesel)	6.80	6139555	285.240	ppm
7) H TPH (Motor Oil)	12.00	7238553	589.422	ppm

6.1.2
 6

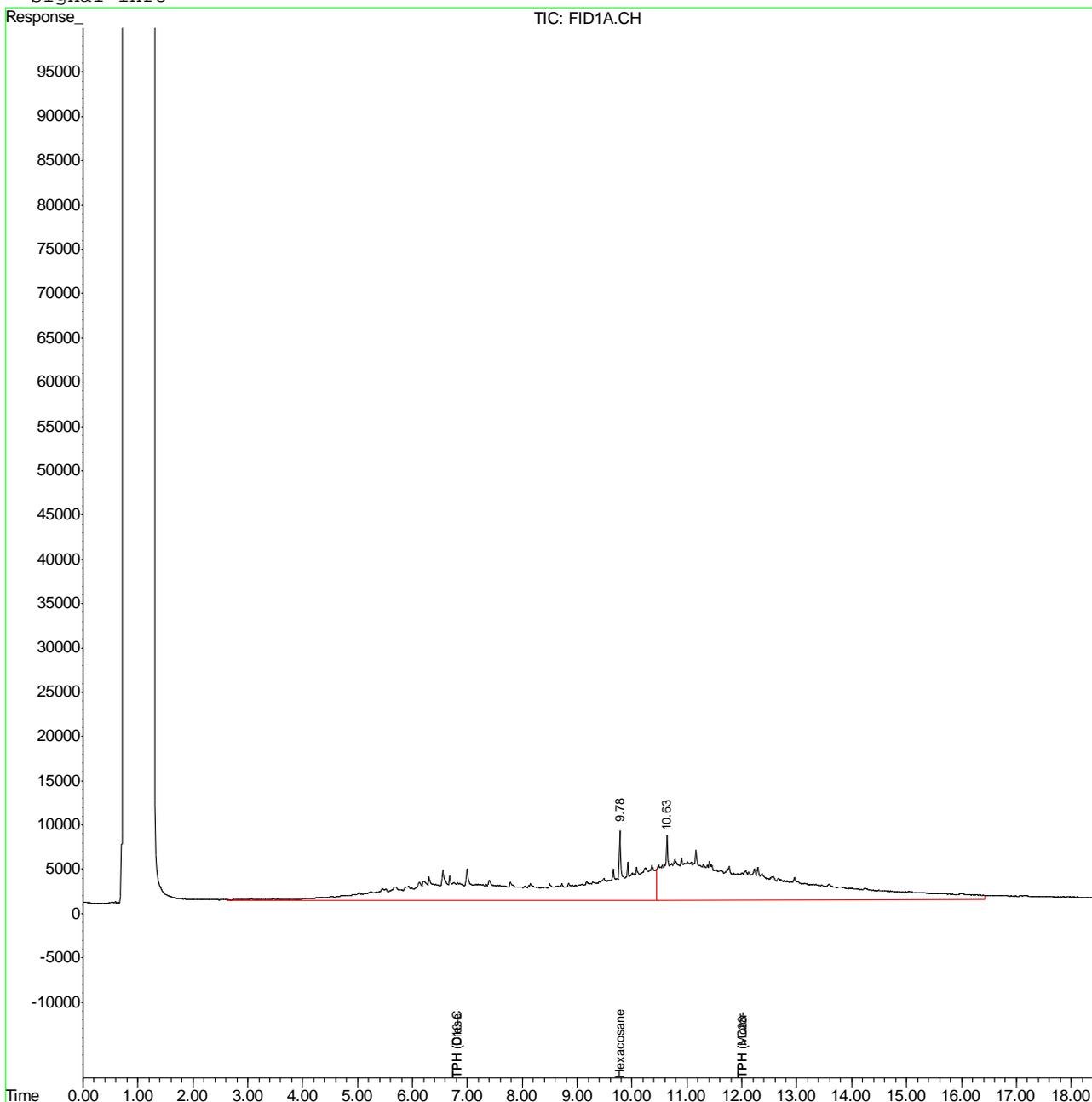
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 HH319274.D GHH1360.M Tue Dec 02 12:37:28 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319274.D Vial: 4
 Acq On : 01-Dec-2014, 15:10:54 Operator: ALLENG
 Sample : C37385-2 Inst : HP5890
 Misc : OP11297,GHH1413,30.03,,,10,3,S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 2 12:36 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319285.D Vial: 10
 Acq On : 01-Dec-2014, 21:06:56 Operator: ALLENG
 Sample : OP11297-MB Inst : HP5890
 Misc : OP11297,GHH1413,30.00,,,1,1,S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 02 09:49:44 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Hexacosane	9.78	1800267	90.860 ppm
Spiked Amount 100.000		Recovery =	90.86%
Target Compounds			
2) H TPH (C10-C28)	6.80	485982	22.455 ppm
3) H TPH (>C28-C40)	12.00	162191	13.362 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H TPH (Diesel)	6.80	485982	22.578 ppm
7) H TPH (Motor Oil)	12.00	162191	13.207 ppm

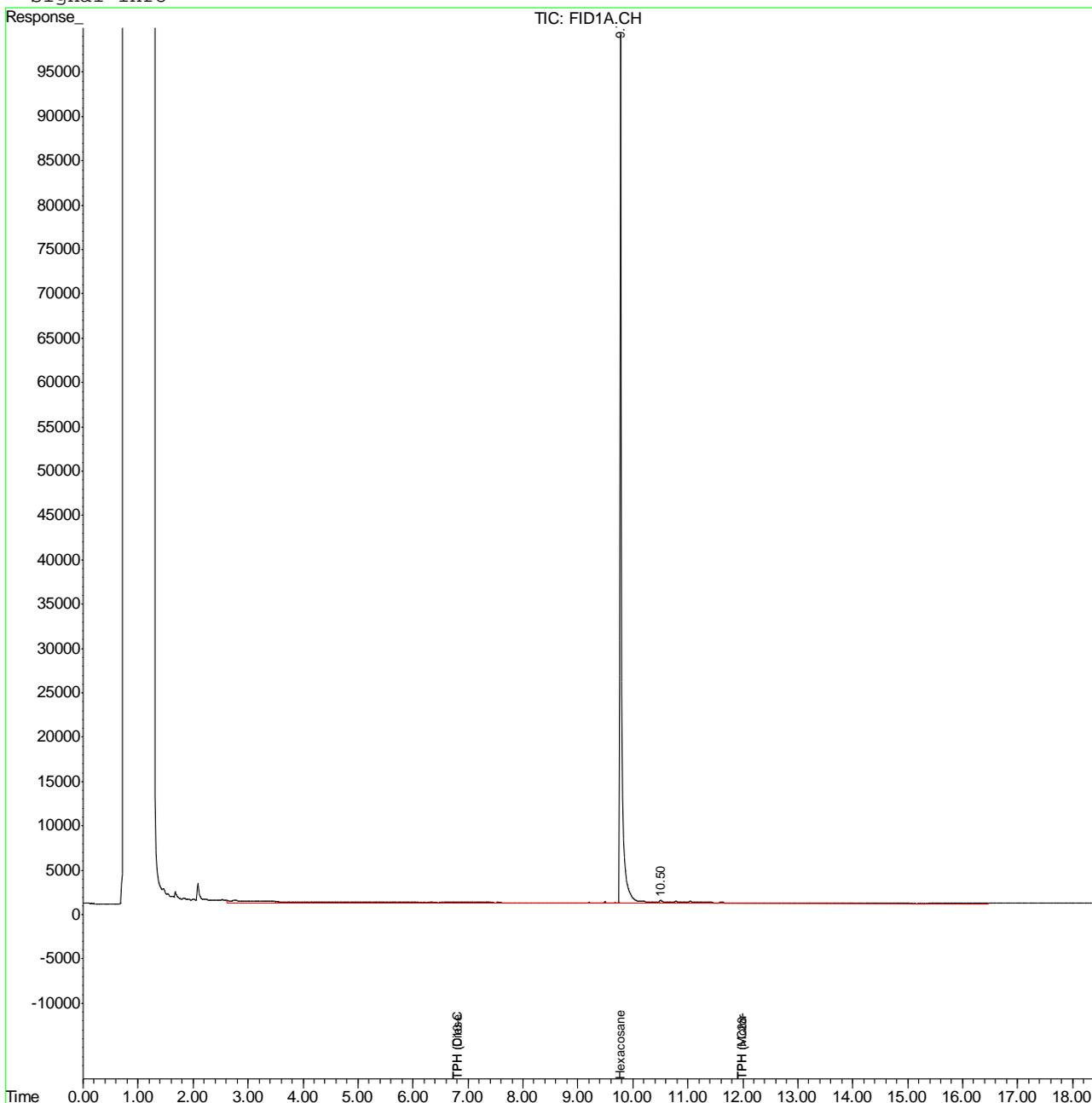
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 HH319285.D GHH1360.M Tue Dec 02 12:18:14 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319285.D Vial: 10
 Acq On : 01-Dec-2014, 21:06:56 Operator: ALLENG
 Sample : OP11297-MB Inst : HP5890
 Misc : OP11297,GHH1413,30.00,,,1,1,S Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 2 12:11 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319290.D Vial: 14
 Acq On : 01-Dec-2014, 23:09:20 Operator: ALLENG
 Sample : OP11296-MB Inst : HP5890
 Misc : OP11296,GHH1413,1000,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 02 09:49:49 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Hexacosane	9.77	1822752	91.995 ppm
Spiked Amount 100.000		Recovery =	92.00%
Target Compounds			
2) H TPH (C10-C28)	6.80	534615	24.702 ppm
3) H TPH (>C28-C40)	12.00	426544	35.140 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H TPH (Diesel)	6.80	534615	24.838 ppm
7) H TPH (Motor Oil)	12.00	426544	34.733 ppm

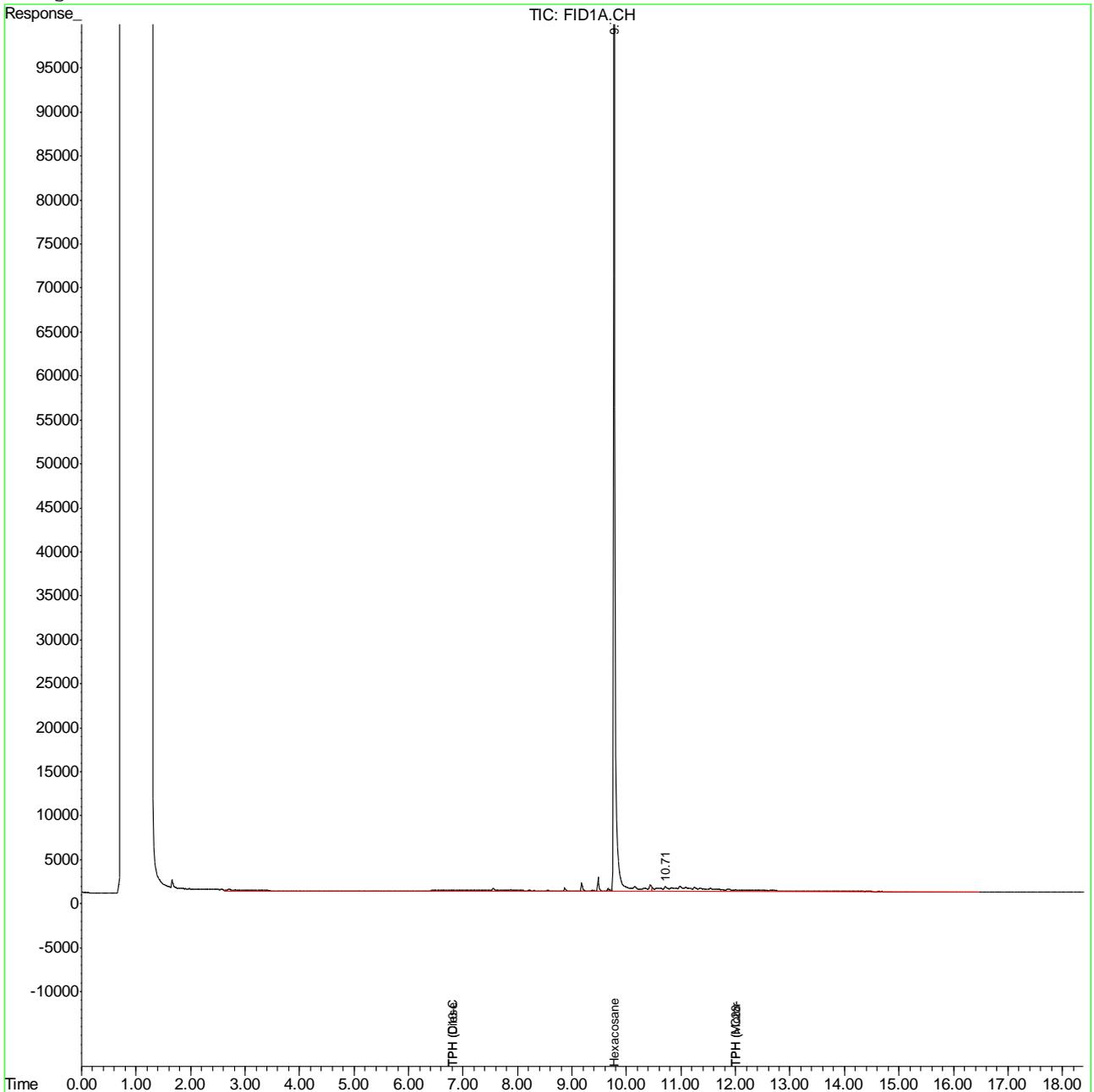
(f)=RT Delta > 1/2 Window (m)=manual int.
 HH319290.D GHH1360.M Tue Dec 02 12:18:19 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319290.D Vial: 14
 Acq On : 01-Dec-2014, 23:09:20 Operator: ALLENG
 Sample : OP11296-MB Inst : HP5890
 Misc : OP11296,GHH1413,1000,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 2 12:16 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Technical Report for

Cleanharbors-San Jose-Commercial Street

Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

1403217363

Accutest Job Number: C37385R

Sampling Date: 12/01/14

Report to:

**Clean Harbors
1010 Commercial Street
San Jose, CA 95112
allred.norman@cleanharbors.com**

ATTN: Chris Allred

Total number of pages in report: 26



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



**James J. Rhudy
Lab Director**

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.



December 1, 2015

William Ragsdale
Clean Harbors
1010 Commercial Street
San Jose, CA 95112

Re: Accutest Job # C37385R Reissue

Dear Mr. Ragsdale,

This is a reissued report for Accutest Job # **C37385R**, original report dated 12/4/2014.

The TPH chromatograms associated with samples *C37385-3* and *C37385-4* have been incorporated into this revised report as per 11/17/15 request from *Bureau Veritas*.

Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

Accutest Laboratories

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Sample Summary

Cleanharbors-San Jose-Commercial Street

Job No: C37385R

Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA
 Project No: 1403217363

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C37385-3	12/01/14	10:20 BG	12/01/14	AQ	Water	WATER SAMPLE #2
C37385-4	12/01/14	10:20 BG	12/01/14	SO	Soil	SOIL SAMPLE #2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C37385R
Account: Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA
Collected: 12/01/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C37385-3	WATER SAMPLE #2					
TPH (C10-C28)		0.135	0.095	0.024	mg/l	SW846 8015B M
C37385-4	SOIL SAMPLE #2					
TPH (C10-C28)		505	170	42	mg/kg	SW846 8015B M

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	WATER SAMPLE #2		Date Sampled:	12/01/14
Lab Sample ID:	C37385-3		Date Received:	12/01/14
Matrix:	AQ - Water		Percent Solids:	n/a
Method:	SW846 8015B M SW846 3510C			
Project:	Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH319322.D	1	12/03/14	AG	12/03/14	OP11315	GHH1415
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.135	0.095	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	80%		32-124%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	SOIL SAMPLE #2	Date Sampled:	12/01/14
Lab Sample ID:	C37385-4	Date Received:	12/01/14
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3550B		
Project:	Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG56360.D	5	12/03/14	NN	12/03/14	OP11309	GGG1620
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	505	170	42	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	118%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C37385 **Client:** CLEAN HARBORS **Project:** WALGREENS DEISEL SPILL
Date / Time Received: 12/1/2014 12:00:00 PM **Delivery Method:** Client **Airbill #'s:**
Cooler Temps (Initial/Adjusted): #1: (14.5/14.5):

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Cooler temp verification:	IR1;	
3. Cooler media:	No Ice	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

Comments

4.1
4

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary**Job Number:** C37385R**Account:** CLNCASJ Cleanharbors-San Jose-Commercial Street**Project:** Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11309-MB	GG56345.D	1	12/02/14	NN	12/02/14	OP11309	GGG1620

The QC reported here applies to the following samples:**Method:** SW846 8015B M

C37385-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	0.83	mg/kg	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	120% 37-122%

Method Blank Summary**Job Number:** C37385R**Account:** CLNCASJ Cleanharbors-San Jose-Commercial Street**Project:** Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11315-MB	HH319326.D	1	12/03/14	AG	12/03/14	OP11315	GHH1415

The QC reported here applies to the following samples:**Method:** SW846 8015B M

C37385-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.10	0.025	mg/l	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	77% 32-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C37385R
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11309-BS	GG56346.D	1	12/02/14	NN	12/02/14	OP11309	GGG1620
OP11309-BSD	GG56347.D	1	12/02/14	NN	12/02/14	OP11309	GGG1620

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.3	28.0	84	27.7	83	1	39-102/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	116%	110%	37-122%

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C37385R
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11315-BS	HH319324.D	1	12/03/14	AG	12/03/14	OP11315	GHH1415
OP11315-BSD	HH319325.D	1	12/03/14	AG	12/03/14	OP11315	GHH1415

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1	0.871	87	0.847	85	3	38-115/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	92%	89%	32-124%

* = Outside of Control Limits.

5.2.2
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C37385R
Account: CLNCASJ Cleanharbors-San Jose-Commercial Street
Project: Walgreens Diesel Spill - HWY 84 & HWY 680 Sunol CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11309-MS	GG56358.D	1	12/03/14	NN	12/03/14	OP11309	GGG1620
OP11309-MSD	GG56359.D	1	12/03/14	NN	12/03/14	OP11309	GGG1620
C37427-1	GG56355.D	1	12/03/14	NN	12/02/14	OP11309	GGG1620

The QC reported here applies to the following samples:

Method: SW846 8015B M

C37385-4

CAS No.	Compound	C37427-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	6.69	33.2	33.8	82	33.2	35.4	86	5	39-102/29

CAS No.	Surrogate Recoveries	MS	MSD	C37427-1	Limits
630-01-3	Hexacosane	110%	115%	116%	37-122%

* = Outside of Control Limits.

5.3.1
 5

GC Semi-volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1415\HH319322.D Vial: 91
 Acq On : 03-Dec-2014, 13:35:50 Operator: ALLENG
 Sample : C37385-3 Inst : HP5890
 Misc : OP11315,GHH1415,1050,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 03 16:21:24 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Hexacosane	9.78	1581989	79.844 ppm
Spiked Amount 100.000		Recovery =	79.84%
Target Compounds			
2) H TPH (C10-C28)	6.80	3058661	141.328 ppm
3) H TPH (>C28-C40)	12.00	508360	41.880 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H TPH (Diesel)	6.80	3036705	141.083 ppm
7) H TPH (Motor Oil)	12.00	508360	41.395 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

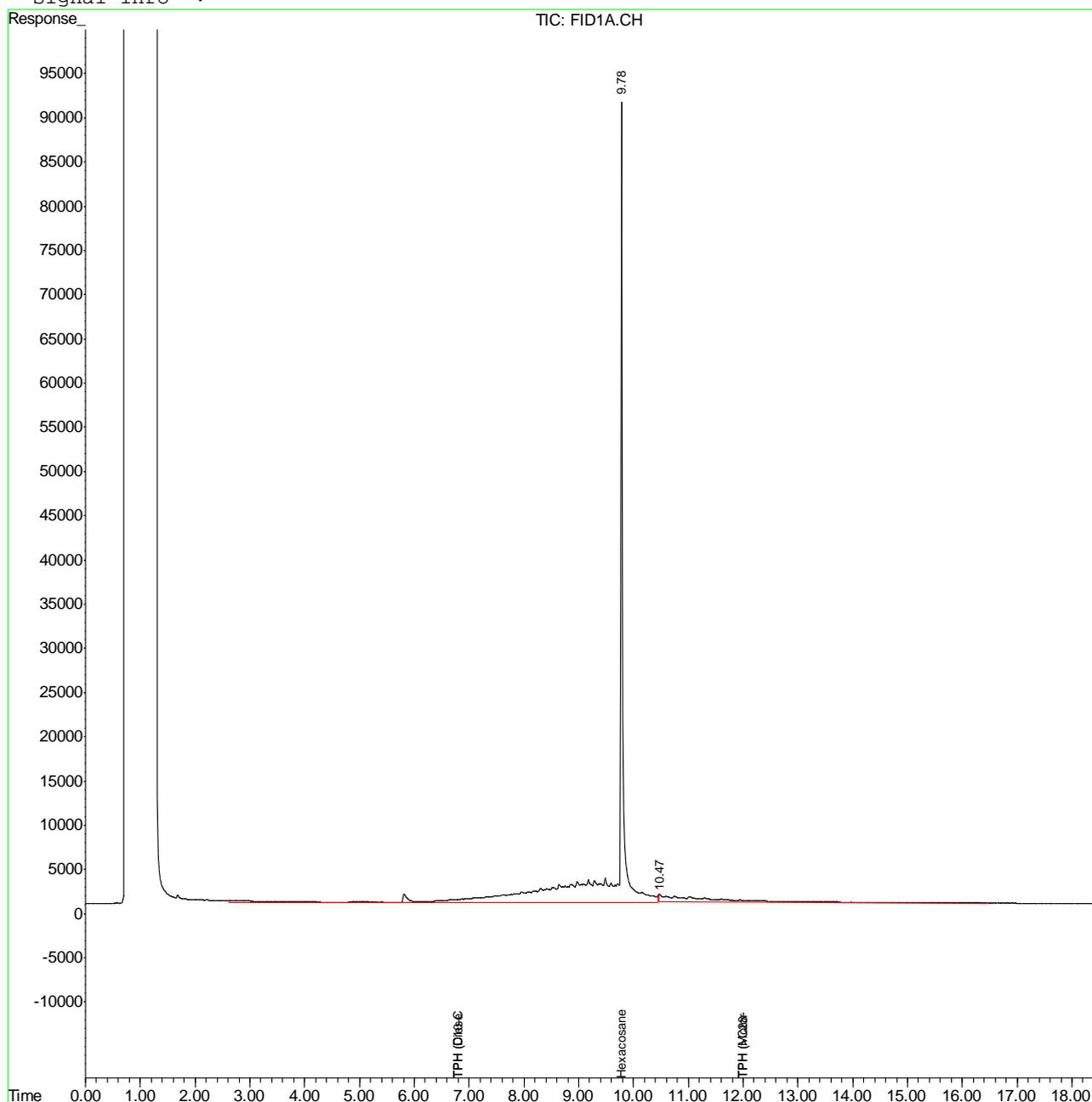
HH319322.D GHH1360.M Wed Dec 03 16:45:44 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1415\HH319322.D Vial: 91
Acq On : 03-Dec-2014, 13:35:50 Operator: ALLENG
Sample : C37385-3 Inst : HP5890
Misc : OP11315,GHH1415,1050,,,1,1,W Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 3 16:26 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
Title : TPH-Extractable by SW-846 Method 8015B
Last Update : Thu Nov 13 11:38:16 2014
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1620\GG56360.D Vial: 8
 Acq On : 12-3-14 1:33:00 PM Operator: NHATN
 Sample : C37385-4 Inst : Diesel #2
 Misc : OP11309,GGG1620,30.03,,,10,5,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Dec 3 15:38 2014 Quant Results File: GGG1453.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1453.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Tue Dec 02 17:08:36 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S,M Hexacosane	11.10f	2577615	2.358	ppm m
Spiked Amount	100.000	Recovery	=	2.36%
Target Compounds				
2) H,M TPH (C10-C28)	6.00	454021240	303.173	ppm
3) H TPH (>C28-C40)	14.00	491216306	631.459	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	455017149	304.123	ppm
7) H TPH (Motor Oil)	14.00	488716019	625.325	ppm

6.1.2
 6

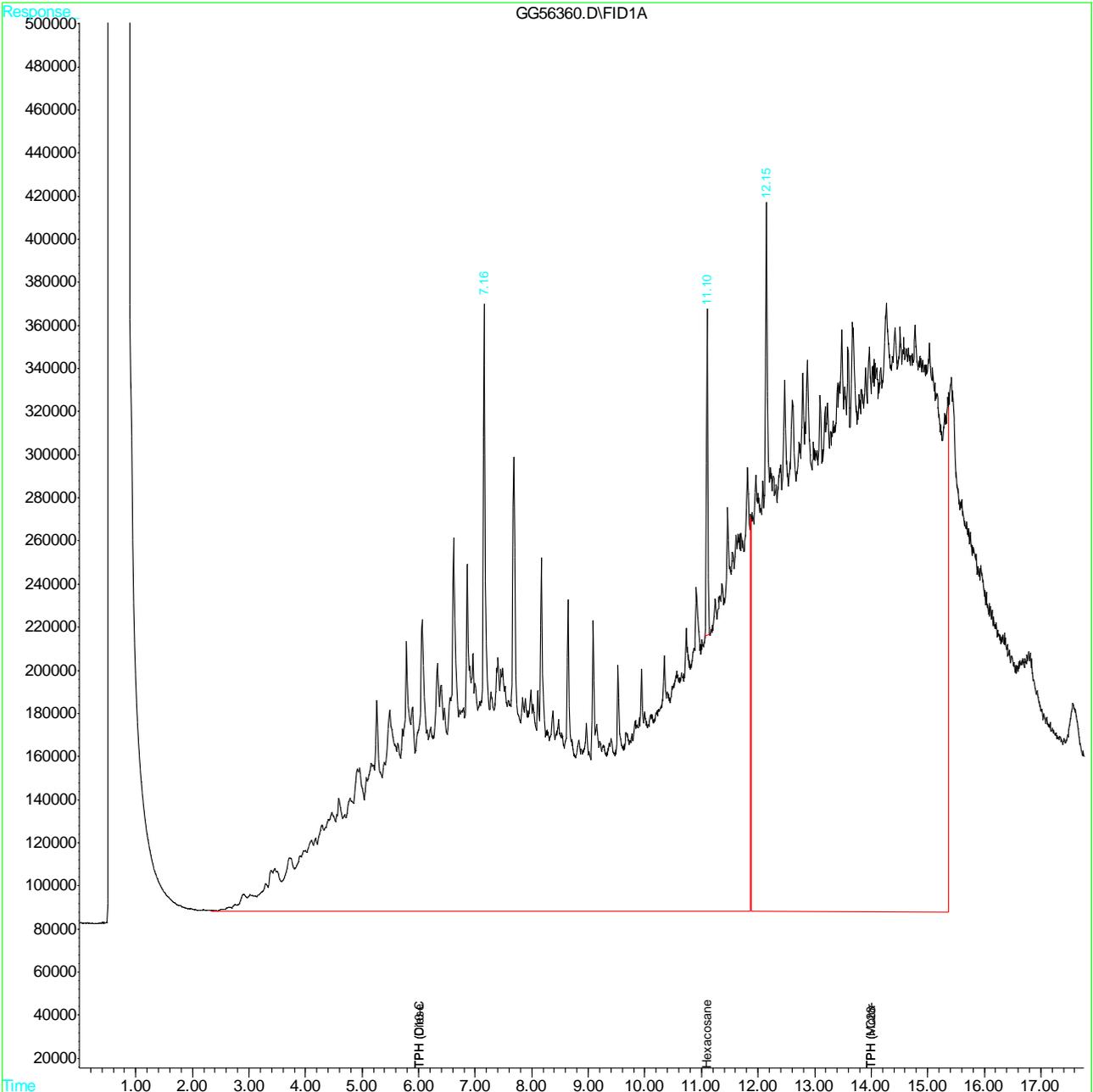
(f)=RT Delta > 1/2 Window (m)=manual int.
 GG56360.D GGG1453.M Wed Dec 03 15:41:01 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1620\GG56360.D Vial: 8
 Acq On : 12-3-14 1:33:00 PM Operator: NHATN
 Sample : C37385-4 Inst : Diesel #2
 Misc : OP11309,GGG1620,30.03,,,10,5,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Dec 3 15:38 2014 Quant Results File: GGG1453.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1453.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Tue Dec 02 17:08:36 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1620\GG56345.D Vial: 4
 Acq On : 12-2-14 8:02:53 PM Operator: NHATN
 Sample : OP11309-MB Inst : Diesel #2
 Misc : OP11309,GGG1620,30.00,,,1,1,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Dec 2 20:36 2014 Quant Results File: GGG1453.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1453.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Tue Dec 02 17:08:36 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S,M Hexacosane	11.10	131701810	120.458	ppm m
Spiked Amount	100.000	Recovery	=	120.46%
Target Compounds				
2) H,M TPH (C10-C28)	6.00	14775033	9.866	ppm
3) H TPH (>C28-C40)	14.00	11554235	14.853	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H,M TPH (Diesel)	6.00	14775033	9.875	ppm
7) H TPH (Motor Oil)	14.00	11554235	14.784	ppm

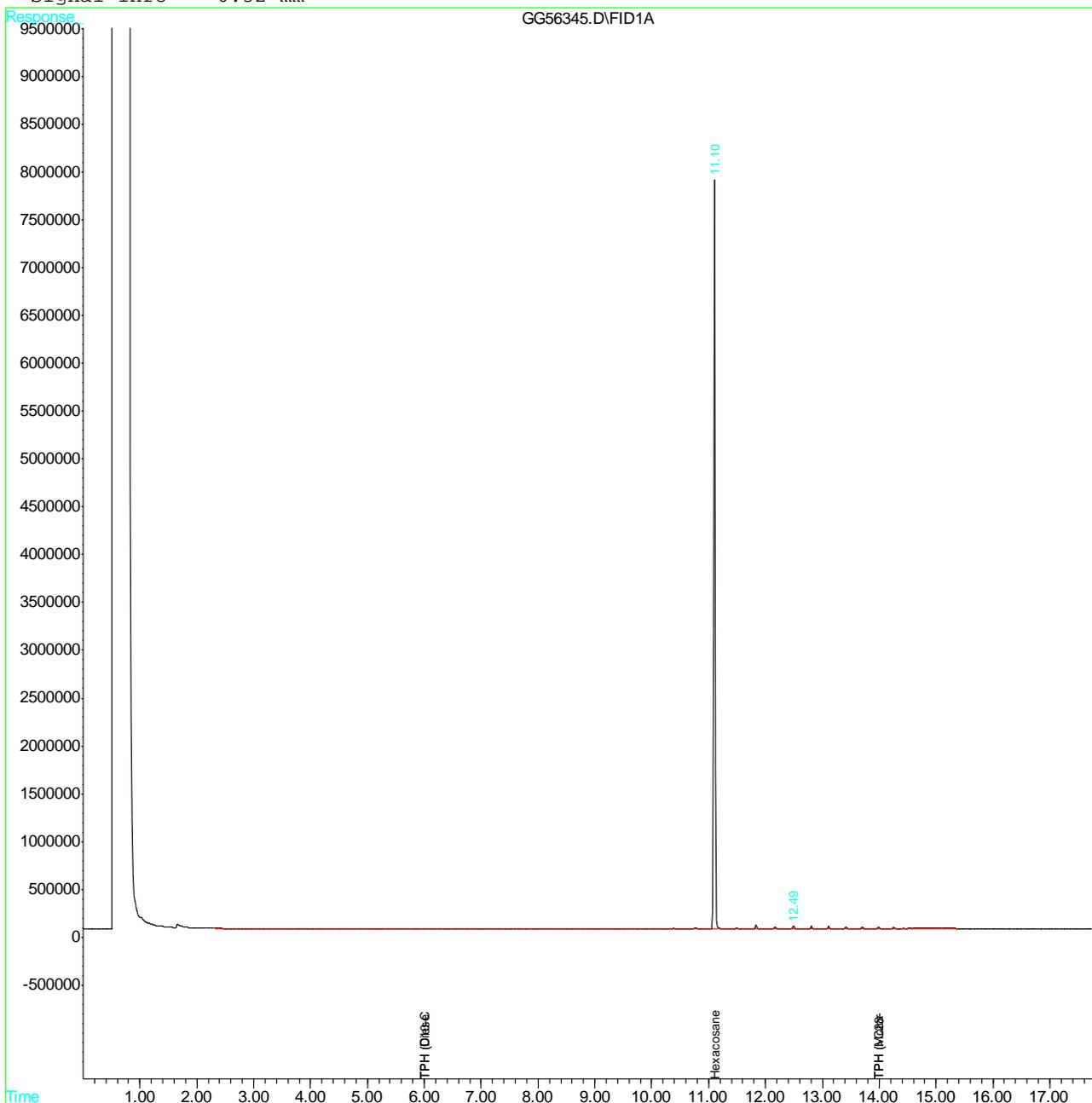
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 GG56345.D GGG1453.M Wed Dec 03 15:30:51 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1620\GG56345.D Vial: 4
 Acq On : 12-2-14 8:02:53 PM Operator: NHATN
 Sample : OP11309-MB Inst : Diesel #2
 Misc : OP11309,GGG1620,30.00,,,1,1,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Dec 2 20:36 2014 Quant Results File: GGG1453.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1453.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Tue Dec 02 17:08:36 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1415\HH319326.D Vial: 95
 Acq On : 03-Dec-2014, 15:14:06 Operator: ALLENG
 Sample : OP11315-MB Inst : HP5890
 Misc : OP11315,GHH1415,1000,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 03 16:21:28 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Hexacosane	9.78	1529944	77.217 ppm
Spiked Amount 100.000		Recovery =	77.22%
Target Compounds			
2) H TPH (C10-C28)	6.80	526864	24.344 ppm
3) H TPH (>C28-C40)	12.00	287551	23.689 ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D. ppm
5) H TPH (Kerosene)	0.00	0	N.D. ppm
6) H TPH (Diesel)	6.80	531329	24.685 ppm
7) H TPH (Motor Oil)	12.00	287551	23.415 ppm

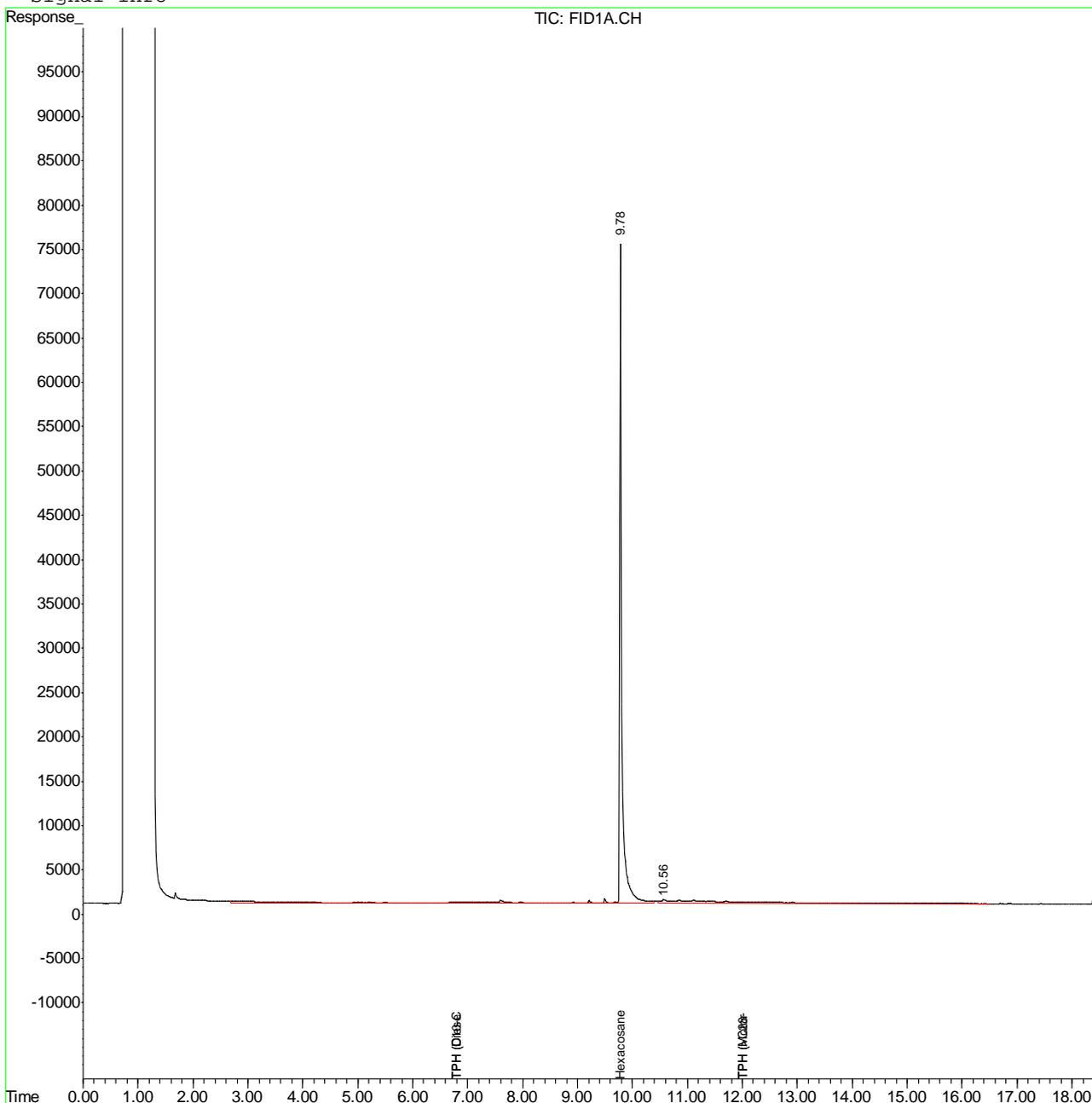
(f)=RT Delta > 1/2 Window (m)=manual int.
 HH319326.D GHH1360.M Wed Dec 03 16:37:16 2014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\GHH1415\HH319326.D Vial: 95
 Acq On : 03-Dec-2014, 15:14:06 Operator: ALLENG
 Sample : OP11315-MB Inst : HP5890
 Misc : OP11315,GHH1415,1000,,,1,1,W Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 3 16:36 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\HPCHEM\2\DATA\GHH1413\HH319272.D Vial: 3
 Acq On : 01-Dec-2014, 14:17:04 Operator: ALLENG
 Sample : CC1360-4 D/MO Inst : HP5890
 Misc : OP11283,GHH1413,,,,,1230-021 Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 01 14:56:42 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Initial Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
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System Monitoring Compounds

1) S Hexacosane	9.78	2048694	103.399	ppm
Spiked Amount 100.000		Recovery	=	103.40%

Target Compounds

2) H TPH (C10-C28)	6.80	21824802	1008.432	ppm
3) H TPH (>C28-C40)	12.00	11330311	933.425	ppm
4) H TPH (Mineral Spirits)	0.00	0	N.D.	ppm
5) H TPH (Kerosene)	0.00	0	N.D.	ppm
6) H TPH (Diesel)	6.80	21727455	1009.443	ppm
7) H TPH (Motor Oil)	12.00	11338048	923.236	ppm

Data File : C:\HPCHEM\2\DATA\GHH1413\HH319272.D Vial: 3
 Acq On : 01-Dec-2014, 14:17:04 Operator: ALLENG
 Sample : CC1360-4 D/MO Inst : HP5890
 Misc : OP11283,GHH1413,,,,,1230-021 Multiplr: 1.00
 IntFile : AUTOINT1.E
 Quant Time: Dec 1 14:58 2014 Quant Results File: GHH1360.RES

Quant Method : C:\MSDCHEM\2\METHODS\GHH1360.M (Chemstation Integrator)
 Title : TPH-Extractable by SW-846 Method 8015B
 Last Update : Thu Nov 13 11:38:16 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_TPH5.M

Volume Inj. :
 Signal Phase :
 Signal Info :

