

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR



Initial Report



Final Report

Name of Company: El Paso Natural Gas Company, LLC, a subsidiary of Kinder Morgan Inc.	Contact: Amy Blythe
Address: 2 North Nevada Avenue Colorado Springs, Colorado 80903	Telephone No. (719) 520-4813
Facility Name: EPNG California Main Line (Line No. 1100)	Facility Type: 26-inch O. D. steel natural gas pipeline

Surface Owner: Bureau of Land Management	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section 9	Township 23 South	Range 19 West	Feet from the	North/South Line	Feet from the	East/West Line	County: Hidalgo
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Latitude 32.315542 Longitude -108.800707 NAD83

NATURE OF RELEASE

Type of Release: Hydrostatic test water from an existing natural gas pipeline	Volume of Release: Approximately 1,000 gallons	Volume Recovered
Source of Release: pipeline leak during pressure test	Date and Hour of Occurrence 11/07/2017 6:56 am	Date and Hour of Discovery 11/07/2017 6:56 am
Was Immediate Notice Given? Notice was given within 24 hours ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD District Office (Hobbs), Env. Specialist - Mike Bratcher NMOCD State Office, Environmental Bureau Chief - Jim Griswold	
By Whom? Amy Blythe	Date and Hour: 11/07/2017 at 12:40 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. *Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

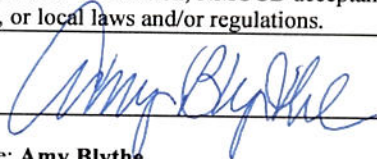
EPNG was in the process of conducting a hydrostatic pressure test of the existing 26" O.D. Line No. 1100 in **Segment 5 between Milepost 350+5227 and Milepost 353+4200**. The pipeline segment was filled with approximately 390,950 gallons of water the night before to prepare for beginning the pressure test the next morning. On the morning of 11/7/2017, crews noticed that the test segment would not hold pressure. A small leak was detected on the surface. Approximately 1,000 gallons of hydrostatic test water was released into the ground. On Wednesday November 8th, EPNG Crews excavated the area, identified a small pinhole in one of the pipe welds. The damaged pipe was cut out and replaced with new pipe by November 12, 2017. Segment 5 was successfully pressure tested by 5:30 pm on November 13, 2017.

Samples of the test water and impacted soil were collected on 11/07/2017 and delivered to Xenco Laboratories in El Paso, Texas on 11/08/2017. The waste water sample was analyzed for the following tests: Flashpoint, pH, VPC's (Method 8260), TCLP Metals, PCB's, TCLP BTEX, TPH Method 8015. The soil sample was analyzed for the following parameters: VOC's (Method 8260), PCB's, LCLP BTEX, PHG Method 8015 and NORMS. See **Attachment 8, Certificate of Analysis Summary Work Order No. 567776**.

Describe Area Affected and Cleanup Action Taken.*

Impacted soil was side cast during the pipeline repair. The BLM Las Cruces Field Office was notified on November 7, 2017. Analytical results will also be submitted to the BLM for final approval to backfill.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

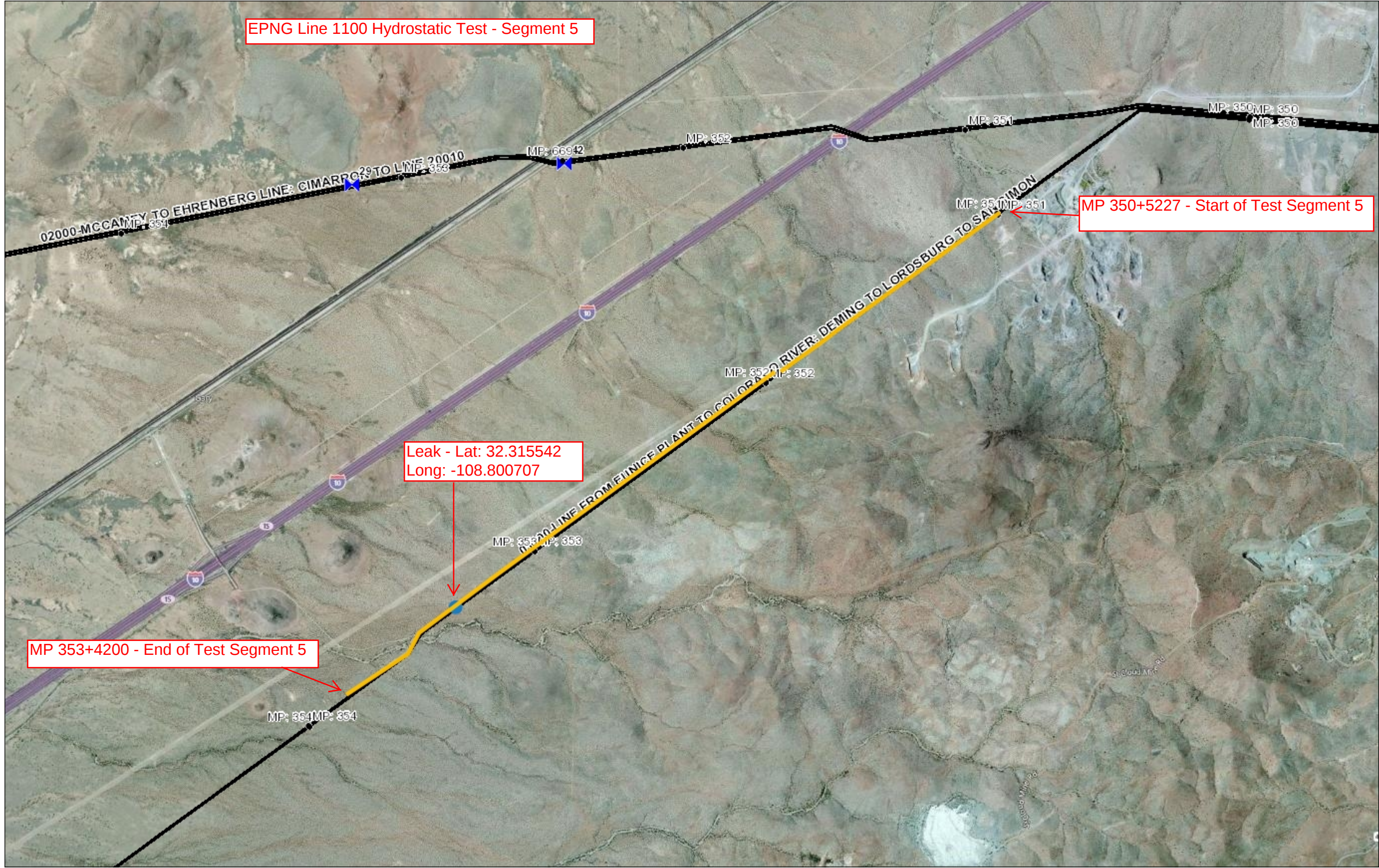
Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Amy Blythe		Approved by Environmental Specialist:	
Title: Environmental Specialist II		Approval Date:	Expiration Date:
E-mail Address: <u>amy_blythe@kindermorgan.com</u>		Conditions of Approval:	Attached ☐
Date: 11/20/2017 Phone: (719) 520-4813			

* Attach Additional Sheets If Necessary

Attachment A – Aerial View Maps



A Different Kind of ENERGY COMPANY



Legend

M.P. MARKER

VALVE

METER

NATURAL GAS CL

OTHER

EFC

HORIZON

KINDERHAWK

KM Illinois Pipeline

KM Louisiana Pipeline

KM Meir Monterrey

KM North Texas Pipeline

KM Treating LP

KM Texas Pipeline

Midcontinent Express Pipeline

NGPL

TransColorado Pipeline

KM Tejas Pipeline

Colorado Interstate Gas

El Paso Natural Gas

Southern Natural Gas

Tennessee Gas Pipeline

COPANO

HILAND PARTNERS

SIERRITA

ALTAMONT

Station Outlines



Legend

- M.P. MARKER
- PIPE SEGMENT
- ✕ VALVE
- ROUTE
- Ⓜ METER
- DOT_SEGMENT
 - OTHER
 - EFC
 - HORIZON
 - KINDERHAWK
 - KM Illinois Pipeline
 - KM Louisiana Pipeline
 - KM Meir Monterrey
 - KM North Texas Pipeline
 - KM Treating LP
 - KM Texas Pipeline
 - Midcontinent Express Pipeline
 - NGPL
 - TransColorado Pipeline
 - KM Tejas Pipeline
 - Colorado Interstate Gas
 - El Paso Natural Gas
 - Southern Natural Gas
 - Tennessee Gas Pipeline
 - COPANO
 - HILAND PARTNERS
 - SIERRITA
 - ALTAMONT
- Station Outlines
- Parcels
- ▣ JEFF TOWNSHIP RANGE
- CARTERTWP
- JEFFSEC_Project
- TEXASABS

Notes

0.4 0 0.20 0.4 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Kinder Morgan

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Attachment B – Xenco Laboratories
Certificate of Analysis Summary WO No. 567776



Certificate of Analysis Summary 567776

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100 - Hydrotreset

Project Id:

Contact: Amy Blythe

Project Location: Lordsburg, NM

Date Received in Lab: Wed Nov-08-17 09:30 am

Report Date: 17-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	567776-001	567776-002				
	Field Id:	WW110717 - 001 - 007	S110717 - 008				
	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
PCBs by EPA 8082 SUB: TX104704215-17-23	Extracted:	Nov-10-17 17:09	Nov-10-17 08:18				
	Analyzed:	Nov-13-17 14:45	Nov-13-17 12:38				
	Units/RL:	mg/L RL	mg/kg RL				
	PCB-1016	<0.000100 0.000100	<0.00500 0.00500				
	PCB-1221	<0.000100 0.000100	<0.00500 0.00500				
PCB-1232		<0.000100 0.000100	<0.00500 0.00500				
PCB-1242		<0.000100 0.000100	<0.00500 0.00500				
PCB-1248		<0.000100 0.000100	<0.00500 0.00500				
PCB-1254		<0.000100 0.000100	<0.00500 0.00500				
PCB-1260		<0.000100 0.000100	<0.00500 0.00500				
Total PCB		<0.000100 0.000100	<0.00500 0.00500				
TPH by SW 8015B SUB: TX104704215-17-23	Extracted:	Nov-13-17 10:27	Nov-09-17 13:30				
	Analyzed:	Nov-13-17 11:14	Nov-11-17 16:18				
	Units/RL:	mg/L RL	mg/kg RL				
	C6-C10 Gasoline Range Hydrocarbons	15.4 1.50	66.3 14.9				
	C10-C28 Diesel Range Organics	10.4 1.50	47.2 14.9				
Total TPH		32.8 1.50	260 14.9				
Flash Point (CC) SW-846 1010 SUB: TX104704215-17-23	Extracted:						
	Analyzed:	Nov-13-17 10:00					
	Units/RL:	Deg F RL					
	Flash Point	>180					

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Mike Kimmel
Client Services Manager



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Report Date: 17-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	567776-001	567776-002				
	Field Id:	WW110717 - 001 - 007	S110717 - 008				
	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
NORM analysis by E901.1 MOD SUB: T104704400-17-13	Extracted:						
	Analyzed:		Nov-13-17 08:00				
	Units/RL:		pCi/g RL				
Thorium-228			<				
Thorium-230			<				
Radium-226			<				
Radium-228			<				
Actinium 228			<				
Lead-210			<				
Iron-59			<				
Iron-55			<				
Cobalt-60			<				
Cesium-137			<				
Antimony-125			<				
Barium-133			<				
Beryllium-7			<				
Bismuth-214			<				
Cadmium-109			<				
Cobalt-57			<				
Cobalt-58			<				
Iodine-131			<				
Lead-214			<				
Manganese-54			<				
Silver 108 (metastable)			<				
Silver-110m (metastable)			<				
Sodium-22			<				
Tin 113			<				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
NORM analysis by E901.1 MOD SUB: T104704400-17-13	Extracted:						
	Analyzed:		Nov-13-17 08:00				
	Units/RL:		pCi/g RL				
Zinc-65			<				
Zirconium-95			<				
Chromium-51			<				
Germanium-68			<				
Cesium-134			<				
Niobium-94			<				
Niobium-95			<				
Protactinium 231			<				
Protactinium 234			<				
Radium-223			<				
Radium-224			<				
Ruthenium-103			<				
Ruthenium-106			<				
Strontium 85			<				
Thorium-234			<				
Uranium-234			<				
Uranium-235			<				
Cesium-136			<				
Radium-222			<				
Francium-223			<				
Protactinium 234M			<				
Antimony-124			<				
Thorium-227			<0.0000100 0.0000100				
Yttrium 88			<0.0000100 0.0000100				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
NORM analysis by E901.1 MOD SUB: T104704400-17-13	Extracted:						
	Analyzed:		Nov-13-17 08:00				
	Units/RL:		pCi/g RL				
Potassium-40			<				
Thorium-232			<				
Americium-241			<				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:		Nov-10-17 18:30				
	Analyzed:		Nov-10-17 21:22				
	Units/RL:		mg/kg RL				
Benzene			<0.124 0.124				
Bromobenzene			<0.124 0.124				
Bromochloromethane			<0.124 0.124				
Bromodichloromethane			<0.124 0.124				
Bromoform			<0.124 0.124				
Methyl bromide			<0.124 0.124				
tert-Butylbenzene			<0.124 0.124				
Sec-Butylbenzene			<0.124 0.124				
n-Butylbenzene			<0.124 0.124				
Carbon Tetrachloride			<0.124 0.124				
Chlorobenzene			<0.124 0.124				
Chloroethane			<0.248 0.248				
Chloroform			<0.124 0.124				
Methyl Chloride			<0.248 0.248				
2-Chlorotoluene			<0.124 0.124				
4-Chlorotoluene			<0.124 0.124				
p-Cymene (p-Isopropyltoluene)			<0.124 0.124				
1,2-Dibromo-3-Chloropropane			<0.124 0.124				
Dibromochloromethane			<0.124 0.124				
1,2-Dibromoethane			<0.124 0.124				
Methylene bromide			<0.124 0.124				
1,2-Dichlorobenzene			<0.124 0.124				
1,3-Dichlorobenzene			<0.124 0.124				
1,4-Dichlorobenzene			<0.124 0.124				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:		Nov-10-17 18:30				
	Analyzed:		Nov-10-17 21:22				
	Units/RL:		mg/kg RL				
Dichlorodifluoromethane			<0.124 0.124				
1,2-Dichloroethane			<0.124 0.124				
1,1-Dichloroethane			<0.124 0.124				
trans-1,2-dichloroethylene			<0.124 0.124				
cis-1,2-Dichloroethylene			<0.124 0.124				
1,1-Dichloroethene			<0.124 0.124				
2,2-Dichloropropane			<0.124 0.124				
1,3-Dichloropropane			<0.124 0.124				
1,2-Dichloropropane			<0.124 0.124				
trans-1,3-dichloropropene			<0.124 0.124				
1,1-Dichloropropene			<0.124 0.124				
cis-1,3-Dichloropropene			<0.124 0.124				
Ethylbenzene			<0.124 0.124				
Hexachlorobutadiene			<0.124 0.124				
Isopropylbenzene			<0.124 0.124				
Methylene Chloride			<0.495 0.495				
MTBE			<0.124 0.124				
Naphthalene			<0.248 0.248				
n-Propylbenzene			<0.124 0.124				
Styrene			<0.124 0.124				
1,1,1,2-Tetrachloroethane			<0.124 0.124				
1,1,2,2-Tetrachloroethane			<0.124 0.124				
Tetrachloroethylene			<0.124 0.124				
Toluene			<0.124 0.124				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:		Nov-10-17 18:30				
	Analyzed:		Nov-10-17 21:22				
	Units/RL:		mg/kg RL				
1,2,3-Trichlorobenzene			<0.124 0.124				
1,2,4-Trichlorobenzene			<0.124 0.124				
1,1,2-Trichloroethane			<0.124 0.124				
1,1,1-Trichloroethane			<0.124 0.124				
Trichloroethylene			<0.124 0.124				
Trichlorofluoromethane			<0.124 0.124				
1,2,3-Trichloropropane			<0.124 0.124				
1,2,4-Trimethylbenzene			<0.124 0.124				
1,3,5-Trimethylbenzene			<0.124 0.124				
Vinyl Chloride			<0.0495 0.0495				
o-Xylene			<0.124 0.124				
m,p-Xylenes			<0.248 0.248				
Total Xylenes			<0.124 0.124				

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-10-17 16:50					
	Analyzed:	Nov-10-17 18:24					
	Units/RL:	mg/L RL					
Benzene		1.16 0.100					
Bromobenzene		<0.100 0.100					
Bromochloromethane		<0.100 0.100					
Bromodichloromethane		<0.100 0.100					
Bromoform		<0.100 0.100					
Methyl bromide		<0.100 0.100					
n-Butylbenzene		<0.100 0.100					
Sec-Butylbenzene		<0.100 0.100					
tert-Butylbenzene		<0.100 0.100					
Carbon Tetrachloride		<0.100 0.100					
Chlorobenzene		<0.100 0.100					
Chloroethane		<0.200 0.200					
Chloroform		<0.100 0.100					
Methyl Chloride		<0.200 0.200					
2-Chlorotoluene		<0.100 0.100					
4-Chlorotoluene		<0.100 0.100					
p-Cymene (p-Isopropyltoluene)		<0.100 0.100					
Dibromochloromethane		<0.100 0.100					
1,2-Dibromo-3-Chloropropane		<0.100 0.100					
1,2-Dibromoethane		<0.100 0.100					
Methylene bromide		<0.100 0.100					
1,2-Dichlorobenzene		<0.100 0.100					
1,3-Dichlorobenzene		<0.100 0.100					
1,4-Dichlorobenzene		<0.100 0.100					

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	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-10-17 16:50					
	Analyzed:	Nov-10-17 18:24					
	Units/RL:	mg/L RL					
Dichlorodifluoromethane		<0.100 0.100					
1,1-Dichloroethane		<0.100 0.100					
1,2-Dichloroethane		<0.100 0.100					
1,1-Dichloroethene		<0.100 0.100					
cis-1,2-Dichloroethylene		<0.100 0.100					
trans-1,2-dichloroethylene		<0.100 0.100					
1,2-Dichloropropane		<0.100 0.100					
1,3-Dichloropropane		<0.100 0.100					
2,2-Dichloropropane		<0.100 0.100					
1,1-Dichloropropene		<0.100 0.100					
cis-1,3-Dichloropropene		<0.100 0.100					
trans-1,3-dichloropropene		<0.100 0.100					
Ethylbenzene		<0.100 0.100					
Hexachlorobutadiene		<0.100 0.100					
Isopropylbenzene		<0.100 0.100					
Methylene Chloride		<0.100 0.100					
MTBE		<0.100 0.100					
Naphthalene		<0.200 0.200					
n-Propylbenzene		<0.100 0.100					
Styrene		<0.100 0.100					
1,1,1,2-Tetrachloroethane		<0.100 0.100					
1,1,2,2-Tetrachloroethane		<0.100 0.100					
Tetrachloroethylene		<0.100 0.100					
Toluene		1.68 0.100					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.0%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567776

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100 - Hydrotaset

Project Id:

Contact: Amy Blythe

Project Location: Lordsburg, NM

Date Received in Lab: Wed Nov-08-17 09:30 am

Report Date: 17-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	567776-001	567776-002				
	Field Id:	WW110717 - 001 - 007	S110717 - 008				
	Depth:	N/A					
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-10-17 16:50					
	Analyzed:	Nov-10-17 18:24					
	Units/RL:	mg/L RL					
	1,2,3-Trichlorobenzene	<0.100 0.100					
	1,2,4-Trichlorobenzene	<0.100 0.100					
	1,1,1-Trichloroethane	<0.100 0.100					
	1,1,2-Trichloroethane	<0.100 0.100					
	Trichloroethylene	<0.100 0.100					
	Trichlorofluoromethane	<0.100 0.100					
	1,2,3-Trichloropropane	<0.100 0.100					
	1,2,4-Trimethylbenzene	<0.100 0.100					
	1,3,5-Trimethylbenzene	<0.100 0.100					
	o-Xylene	<0.100 0.100					
	m,p-Xylenes	<0.200 0.200					
pH by SM4500-H	Extracted:	Nov-08-17 14:05					
	Analyzed:	Nov-08-17 14:05					
	Units/RL:	Deg C RL					
Temperature		21.8 K					
pH by SM4500-H	Extracted:	Nov-08-17 14:05					
	Analyzed:	Nov-08-17 14:05					
	Units/RL:	SU RL					
pH		7.87 K					

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Version: 1.0%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567776

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100 - Hydrotaset

Project Id:

Contact: Amy Blythe

Project Location: Lordsburg, NM

Date Received in Lab: Wed Nov-08-17 09:30 am

Report Date: 17-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	567776-001	567776-002				
	Field Id:	WW110717 - 001 - 007	S110717 - 008				
	Depth:	N/A	N/A				
	Matrix:	WATER	SOIL				
	Sampled:	Nov-07-17 15:02	Nov-07-17 16:16				
TCLP BTEX by SW 8260B SUB: TX104704215-17-23	Extracted:	Nov-10-17 17:00	Nov-10-17 17:00				
	Analyzed:	Nov-10-17 21:16	Nov-10-17 19:37				
	Units/RL:	mg/L RL	mg/L RL				
	Benzene	0.796 0.0100	<0.00500 0.00500				
	Toluene	1.04 0.0100	<0.00500 0.00500				
Ethylbenzene		0.0360 0.0100	<0.00500 0.00500				
m,p-Xylenes		0.0753 0.0200	<0.0100 0.0100				
o-Xylene		0.0127 0.0100	<0.00500 0.00500				
TCLP Mercury by SW 7470A SUB: TX104704215-17-23	Extracted:	Nov-10-17 12:20	Nov-15-17 11:45				
	Analyzed:	Nov-10-17 16:49	Nov-15-17 15:27				
	Units/RL:	mg/L RL	mg/L RL				
Mercury		<0.000200 0.000200	<0.000200 0.000200				
TCLP Metals by SW 1311/6010B SUB: TX104704215-17-23	Extracted:	Nov-15-17 10:05	Nov-15-17 10:05				
	Analyzed:	Nov-15-17 19:01	Nov-15-17 19:05				
	Units/RL:	mg/L RL	mg/L RL				
Arsenic		<0.0500 0.0500	<0.0500 0.0500				
Barium		0.207 0.0500	1.36 0.0500				
Cadmium		<0.0250 0.0250	<0.0250 0.0250				
Chromium		<0.0500 0.0500	<0.0500 0.0500				
Lead		<0.0500 0.0500	<0.0500 0.0500				
Selenium		<0.100 0.100	<0.100 0.100				
Silver		<0.100 0.100	<0.100 0.100				

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Version: 1.0%

Mike Kimmel
Client Services Manager

Analytical Report 567776

for Kinder Morgan-El Paso

Project Manager: Amy Blythe

KMI L1100 - Hydroteset

17-NOV-17

Collected By: Client



200 East Sunset Rd, Suite E, El Paso, TX 79922

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



17-NOV-17

Project Manager: **Amy Blythe**

Kinder Morgan-El Paso

8645 Railroad Dr.

El Paso, TX 79904

Reference: XENCO Report No(s): **567776**

KMI L1100 - Hydroteset

Project Address: Lordsburg, NM

Amy Blythe :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 567776. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 567776 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Mike Kimmel', is positioned above a horizontal line.

Mike Kimmel

Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WW110717 - 001 - 007	W	11-07-17 15:02	N/A	567776-001
S110717 - 008	S	11-07-17 16:16	N/A	567776-002



CASE NARRATIVE

Client Name: *Kinder Morgan-El Paso*

Project Name: *KMI L1100 - Hydroteset*

Project ID:

Work Order Number(s): 567776

Report Date: 17-NOV-17

Date Received: 11/08/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3033162 VOCs by SW-846 8260B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **WW110717 - 001 - 007**

Matrix: Water

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-001

Date Collected: 11.07.17 15.02

Analytical Method: pH by SM4500-H

Tech: MLC

% Moisture:

Analyst: MLC

Seq Number: 3032759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	7.87		SU	11.08.17 14.05	K	1
Temperature	TEMP	21.8		Deg C	11.08.17 14.05	K	1

Analytical Method: TCLP Mercury by SW 7470A

Prep Method: SW7470P

Tech: AHI

% Moisture:

Analyst: ELW

Date Prep: 11.10.17 12.20

Seq Number: 3033017

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	<0.000200	0.000200	mg/L	11.10.17 16.49	U	1

Analytical Method: TCLP Metals by SW 1311/6010B

Prep Method: SW3010A

Tech: MLI

% Moisture:

Analyst: DEP

Date Prep: 11.15.17 10.05

Seq Number: 3033482

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	<0.0500	0.0500	mg/L	11.15.17 19.01	U	1
Barium	7440-39-3	0.207	0.0500	mg/L	11.15.17 19.01		1
Cadmium	7440-43-9	<0.0250	0.0250	mg/L	11.15.17 19.01	U	1
Chromium	7440-47-3	<0.0500	0.0500	mg/L	11.15.17 19.01	U	1
Lead	7439-92-1	<0.0500	0.0500	mg/L	11.15.17 19.01	U	1
Selenium	7782-49-2	<0.100	0.100	mg/L	11.15.17 19.01	U	1
Silver	7440-22-4	<0.100	0.100	mg/L	11.15.17 19.01	U	1



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **WW110717 - 001 - 007**

Matrix: Water

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-001

Date Collected: 11.07.17 15.02

Analytical Method: Flash Point (CC) SW-846 1010

Tech: DHE

% Moisture:

Analyst: DHE

Seq Number: 3033161

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Flash Point		>180		Deg F	11.13.17 10.00	U	1

Analytical Method: PCBs by EPA 8082

Prep Method: SW3510C

Tech: JVI

% Moisture:

Analyst: JVI

Date Prep: 11.10.17 17.09

Seq Number: 3033278

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
PCB-1016	12674-11-2	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1221	11104-28-2	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1232	11141-16-5	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1242	53469-21-9	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1248	12672-29-6	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1254	11097-69-1	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
PCB-1260	11096-82-5	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1
Total PCB	1336-36-3	<0.000100	0.000100	mg/L	11.13.17 14.45	U	1

Surrogate

Tetrachloro-m-xylene
Decachlorobiphenyl

Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
877-09-8	105	%	50-125	11.13.17 14.45	
2051-24-3	106	%	45-162	11.13.17 14.45	



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **WW110717 - 001 - 007**

Matrix: Water

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-001

Date Collected: 11.07.17 15.02

Analytical Method: TPH by SW 8015B

Prep Method: SW8015P

Tech: ISU

% Moisture:

Analyst: ISU

Date Prep: 11.13.17 10.27

Seq Number: 3033096

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	15.4	1.50	mg/L	11.13.17 11.14		1
C10-C28 Diesel Range Organics	C10C28DRO	10.4	1.50	mg/L	11.13.17 11.14		1
Total TPH	PHC635	32.8	1.50	mg/L	11.13.17 11.14		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	73	%	70-135	11.13.17 11.14		
o-Terphenyl	84-15-1	75	%	70-135	11.13.17 11.14		

Analytical Method: TCLP BTEX by SW 8260B

Prep Method: SW5030B

Tech: JTR

% Moisture:

Analyst: JTR

Date Prep: 11.10.17 17.00

Seq Number: 3033028

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.796	0.0100	mg/L	11.10.17 21.16		10
Toluene	108-88-3	1.04	0.0100	mg/L	11.10.17 21.16		10
Ethylbenzene	100-41-4	0.0360	0.0100	mg/L	11.10.17 21.16		10
m,p-Xylenes	179601-23-1	0.0753	0.0200	mg/L	11.10.17 21.16		10
o-Xylene	95-47-6	0.0127	0.0100	mg/L	11.10.17 21.16		10
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	106	%	75-131	11.10.17 21.16		
1,2-Dichloroethane-D4	17060-07-0	124	%	63-144	11.10.17 21.16		
Toluene-D8	2037-26-5	93	%	80-117	11.10.17 21.16		



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydrotreset

Sample Id: **WW110717 - 001 - 007**

Matrix: Water

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-001

Date Collected: 11.07.17 15.02

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.10.17 16.50

Seq Number: 3032975

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.16	0.100	mg/L	11.10.17 18.24		20
Bromobenzene	108-86-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Bromochloromethane	74-97-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Bromodichloromethane	75-27-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Bromoform	75-25-2	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Methyl bromide	74-83-9	<0.100	0.100	mg/L	11.10.17 18.24	U	20
n-Butylbenzene	104-51-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Sec-Butylbenzene	135-98-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
tert-Butylbenzene	98-06-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Carbon Tetrachloride	56-23-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Chlorobenzene	108-90-7	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Chloroethane	75-00-3	<0.200	0.200	mg/L	11.10.17 18.24	U	20
Chloroform	67-66-3	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Methyl Chloride	74-87-3	<0.200	0.200	mg/L	11.10.17 18.24	U	20
2-Chlorotoluene	95-49-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
4-Chlorotoluene	106-43-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Dibromochloromethane	124-48-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2-Dibromo-3-Chloropropane	96-12-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2-Dibromoethane	106-93-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Methylene bromide	74-95-3	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2-Dichlorobenzene	95-50-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,3-Dichlorobenzene	541-73-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,4-Dichlorobenzene	106-46-7	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Dichlorodifluoromethane	75-71-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1-Dichloroethane	75-34-3	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2-Dichloroethane	107-06-2	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1-Dichloroethene	75-35-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
cis-1,2-Dichloroethylene	156-59-2	<0.100	0.100	mg/L	11.10.17 18.24	U	20
trans-1,2-dichloroethylene	156-60-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2-Dichloropropane	78-87-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,3-Dichloropropane	142-28-9	<0.100	0.100	mg/L	11.10.17 18.24	U	20
2,2-Dichloropropane	594-20-7	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1-Dichloropropene	563-58-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
cis-1,3-Dichloropropene	10061-01-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
trans-1,3-dichloropropene	10061-02-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Ethylbenzene	100-41-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Hexachlorobutadiene	87-68-3	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Isopropylbenzene	98-82-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **WW110717 - 001 - 007**

Matrix: Water

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-001

Date Collected: 11.07.17 15.02

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.10.17 16.50

Seq Number: 3032975

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methylene Chloride	75-09-2	<0.100	0.100	mg/L	11.10.17 18.24	U	20
MTBE	1634-04-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Naphthalene	91-20-3	<0.200	0.200	mg/L	11.10.17 18.24	U	20
n-Propylbenzene	103-65-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Styrene	100-42-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1,1,2-Tetrachloroethane	630-20-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1,2,2-Tetrachloroethane	79-34-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Tetrachloroethylene	127-18-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Toluene	108-88-3	1.68	0.100	mg/L	11.10.17 18.24		20
1,2,3-Trichlorobenzene	87-61-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2,4-Trichlorobenzene	120-82-1	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1,1-Trichloroethane	71-55-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,1,2-Trichloroethane	79-00-5	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Trichloroethylene	79-01-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
Trichlorofluoromethane	75-69-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2,3-Trichloropropane	96-18-4	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,2,4-Trimethylbenzene	95-63-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
1,3,5-Trimethylbenzene	108-67-8	<0.100	0.100	mg/L	11.10.17 18.24	U	20
o-Xylene	95-47-6	<0.100	0.100	mg/L	11.10.17 18.24	U	20
m,p-Xylenes	179601-23-1	<0.200	0.200	mg/L	11.10.17 18.24	U	20
Vinyl Chloride	75-01-4	<0.0400	0.0400	mg/L	11.10.17 18.24	U	20
Total Xylenes	1330-20-7	<0.100	0.100	mg/L	11.10.17 18.24	U	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	95	%	75-131	11.10.17 18.24	
1,2-Dichloroethane-D4	17060-07-0	102	%	63-144	11.10.17 18.24	
Toluene-D8	2037-26-5	102	%	80-117	11.10.17 18.24	
4-Bromofluorobenzene	460-00-4	103	%	74-124	11.10.17 18.24	



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: S110717 - 008

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: PCBs by EPA 8082

Prep Method: SW3545

Tech: JOP

% Moisture:

Analyst: JVI

Date Prep: 11.10.17 08.18

Basis: Wet Weight

Seq Number: 3033259

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
PCB-1016	12674-11-2	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1221	11104-28-2	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1232	11141-16-5	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1242	53469-21-9	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1248	12672-29-6	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1254	11097-69-1	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
PCB-1260	11096-82-5	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
Total PCB	1336-36-3	<0.00500	0.00500	mg/kg	11.13.17 12.38	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	100		%	39-125	11.13.17 12.38	
Tetrachloro-m-xylene	877-09-8	89		%	37-124	11.13.17 12.38	



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydrotreset

Sample Id: S110717 - 008

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: NORM analysis by E901.1 MOD

Tech: JUM

% Moisture:

Analyst: JUM

Basis: Wet Weight

Seq Number: 3033138

SUB: T104704400-17-13

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Thorium-228	14274-82-9	<			pCi/g	11.13.17 08.00		1
Thorium-230	14269-63-7	<			pCi/g	11.13.17 08.00		1
Radium-226	13982-63-3	<			pCi/g	11.13.17 08.00		1
Radium-228	15262-20-1	<			pCi/g	11.13.17 08.00		1
Actinium 228	14331-83-0	<			pCi/g	11.13.17 08.00		1
Lead-210	14255-04-0	<			pCi/g	11.13.17 08.00		1
Iron-59	7439-89-6	<			pCi/g	11.13.17 08.00		1
Iron-55	14681-59-5	<			pCi/g	11.13.17 08.00		1
Cobalt-60		<			pCi/g	11.13.17 08.00		1
Cesium-137	7440-46-2	<			pCi/g	11.13.17 08.00		1
Antimony-124		<			pCi/g	11.13.17 08.00		1
Antimony-125		<			pCi/g	11.13.17 08.00		1
Barium-133	13981-41-4	<			pCi/g	11.13.17 08.00		1
Beryllium-7	137-10-0	<			pCi/g	11.13.17 08.00		1
Bismuth-214	14733-03-0	<			pCi/g	11.13.17 08.00		1
Cadmium-109	14109-32-1	<			pCi/g	11.13.17 08.00		1
Cesium-134	7440-46-2	<			pCi/g	11.13.17 08.00		1
Cesium-136	7440-46-2	<			pCi/g	11.13.17 08.00		1
Chromium-51	14392-02-0	<			pCi/g	11.13.17 08.00		1
Cobalt-57		<			pCi/g	11.13.17 08.00		1
Cobalt-58		<			pCi/g	11.13.17 08.00		1
Francium-223		<			pCi/g	11.13.17 08.00		1
Germanium-68		<			pCi/g	11.13.17 08.00		1
Iodine-131		<			pCi/g	11.13.17 08.00		1
Lead-214	15067-28-4	<			pCi/g	11.13.17 08.00		1
Manganese-54	13966-31-9	<			pCi/g	11.13.17 08.00		1
Niobium-94		<			pCi/g	11.13.17 08.00		1
Niobium-95		<			pCi/g	11.13.17 08.00		1
Protactinium 231	14331-85-2	<			pCi/g	11.13.17 08.00		1
Protactinium 234	15100-28-4	<			pCi/g	11.13.17 08.00		1
Protactinium 234M	15100-28-4	<			pCi/g	11.13.17 08.00		1
Radium-222		<			pCi/g	11.13.17 08.00		1
Radium-223		<			pCi/g	11.13.17 08.00		1
Radium-224		<			pCi/g	11.13.17 08.00		1
Ruthenium-103	7440-18-8	<			pCi/g	11.13.17 08.00		1
Ruthenium-106	7440-18-8	<			pCi/g	11.13.17 08.00		1
Silver 108 (metastable)		<			pCi/g	11.13.17 08.00		1
Silver-110m (metastable)		<			pCi/g	11.13.17 08.00		1
Sodium-22	13966-32-0	<			pCi/g	11.13.17 08.00		1



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **S110717 - 008**

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: NORM analysis by E901.1 MOD

Tech: JUM

% Moisture:

Analyst: JUM

Basis: Wet Weight

Seq Number: 3033138

SUB: T104704400-17-13

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Strontium 85	13967-73-2	<			pCi/g	11.13.17 08.00		1
Thorium-234	15065-10-8	<			pCi/g	11.13.17 08.00		1
Tin 113	13966-06-8	<			pCi/g	11.13.17 08.00		1
Uranium-234	13966-29-5	<			pCi/g	11.13.17 08.00		1
Uranium-235	15117-96-1	<			pCi/g	11.13.17 08.00		1
Zinc-65	13982-39-3	<			pCi/g	11.13.17 08.00		1
Zirconium-95		<			pCi/g	11.13.17 08.00		1
Americium-241	14596-10-2	<			pCi/g	11.13.17 08.00		1
Potassium-40	13966-00-2	<			pCi/g	11.13.17 08.00		1
Thorium-232	2007440-29-1	<			pCi/g	11.13.17 08.00		1

Analytical Method: TPH by SW 8015B

Prep Method: SW8015P

Tech: ISU

% Moisture:

Analyst: ISU

Date Prep: 11.09.17 13.30

Basis: Wet Weight

Seq Number: 3033032

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	66.3	14.9	mg/kg	11.11.17 16.18		1
C10-C28 Diesel Range Organics	C10C28DRO	47.2	14.9	mg/kg	11.11.17 16.18		1
Total TPH	PHC635	260	14.9	mg/kg	11.11.17 16.18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	11.11.17 16.18		
o-Terphenyl	84-15-1	89	%	70-135	11.11.17 16.18		



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydrotreset

Sample Id: S110717 - 008

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5030C

Tech: MCH

% Moisture:

Analyst: MCH

Date Prep: 11.10.17 18.30

Basis: Wet Weight

Seq Number: 3033162

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.124	0.124	mg/kg	11.10.17 21.22		25
Bromobenzene	108-86-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
Bromochloromethane	74-97-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
Bromodichloromethane	75-27-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
Bromoform	75-25-2	<0.124	0.124	mg/kg	11.10.17 21.22		25
Methyl bromide	74-83-9	<0.124	0.124	mg/kg	11.10.17 21.22		25
tert-Butylbenzene	98-06-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
Sec-Butylbenzene	135-98-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
n-Butylbenzene	104-51-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
Carbon Tetrachloride	56-23-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
Chlorobenzene	108-90-7	<0.124	0.124	mg/kg	11.10.17 21.22		25
Chloroethane	75-00-3	<0.248	0.248	mg/kg	11.10.17 21.22		25
Chloroform	67-66-3	<0.124	0.124	mg/kg	11.10.17 21.22		25
Methyl Chloride	74-87-3	<0.248	0.248	mg/kg	11.10.17 21.22		25
2-Chlorotoluene	95-49-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
4-Chlorotoluene	106-43-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2-Dibromo-3-Chloropropane	96-12-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
Dibromochloromethane	124-48-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2-Dibromoethane	106-93-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
Methylene bromide	74-95-3	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2-Dichlorobenzene	95-50-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,3-Dichlorobenzene	541-73-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,4-Dichlorobenzene	106-46-7	<0.124	0.124	mg/kg	11.10.17 21.22		25
Dichlorodifluoromethane	75-71-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2-Dichloroethane	107-06-2	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1-Dichloroethane	75-34-3	<0.124	0.124	mg/kg	11.10.17 21.22		25
trans-1,2-dichloroethylene	156-60-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
cis-1,2-Dichloroethylene	156-59-2	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1-Dichloroethene	75-35-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
2,2-Dichloropropane	594-20-7	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,3-Dichloropropane	142-28-9	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2-Dichloropropane	78-87-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
trans-1,3-dichloropropene	10061-02-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1-Dichloropropene	563-58-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
cis-1,3-Dichloropropene	10061-01-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
Ethylbenzene	100-41-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
Hexachlorobutadiene	87-68-3	<0.124	0.124	mg/kg	11.10.17 21.22		25
Isopropylbenzene	98-82-8	<0.124	0.124	mg/kg	11.10.17 21.22		25



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: S110717 - 008

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5030C

Tech: MCH

% Moisture:

Analyst: MCH

Date Prep: 11.10.17 18.30

Basis: Wet Weight

Seq Number: 3033162

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methylene Chloride	75-09-2	<0.495	0.495	mg/kg	11.10.17 21.22		25
MTBE	1634-04-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
Naphthalene	91-20-3	<0.248	0.248	mg/kg	11.10.17 21.22		25
n-Propylbenzene	103-65-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
Styrene	100-42-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1,1,2-Tetrachloroethane	630-20-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1,2,2-Tetrachloroethane	79-34-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
Tetrachloroethylene	127-18-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
Toluene	108-88-3	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2,3-Trichlorobenzene	87-61-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2,4-Trichlorobenzene	120-82-1	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1,2-Trichloroethane	79-00-5	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,1,1-Trichloroethane	71-55-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
Trichloroethylene	79-01-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
Trichlorofluoromethane	75-69-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2,3-Trichloropropane	96-18-4	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,2,4-Trimethylbenzene	95-63-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
1,3,5-Trimethylbenzene	108-67-8	<0.124	0.124	mg/kg	11.10.17 21.22		25
Vinyl Chloride	75-01-4	<0.0495	0.0495	mg/kg	11.10.17 21.22		25
o-Xylene	95-47-6	<0.124	0.124	mg/kg	11.10.17 21.22		25
m,p-Xylenes	179601-23-1	<0.248	0.248	mg/kg	11.10.17 21.22		25
Total Xylenes	1330-20-7	<0.124	0.124	mg/kg	11.10.17 21.22		25

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	88	%	53-142	11.10.17 21.22	
1,2-Dichloroethane-D4	17060-07-0	99	%	56-150	11.10.17 21.22	
Toluene-D8	2037-26-5	106	%	70-130	11.10.17 21.22	
4-Bromofluorobenzene	460-00-4	98	%	68-152	11.10.17 21.22	



Certificate of Analytical Results 567776

Kinder Morgan-El Paso, El Paso, TX

KMI L1100 - Hydroteset

Sample Id: **S110717 - 008**

Matrix: Soil

Date Received: 11.08.17 09.30

Lab Sample Id: 567776-002

Date Collected: 11.07.17 16.16

Analytical Method: TCLP Mercury by SW 7470A

Prep Method: SW7470P

Tech: AHI

% Moisture:

Analyst: ELW

Date Prep: 11.15.17 11.45

Seq Number: 3033395

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	<0.000200	0.000200	mg/L	11.15.17 15.27	U	1

Analytical Method: TCLP Metals by SW 1311/6010B

Prep Method: SW3010A

Tech: MLI

% Moisture:

Analyst: DEP

Date Prep: 11.15.17 10.05

Seq Number: 3033482

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	<0.0500	0.0500	mg/L	11.15.17 19.05	U	1
Barium	7440-39-3	1.36	0.0500	mg/L	11.15.17 19.05		1
Cadmium	7440-43-9	<0.0250	0.0250	mg/L	11.15.17 19.05	U	1
Chromium	7440-47-3	<0.0500	0.0500	mg/L	11.15.17 19.05	U	1
Lead	7439-92-1	<0.0500	0.0500	mg/L	11.15.17 19.05	U	1
Selenium	7782-49-2	<0.100	0.100	mg/L	11.15.17 19.05	U	1
Silver	7440-22-4	<0.100	0.100	mg/L	11.15.17 19.05	U	1

Analytical Method: TCLP BTEX by SW 8260B

Prep Method: SW5030B

Tech: JTR

% Moisture:

Analyst: JTR

Date Prep: 11.10.17 17.00

Seq Number: 3033029

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	11.10.17 19.37	U	5
Toluene	108-88-3	<0.00500	0.00500	mg/L	11.10.17 19.37	U	5
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	11.10.17 19.37	U	5
m,p-Xylenes	179601-23-1	<0.0100	0.0100	mg/L	11.10.17 19.37	U	5
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	11.10.17 19.37	U	5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	105	%	75-131	11.10.17 19.37	
1,2-Dichloroethane-D4	17060-07-0	120	%	63-144	11.10.17 19.37	
Toluene-D8	2037-26-5	92	%	80-117	11.10.17 19.37	

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(602) 437-0330	

Kinder Morgan-El Paso
KMI L1100 - Hydrotreset

Analytical Method: pH by SM4500-H

Seq Number: 3032759

Matrix: Water

Parent Sample Id: 567724-001

MD Sample Id: 567724-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
pH	9.49	9.48	0	20	SU	11.08.17 14:05	
Temperature	20.9	21.1	1	20	Deg C	11.08.17 14:05	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3033017

Matrix: Water

MB Sample Id: 7634175-1-BLK

LCS Sample Id: 7634175-1-BKS

Prep Method: SW7470P

Date Prep: 11.10.17

LCSD Sample Id: 7634175-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00219	110	0.00218	109	80-120	0	20	mg/L	11.10.17 15:56	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3033395

Matrix: Water

MB Sample Id: 7634424-1-BLK

LCS Sample Id: 7634424-1-BKS

Prep Method: SW7470P

Date Prep: 11.15.17

LCSD Sample Id: 7634424-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00190	95	0.00198	99	80-120	4	20	mg/L	11.15.17 15:11	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3033017

Matrix: Soil

Parent Sample Id: 567576-001

MS Sample Id: 567576-001 S

Prep Method: SW7470P

Date Prep: 11.10.17

MSD Sample Id: 567576-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00219	110	0.00216	108	75-125	1	20	mg/L	11.10.17 16:45	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3033017

Matrix: Water

Parent Sample Id: 567707-001

MS Sample Id: 567707-001 S

Prep Method: SW7470P

Date Prep: 11.10.17

MSD Sample Id: 567707-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00217	109	0.00216	108	75-125	0	20	mg/L	11.10.17 16:02	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3033395

Matrix: Water

Parent Sample Id: 568069-001

MS Sample Id: 568069-001 S

Prep Method: SW7470P

Date Prep: 11.15.17

MSD Sample Id: 568069-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00185	93	0.00189	95	75-125	2	20	mg/L	11.15.17 15:17	

**Kinder Morgan-El Paso**
KMI L1100 - Hydrotreset**Analytical Method:** TCLP Mercury by SW 7470A

Seq Number: 3033395

Parent Sample Id: 568119-001

Matrix: Water

MS Sample Id: 568119-001 S

Prep Method: SW7470P

Date Prep: 11.15.17

MSD Sample Id: 568119-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00197	99	0.00196	98	75-125	1	20	mg/L	11.15.17 15:23	

Analytical Method: TCLP Metals by SW 1311/6010B

Seq Number: 3033482

MB Sample Id: 7634433-1-BLK

Matrix: Water

LCS Sample Id: 7634433-1-BKS

Prep Method: SW3010A

Date Prep: 11.15.17

LCSD Sample Id: 7634433-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0100	1.00	0.986	99	0.986	99	75-125	0	20	mg/L	11.15.17 15:58	
Barium	<0.0100	1.00	1.04	104	1.04	104	75-125	0	20	mg/L	11.15.17 15:58	
Cadmium	<0.00500	1.00	1.02	102	1.03	103	75-125	1	20	mg/L	11.15.17 15:58	
Chromium	<0.0100	1.00	1.05	105	1.05	105	75-125	0	20	mg/L	11.15.17 15:58	
Lead	<0.0100	1.00	1.04	104	1.04	104	75-125	0	20	mg/L	11.15.17 15:58	
Selenium	<0.0200	1.00	1.01	101	1.01	101	75-125	0	20	mg/L	11.15.17 15:58	
Silver	<0.0200	0.500	0.519	104	0.518	104	75-125	0	20	mg/L	11.15.17 15:58	

Analytical Method: TCLP Metals by SW 1311/6010B

Seq Number: 3033482

Parent Sample Id: 567891-001

Matrix: Soil

MS Sample Id: 567891-001 S

Prep Method: SW3010A

Date Prep: 11.15.17

MSD Sample Id: 567891-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0500	5.00	4.99	100	4.89	98	75-125	2	20	mg/L	11.15.17 16:14	
Barium	0.496	5.00	5.67	103	5.67	103	75-125	0	20	mg/L	11.15.17 16:14	
Cadmium	<0.0250	5.00	5.20	104	5.21	104	75-125	0	20	mg/L	11.15.17 16:14	
Chromium	<0.0500	5.00	5.10	102	5.11	102	75-125	0	20	mg/L	11.15.17 16:14	
Lead	<0.0500	5.00	4.90	98	4.90	98	75-125	0	20	mg/L	11.15.17 16:14	
Selenium	<0.100	5.00	5.16	103	5.13	103	75-125	1	20	mg/L	11.15.17 16:14	
Silver	<0.100	2.50	2.64	106	2.65	106	75-125	0	20	mg/L	11.15.17 16:14	

Analytical Method: Flash Point (CC) SW-846 1010

Seq Number: 3033161

Matrix: Water

LCS Sample Id: 3033161-1-BKS

Parameter	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Flash Point	80.0	81.0	80.0	99	70-140	Deg F	11.13.17 09:00



QC Summary 567776

Kinder Morgan-El Paso KMI L1100 - Hydroteset

Analytical Method: Flash Point (CC) SW-846 1010

Seq Number: 3033161

Matrix: Water

Parent Sample Id: 567776-001

MD Sample Id: 567776-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Flash Point	>180	>180	0	25	Deg F	11.13.17 10:45	U

Analytical Method: PCBs by EPA 8082

Seq Number: 3033259

Matrix: Solid

MB Sample Id: 7634122-1-BLK

LCS Sample Id: 7634122-1-BKS

Prep Method: SW3545

Date Prep: 11.10.17

LCSD Sample Id: 7634122-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.00333	0.167	0.132	79	0.113	68	56-121	16	20	mg/kg	11.13.17 11:44	
PCB-1260	<0.00333	0.167	0.135	81	0.127	76	41-126	6	20	mg/kg	11.13.17 11:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	80		87		80		39-125	%	11.13.17 11:44
Tetrachloro-m-xylene	69		80		69		37-124	%	11.13.17 11:44

Analytical Method: PCBs by EPA 8082

Seq Number: 3033278

Matrix: Water

MB Sample Id: 7634260-1-BLK

LCS Sample Id: 7634260-1-BKS

Prep Method: SW3510C

Date Prep: 11.10.17

LCSD Sample Id: 7634260-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.000100	0.00500	0.00290	58	0.00305	61	54-125	5	20	mg/L	11.13.17 12:16	
PCB-1260	<0.000100	0.00500	0.00305	61	0.00310	62	41-126	2	20	mg/L	11.13.17 12:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	84		65		65		45-162	%	11.13.17 12:16
Tetrachloro-m-xylene	74		58		60		50-125	%	11.13.17 12:16

Analytical Method: PCBs by EPA 8082

Seq Number: 3033259

Matrix: Soil

Parent Sample Id: 567576-001

MS Sample Id: 567576-001 S

Prep Method: SW3545

Date Prep: 11.10.17

MSD Sample Id: 567576-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.00334	0.167	0.135	81	0.131	78	56-121	3	20	mg/kg	11.13.17 12:59	
PCB-1260	<0.00334	0.167	0.143	86	0.138	83	41-126	4	20	mg/kg	11.13.17 12:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	80		74		39-125	%	11.13.17 12:59
Tetrachloro-m-xylene	77		72		37-124	%	11.13.17 12:59



QC Summary 567776

Kinder Morgan-El Paso

KMI L1100 - Hydroteset

Analytical Method: TPH by SW 8015B

Seq Number: 3033032

MB Sample Id: 7634097-1-BLK

Matrix: Solid

LCS Sample Id: 7634097-1-BKS

Prep Method: SW8015P

Date Prep: 11.09.17

LCSD Sample Id: 7634097-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	851	85	821	82	70-135	4	35	mg/kg	11.09.17 14:48	
C10-C28 Diesel Range Organics	<15.0	1000	1050	105	954	95	70-135	10	35	mg/kg	11.09.17 14:48	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	83		89		85		70-135	%	11.09.17 14:48			
o-Terphenyl	79		81		78		70-135	%	11.09.17 14:48			

Analytical Method: TPH by SW 8015B

Seq Number: 3033096

MB Sample Id: 7634246-1-BLK

Matrix: Water

LCS Sample Id: 7634246-1-BKS

Prep Method: SW8015P

Date Prep: 11.13.17

LCSD Sample Id: 7634246-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	77.4	77	77.3	77	70-135	0	25	mg/L	11.13.17 09:51	
C10-C28 Diesel Range Organics	<1.50	100	103	103	96.5	97	70-135	7	25	mg/L	11.13.17 09:51	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	75		91		89		70-135	%	11.13.17 09:51			
o-Terphenyl	81		99		93		70-135	%	11.13.17 09:51			

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3033028

MB Sample Id: 7634208-1-BLK

Matrix: Water

LCS Sample Id: 7634208-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634208-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0861	86	0.0939	94	66-142	9	20	mg/L	11.10.17 09:54	
Toluene	<0.00100	0.100	0.0903	90	0.0968	97	59-139	7	20	mg/L	11.10.17 09:54	
Ethylbenzene	<0.00100	0.100	0.0897	90	0.0988	99	75-125	10	20	mg/L	11.10.17 09:54	
m,p-Xylenes	<0.00200	0.200	0.182	91	0.201	101	75-125	10	20	mg/L	11.10.17 09:54	
o-Xylene	<0.00100	0.100	0.0907	91	0.103	103	75-125	13	20	mg/L	11.10.17 09:54	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
Dibromofluoromethane	97		96		96		75-131	%	11.10.17 09:54			
1,2-Dichloroethane-D4	105		110		107		63-144	%	11.10.17 09:54			
Toluene-D8	90		101		97		80-117	%	11.10.17 09:54			

Kinder Morgan-El Paso
KMI L1100 - Hydroteset

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3033029

MB Sample Id: 7634209-1-BLK

Matrix: Water

LCS Sample Id: 7634209-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634209-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.500	0.493	99	0.464	93	66-142	6	20	mg/L	11.10.17 10:13	
Toluene	<0.00500	0.500	0.510	102	0.487	97	59-139	5	20	mg/L	11.10.17 10:13	
Ethylbenzene	<0.00500	0.500	0.514	103	0.492	98	75-125	4	20	mg/L	11.10.17 10:13	
m,p-Xylenes	<0.0100	1.00	1.04	104	1.02	102	75-125	2	20	mg/L	11.10.17 10:13	
o-Xylene	<0.00500	0.500	0.524	105	0.511	102	75-125	3	20	mg/L	11.10.17 10:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	99		96		94		75-131	%	11.10.17 10:13
1,2-Dichloroethane-D4	107		110		110		63-144	%	11.10.17 10:13
Toluene-D8	90		100		101		80-117	%	11.10.17 10:13

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3033029

Parent Sample Id: 567496-011

Matrix: Soil

MS Sample Id: 567496-011 S

Prep Method: SW5030B

Date Prep: 11.10.17

MSD Sample Id: 567496-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.500	0.484	97	0.476	95	66-142	2	20	mg/L	11.10.17 16:01	
Toluene	0.00710	0.500	0.508	100	0.480	95	59-139	6	20	mg/L	11.10.17 16:01	
Ethylbenzene	<0.00500	0.500	0.498	100	0.472	94	75-125	5	20	mg/L	11.10.17 16:01	
m,p-Xylenes	<0.0100	1.00	1.04	104	0.988	99	75-125	5	20	mg/L	11.10.17 16:01	
o-Xylene	<0.00500	0.500	0.511	102	0.493	99	75-125	4	20	mg/L	11.10.17 16:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		102		75-131	%	11.10.17 16:01
1,2-Dichloroethane-D4	120		119		63-144	%	11.10.17 16:01
Toluene-D8	96		97		80-117	%	11.10.17 16:01

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3033028

Parent Sample Id: 567565-005

Matrix: Waste Water

MS Sample Id: 567565-005 S

Prep Method: SW5030B

Date Prep: 11.10.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0975	98	66-142	mg/L	11.10.17 16:40	
Toluene	<0.00100	0.100	0.101	101	59-139	mg/L	11.10.17 16:40	
Ethylbenzene	<0.00100	0.100	0.101	101	75-125	mg/L	11.10.17 16:40	
m,p-Xylenes	<0.00200	0.200	0.198	99	75-125	mg/L	11.10.17 16:40	
o-Xylene	<0.00100	0.100	0.104	104	75-125	mg/L	11.10.17 16:40	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		75-131	%	11.10.17 16:40
1,2-Dichloroethane-D4	118		63-144	%	11.10.17 16:40
Toluene-D8	97		80-117	%	11.10.17 16:40

Kinder Morgan-El Paso
KMI L1100 - Hydrotreset

Analytical Method: VOCs By SW846 8260C

Seq Number: 3033162

MB Sample Id: 7634299-1-BLK

Matrix: Solid

LCS Sample Id: 7634299-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634299-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0501	100	0.0498	100	66-142	1	25	mg/kg	11.10.17 12:26	
Bromobenzene	<0.00500	0.0500	0.0526	105	0.0523	105	75-125	1	25	mg/kg	11.10.17 12:26	
Bromochloromethane	<0.00500	0.0500	0.0486	97	0.0469	94	60-140	4	25	mg/kg	11.10.17 12:26	
Bromodichloromethane	<0.00500	0.0500	0.0545	109	0.0541	108	75-125	1	25	mg/kg	11.10.17 12:26	
Bromoform	<0.00500	0.0500	0.0447	89	0.0457	91	75-125	2	25	mg/kg	11.10.17 12:26	
Methyl bromide	<0.00500	0.0500	0.0479	96	0.0445	89	60-140	7	25	mg/kg	11.10.17 12:26	
tert-Butylbenzene	<0.00500	0.0500	0.0551	110	0.0542	108	75-125	2	25	mg/kg	11.10.17 12:26	
Sec-Butylbenzene	<0.00500	0.0500	0.0559	112	0.0554	111	75-125	1	25	mg/kg	11.10.17 12:26	
n-Butylbenzene	<0.00500	0.0500	0.0565	113	0.0563	113	75-125	0	25	mg/kg	11.10.17 12:26	
Carbon Tetrachloride	<0.00500	0.0500	0.0543	109	0.0535	107	62-125	1	25	mg/kg	11.10.17 12:26	
Chlorobenzene	<0.00500	0.0500	0.0495	99	0.0507	101	60-133	2	25	mg/kg	11.10.17 12:26	
Chloroethane	<0.0100	0.0500	0.0460	92	0.0454	91	60-140	1	25	mg/kg	11.10.17 12:26	
Chloroform	<0.00500	0.0500	0.0517	103	0.0497	99	74-125	4	25	mg/kg	11.10.17 12:26	
Methyl Chloride	<0.0100	0.0500	0.0434	87	0.0424	85	60-140	2	25	mg/kg	11.10.17 12:26	
2-Chlorotoluene	<0.00500	0.0500	0.0545	109	0.0533	107	73-125	2	25	mg/kg	11.10.17 12:26	
4-Chlorotoluene	<0.00500	0.0500	0.0541	108	0.0532	106	74-125	2	25	mg/kg	11.10.17 12:26	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0563	113	0.0561	112	75-125	0	25	mg/kg	11.10.17 12:26	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0484	97	0.0504	101	59-125	4	25	mg/kg	11.10.17 12:26	
Dibromochloromethane	<0.00500	0.0500	0.0493	99	0.0502	100	73-125	2	25	mg/kg	11.10.17 12:26	
1,2-Dibromoethane	<0.00500	0.0500	0.0509	102	0.0506	101	73-125	1	25	mg/kg	11.10.17 12:26	
Methylene bromide	<0.00500	0.0500	0.0507	101	0.0509	102	69-127	0	25	mg/kg	11.10.17 12:26	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0529	106	0.0530	106	75-125	0	25	mg/kg	11.10.17 12:26	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0545	109	0.0537	107	75-125	1	25	mg/kg	11.10.17 12:26	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0527	105	0.0525	105	75-125	0	25	mg/kg	11.10.17 12:26	
Dichlorodifluoromethane	<0.00500	0.0500	0.0506	101	0.0499	100	65-135	1	25	mg/kg	11.10.17 12:26	
1,2-Dichloroethane	<0.00500	0.0500	0.0506	101	0.0501	100	68-127	1	25	mg/kg	11.10.17 12:26	
1,1-Dichloroethane	<0.00500	0.0500	0.0503	101	0.0489	98	72-125	3	25	mg/kg	11.10.17 12:26	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0497	99	0.0486	97	75-125	2	25	mg/kg	11.10.17 12:26	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0508	102	0.0493	99	75-125	3	25	mg/kg	11.10.17 12:26	
1,1-Dichloroethene	<0.00500	0.0500	0.0500	100	0.0489	98	59-172	2	25	mg/kg	11.10.17 12:26	
2,2-Dichloropropane	<0.00500	0.0500	0.0575	115	0.0531	106	75-125	8	25	mg/kg	11.10.17 12:26	
1,3-Dichloropropane	<0.00500	0.0500	0.0493	99	0.0502	100	75-125	2	25	mg/kg	11.10.17 12:26	
1,2-Dichloropropane	<0.00500	0.0500	0.0507	101	0.0500	100	74-125	1	25	mg/kg	11.10.17 12:26	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0537	107	0.0544	109	66-125	1	25	mg/kg	11.10.17 12:26	
1,1-Dichloropropene	<0.00500	0.0500	0.0516	103	0.0508	102	75-125	2	25	mg/kg	11.10.17 12:26	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0532	106	0.0535	107	74-125	1	25	mg/kg	11.10.17 12:26	
Ethylbenzene	<0.00500	0.0500	0.0518	104	0.0526	105	75-125	2	25	mg/kg	11.10.17 12:26	
Hexachlorobutadiene	<0.00500	0.0500	0.0558	112	0.0563	113	75-125	1	25	mg/kg	11.10.17 12:26	
Isopropylbenzene	<0.00500	0.0500	0.0528	106	0.0545	109	75-125	3	25	mg/kg	11.10.17 12:26	
Methylene Chloride	<0.0200	0.0500	0.0475	95	0.0457	91	75-125	4	25	mg/kg	11.10.17 12:26	
MTBE	<0.00500	0.0500	0.0502	100	0.0495	99	60-140	1	25	mg/kg	11.10.17 12:26	
Naphthalene	<0.0100	0.0500	0.0499	100	0.0513	103	70-130	3	25	mg/kg	11.10.17 12:26	
n-Propylbenzene	<0.00500	0.0500	0.0555	111	0.0556	111	75-125	0	25	mg/kg	11.10.17 12:26	
Styrene	<0.00500	0.0500	0.0537	107	0.0538	108	75-125	0	25	mg/kg	11.10.17 12:26	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0517	103	0.0535	107	72-125	3	25	mg/kg	11.10.17 12:26	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0520	104	0.0522	104	74-125	0	25	mg/kg	11.10.17 12:26	
Tetrachloroethylene	<0.00500	0.0500	0.0500	100	0.0519	104	71-125	4	25	mg/kg	11.10.17 12:26	
Toluene	<0.00500	0.0500	0.0484	97	0.0494	99	59-139	2	25	mg/kg	11.10.17 12:26	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0564	113	0.0557	111	75-137	1	25	mg/kg	11.10.17 12:26	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0573	115	0.0565	113	75-135	1	25	mg/kg	11.10.17 12:26	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0497	99	0.0506	101	75-127	2	25	mg/kg	11.10.17 12:26	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0533	107	0.0529	106	75-125	1	25	mg/kg	11.10.17 12:26	



Kinder Morgan-El Paso

KMI L1100 - Hydroteset

Analytical Method: VOCs By SW846 8260C

Seq Number: 3033162

MB Sample Id: 7634299-1-BLK

Matrix: Solid

LCS Sample Id: 7634299-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634299-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0506	101	0.0516	103	62-137	2	25	mg/kg	11.10.17 12:26	
Trichlorofluoromethane	<0.00500	0.0500	0.0539	108	0.0521	104	67-125	3	25	mg/kg	11.10.17 12:26	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0528	106	0.0545	109	75-125	3	25	mg/kg	11.10.17 12:26	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0549	110	0.0548	110	75-125	0	25	mg/kg	11.10.17 12:26	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0561	112	0.0552	110	70-130	2	25	mg/kg	11.10.17 12:26	
Vinyl Chloride	<0.00200	0.0500	0.0464	93	0.0460	92	60-140	1	25	mg/kg	11.10.17 12:26	
o-Xylene	<0.00500	0.0500	0.0510	102	0.0526	105	75-125	3	25	mg/kg	11.10.17 12:26	
m,p-Xylenes	<0.0100	0.100	0.102	102	0.104	104	75-125	2	25	mg/kg	11.10.17 12:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	98		103		100		53-142	%	11.10.17 12:26
1,2-Dichloroethane-D4	99		101		102		56-150	%	11.10.17 12:26
Toluene-D8	100		99		100		70-130	%	11.10.17 12:26
4-Bromofluorobenzene	99		101		101		68-152	%	11.10.17 12:26

Kinder Morgan-El Paso
KMI L1100 - Hydrotaset

Analytical Method: VOCs By SW846 8260C

Seq Number: 3033162

Parent Sample Id: 567481-015

Matrix: Soil

MS Sample Id: 567481-015 S

Prep Method: SW5030B

Date Prep: 11.10.17

MSD Sample Id: 567481-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00583	0.0583	0.0601	103	0.0617	106	66-142	3	25	mg/kg	11.10.17 13:10	
Bromobenzene	<0.00583	0.0583	0.0801	137	0.0743	128	75-125	8	25	mg/kg	11.10.17 13:10	X
Bromochloromethane	<0.00583	0.0583	0.0606	104	0.0633	109	60-140	4	25	mg/kg	11.10.17 13:10	
Bromodichloromethane	<0.00583	0.0583	0.0640	110	0.0674	116	75-125	5	25	mg/kg	11.10.17 13:10	X
Bromoform	<0.00583	0.0583	0.0521	89	0.0488	84	75-125	7	25	mg/kg	11.10.17 13:10	
Methyl bromide	<0.00583	0.0583	0.0508	87	0.0408	70	60-140	22	25	mg/kg	11.10.17 13:10	
tert-Butylbenzene	<0.00583	0.0583	0.0768	132	0.0688	118	75-125	11	25	mg/kg	11.10.17 13:10	X
Sec-Butylbenzene	<0.00583	0.0583	0.0743	127	0.0616	106	75-125	19	25	mg/kg	11.10.17 13:10	X
n-Butylbenzene	<0.00583	0.0583	0.0654	112	0.0518	89	75-125	23	25	mg/kg	11.10.17 13:10	
Carbon Tetrachloride	<0.00583	0.0583	0.0641	110	0.0682	117	62-125	6	25	mg/kg	11.10.17 13:10	X
Chlorobenzene	<0.00583	0.0583	0.0617	106	0.0620	107	60-133	0	25	mg/kg	11.10.17 13:10	
Chloroethane	<0.0117	0.0583	0.0577	99	0.0589	101	60-140	2	25	mg/kg	11.10.17 13:10	
Chloroform	<0.00583	0.0583	0.0629	108	0.0647	111	74-125	3	25	mg/kg	11.10.17 13:10	
Methyl Chloride	<0.0117	0.0583	0.0525	90	0.0541	93	60-140	3	25	mg/kg	11.10.17 13:10	
2-Chlorotoluene	<0.00583	0.0583	0.0785	135	0.0743	128	73-125	5	25	mg/kg	11.10.17 13:10	X
4-Chlorotoluene	<0.00583	0.0583	0.0768	132	0.0736	127	74-125	4	25	mg/kg	11.10.17 13:10	
p-Cymene (p-Isopropyltoluene)	<0.00583	0.0583	0.0724	124	0.0609	105	75-125	17	25	mg/kg	11.10.17 13:10	
1,2-Dibromo-3-Chloropropane	<0.00583	0.0583	0.0661	113	0.0596	103	59-125	10	25	mg/kg	11.10.17 13:10	
Dibromochloromethane	<0.00583	0.0583	0.0640	110	0.0628	108	73-125	2	25	mg/kg	11.10.17 13:10	
1,2-Dibromoethane	<0.00583	0.0583	0.0665	114	0.0612	105	73-125	8	25	mg/kg	11.10.17 13:10	
Methylene bromide	<0.00583	0.0583	0.0608	104	0.0641	110	69-127	5	25	mg/kg	11.10.17 13:10	
1,2-Dichlorobenzene	<0.00583	0.0583	0.0609	104	0.0563	97	75-125	8	25	mg/kg	11.10.17 13:10	
1,3-Dichlorobenzene	<0.00583	0.0583	0.0652	112	0.0608	105	75-125	7	25	mg/kg	11.10.17 13:10	
1,4-Dichlorobenzene	<0.00583	0.0583	0.0635	109	0.0602	104	75-125	5	25	mg/kg	11.10.17 13:10	
Dichlorodifluoromethane	<0.00583	0.0583	0.0585	100	0.0592	102	65-135	1	25	mg/kg	11.10.17 13:10	
1,2-Dichloroethane	<0.00583	0.0583	0.0616	106	0.0639	110	68-127	4	25	mg/kg	11.10.17 13:10	
1,1-Dichloroethane	<0.00583	0.0583	0.0620	106	0.0642	110	72-125	3	25	mg/kg	11.10.17 13:10	
trans-1,2-dichloroethylene	<0.00583	0.0583	0.0604	104	0.0623	107	75-125	3	25	mg/kg	11.10.17 13:10	
cis-1,2-Dichloroethylene	<0.00583	0.0583	0.0614	105	0.0642	110	75-125	4	25	mg/kg	11.10.17 13:10	
1,1-Dichloroethene	<0.00583	0.0583	0.0600	103	0.0624	107	59-172	4	25	mg/kg	11.10.17 13:10	
2,2-Dichloropropane	<0.00583	0.0583	0.0705	121	0.0748	129	75-125	6	25	mg/kg	11.10.17 13:10	X
1,3-Dichloropropane	<0.00583	0.0583	0.0680	117	0.0663	114	75-125	3	25	mg/kg	11.10.17 13:10	
1,2-Dichloropropane	<0.00583	0.0583	0.0606	104	0.0621	107	74-125	2	25	mg/kg	11.10.17 13:10	
trans-1,3-dichloropropene	<0.00583	0.0583	0.0658	113	0.0570	98	66-125	14	25	mg/kg	11.10.17 13:10	
1,1-Dichloropropene	<0.00583	0.0583	0.0609	104	0.0628	108	75-125	3	25	mg/kg	11.10.17 13:10	
cis-1,3-Dichloropropene	<0.00583	0.0583	0.0554	95	0.0492	85	74-125	12	25	mg/kg	11.10.17 13:10	
Ethylbenzene	<0.00583	0.0583	0.0654	112	0.0651	112	75-125	0	25	mg/kg	11.10.17 13:10	
Hexachlorobutadiene	<0.00583	0.0583	0.0423	73	0.0281	48	75-125	40	25	mg/kg	11.10.17 13:10	F
Isopropylbenzene	<0.00583	0.0583	0.0615	105	0.0593	102	75-125	4	25	mg/kg	11.10.17 13:10	
Methylene Chloride	<0.0233	0.0583	0.0598	103	0.0608	105	75-125	2	25	mg/kg	11.10.17 13:10	X
MTBE	<0.00583	0.0583	0.0646	111	0.0657	113	60-140	2	25	mg/kg	11.10.17 13:10	
Naphthalene	<0.0117	0.0583	0.0367	63	0.0309	53	70-130	17	25	mg/kg	11.10.17 13:10	X
n-Propylbenzene	<0.00583	0.0583	0.0828	142	0.0753	130	75-125	9	25	mg/kg	11.10.17 13:10	X
Styrene	<0.00583	0.0583	0.0608	104	0.0607	104	75-125	0	25	mg/kg	11.10.17 13:10	
1,1,1,2-Tetrachloroethane	<0.00583	0.0583	0.0654	112	0.0649	112	72-125	1	25	mg/kg	11.10.17 13:10	
1,1,2,2-Tetrachloroethane	<0.00583	0.0583	0.0852	146	0.0771	133	74-125	10	25	mg/kg	11.10.17 13:10	X
Tetrachloroethylene	<0.00583	0.0583	0.0653	112	0.0635	109	71-125	3	25	mg/kg	11.10.17 13:10	
Toluene	<0.00583	0.0583	0.0690	118	0.0677	117	59-139	2	25	mg/kg	11.10.17 13:10	
1,2,3-Trichlorobenzene	<0.00583	0.0583	0.0309	53	0.0262	45	75-137	16	25	mg/kg	11.10.17 13:10	X
1,2,4-Trichlorobenzene	<0.00583	0.0583	0.0357	61	0.0310	53	75-135	14	25	mg/kg	11.10.17 13:10	X
1,1,2-Trichloroethane	<0.00583	0.0583	0.0677	116	0.0661	114	75-127	2	25	mg/kg	11.10.17 13:10	
1,1,1-Trichloroethane	<0.00583	0.0583	0.0641	110	0.0665	114	75-125	4	25	mg/kg	11.10.17 13:10	



Kinder Morgan-El Paso

KMI L1100 - Hydroteset

Analytical Method: VOCs By SW846 8260C

Seq Number: 3033162

Parent Sample Id: 567481-015

Matrix: Soil

MS Sample Id: 567481-015 S

Prep Method: SW5030B

Date Prep: 11.10.17

MSD Sample Id: 567481-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00583	0.0583	0.0596	102	0.0626	108	62-137	5	25	mg/kg	11.10.17 13:10	
Trichlorofluoromethane	<0.00583	0.0583	0.0625	107	0.0651	112	67-125	4	25	mg/kg	11.10.17 13:10	
1,2,3-Trichloropropane	<0.00583	0.0583	0.0805	138	0.0690	119	75-125	15	25	mg/kg	11.10.17 13:10	
1,2,4-Trimethylbenzene	<0.00583	0.0583	0.0781	134	0.0717	123	75-125	9	25	mg/kg	11.10.17 13:10	
1,3,5-Trimethylbenzene	<0.00583	0.0583	0.0803	138	0.0742	128	70-130	8	25	mg/kg	11.10.17 13:10	X
Vinyl Chloride	<0.00233	0.0583	0.0554	95	0.0578	99	60-140	4	25	mg/kg	11.10.17 13:10	
o-Xylene	<0.00583	0.0583	0.0630	108	0.0639	110	75-125	1	25	mg/kg	11.10.17 13:10	
m,p-Xylenes	<0.0117	0.117	0.129	110	0.129	111	75-125	0	25	mg/kg	11.10.17 13:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		105		53-142	%	11.10.17 13:10
1,2-Dichloroethane-D4	100		106		56-150	%	11.10.17 13:10
Toluene-D8	109		105		70-130	%	11.10.17 13:10
4-Bromofluorobenzene	124		122		68-152	%	11.10.17 13:10

Kinder Morgan-El Paso
KMI L1100 - Hydrotaset

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032975

MB Sample Id: 7634187-1-BLK

Matrix: Water

LCS Sample Id: 7634187-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634187-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0549	110	0.0551	110	68-123	0	25	mg/L	11.10.17 10:42	
Bromobenzene	<0.00500	0.0500	0.0565	113	0.0558	112	83-124	1	25	mg/L	11.10.17 10:42	
Bromochloromethane	<0.00500	0.0500	0.0541	108	0.0535	107	68-119	1	25	mg/L	11.10.17 10:42	
Bromodichloromethane	<0.00500	0.0500	0.0550	110	0.0554	111	72-132	1	25	mg/L	11.10.17 10:42	
Bromoform	<0.00500	0.0500	0.0543	109	0.0532	106	65-136	2	25	mg/L	11.10.17 10:42	
Methyl bromide	<0.00500	0.0500	0.0564	113	0.0554	111	48-120	2	25	mg/L	11.10.17 10:42	
n-Butylbenzene	<0.00500	0.0500	0.0593	119	0.0604	121	82-128	2	25	mg/L	11.10.17 10:42	
Sec-Butylbenzene	<0.00500	0.0500	0.0583	117	0.0584	117	83-130	0	25	mg/L	11.10.17 10:42	
tert-Butylbenzene	<0.00500	0.0500	0.0595	119	0.0599	120	83-131	1	25	mg/L	11.10.17 10:42	
Carbon Tetrachloride	<0.00500	0.0500	0.0535	107	0.0531	106	68-135	1	25	mg/L	11.10.17 10:42	
Chlorobenzene	<0.00500	0.0500	0.0573	115	0.0568	114	78-124	1	25	mg/L	11.10.17 10:42	
Chloroethane	<0.0100	0.0500	0.0556	111	0.0556	111	55-120	0	25	mg/L	11.10.17 10:42	
Chloroform	<0.00500	0.0500	0.0537	107	0.0533	107	71-119	1	25	mg/L	11.10.17 10:42	
Methyl Chloride	<0.0100	0.0500	0.0498	100	0.0496	99	54-114	0	25	mg/L	11.10.17 10:42	
2-Chlorotoluene	<0.00500	0.0500	0.0569	114	0.0575	115	83-128	1	25	mg/L	11.10.17 10:42	
4-Chlorotoluene	<0.00500	0.0500	0.0561	112	0.0556	111	81-125	1	25	mg/L	11.10.17 10:42	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0581	116	0.0583	117	85-129	0	25	mg/L	11.10.17 10:42	
Dibromochloromethane	<0.00500	0.0500	0.0548	110	0.0539	108	74-135	2	25	mg/L	11.10.17 10:42	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0498	100	0.0480	96	62-134	4	25	mg/L	11.10.17 10:42	
1,2-Dibromoethane	<0.00500	0.0500	0.0562	112	0.0551	110	77-129	2	25	mg/L	11.10.17 10:42	
Methylene bromide	<0.00500	0.0500	0.0546	109	0.0555	111	71-124	2	25	mg/L	11.10.17 10:42	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0573	115	0.0571	114	81-123	0	25	mg/L	11.10.17 10:42	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0570	114	0.0569	114	82-126	0	25	mg/L	11.10.17 10:42	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0560	112	0.0562	112	80-119	0	25	mg/L	11.10.17 10:42	
Dichlorodifluoromethane	<0.00500	0.0500	0.0518	104	0.0502	100	59-121	3	25	mg/L	11.10.17 10:42	
1,1-Dichloroethane	<0.00500	0.0500	0.0548	110	0.0547	109	75-125	0	25	mg/L	11.10.17 10:42	
1,2-Dichloroethane	<0.00500	0.0500	0.0554	111	0.0539	108	64-130	3	25	mg/L	11.10.17 10:42	
1,1-Dichloroethene	<0.00500	0.0500	0.0556	111	0.0559	112	68-116	1	25	mg/L	11.10.17 10:42	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0550	110	0.0533	107	74-130	3	25	mg/L	11.10.17 10:42	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0537	107	0.0533	107	64-109	1	25	mg/L	11.10.17 10:42	
1,2-Dichloropropane	<0.00500	0.0500	0.0564	113	0.0569	114	72-127	1	25	mg/L	11.10.17 10:42	
1,3-Dichloropropane	<0.00500	0.0500	0.0552	110	0.0551	110	79-133	0	25	mg/L	11.10.17 10:42	
2,2-Dichloropropane	<0.00500	0.0500	0.0537	107	0.0530	106	71-134	1	25	mg/L	11.10.17 10:42	
1,1-Dichloropropene	<0.00500	0.0500	0.0567	113	0.0564	113	69-124	1	25	mg/L	11.10.17 10:42	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0556	111	0.0556	111	74-138	0	25	mg/L	11.10.17 10:42	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0553	111	0.0558	112	70-132	1	25	mg/L	11.10.17 10:42	
Ethylbenzene	<0.00500	0.0500	0.0576	115	0.0580	116	69-131	1	25	mg/L	11.10.17 10:42	
Hexachlorobutadiene	<0.00500	0.0500	0.0606	121	0.0613	123	74-130	1	25	mg/L	11.10.17 10:42	
Isopropylbenzene	<0.00500	0.0500	0.0584	117	0.0583	117	66-133	0	25	mg/L	11.10.17 10:42	
Methylene Chloride	<0.00500	0.0500	0.0509	102	0.0501	100	60-121	2	25	mg/L	11.10.17 10:42	
MTBE	<0.00500	0.0500	0.0543	109	0.0538	108	60-152	1	25	mg/L	11.10.17 10:42	
Naphthalene	<0.0100	0.0500	0.0511	102	0.0522	104	69-140	2	25	mg/L	11.10.17 10:42	
n-Propylbenzene	<0.00500	0.0500	0.0570	114	0.0586	117	86-129	3	25	mg/L	11.10.17 10:42	
Styrene	<0.00500	0.0500	0.0579	116	0.0572	114	79-128	1	25	mg/L	11.10.17 10:42	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0552	110	0.0553	111	78-131	0	25	mg/L	11.10.17 10:42	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0521	104	0.0529	106	80-133	2	25	mg/L	11.10.17 10:42	
Tetrachloroethylene	<0.00500	0.0500	0.0584	117	0.0584	117	79-122	0	25	mg/L	11.10.17 10:42	
Toluene	<0.00500	0.0500	0.0565	113	0.0572	114	62-132	1	25	mg/L	11.10.17 10:42	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0580	116	0.0591	118	76-126	2	25	mg/L	11.10.17 10:42	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0570	114	0.0586	117	77-127	3	25	mg/L	11.10.17 10:42	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0548	110	0.0552	110	72-124	1	25	mg/L	11.10.17 10:42	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0563	113	0.0551	110	71-135	2	25	mg/L	11.10.17 10:42	



Kinder Morgan-El Paso

KMI L1100 - Hydroteset

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032975

MB Sample Id: 7634187-1-BLK

Matrix: Water

LCS Sample Id: 7634187-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634187-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0554	111	0.0557	111	74-123	1	25	mg/L	11.10.17 10:42	
Trichlorofluoromethane	<0.00500	0.0500	0.0548	110	0.0559	112	70-143	2	25	mg/L	11.10.17 10:42	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0536	107	0.0529	106	75-134	1	25	mg/L	11.10.17 10:42	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0568	114	0.0566	113	79-132	0	25	mg/L	11.10.17 10:42	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0588	118	0.0585	117	72-139	1	25	mg/L	11.10.17 10:42	
o-Xylene	<0.00500	0.0500	0.0595	119	0.0577	115	67-132	3	25	mg/L	11.10.17 10:42	
m,p-Xylenes	<0.0100	0.100	0.113	113	0.112	112	69-132	1	25	mg/L	11.10.17 10:42	
Vinyl Chloride	<0.00200	0.0500	0.0567	113	0.0574	115	59-124	1	25	mg/L	11.10.17 10:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		98		95		75-131	%	11.10.17 10:42
1,2-Dichloroethane-D4	101		98		94		63-144	%	11.10.17 10:42
Toluene-D8	102		101		100		80-117	%	11.10.17 10:42
4-Bromofluorobenzene	105		97		99		74-124	%	11.10.17 10:42

Kinder Morgan-El Paso
KMI L1100 - Hydrotreset

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032975

Parent Sample Id: 567338-005

Matrix: Water

MS Sample Id: 567338-005 S

Prep Method: SW5030B

Date Prep: 11.10.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0556	111	76-110	mg/L	11.10.17 19:09	X
Bromobenzene	<0.00500	0.0500	0.0550	110	77-114	mg/L	11.10.17 19:09	
Bromochloromethane	<0.00500	0.0500	0.0545	109	72-112	mg/L	11.10.17 19:09	
Bromodichloromethane	<0.00500	0.0500	0.0566	113	75-116	mg/L	11.10.17 19:09	
Bromoform	<0.00500	0.0500	0.0539	108	66-119	mg/L	11.10.17 19:09	
Methyl bromide	<0.00500	0.0500	0.0481	96	60-110	mg/L	11.10.17 19:09	
n-Butylbenzene	<0.00500	0.0500	0.0540	108	74-128	mg/L	11.10.17 19:09	
Sec-Butylbenzene	<0.00500	0.0500	0.0541	108	76-126	mg/L	11.10.17 19:09	
tert-Butylbenzene	<0.00500	0.0500	0.0564	113	77-124	mg/L	11.10.17 19:09	
Carbon Tetrachloride	<0.00500	0.0500	0.0515	103	77-119	mg/L	11.10.17 19:09	
Chlorobenzene	<0.00500	0.0500	0.0614	123	78-110	mg/L	11.10.17 19:09	X
Chloroethane	<0.0100	0.0500	0.0512	102	62-113	mg/L	11.10.17 19:09	
Chloroform	<0.00500	0.0500	0.0551	110	79-111	mg/L	11.10.17 19:09	
Methyl Chloride	<0.0100	0.0500	0.0478	96	64-115	mg/L	11.10.17 19:09	
2-Chlorotoluene	<0.00500	0.0500	0.0558	112	79-113	mg/L	11.10.17 19:09	
4-Chlorotoluene	<0.00500	0.0500	0.0548	110	76-114	mg/L	11.10.17 19:09	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0542	108	71-123	mg/L	11.10.17 19:09	
Dibromochloromethane	<0.00500	0.0500	0.0559	112	74-117	mg/L	11.10.17 19:09	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0577	115	70-124	mg/L	11.10.17 19:09	
1,2-Dibromoethane	<0.00500	0.0500	0.0580	116	75-117	mg/L	11.10.17 19:09	
Methylene bromide	<0.00500	0.0500	0.0565	113	72-114	mg/L	11.10.17 19:09	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0570	114	77-115	mg/L	11.10.17 19:09	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0557	111	79-112	mg/L	11.10.17 19:09	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0586	117	76-112	mg/L	11.10.17 19:09	X
Dichlorodifluoromethane	<0.00500	0.0500	0.0454	91	64-138	mg/L	11.10.17 19:09	
1,1-Dichloroethane	<0.00500	0.0500	0.0556	111	71-121	mg/L	11.10.17 19:09	
1,2-Dichloroethane	<0.00500	0.0500	0.0558	112	72-111	mg/L	11.10.17 19:09	X
1,1-Dichloroethene	<0.00500	0.0500	0.0526	105	74-124	mg/L	11.10.17 19:09	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0564	113	72-121	mg/L	11.10.17 19:09	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0524	105	72-117	mg/L	11.10.17 19:09	
1,2-Dichloropropane	<0.00500	0.0500	0.0597	119	75-113	mg/L	11.10.17 19:09	X
1,3-Dichloropropane	<0.00500	0.0500	0.0568	114	74-113	mg/L	11.10.17 19:09	X
2,2-Dichloropropane	<0.00500	0.0500	0.0605	121	58-131	mg/L	11.10.17 19:09	
1,1-Dichloropropene	<0.00500	0.0500	0.0545	109	77-116	mg/L	11.10.17 19:09	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0555	111	75-119	mg/L	11.10.17 19:09	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0565	113	75-123	mg/L	11.10.17 19:09	
Ethylbenzene	<0.00500	0.0500	0.0561	112	80-116	mg/L	11.10.17 19:09	
Hexachlorobutadiene	<0.00500	0.0500	0.0545	109	79-123	mg/L	11.10.17 19:09	
Isopropylbenzene	<0.00500	0.0500	0.0557	111	79-117	mg/L	11.10.17 19:09	
Methylene Chloride	<0.00500	0.0500	0.0507	101	67-116	mg/L	11.10.17 19:09	
MTBE	<0.00500	0.0500	0.0628	126	70-125	mg/L	11.10.17 19:09	X
Naphthalene	<0.0100	0.0500	0.0595	119	72-157	mg/L	11.10.17 19:09	
n-Propylbenzene	<0.00500	0.0500	0.0543	109	75-121	mg/L	11.10.17 19:09	
Styrene	<0.00500	0.0500	0.0562	112	74-124	mg/L	11.10.17 19:09	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0548	110	75-114	mg/L	11.10.17 19:09	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0557	111	75-113	mg/L	11.10.17 19:09	
Tetrachloroethylene	<0.00500	0.0500	0.0556	111	78-117	mg/L	11.10.17 19:09	
Toluene	<0.00500	0.0500	0.0570	114	77-112	mg/L	11.10.17 19:09	X
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0594	119	70-140	mg/L	11.10.17 19:09	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0573	115	71-135	mg/L	11.10.17 19:09	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0552	110	75-118	mg/L	11.10.17 19:09	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0579	116	75-114	mg/L	11.10.17 19:09	X



Kinder Morgan-El Paso

KMI L1100 - Hydroteset

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032975

Parent Sample Id: 567338-005

Matrix: Water

MS Sample Id: 567338-005 S

Prep Method: SW5030B

Date Prep: 11.10.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0558	112	70-123	mg/L	11.10.17 19:09	
Trichlorofluoromethane	<0.00500	0.0500	0.0481	96	69-118	mg/L	11.10.17 19:09	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0557	111	73-115	mg/L	11.10.17 19:09	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0551	110	74-118	mg/L	11.10.17 19:09	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0569	114	77-119	mg/L	11.10.17 19:09	
o-Xylene	<0.00500	0.0500	0.0574	115	78-122	mg/L	11.10.17 19:09	
m,p-Xylenes	<0.0100	0.100	0.110	110	79-118	mg/L	11.10.17 19:09	
Vinyl Chloride	<0.00200	0.0500	0.0536	107	65-114	mg/L	11.10.17 19:09	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	95		75-131	%	11.10.17 19:09
1,2-Dichloroethane-D4	96		63-144	%	11.10.17 19:09
Toluene-D8	100		80-117	%	11.10.17 19:09
4-Bromofluorobenzene	99		74-124	%	11.10.17 19:09



Setting the Standard since 1990

Stafford, TX (281) 240-4200
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Service Center - Baton Rouge, LA (832) 712-8143

Service Center- Amarillo, TX (806) 678-4514
Service Center- Hobbs, NM (575) 392-7550

CHAIN OF CUSTODY

Page ____ Of ____

Revision 2016.1

37998

www.xenco.com

Xenco Quote #
Xenco Job # 567776

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: Kinder Morgan				Project Name/Number: KMI L1100 - Hydrotect											
Company Address: 2 N. Nevada Ave Colorado Springs, CO 80903				Project Location: Lordsburg, NM											
Email: amy_blythe@kindermorgan.com				Invoice To: KMI - Amy Blythe											
Project Contact: Amy Blythe				PO Number:											
Sampler's Name: Charles Griffin															
No.	Field ID / Point of Collection	Sample Depth	Collection	Date	Time	Matrix	# of bottles	HCl	Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE
1	WW 110717-001			11/07/17	3:02p	WW	1								
2	WW 110717-002			11/07/17	3:04p	WW	1								
3	WW 110717-003			11/07/17	3:15p	WW	3								
4	WW 110717-004			11/07/17	3:33p	WW	3								
5	WW 110717-005			11/07/17	3:39p	WW	3								
6	WW 110717-006			11/07/17	3:53p	WW	1								
7	WW 110717-007			11/07/17	3:58p	WW	1								
8	S 110717-008	6"		11/07/17	4:16p	S	2								
9															
10															

Data Deliverable Information				Notes:			
Turnaround Time (Business days)	Level II Std QC	Level IV (Full Data Pkg (raw data))					
☐ Same Day TAT	☐ Level II Std QC	☐ Level IV (Full Data Pkg (raw data))		All samples taken @ KMI L1100			
☐ Next Day EMERGENCY	☐ Level III Std QC+ Forms	☐ TRRP Level IV		Hydrotect Section 5 I.e.v			
☐ 2 Day EMERGENCY	☐ Level 3 (CLP Forms)	☐ UST / RG -411		Site - 32.315542/108.800707			
☒ 3 Day EMERGENCY	☐ Level II Report with TRRP checklist						

TAT Starts Day received by Lab, if received by 5:00 pm				FED-EX / UPS: Tracking #			

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
Relinquished by Sampler:	Date Time:	Relinquished By:	Date Time:
Charles Griffin	11/8/17 4:52p	July 11/8/17 9:32	16:00
Relinquished by:	Date Time:	Relinquished By:	Date Time:
Relinquished by:	Date Time:	Relinquished By:	Date Time:

Preserved where applicable			
Cooler Temp.	Thermo, Corr. Factor		
4.5/1.7	TK3		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless otherwise specified under a fully executed contract.



Inter-Office Shipment

Page 1 of 1

IOS Number **1051555**

Date/Time: 11/08/17 16:46

Created by: Melissa Corell

Please send report to: Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 409248456333

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
567776-001	W	WW110717 - 001 - 00	11/07/17 15:02	SW1010	Flash Point (CC) SW-846 1010	11/10/17	12/07/17	MKI	FLASHPT	
567776-001	W	WW110717 - 001 - 00	11/07/17 15:02	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/10/17	12/05/17	MKI	HG	
567776-001	W	WW110717 - 001 - 00	11/07/17 15:02	SW8015B_NM	TPH by SW 8015B	11/10/17	11/14/17	MKI	PHCC10C28 PHCC6C10 T	
567776-001	S	WW110717 - 001 - 00	11/07/17 15:02	SW8082	PCBs by EPA 8082	11/10/17	11/21/17	MKI	PCB1016 PCB1221 PCB12	
567776-001	W	WW110717 - 001 - 00	11/07/17 15:02	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/10/17	11/21/17	MKI	BZ BZME EBZ XYLMP X	
567776-001	W	WW110717 - 001 - 00	11/07/17 15:02	SW8260B	VOCs by SW-846 8260B	11/10/17	11/21/17	MKI	BDCME BRBZ BRCLME I	
567776-002	W	S110717 - 008	11/07/17 16:16	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/10/17	11/21/17	MKI	BZ BZME EBZ XYLMP X	
567776-002	S	S110717 - 008	11/07/17 16:16	SW8082	PCBs by EPA 8082	11/10/17	11/21/17	MKI	PCB1016 PCB1221 PCB12	
567776-002	S	S110717 - 008	11/07/17 16:16	SW8260C	VOCs By SW846 8260C	11/10/17	11/21/17	MKI	BDCME BRBZ BRCLME I	
567776-002	S	S110717 - 008	11/07/17 16:16	SW8015B_NM	TPH by SW 8015B	11/10/17	11/21/17	MKI	PHCC10C28 PHCC6C10 T	

Inter Office Shipment or Sample Comments:

Relinquished By

Melissa Corell

Received By:

Rene Vandenberghe

Date Relinquished: 11/08/2017

Date Received: 11/09/2017 09:30

Cooler Temperature: 2.7



Inter-Office Shipment

Page 1 of 1

IOS Number 1051556

Date/Time: 11/08/17 16:48

Created by: Melissa Corell

Please send report to: Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Midland**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
567776-002	S	S110717 - 008	11/07/17 16:16	E901.1	NORM analysis by E901.1 MOD	11/10/17	05/06/18	MKI	Y	

Inter Office Shipment or Sample Comments:

Relinquished By

Melissa Corell

Date Relinquished: 11/08/2017

Received By:

Connie Hernandez

Date Received: 11/13/2017 10:00

Cooler Temperature: _____



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 1051555

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Melissa Corell

Date Sent: 11/08/2017 04:46 PM

Received By: Rene Vandenberghe

Date Received: 11/09/2017 09:30 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:


Rene Vandenberghe

Date: 11/09/2017



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 1051556

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Melissa Corell

Date Sent: 11/08/2017 04:48 PM

Received By: Connie Hernandez

Date Received: 11/13/2017 10:00 AM

Sample Receipt Checklist

Comments

- | | |
|---|-----|
| #1 *Temperature of cooler(s)? | |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received with appropriate temperature? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 *Custody Seals Signed and dated for Containers/coolers | Yes |
| #6 *IOS present? | Yes |
| #7 Any missing/extra samples? | No |
| #8 IOS agrees with sample label(s)/matrix? | Yes |
| #9 Sample matrix/ properties agree with IOS? | Yes |
| #10 Samples in proper container/ bottle? | Yes |
| #11 Samples properly preserved? | Yes |
| #12 Sample container(s) intact? | Yes |
| #13 Sufficient sample amount for indicated test(s)? | Yes |
| #14 All samples received within hold time? | Yes |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Connie Hernandez

Date: 11/13/2017



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Kinder Morgan-El Paso

Date/ Time Received: 11/08/2017 09:30:00 AM

Work Order #: 567776

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR 3

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes HOUSTON / Midland
#18 Water VOC samples have zero headspace?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: YEM

PH Device/Lot#: 195894

Checklist completed by:


Melissa Corell

Date: 11/08/2017

Checklist reviewed by:


Mike Kimmel

Date: 11/14/2017



Kinder Morgan- El paso

ATTN: Amy Blythe
8645 Railroad Dr.
El Paso, TX 79904
915-587-3694

Sample Type: Soil
Sample Condition: Intact/ Ambient deg C
Lab ID#: 567776-001
Project Name: KMI L1100 - Hydrotest
Project # : KMI L1100- Hydrotest
Project Location: Lordsburg, NM

Sample Date: 11/07/17
Sample Time: 16:16
Receiving Date: 11/08/17
Analysis Date: 11/13/17
Analysis Time: 10:27
Field Code: S110717-008

Analysis Description	Analysis Results pCi/G	Analysis Error +/- 2s	Analysis Results Bq/G	Analysis Error +/- 2s	Analysis Test Method	Analysis Technician
Ra-226	<2.86	N/A	<.11	N/A	EPA 901.1M	JUM
Ra-228	<1.35	N/A	<.05	N/A	EPA 901.1M	JUM
Pb-210	<3.49	N/A	<.13	N/A	EPA 901.1M	JUM
Th-228	<6.81	N/A	<.25	N/A	EPA 901.1M	JUM
Bi-214	<0.52	N/A	<.02	N/A	EPA 901.1M	JUM
Total Activity	0.00	N/A	0.00	N/A	EPA 901.1M	JUM
Notes:						

Quality Assurance Review

Xenco Laboratories assumes no liability for the use or interpretation of any analytical results other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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