Atlantic Richfield Company

Charles Carmel Operations Project Manager

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January 19, 2016

RECEIVED By Alameda County Environmental Health 3:51 pm, Jan 19, 2016

Re: Fourth Quarter 2015 Status Report Atlantic Richfield Company Station #374 43500 Grimmer Boulevard, Fremont, California ACWD Case No. 0017

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by,

[/1]

Charles Carmel Operations Project Manager

Attachment





Creating Solutions, Building Trust.

January 19, 2016

Project No. 06-88-602

Atlantic Richfield Company 4 Centerpointe Drive, Suite 200 La Palma, CA 90623 Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re: Fourth Quarter 2015 Status Report, Atlantic Richfield Company Station No. 374, 6407 Telegraph Avenue, Oakland, Alameda County, California ACEH Case #R00000078

Dear Mr. Carmel:

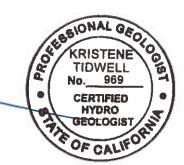
Attached is the *Fourth Quarter 2015 Status Report* for Atlantic Richfield Company Station No. 374 located at 6407 Telegraph Avenue, Oakland, California (Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2015. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely, BROADBENT & ASSOCIATES, INC.

heir Havid'

Kais Hamidi Staff Geologist

Kristene Tidwell, P.G., C.Hg. Associate Hydrogeologist



Enclosures

cc: Ms. Karel Detterman, Alameda County Environmental Health (submitted via ACEH ftp site)

Electronic copy uploaded to GeoTracker

FOURTH QUARTER 2015 STATUS REPORT ATLANTIC RICHFIELD COMPANY STATION No. 374 OAKLAND, CALIFORNIA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2015 Status Report* on behalf of Atlantic Richfield Company (ARC, a BP affiliated company) for Station No. 374 located in Oakland, Alameda County, California (Site). Monitoring activities at the Site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	Station No. 374 / 6407 Telegraph Avenue, Oakland, California		
Client Project Manager / Title:	Mr. Chuck Carmel, Remediation Management Project Manager		
Broadbent Contact:	Kristene Tidwell, P.G., C.HG. (707) 455-7290		
Broadbent Project No.:	06-88-602		
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000078		
Current phase of project:	Monitoring and Assessment		
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.		

WORK PERFORMED THIS QUARTER (Fourth Quarter 2015):

- 1. Submitted *Third Quarter 2015 Monitoring Report* on October 30, 2015.
- 2. No other environmental field activities were conducted during the Fourth Quarter 2015.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2016):

- 1. Submit Fourth Quarter 2015 Status Report (contained herein).
- 2. Conduct First Quarter 2016 groundwater monitoring and sampling event.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging: Groundwater sample collection:	MW-1 through MW-9 MW-1, MW-2, MW-4, MW-7, MW-8 and MW-9	(1Q & 3Q) MW-8 (1Q & 3Q)	
	MW-3, MW-5 and MW-6	(3Q)	
Biodegradation indicator parameter			
monitoring:	None		
QUARTERLY RESULTS SUMMARY: LNAPL			
LNAPL observed this quarter:	N/A	(yes\no)	
LNAPL recovered this quarter:	N/A	(gal)	
Cumulative LNAPL recovered:	N/A	(gal)	
Groundwater Elevation and Gradien	it:	_	
Depth to groundwater:	N/A	(ft below TOC)	
Gradient direction:	N/A	(compass direction)	
Gradient magnitude:	N/A	(ft/ft)	
Average change in elevation:	N/A	(ft since last measurement)	

Laboratory Analytical Data

Summary:

No routine groundwater monitoring and sampling activities were conducted during Second Quarter 2015.

DISCUSSION:

The most recent groundwater monitoring and sampling event occurred during the Third Quarter of 2015, the results of which are contained within the Q3 GWM Report. Soil Investigation and Vapor Intrusion Assessment field work was carried out during the First Quarter of 2015, the results of which are contained within the *Soil Investigation and Vapor Intrusion Assessment Report*.

A site location map is presented as Drawing 1 and a groundwater elevation and analytical summary map from the most recent Third Quarter 2015 monitoring and sampling event is presented as Drawing 2.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Irvine, California), and our understanding of ACEH requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of the Atlantic Richfield Company. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

Drawing 1:	Site Location Map
Drawing 2:	Groundwater Elevation Contours and Analytical Summary Map, October 30, 2015

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
Broadbent:	Broadbent & Associates, Inc.	gal:	Gallons
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	GRO:	Gasoline-Range Organics
1,2-DCA:	1,2-Dichloroethane	LNAPL:	Light Non-Aqueous Phase Liquid
DIPE:	Di-Isopropyl Ether	MTBE:	Methyl Tertiary Butyl Ether
DO:	Dissolved Oxygen	NO ₃ :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO ₄ :	Sulfate
Eh:	Oxidation Reduction Potential	TAME:	Tert-Amyl Methyl Ether
EPA:	Environmental Protection Agency	TBA:	Tertiary Butyl Ether
ETBE:	Ethyl Tertiary Butyl Ether	TOC:	Top of Casing
Fe ²⁺ :	Ferrous Iron	μg/L:	Micrograms per liter

DRAWINGS

