

## Colorado River Basin Regional Water Quality Control Board

March 6, 2015

Armando Baldizzone  
Public Works Director  
City of Blythe  
440 S. Main Street  
Blythe, CA 92225

Dear Mr. Baldizzone:

**SUBJECT: LOW-THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY  
- BLYTHE ENVIRONMENTAL REMEDIATION PROJECT COMMINGLED  
PLUME 2 - 738, 745, AND 801 WEST HOBSONWAY, BLYTHE, RIVERSIDE  
COUNTY- CASE NOS. 7T2225005, 7T2225008 AND 7T2225025**

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described locations. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this regulatory agency was accurate and representative of site conditions, no further action related to these underground storage tanks is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23, Division 3, Chapter 16 of California Code of Regulations.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

Please contact Phan Le at [Phan.Le@waterboards.ca.gov](mailto:Phan.Le@waterboards.ca.gov) or at (760) 776-8974 if you have any questions regarding this matter.

Sincerely,



Robert Perdue  
Executive Officer  
Colorado River Basin  
Regional Water Quality Control Board

PL/

Enclosure: Case Closure Summaries

cc: City of Blythe Owned Property – Park (**Site A**), Mallory Sutterfield, Interim Assistant -  
City Manager, 235 N. Broadway, Blythe, CA 92225

Property Owner (**Site B**), c/o Erickson Realty Group, 1536 Smith Street, Kingsburg, CA  
93631

Property Occupants (**Site B**) Starbucks, 745 W. Hobson Way, Blythe, CA 92225

Property Owner - Site C (Vacant Lot), Tom Do Nguyen, 11433 Desert Trail-way Lane,  
Blythe, CA 92225

John Riddell, Riverside County – Hazardous Materials Management, 47-950 Arabia St,  
Suite A, Indio, CA 92201

Sriram Lyer, SWRCB, UST Cleanup Fund Program, P.O. Box 944212, Sacramento, CA  
94244-2120

Annette Poteracke, SWRCB, UST Cleanup Fund Program, P.O. Box 944212,  
Sacramento, CA 94244-2120

Joseph P. Schaaf, P.G., C.Hg., GeoEnviro Services, Inc., 5529 Kailas Street, Ventura,  
CA 93003

Noel Sheno, CalClean, 1790 N. Case Street, Orange, CA 92865

File: WDID Nos. 7T2 225 005, 7T2 225 008, and 7T2 225 025, Blythe Commingled Plume Project  
No.2

**CASE CLOSURE SUMMARY**  
**LOW-THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY**  
**LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM**

**I. AGENCY INFORMATION**

**DATE:** 3/6/2015

AGENCY NAME:	California Environmental Protection Agency Regional Water Quality Control Board – Colorado River Basin Region (Region 7)		
ADDRESS:	73-720 Fred Waring Drive, Suite 100, Palm Desert, CA 92260		
STAFF PERSON:	Phan Le	TELEPHONE:	(760) 776 - 8974

**II. CASE INFORMATION**

SITE NAME: Exxon Station #7-3090 (Commingled Plume 2 - Site A)				
SITE ADDRESS: 801 West Hobsonway, Blythe, CA 92225				
RB LUSTIS CASE NO: 7T2 225 005			LOCAL AGENCY NO:	
UNAUTHORIZED RELEASE FORM DATE: 8/29/1985				
RESPONSIBLE PARTIES:		ADDRESS		TELEPHONE
City of Blythe		235 North Broadway, Blythe, CA 92225		760 922-6161
TANK NO	SIZE (GAL)	CONTENTS	REMOVED/REPLACED/ CLOSED IN PLACE?	DATE
1	8,000	Gasoline	Removed	February 1-2, 1989
2	8,000	Gasoline	Removed	February 1-2, 1989
3	8,000	Gasoline	Removed	February 1-2, 1989
4	550	Waste-oil	Removed	February 1-2, 1989

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

CAUSE OF RELEASE:	unknown			
TYPE OF RELEASE:	gasoline			
CHARACTERIZATION COMPLETE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
MONITORING WELLS INSTALLED?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/> NUMBER: 17
GW DEPTH BELOW GROUND SURFACE (ft):	HIGHEST:	6.21	LOWEST:	11.78
GW FLOW DIRECTION:	South/southeast			
MOST SENSITIVE CURRENT GW USE:	Agricultural/Municipal/Domestic			
ARE DRINKING WATER WELLS AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
IS SURFACE WATER AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
NEAREST/AFFECTED SW NAME:	NA			
REPORT (S) ON FILE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
LOCATION OF REPORT(S) FILED:	Regional Water Quality Control Board – Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260			
TREATMENT & DISPOSAL OF AFFECTED MATERIAL				
MATERIAL	AMOUNT (UNIT)	ACTION/TREATMENT OR DISPOSAL DESTINATION		DATE
SOIL	NA			

GROUNDWATER / PSH	943 gal. Phase Separated Hydrocarbon (PSH)	Offsite Disposal Recycling	1985-1993
SOIL VAPOR	12,147 pounds	Soil Vapor Extraction, Oxidize/Carbon Filtration	1993-1995

**IV. MAXIMUM CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**

**(A) SOIL (ppm)**

CONTAMINANT	BEGINNING (mg/kg) DATE SAMPLED: 2/2/1989	DEPTH (ft)	END (mg/kg) DATE SAMPLED: 12/14/1995	DEPTH (ft)
TPH(g) gasoline	1,400	8	170	8
TPH(d) diesel	NA	--	NA	--
OTHER FUEL	TRPH = 37	8	NA	--
BENZENE	6,200	8	0.012	8
TOLUENE	64,000	8	0.070 / 0.014	5 / 8
ETHYLBENZENE	33,000	8	0.63 / 0.098	5 / 8
XYLENE	73,000	8	44 / 3.8	5 / 8
MTBE	NA		NA	--
1,2-DCA	NA		NA	--
HEAVY METALS	NA		NA	--
OTHER				

Subsurface Soil Types: Silty Clay to Silty Sand overlying, poorly to well graded sand.  
Remediation: 1993-1995 Soil vapor extraction removed 12,147 pounds of hydrocarbons.

**(B) GROUNDWATER (ppb)**

CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9-15-1998	END (ug/L) DATE SAMPLED: 11/12/2013	CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9-15-1998	END (ug/L) DATE SAMPLED: 5/21/2014
TPHg	3,700	71.2	MTBE	13	<0.5
TPHd	NA	NA	ETBE	NA	<0.5
OTHER FUEL	NA	NA	TAME	NA	<0.5
BENZENE	250	1.5	DIPE	NA	<0.5
TOLUENE	150	<0.5	TBA	NA	<5
ETHYLBENZENE	330	<0.5	HEAVY METALS	NA	NA
XYLENE	460	<0.5	OTHER: 1,2-DCA	NA	NA

COMMENTS (GW remediation method(s), duration, etc):  
Remediation: 1985 -1993: Free Product Skimming system removed total of 943 gallons of Phase Separated Hydrocarbon (PSH);  
1993-1995: Soil Vapor Extraction removed 12,147 pounds of hydrocarbons.

**V. FREE PRODUCT**

WAS FREE PRODUCT ENCOUNTERED? YES[x ] NO[ ]

HAS FREE PRODUCT BEEN ADEQUATELY RECOVERED? YES[ x ] NO[ ]

## VI. CLOSURE

DOES COMPLETED CORRECTIVE ACTION PROTECT EXISTING BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES[ X ] NO[ ]

DOES COMPLETED CORRECTIVE ACTION PROTECT POTENTIAL BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES[ X ] NO[ ]

DOES THE CORRECTIVE ACTION PROTECT PUBLIC HEALTH FOR CURRENT LAND USE? YES[ X ] NO[ ]

IF NO:

WAS QUANTITATIVE OR QUALITATIVE RISK EVALUATION PERFORMED? YES[ ] NO[ ] (briefly describe below)

IF LAND USE CHANGES SHOULD RISK BE RE-EVALUATED? YES[ ] NO[ ] (briefly describe below)

SITE MANAGEMENT REQUIREMENTS? YES[ ] NO[ X ]

SHOULD CORRECTIVE ACTION BE REVIEWED IF LAND USE CHANGES? YES[ ] NO[ X ]

MONITORING WELLS DECOMMISSIONED: YES [ x ] NO[ ]

NUMBER DECOMMISSIONED: 17

NUMBER WILL BE DECOMMISSIONED:

NUMBER RETAINED: 0

LIST ENFORCEMENT ACTIONS TAKEN:

N/A

LIST ENFORCEMENT ACTIONS RESCINDED:

N/A

## VII. REMEDIATION SUMMARY AND CLOSURE RATIONALE

Remediation Summary: *Include a narrative description of the cleanup*

*Gasoline affected soil and groundwater were remediated from 1985 through 1995 utilizing Phase Separated Hydrocarbon (PSH) skimming system and Soil Vapor Extraction. A total of 943 gallons of PSH and 12,147 pounds of hydrocarbons in soil vapor were removed from the Site.*

Closure Rationale: *Justification that closure is Protective of Human and the Environment, water, Beneficial Uses that do not pose a threat to water quality.*

**Case closure was completed under the State Water Resource Control Board's "Low-Threat Underground Storage Tank Case Closure Policy":**

### General Criteria:

- *The site satisfies the policy general criteria.*

### 1. Media-Specific Criteria: Groundwater

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.

### 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air

i. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building; and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone.

### 3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure

3.3 - The regulatory agency has determined the concentration of petroleum constituents in soil will have no significant risk or adversely affect human health.

List of Acronyms:

TPH – total petroleum hydrocarbons

UST – underground storage tank

TPHg – total petroleum hydrocarbons as gasoline  
TPHd – total petroleum hydrocarbons as diesel  
MTBE – methyl *tert*-butyl ether  
ETBE – ethyl *tert*-butyl ether  
TAME – *tert*-amyl methyl ether  
DIPE – diisopropyl ether  
TBA – *tert*-butyl alcohol  
GW – groundwater  
bgs – below ground surface  
1,2-DCA – 1,2-Dichloroethane

ND – non-detected  
NA – not analyzed or not applicable  
NS – not sampled  
NT – not tested  
mg/kg – milligrams per kilogram  
ug/L – micrograms per liter  
ppm – parts per million  
ppb- parts per billion

**CASE CLOSURE SUMMARY**  
**LOW-THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY**  
**LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM**

**I. AGENCY INFORMATION**

**DATE:** 3/6/2015

AGENCY NAME:	California Environmental Protection Agency Regional Water Quality Control Board – Colorado River Basin Region (Region 7)	
ADDRESS:	73-720 Fred Waring Drive, Suite 100, Palm Desert, CA 92260	
STAFF PERSON:	Phan Le	TELEPHONE: (760) 776 - 8974

**II. CASE INFORMATION**

SITE NAME:	Kem's Mobil Station (Commingled Plume 2 - Site B)			
SITE ADDRESS:	745 West Hobsonway, Blythe, CA 92225			
RB LUSTIS CASE NO:	7T2 225 008	LOCAL AGENCY NO:	88367	
UNAUTHORIZED RELEASE FORM DATE: 6/18/1987				
RESPONSIBLE PARTIES:	ADDRESS	TELEPHONE		
City of Blythe	235 North Broadway, Blythe, CA 92225	760 922-6161		
TANK NO	SIZE (GAL)	CONTENTS	REMOVED/REPLACED/ CLOSED IN PLACE?	DATE
1	8,000	Gasoline	Removed	August 1987
2	8,000	Gasoline	Removed	August 1987
3	8,000	Gasoline	Removed	August 1987
4	6,000	Gasoline	Removed	August 1987
5	250	Waste oil	Removed	January 5, 2000

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

CAUSE OF RELEASE:	unknown			
TYPE OF RELEASE:	gasoline			
CHARACTERIZATION COMPLETE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
MONITORING WELLS INSTALLED?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/> NUMBER: 7
GW DEPTH BELOW GROUND SURFACE (ft):	HIGHEST:	6.88	LOWEST:	11.56
GW FLOW DIRECTION:	Southeast			
MOST SENSITIVE CURRENT GW USE:	Agricultural/Municipal/Domestic			
ARE DRINKING WATER WELLS AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
IS SURFACE WATER AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
NEAREST/AFFECTED SW NAME:	NA			
REPORT (S) ON FILE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
LOCATION OF REPORT(S) FILED:	Regional Water Quality Control Board – Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260			
TREATMENT & DISPOSAL OF AFFECTED MATERIAL				

MATERIAL	AMOUNT (UNIT)	ACTION/TREATMENT OR DISPOSAL DESTINATION	DATE
SOIL			
GROUNDWATER	733 gal. Phase Separated Hydrocarbons (PSH)	Offsite Disposal Recycling	1985-1993
	188,090 gallons	Water Extracted and Carbon Treat and Ditch to Sewer	2012
SOIL VAPOR	31,368 pounds hydrocarbons	Soil Vapor Extraction, Oxidize/Carbon Filtration	1993-1995
	2,401 pounds hydrocarbons	Soil Vapor Extraction	2010
	3,734.87 pounds hydrocarbons	High Vacuum Dual-Phase Extraction (HVDPE) – 61 Days	2012

#### IV. MAXIMUM CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP

##### (A) SOIL (ppm)

CONTAMINANT	BEGINNING (mg/kg) DATE SAMPLED: 7/19/1988	DEPTH (ft)	END (mg/kg) DATE SAMPLED: 5/21/2014	DEPTH (ft)
TPH(g) gasoline	120,000	7.5	NA	--
TPH(d) diesel	Not analyzed (NA)	--	NA	--
OTHER FUEL	NA	--	NA	--
BENZENE	410	7.5	Non detected (ND)	5 & 7.5
TOLUENE	1,700	7.5	ND	5 & 7.5
ETHYLBENZENE	390	7.5	ND	5 & 7.5
XYLENE	2,500	7.5	ND	5 & 7.5
MTBE	NA	--	ND	5 & 7.5
1,2-DCA	NA	--	ND	5 & 7.5
HEAVY METALS	NA	--	NA	--
OTHER	NA	--	ND Napthalene	5 & 7.5

Subsurface Soil Types: Silty Clay to Silty Sand overlying, poorly to well graded sand.

Remediation: Soil Vapor Extraction

##### (B) GROUNDWATER (ppb)

CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9-23-1998	END (ug/L) DATE SAMPLED: 11/12/2013	CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9-23-1998	END (ug/L) DATE SAMPLED: 5/21/2014
TPHg	140,000	680	MTBE	620	9.4
TPHd	NA	NA	ETBE	NA	<0.5
OTHER FUEL	NA	NA	TAME	NA	<0.5
BENZENE	13,000	99	DIPE	NA	2.9
TOLUENE	32,000	21	TBA	NA	<5
ETHYLBENZENE	3,500	39	HEAVY METALS	NA	NA
XYLENE	24,000	74	OTHER: 1,2-DCA	NA	NA



COMMENTS (GW remediation method(s), duration, etc):

Groundwater Air Sparging during Vapor Extraction.

#### V. FREE PRODUCT

WAS FREE PRODUCT ENCOUNTERED? YES[X ] NO[ ]

HAS FREE PRODUCT BEEN ADEQUATELY RECOVERED? YES[X ] NO[ ]

#### VI. CLOSURE

DOES COMPLETED CORRECTIVE ACTION PROTECT EXISTING BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES[X ] NO[ ]

DOES COMPLETED CORRECTIVE ACTION PROTECT POTENTIAL BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES[X ] NO[ ]

DOES THE CORRECTIVE ACTION PROTECT PUBLIC HEALTH FOR CURRENT LAND USE? YES[X ] NO[ ]

IF NO:

WAS QUANTITATIVE OR QUALITATIVE RISK EVALUATION PERFORMED? YES[ ] NO[ ] (briefly describe below)

IF LAND USE CHANGES SHOULD RISK BE RE-EVALUATED? YES[ ] NO[ ] (briefly describe below)

SITE MANAGEMENT REQUIREMENTS? YES[ ] NO[X ]

SHOULD CORRECTIVE ACTION BE REVIEWED IF LAND USE CHANGES? YES[ ] NO[X ]

MONITORING WELLS DECOMMISSIONED: YES [ X ] NO[ ]

NUMBER DECOMMISSIONED: 7

NUMBER WILL BE DECOMMISSIONED: 0

NUMBER RETAINED: 0

LIST ENFORCEMENT ACTIONS TAKEN:

N/A

LIST ENFORCEMENT ACTIONS RESCINDED:

N/A

#### VII. REMEDIATION SUMMARY AND CLOSURE RATIONALE

Remediation Summary: *Include a narrative description of the cleanup*

*Gasoline affected soil and groundwater were remediated between 1985 and 2012 utilizing Phase Separated Hydrocarbon (PSH) Extraction, Soil Vapor Extraction, Groundwater Air Sparging, and High Vacuum Dual Phase Extraction. A total of 733 gallons of PSH, 188,090 gallons of hydrocarbon affected groundwater, and 37,503.87 pounds of hydrocarbons in soil vapor were removed from the Site.*

*Soil concentrations of TPH and BTEX were remediated to less than the laboratory detection limit or non-detect, and groundwater concentrations were reduced by over 95%.*

*Closure Rationale: Justification that closure is Protective of Human and the Environment, water, Beneficial Uses that do not pose a threat to water quality.*

*Case closure was completed under the State Water Resource Control Board's "Low-Threat Underground Storage Tank Case Closure Policy":*

**General Criteria:**

- The site satisfies the policy general criteria.

### 1. Media-Specific Criteria: Groundwater

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.

### 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air

i. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building; and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone.

### 3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure

3.1 - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health for the specified depth below ground surface.

#### List of Acronyms:

TPH – total petroleum hydrocarbons  
TPHg – total petroleum hydrocarbons as gasoline  
TPHd – total petroleum hydrocarbons as diesel  
MTBE – methyl *tert*-butyl ether  
ETBE – ethyl *tert*-butyl ether  
TAME – *tert*-amyl methyl ether  
DIPE – diisopropyl ether  
TBA – *tert*-butyl alcohol  
GW – groundwater  
bgs – below ground surface  
1,2-DCA – 1,2-Dichloroethane

UST – underground storage tank  
ND – non-detectable  
NA – not applicable  
NS – not sampled  
NT – not tested  
mg/kg – milligrams per kilogram  
ug/L – micrograms per liter  
ppm – parts per million  
ppb- parts per billion

**CASE CLOSURE SUMMARY**  
**LOW-THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY**  
**LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM**

**I. AGENCY INFORMATION**

**DATE:** 3/06/2015

AGENCY NAME:	California Environmental Protection Agency Regional Water Quality Control Board – Colorado River Basin Region (Region 7)		
ADDRESS:	73-720 Fred Waring Drive, Suite 100, Palm Desert, CA 92260		
STAFF PERSON:	Phan Le	TELEPHONE:	(760) 776 - 8974

**II. CASE INFORMATION**

SITE NAME:		Former EZ Serve #100885 (Commingled Plume 2 - Site C)		
SITE ADDRESS:		738 West Hobsonway, Blythe, CA 92225		
RB LUSTIS CASE NO:		7T2 225 025	LOCAL AGENCY NO:	
UNAUTHORIZED RELEASE FORM DATE: 10/17/1989				
RESPONSIBLE PARTIES:		ADDRESS	TELEPHONE	
City of Blythe		235 North Broadway, Blythe, CA 92225	760 922-6161	
TANK NO	SIZE (GAL)	CONTENTS	REMOVED/REPLACED/ CLOSED IN PLACE?	DATE
1	10,000	Gasoline	Removed	November 1989
2	10,000	Gasoline	Removed	November 1989
3	10,000	Gasoline	Removed	November 1989
4	250	Waste Oil	Removed	November 1989

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

CAUSE OF RELEASE:	Unknown			
TYPE OF RELEASE:	Gasoline			
CHARACTERIZATION COMPLETE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
MONITORING WELLS INSTALLED?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/> NUMBER: 21
GW DEPTH BELOW GROUND SURFACE (ft):	HIGHEST:	5.78	LOWEST:	11.81
GW FLOW DIRECTION:	Southeast			
MOST SENSITIVE CURRENT GW USE:	Agricultural/Municipal/Domestic			
ARE DRINKING WATER WELLS AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
IS SURFACE WATER AFFECTED:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
NEAREST/AFFECTED SW NAME:	NA			
REPORT (S) ON FILE?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
LOCATION OF REPORT(S) FILED:	Regional Water Quality Control Board – Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260			
TREATMENT & DISPOSAL OF AFFECTED MATERIAL				
MATERIAL	AMOUNT (UNIT)	ACTION/TREATMENT OR DISPOSAL DESTINATION	DATE	

SOIL	1,764 cubic yards	Remedial Excavation	August 2010
GROUNDWATER	129,390 gallons	Extracted and Carbon Treated for offsite disposal	2012
SOIL VAPOR	4,037.73 pounds	High Vacuum Dual-Phase Extraction (HVDPE) – 32 Days	2012

#### IV. MAXIMUM CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP

##### (A) SOIL (ppm)

CONTAMINANT	BEGINNING (mg/kg) DATE SAMPLED: 7/08/1989	DEPTH (ft)	END (mg/kg) DATE SAMPLED: 5/21/2014	DEPTH (ft)
TPH(g) gasoline	2,452	5	Non-Detect (ND)	5
TPH(d) diesel	Not-analyzed (NA)	--	NA	--
OTHER FUEL	NA	--	NA	--
BENZENE	13.8	5	ND	5
TOLUENE	62	5	ND	5
ETHYLBENZENE	21.8	5	ND	5
XYLENE	126	5	ND	5
MTBE	NA	--	ND	5
1,2-DCA	NA	--	NA	--
HEAVY METALS	NA	--	NA	--
OTHER	NA	--	ND - Napthalene	5

Subsurface Soil Types: Poorly to well graded sand with gravel, some silty to clayey lenses.

Remediation: Soil Excavation and High Vacuum Dual-Phase Extraction (HVDPE).

##### (B) GROUNDWATER (ppb)

CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9/16/1998 & 9/13/2005	END (ug/L) DATE SAMPLED: 11/12/2013	CONTAMINANT	BEGINNING (ug/L) DATE SAMPLED: 9/16/1998 & 9/13/2005	END (ug/L) DATE SAMPLED: 5/21/2014
TPHg	51,000	2,750	MTBE	760	1.8
TPHd	Not-analyzed (NA)	--	ETBE	1,300	<0.5
OTHER FUEL	NA	--	TAME	<25	<0.5
BENZENE	4,900	58	DIPE	14	2.3
TOLUENE	2,000	<0.5	TBA	45	<5
ETHYLBENZENE	1,400	620	HEAVY METALS	NA	--
XYLENE	10,100	20	OTHER: 1,2-DCA	NA	--

COMMENTS (GW remediation method(s), duration, etc):

High Vacuum Dual-Phase Extraction with groundwater extraction.

#### V. FREE PRODUCT

WAS FREE PRODUCT ENCOUNTERED? YES NO

HAS FREE PRODUCT BEEN ADEQUATELY RECOVERED? YES NO

#### VI. CLOSURE

DOES COMPLETED CORRECTIVE ACTION PROTECT EXISTING BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES NO

DOES COMPLETED CORRECTIVE ACTION PROTECT POTENTIAL BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN? YES NO

DOES THE CORRECTIVE ACTION PROTECT PUBLIC HEALTH FOR CURRENT LAND USE? YES NO

IF NO:

WAS QUANTITATIVE OR QUALITATIVE RISK EVALUATION PERFORMED? YES  NO  (briefly describe below)

IF LAND USE CHANGES SHOULD RISK BE RE-EVALUATED? YES  NO  (briefly describe below)

SITE MANAGEMENT REQUIREMENTS? YES  NO

SHOULD CORRECTIVE ACTION BE REVIEWED IF LAND USE CHANGES? YES  NO

MONITORING WELLS DECOMMISSIONED: YES  NO

NUMBER DECOMMISSIONED: 21

NUMBER WILL BE DECOMMISSIONED: NA

NUMBER RETAINED: NA

LIST ENFORCEMENT ACTIONS TAKEN:

NA

LIST ENFORCEMENT ACTIONS RESCINDED:

NA

#### VII. REMEDIATION SUMMARY AND CLOSURE RATIONALE

Remediation Summary: *Include a narrative description of the cleanup*

*Gasoline affected soil and groundwater were remediated between 2010 and 2012 utilizing Soil Excavation and High Vacuum Dual Phase Extraction. A total of 129,390 gallons of hydrocarbon affected groundwater, and 4,037.73 pounds of hydrocarbons in soil vapor were removed from the Site.*

*Soil concentrations of TPH and BTEX were remediated to less than the laboratory detection limit or non-detect.*

*Closure Rationale: Justification that closure is Protective of Human and the Environment, water, Beneficial Uses that do not pose a threat to water quality.*

***Case closure was completed under the State Water Resource Control Board's "Low-Threat Underground Storage Tank Case Closure Policy":***

***General Criteria:***

- The site satisfies the policy general criteria.

**1. Media-Specific Criteria: Groundwater**

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.

**2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air**

i. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved

phase benzene and the foundation of existing or potential building; and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone.

### 3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure

3.3 - The regulatory agency has determined the concentration of petroleum constituents in soil will have no significant risk or adversely affect human health.

#### List of Acronyms:

TPH – total petroleum hydrocarbons  
TPHg – total petroleum hydrocarbons as gasoline  
TPHd – total petroleum hydrocarbons as diesel  
MTBE – methyl *tert*-butyl ether  
ETBE – ethyl *tert*-butyl ether  
TAME – *tert*-amyl methyl ether  
DIPE – diisopropyl ether  
TBA – *tert*-butyl alcohol  
GW – groundwater  
bgs – below ground surface  
1,2-DCA – 1,2-Dichloroethane

UST – underground storage tank  
ND – non-detectable  
NA – not applicable  
NS – not sampled  
NT – not tested  
mg/kg – milligrams per kilogram  
ug/L – micrograms per liter  
ppm – parts per million  
ppb- parts per billion