

2016 ANNUAL GROUNDWATER REPORT

Standard Oil Com #1
NMOCD Case#: 3RP-238-0
Meter Code: 70445
T29N, R9W, Sec36, Unit N

SITE DETAILS

Site Location: Latitude: 36.678617 N, Longitude: -107.736788
Land Type: State
Operator: Burlington Resources

SITE BACKGROUND

- **Site Assessment:** 5/94
- **Excavation:** 5/94 (60 cy)

Environmental Remediation activities at the Standard Oil Com #1 (Site) are managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (OCD) in correspondence dated November 30, 1995; and the OCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Burlington Resources Oil & Gas Company LP and is active.

The Site is located on State/Fee land. Various site investigations have occurred from 1994 through 2012. Monitoring wells were installed in 1994 (MW-1), 1995 (MW-2 through MW-4), 1997 (PZ-01 through PZ-07), 2006 (MW-5), 2013 (MW-6 through MW-11), and 2015 (MW-12 through MW-16, abandon MW-5). Free product was observed in MW-1 in 1996, but has not been detected since. Currently, groundwater sampling is conducted on a semi-annual basis.

SUMMARY OF 2016 ACTIVITIES

Groundwater monitoring and sampling was completed on April 16 and October 11, 2016. During the April 2016 event, monitoring wells MW-1 through MW-4 and MW-6 through MW-16 (ALL) were gauged and sampled. During the October 2016 event, water level data was collected from each monitoring well, and groundwater samples were collected from monitoring wells MW-1, MW-2, MW-7, MW-9, MW-15, and MW-16.

Groundwater samples were collected from selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge passive groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless steel weights to collect a sample from the screened interval.

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Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica-Pensacola where they were analyzed for BTEX. Additional field parameters were collected from the excess sample water recovered by the HydraSleeve. Excess sample water was poured into a YSI multi-parameter instrument sample cup and analyzed. Field parameters include dissolved oxygen, temperature, conductivity, pH, and oxidation-reduction potential (ORP). Field parameters are not collected if free product is present. The unused sample water is combined in a waste container and taken to Basin Disposal, Inc. for disposal.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively.

SITE MAPS

Groundwater analytical results (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2016 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix A.

GROUNDWATER RESULTS

- The groundwater flow direction at the Site is generally to the west-northwest (see Figures 2 and 4).
- Groundwater samples were collected from the site monitoring wells during the April 2016 sample event. Based on significantly elevated concentration in down-gradient monitoring wells MW-3 and MW-11, and EPCGP's belief that these concentrations are not associated with the former El Paso pit addressed by NMMOCD Case #3RP-238-0, the sample group was reduced for the October 2016 sample event. Monitoring wells MW-3, MW-4, and wells MW-10 through MW-14 were omitted from the sample group, so as to only include wells which EPCGP believes are representative of impacts associated with the former El Paso pit.
- Groundwater samples collected in 2016 from MW-1, MW-2, MW-3, MW-6, MW-9, MW-10, MW-11, and MW-12 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. The remaining groundwater samples collected in 2016 were either below the NMWQCC standard for benzene or not detected.

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- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2016.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2016.
- Groundwater samples collected in 2016 from MW-7, and MW-11 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. The remaining groundwater samples collected in 2016 were either below the NMWQCC standard for total xylenes or not detected.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis. The 2017 Annual Report will be submitted in early 2018.

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TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	09/12/95	482	629	188	1980
MW-1	11/07/96	277	121	161	1590
MW-1	02/07/97	119	20.2	139	1490
MW-1	05/09/97	105	14.2	145	1480
MW-1	08/08/97	82.6	15.6	140	1400
MW-1	11/04/97	91.4	32.4	141	1320
MW-1	02/03/98	109	31	163	1680
MW-1	05/07/98	107	24.2	161	1640
MW-1	08/04/98	113	48.7	167	1580
MW-1	11/03/98	122	61.3	190	1930
MW-1	02/02/99	157	75.8	204	2100
MW-1	05/19/99	178	55.2	184	1730
MW-1	08/04/99	252	136	203	1890
MW-1	11/09/99	240	98	180	1500
MW-1	02/25/00	1300	1000	260	1700
MW-1	05/24/00	56	120	220	1500
MW-1	08/08/00	12	11	66	470
MW-1	11/06/00	390	110	180	1100
MW-1	02/15/01	280	88	160	1200
MW-1	06/04/01	340	170	170	430
MW-1	08/07/01	510	340	250	1500
MW-1	12/04/01	330	98	150	1200
MW-1	02/25/02	310	170	170	1200
MW-1	05/14/02	250	150	190	1400
MW-1	08/06/02	551	398	214	1041
MW-1	11/04/02	464	207	235	1085
MW-1	02/27/03	600	330	225	993
MW-1	05/19/03	230	206	172	977
MW-1	08/18/03	NS	NS	NS	NS
MW-1	11/15/03	NS	NS	NS	NS
MW-1	02/17/04	NS	NS	NS	NS
MW-1	06/02/04	416	534	287	1330
MW-1	06/24/05	234	310	305	1530
MW-1	06/07/06	66	71.9	165	804
MW-1	06/12/07	29.8	38.2	116	477
MW-1	06/16/08	45.4	37.7	164	598
MW-1	06/10/09	33.7	16.4	156	484
MW-1	06/02/10	23.1	5.4	152	421
MW-1	05/09/11	<50	<50	137	394
MW-1	05/15/12	16.4	2.4	150	510
MW-1	06/05/13	23	3.5	190	54
MW-1	09/11/13	13	0.68 J	220	13
MW-1	12/12/13	12	17	150	8.7
MW-1	04/04/14	21	17	180	<0.65
MW-1	10/24/14	11	<0.70	120	<1.6
MW-1	05/31/15	16	13	130	3.8 J
MW-1	11/24/15	51	29	160	52
MW-1	04/16/16	22	<5.0	110	16
MW-1	10/15/16	36	33	180	72

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	12/13/01	940	74	360	2900
MW-2	08/06/02	NS	NS	NS	NS
MW-2	11/04/02	NS	NS	NS	NS
MW-2	05/19/03	673	167	228	1010
MW-2	08/18/03	NS	NS	NS	NS
MW-2	11/15/03	NS	NS	NS	NS
MW-2	02/17/04	NS	NS	NS	NS
MW-2	06/02/04	943	120	309	1130
MW-2	06/24/05	1090	120	418	1510
MW-2	06/07/06	592	37.7	216	692
MW-2	06/12/07	781	<25	286	733
MW-2	06/16/08	480	5.6 J	299	614
MW-2	06/10/09	532	<1	356	836
MW-2	06/02/10	421	3	348	670
MW-2	05/09/11	354	1.5 J	275	461
MW-2	05/15/12	630	12.2	358	892
MW-2	06/05/13	440	94	520	1700
MW-2	09/11/13	390	11	680	2100
MW-2	12/12/13	150	8.6	300	640
MW-2	04/04/14	140	10	240	400
MW-2	10/24/14	59	<0.70	62	1.6 J
MW-2	05/31/15	3.4	2.0 J	8.9	<5.0
MW-2	11/24/15	31	<1.0	19	<3.0
MW-2	04/16/16	11	<5.0	5.1	<5.0
MW-2	10/15/16	140	<5.0	110	<5.0
MW-3	12/13/01	1800	1600	570	5600
MW-3	08/06/02	NS	NS	NS	NS
MW-3	11/04/02	NS	NS	NS	NS
MW-3	05/19/03	NS	NS	NS	NS
MW-3	08/18/03	NS	NS	NS	NS
MW-3	11/15/03	NS	NS	NS	NS
MW-3	02/17/04	NS	NS	NS	NS
MW-3	06/02/04	NS	NS	NS	NS
MW-3	06/24/05	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	06/12/07	NS	NS	NS	NS
MW-3	06/16/08	NS	NS	NS	NS
MW-3	06/10/09	NS	NS	NS	NS
MW-3	06/02/10	NS	NS	NS	NS
MW-3	05/09/11	2370	15.2	429	836
MW-3	05/15/12	2240	10.3	405	807
MW-3	06/05/13	2500	24	400	970
MW-3	09/11/13	2200	<0.6	550	1300
MW-3	12/12/13	1300	<3	390	700
MW-3	04/04/14	1600	<7.5	440	990
MW-3	10/24/14	1300	<3.5	340	490
MW-3	05/31/15	870	6.9 J	240	430
MW-3	11/24/15	2500	<1.0	510	760
MW-3	04/16/16	1400	<50	350	400
MW-3	10/15/16	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	12/13/01	380	340	780	7300
MW-4	08/06/02	NS	NS	NS	NS
MW-4	11/04/02	NS	NS	NS	NS
MW-4	05/19/03	NS	NS	NS	NS
MW-4	08/18/03	NS	NS	NS	NS
MW-4	11/15/03	NS	NS	NS	NS
MW-4	02/17/04	NS	NS	NS	NS
MW-4	06/02/04	NS	NS	NS	NS
MW-4	06/24/05	NS	NS	NS	NS
MW-4	06/07/06	NS	NS	NS	NS
MW-4	06/12/07	NS	NS	NS	NS
MW-4	06/16/08	NS	NS	NS	NS
MW-4	06/10/09	NS	NS	NS	NS
MW-4	06/02/10	NS	NS	NS	NS
MW-4	05/09/11	1.6	5.2	227	700
MW-4	05/15/12	59	5	187	545
MW-4	06/05/13	0.16 J	0.56 J	82	71
MW-4	09/11/13	<0.14	0.73 J	140	75
MW-4	12/12/13	0.21 J	13	37	1.1 J
MW-4	04/04/14	<0.20	18	130	48
MW-4	10/24/14	<0.38	<0.70	100	12
MW-4	05/31/15	<1.0	16	84	8.4
MW-4	11/24/15	5.1	1.2	65	3.2
MW-4	04/16/16	3.5	<5.0	59	6.9
MW-4	10/15/16	NS	NS	NS	NS
MW-5	11/09/06	NS	NS	NS	NS
MW-5	06/12/07	<1	<1	<1	15.6
MW-5	06/16/08	<1	<1	0.39 J	0.68 J
MW-5	06/10/09	<1	<1	1.7	4.2
MW-5	06/02/10	<2	<2	<2	<6
MW-5	05/09/11	NS	NS	NS	NS
MW-5	05/15/12	NS	NS	NS	NS
MW-5	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-5	09/11/13	<0.14	<0.30	<0.20	<0.23
MW-5	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-5	04/04/14	0.74 J H	<0.38 H	<0.20 H	2 H
MW-5	10/24/14	NS	NS	NS	NS
MW-5	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-5 plugged and abandoned on 11-13-15					
MW-6	12/12/13	60	35	73	220
MW-6	04/04/14	29	9.4	25	38
MW-6	10/24/14	43	<0.70	20	2.5 J
MW-6	05/31/15	23	3.8 J	8.7	<5.0
MW-6	11/24/15	53	<1.0	21	4.6
MW-6	04/16/16	41	<5.0	8.1	<5.0
MW-6	10/15/16	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-7	12/12/13	<1.0	110	200	2200
MW-7	04/04/14	<2.0	91	200	2200
MW-7	10/24/14	<3.8	53	380	3400
MW-7	05/31/15	<5.0	28	280	1900
MW-7	11/24/15	90	11	400	1300
MW-7	04/16/16	5.6	12	410	1500
MW-7	10/15/16	8.6	<10	360	450
MW-8	12/12/13	350	53	480	780
MW-8	04/04/14	150	<0.38	470	260
MW-8	10/24/14	180	<1.4	460	70
MW-8	05/31/15	44	3.6 J	180	<5.0
MW-8	11/24/15	32	<1.0	29	3.8
MW-8	04/16/16	<1.0	<5.0	1.1	<5.0
MW-8	10/15/16	NS	NS	NS	NS
MW-9	12/12/13	250	110	250	310
MW-9	04/04/14	130	57	110	100
MW-9	10/24/14	120	2.5	100	29
MW-9	05/31/15	72	<25	77	16 J
MW-9	11/24/15	130	<25	120	<25
MW-9	04/16/16	120	<5.0	130	6
MW-9	10/15/16	120	<5.0	120	8.2
MW-10	12/12/13	1600	460	130	1100
MW-10	04/04/14	340	5.6 J	62	42
MW-10	10/24/14	430	<1.4	63	12 J
MW-10	05/31/15	130	5.9	20	<5.0
MW-10	11/24/15	1300	<1.0	48	<15
MW-10	04/16/16	45	<5.0	2	<5.0
MW-10	10/15/16	NS	NS	NS	NS
MW-11	12/12/13	1800	270	410	3000
MW-11	04/04/14	970 H	580	590	3500
MW-11	10/24/14	1800	210	380	2400
MW-11	05/31/15	1300	23 J	270	1200
MW-11	11/24/15	3600	3.8	580	3500
MW-11	04/16/16	3400	<100	660	3400
MW-11	10/15/16	NS	NS	NS	NS
MW-12	11/24/15	260	8.9	320	2000
MW-12	04/16/16	210	<5.0	210	46
MW-12	10/15/16	NS	NS	NS	NS
MW-13	11/24/15	<1.0	<1.0	<1.0	<3.0
MW-13	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-13	10/15/16	NS	NS	NS	NS
MW-14	11/24/15	2.4	<1.0	<1.0	<3.0
MW-14	04/16/16	1.4	<5.0	<1.0	<5.0
MW-14	10/15/16	NS	NS	NS	NS
MW-15	11/24/15	<1.0	<1.0	<1.0	3.1
MW-15	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-15	10/15/16	<1.0	<5.0	1.7	<5.0
MW-16	11/24/15	120	57	190	1500
MW-16	04/16/16	<1.0	<5.0	<1.0	<5.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-16	10/15/16	<1.0	<5.0	1.7	<5.0
PZ-1	07/31/97	4,770	7080	925	8810
PZ-2	07/31/97	<10	2120	560	6130
PZ-3	07/31/97	<10	6060	681	7870
PZ-4	07/31/97	3.39	6.61	41.4	320
PZ-5	07/31/97	10400	<50	746	5500
PZ-6	07/31/97	1420	1740	579	4320
PZ-7	07/31/97	126	4590	1150	11600

Notes:

"µg/L" = micrograms per liter

"NMWQCC" - New Mexico Water Quality Control Commission

Results highlighted yellow exceed their respective NMWQCC standards.

B = Compound was found in the blank and sample.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

H = Sample was prepped or analyzed beyond the specified holding time.

< = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	09/12/95	5681.65	21.03	NR		5660.62
MW-1	11/07/96	5681.65	21.30	21.24	0.06	5660.39
MW-1	02/07/97	5681.65	20.96	NR		5660.69
MW-1	05/09/97	5681.65	20.78	NR		5660.87
MW-1	08/08/97	5681.65	21.13	NR		5660.52
MW-1	11/04/97	5681.65	20.86	NR		5660.79
MW-1	02/03/98	5681.65	20.61	NR		5661.04
MW-1	05/07/98	5681.65	20.47	NR		5661.18
MW-1	08/04/98	5681.65	20.85	NR		5660.80
MW-1	11/03/98	5681.65	20.62	NR		5661.03
MW-1	02/02/99	5681.65	20.02	NR		5661.63
MW-1	05/19/99	5681.65	19.86	NR		5661.79
MW-1	08/04/99	5681.65	19.98	NR		5661.67
MW-1	11/09/99	5681.65	19.91	NR		5661.74
MW-1	02/25/00	5681.65	19.69	NR		5661.96
MW-1	05/24/00	5681.65	NR	NR		NA
MW-1	08/08/00	5681.65	NR	NR		NA
MW-1	11/06/00	5681.65	20.29	NR		5661.36
MW-1	02/15/01	5681.65	20.18	NR		5661.47
MW-1	06/04/01	5681.65	20.05	NR		5661.60
MW-1	08/07/01	5681.65	20.41	NR		5661.24
MW-1	12/04/01	5681.65	20.26	NR		5661.39
MW-1	02/25/02	5681.65	20.06	NR		5661.59
MW-1	05/14/02	5681.65	20.17	NR		5661.48
MW-1	08/06/02	5681.65	20.69	NR		5660.96
MW-1	11/04/02	5681.65	20.61	NR		5661.04
MW-1	02/27/03	5681.65	20.24	ND		5661.41
MW-1	05/19/03	5681.65	20.31	ND		5661.34
MW-1	08/18/03	5681.65	21.00	ND		5660.65
MW-1	11/15/03	5681.65	20.41	ND		5661.24
MW-1	02/17/04	5681.65	19.89	ND		5661.76
MW-1	06/02/04	5681.65	19.99	ND		5661.66
MW-1	06/24/05	5681.65	19.98	ND		5661.67
MW-1	06/07/06	5681.65	20.18	ND		5661.47
MW-1	06/12/07	5681.65	19.85	ND		5661.80
MW-1	06/16/08	5681.65	20.24	ND		5661.41
MW-1	06/10/09	5681.65	20.52	ND		5661.13
MW-1	06/02/10	5681.65	20.63	ND		5661.02
MW-1	05/09/11	5681.65	20.60	ND		5661.05
MW-1	05/15/12	5681.65	20.61	ND		5661.04
MW-1	06/05/13	5681.65	20.79	ND		5660.86
MW-1	09/11/13	5681.65	21.21	ND		5660.44
MW-1	12/12/13	5681.65	20.52	ND		5661.13
MW-1	04/04/14	5681.65	20.10	ND		5661.55
MW-1	10/24/14	5681.65	20.68	ND		5660.97
MW-1	05/31/15	5681.65	19.95	ND		5661.70
MW-1	11/24/15	5681.65	20.44	ND		5661.21
MW-1	04/16/16	5681.65	19.95	ND		5661.70
MW-1	10/15/16	5681.65	20.75	ND		5660.90

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	12/13/01	5688.83	27.15	NR		5661.68
MW-2	08/06/02	5688.83	27.65	NR		5661.18
MW-2	11/04/02	5688.83	27.59	NR		5661.24
MW-2	05/19/03	5688.83	27.29	ND		5661.54
MW-2	08/18/03	5688.83	29.96	ND		5658.87
MW-2	11/15/03	5688.83	27.33	ND		5661.50
MW-2	02/17/04	5688.83	26.86	ND		5661.97
MW-2	06/02/04	5688.83	26.94	ND		5661.89
MW-2	06/24/05	5688.83	26.92	ND		5661.91
MW-2	06/07/06	5688.83	27.12	ND		5661.71
MW-2	06/12/07	5688.83	26.96	ND		5661.87
MW-2	06/16/08	5688.83	27.17	ND		5661.66
MW-2	06/10/09	5688.83	27.45	ND		5661.38
MW-2	06/02/10	5688.83	27.50	ND		5661.33
MW-2	05/09/11	5688.83	27.56	ND		5661.27
MW-2	05/15/12	5688.83	27.53	ND		5661.30
MW-2	06/05/13	5688.83	27.59	ND		5661.24
MW-2	09/11/13	5688.83	28.14	ND		5660.69
MW-2	12/12/13	5688.83	27.43	ND		5661.40
MW-2	04/04/14	5688.83	27.00	ND		5661.83
MW-2	10/24/14	5688.83	27.54	ND		5661.29
MW-2	05/31/15	5688.83	26.83	ND		5662.00
MW-2	11/24/15	5688.83	27.32	ND		5661.51
MW-2	04/16/16	5688.83	26.82	ND		5662.01
MW-2	10/15/16	5688.83	27.66	ND		5661.17

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	12/13/01	5681.69	27.15	NR		5654.54
MW-3	08/06/02	5681.69	27.65	NR		5654.04
MW-3	11/04/02	5681.69	27.59	NR		5654.10
MW-3	05/19/03	5681.69	27.29	ND		5654.40
MW-3	08/18/03	5681.69	29.96	ND		5651.73
MW-3	11/15/03	5681.69	27.33	ND		5654.36
MW-3	02/17/04	5681.69	26.86	ND		5654.83
MW-3	06/02/04	5681.69	26.94	ND		5654.75
MW-3	06/24/05	5681.69	26.92	ND		5654.77
MW-3	06/07/06	5681.69	27.12	ND		5654.57
MW-3	06/12/07	5681.69	26.96	ND		5654.73
MW-3	06/16/08	5681.69	27.17	ND		5654.52
MW-3	06/10/09	5681.69	27.45	ND		5654.24
MW-3	06/02/10	5681.69	27.50	ND		5654.19
MW-3	05/09/11	5681.69	27.56	ND		5654.13
MW-3	05/15/12	5681.69	27.53	ND		5654.16
MW-3	06/05/13	5681.69	21.57	ND		5660.12
MW-3	09/11/13	5681.69	22.02	ND		5659.67
MW-3	12/12/13	5681.69	21.33	ND		5660.36
MW-3	04/04/14	5681.69	20.89	ND		5660.80
MW-3	10/24/14	5681.69	21.49	ND		5660.20
MW-3	05/31/15	5681.69	20.73	ND		5660.96
MW-3	11/24/15	5681.69	21.24	ND		5660.45
MW-3	04/16/16	5681.69	20.73	ND		5660.96
MW-3	10/15/16	5681.69	21.55	ND		5660.14

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	12/13/01	5677.86	21.10	NR		5656.76
MW-4	08/06/02	5677.86	21.53	NR		5656.32
MW-4	11/04/02	5677.86	21.40	NR		5656.46
MW-4	05/19/03	5677.86	21.07	ND		5656.79
MW-4	08/18/03	5677.86	21.78	ND		5656.08
MW-4	11/15/03	5677.86	21.22	ND		5656.64
MW-4	02/17/04	5677.86	20.74	ND		5657.12
MW-4	06/02/04	5677.86	20.74	ND		5657.12
MW-4	06/24/05	5677.86	20.75	ND		5657.11
MW-4	06/07/06	5677.86	20.96	ND		5656.90
MW-4	06/12/07	5677.86	20.58	ND		5657.28
MW-4	06/16/08	5677.86	20.95	ND		5656.91
MW-4	06/10/09	5677.86	21.23	ND		5656.63
MW-4	06/02/10	5677.86	21.25	ND		5656.61
MW-4	05/09/11	5677.86	21.33	ND		5656.53
MW-4	05/15/12	5677.86	17.60	ND		5660.26
MW-4	06/05/13	5677.86	17.79	ND		5660.07
MW-4	09/11/13	5677.86	18.21	ND		5659.65
MW-4	12/12/13	5677.86	17.56	ND		5660.30
MW-4	04/04/14	5677.86	17.11	ND		5660.75
MW-4	10/24/14	5677.86	17.70	ND		5660.16
MW-4	05/31/15	5677.86	16.95	ND		5660.91
MW-4	11/24/15	5677.86	17.46	ND		5660.40
MW-4	04/16/16	5677.86	16.93	ND		5660.93
MW-4	10/15/16	5677.86	17.76	ND		5660.10
MW-5	11/09/06	5679.49	17.63	ND		5661.86
MW-5	06/12/07	5679.49	17.85	ND		5661.64
MW-5	06/16/08	5679.49	18.20	ND		5661.29
MW-5	06/10/09	5679.49	18.58	ND		5660.91
MW-5	06/02/10	5679.49	18.65	ND		5660.84
MW-5	05/09/11	5679.49	18.74	ND		5660.75
MW-5	05/15/12	5679.49	18.67	ND		5660.82
MW-5	06/05/13	5679.49	18.88	ND		5660.61
MW-5	09/11/13	5679.49	19.41	ND		5660.08
MW-5	12/12/13	5679.49	18.69	ND		5660.80
MW-5	04/04/14	5679.49	18.18	ND		5661.31
MW-5	10/24/14	5679.49	DRY	ND		DRY
MW-5	10/24/14	5679.49	DRY	ND		DRY
MW-5	05/31/15	5679.49	17.99	ND		5661.50
MW-5	05/31/15	5679.49	17.99	ND		5661.50

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	12/12/13	5689.93	27.63	ND		5662.30
MW-6	04/04/14	5689.93	27.20	ND		5662.73
MW-6	10/24/14	5689.93	27.69	ND		5662.24
MW-6	05/31/15	5689.93	27.01	ND		5662.92
MW-6	11/24/15	5689.93	27.49	ND		5662.44
MW-6	04/16/16	5689.93	27.07	ND		5662.86
MW-6	10/15/16	5689.93	27.77	ND		5662.16
MW-7	12/12/13	5682.68	21.40	ND		5661.28
MW-7	04/04/14	5682.68	21.00	ND		5661.68
MW-7	10/24/14	5682.68	21.52	ND		5661.16
MW-7	05/31/15	5682.68	20.82	ND		5661.86
MW-7	11/24/15	5682.68	21.30	ND		5661.38
MW-7	04/16/16	5682.68	20.80	ND		5661.88
MW-7	10/15/16	5682.68	21.60	ND		5661.08
MW-8	12/12/13	5688.59	27.95	ND		5660.64
MW-8	04/04/14	5688.59	27.49	ND		5661.10
MW-8	10/24/14	5688.59	28.09	ND		5660.50
MW-8	05/31/15	5688.59	27.33	ND		5661.26
MW-8	11/24/15	5688.59	27.85	ND		5660.74
MW-8	04/16/16	5688.59	27.32	ND		5661.27
MW-8	10/15/16	5688.59	28.18	ND		5660.41
MW-9	12/12/13	5682.09	21.61	ND		5660.48
MW-9	04/04/14	5682.09	21.11	ND		5660.98
MW-9	10/24/14	5682.09	21.66	ND		5660.43
MW-9	05/31/15	5682.09	20.94	ND		5661.15
MW-9	11/24/15	5682.09	21.41	ND		5660.68
MW-9	04/16/16	5682.09	20.92	ND		5661.17
MW-9	10/15/16	5682.09	21.72	ND		5660.37
MW-10	12/12/13	5688.16	27.74	ND		5660.42
MW-10	04/04/14	5688.16	27.30	ND		5660.86
MW-10	10/24/14	5688.16	27.91	ND		5660.25
MW-10	05/31/15	5688.16	27.14	ND		5661.02
MW-10	11/24/15	5688.16	27.67	ND		5660.49
MW-10	04/16/16	5688.16	27.13	ND		5661.03
MW-10	10/15/16	5688.16	27.99	ND		5660.17
MW-11	12/12/13	5680.33	20.16	ND		5660.17
MW-11	04/04/14	5680.33	19.72	ND		5660.61
MW-11	10/24/14	5680.33	20.32	ND		5660.01
MW-11	05/31/15	5680.33	19.56	ND		5660.77
MW-11	11/24/15	5680.33	20.07	ND		5660.26
MW-11	04/16/16	5680.33	19.55	ND		5660.78
MW-11	10/15/16	5680.33	20.37	ND		5659.96

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-12	11/24/15	5676.34	16.35	ND		5659.99
MW-12	04/16/16	5676.34	15.84	ND		5660.50
MW-12	10/15/16	5676.34	16.65	ND		5659.69
MW-13	11/24/15	5681.64	21.58	ND		5660.06
MW-13	04/16/16	5681.64	22.58	ND		5660.57
MW-13	10/15/16	5681.64	23.58	ND		5659.76
MW-14	11/24/15	5685.68	36.33	ND		5649.35
MW-14	4/16/16	5685.68	24.41	ND		5661.27
MW-14	10/15/16	5685.68	25.04	ND		5660.64
MW-15	11/24/15	5683.73	22.10	ND		5661.63
MW-15	4/16/16	5683.73	21.61	ND		5662.12
MW-15	10/15/16	5683.73	22.43	ND		5661.30
MW-16	11/24/15	5679.67	18.81	ND		5660.86
MW-16	4/16/16	5679.67	18.30	ND		5661.37
MW-16	10/15/16	5679.67	19.13	ND		5660.54
PZ-1	7/31/97	NS	19	NR		NS
PZ-2	7/31/97	NS	19	NR		NS
PZ-3	7/31/97	NS	18.9	NR		NS
PZ-4	7/31/97	NS	16.4	NR		NS
PZ-5	7/31/97	NS	28.4	NR		NS
PZ-6	7/31/97	NS	19.5	NR		NS
PZ-7	7/31/97	NS	16.0	NR		NS

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" - Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

"NS" = No Survey Data

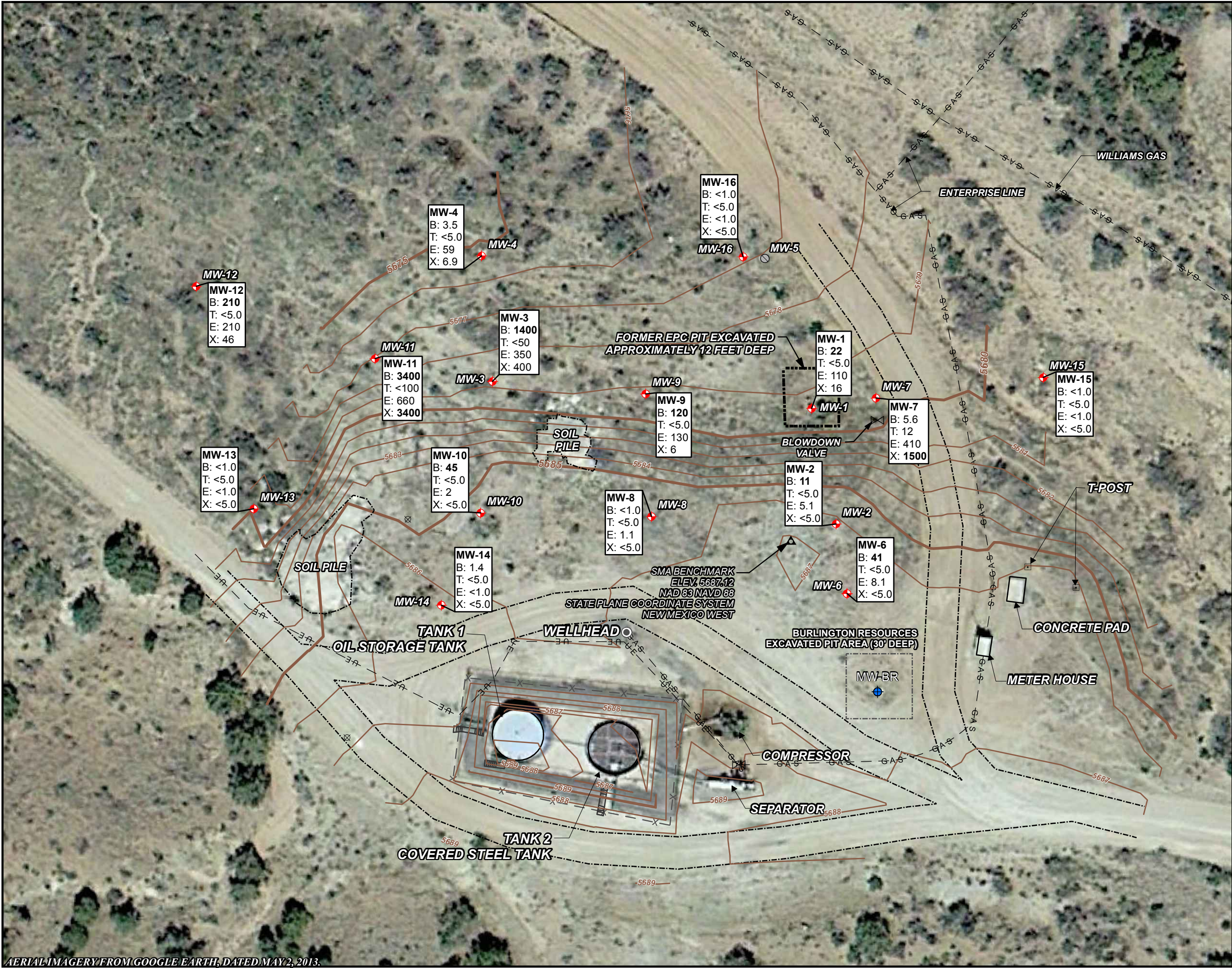
FIGURES

FIGURE 1: APRIL 16, 2016 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 2: APRIL 16, 2016 GROUNDWATER ELEVATION MAP

FIGURE 3: OCTOBER 15, 2016 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: OCTOBER 15, 2016 GROUNDWATER ELEVATION MAP



LEGEND:

- 5795** APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- x- FENCE
- FORMER PIT
- GAS- NATURAL GAS PIPELINE
- UE- UNDERGROUND ELECTRIC LINE
- ▲ BENCHMARK
- ⊠ GAS VALVE
- MONITORING WELL
- OTHER MONITORING WELL
- ⊠ RIG ANCHOR

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<1.0 = BELOW REPORTING LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	10/7/2016	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
APRIL 16, 2016

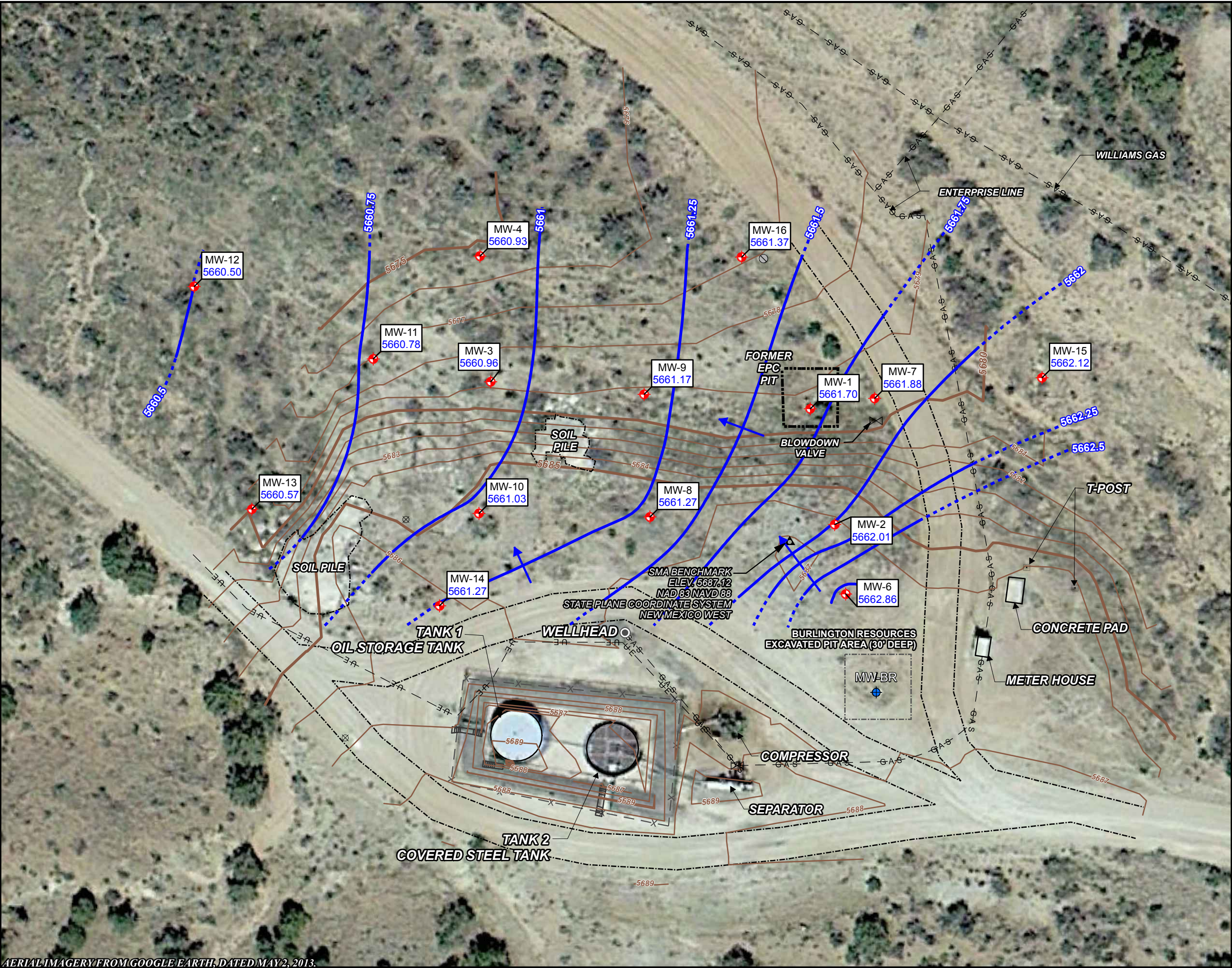
PROJECT:

STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO



Figure No.:

1





AERIAL IMAGERY FROM GOOGLE EARTH, DATED MAY 2, 2013.

LEGEND:

- 5795** APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- x- FENCE
- FORMER PIT
- GAS- NATURAL GAS PIPELINE
- E- UNDERGROUND ELECTRIC LINE
- ▲ BENCHMARK
- ⋈ GAS VALVE
- ♦ MONITORING WELL
- ⊕ OTHER MONITORING WELL
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EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<1.0 = BELOW REPORTING LIMIT
NS = NOT SAMPLED

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	11/29/2016	SLG	SLG	SRV

TITLE:
**GROUNDWATER ANALYTICAL RESULTS
OCTOBER 15, 2016**

PROJECT: **STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO**



Figure No.:
3



- 
MWH

NO MEASUREABLE FREE PRODUCT WAS DETECTED.

NO MEASUREABLE FREE PRODUCT WAS DETECTED.



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	11/30/2016	SLG	SLG	SRV

TITTLE:

GROUNDWATER ELEVATION MAP
OCTOBER 15, 2016

PROJECT: **STANDARD OIL COM #1**
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Figure No.:

APPENDIX A

MAY 5, 2016 GROUNDWATER SAMPLING ANALYTICAL REPORT

OCTOBER 27, 2016 GROUNDWATER SAMPLING ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-120433-1

Client Project/Site: Standard Oil Com #1

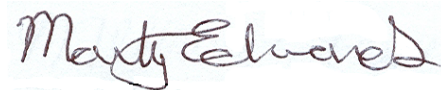
For:

MWH Americas Inc

11153 Aurora Avenue

Des Moines, Iowa 50322-7904

Attn: Steve Varsa



Authorized for release by:

5/3/2016 5:11:02 PM

Marty Edwards, Manager of Project Management

(850)474-1001

marty.edwards@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Job ID: 400-120433-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-120433-1

Comments

No additional comments.

Receipt

The samples were received on 4/19/2016 9:43 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-120433-1

No Detections.

Client Sample ID: MW-1

Lab Sample ID: 400-120433-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	22		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	110		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	16		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-120433-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	5.1		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-120433-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1400		10	ug/L	10		8021B	Total/NA
Ethylbenzene	350		10	ug/L	10		8021B	Total/NA
Xylenes, Total	400		50	ug/L	10		8021B	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-120433-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.5		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	59		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	6.9		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-120433-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	41		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	8.1		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-120433-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.6		2.0	ug/L	2		8021B	Total/NA
Ethylbenzene	410		2.0	ug/L	2		8021B	Total/NA
Toluene	12		10	ug/L	2		8021B	Total/NA
Xylenes, Total	1500		10	ug/L	2		8021B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-120433-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-120433-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0	ug/L	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-9 (Continued)

Lab Sample ID: 400-120433-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	130		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	6.0		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-120433-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	45		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	2.0		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-120433-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3400		20	ug/L	20		8021B	Total/NA
Ethylbenzene	660		20	ug/L	20		8021B	Total/NA
Xylenes, Total	3400		100	ug/L	20		8021B	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-120433-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	210		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	210		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	46		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-120433-13

No Detections.

Client Sample ID: MW-14

Lab Sample ID: 400-120433-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 400-120433-15

No Detections.

Client Sample ID: MW-16

Lab Sample ID: 400-120433-16

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-120433-1	TRIP BLANK	Water	04/16/16 06:00	04/19/16 09:43
400-120433-2	MW-1	Water	04/16/16 14:05	04/19/16 09:43
400-120433-3	MW-2	Water	04/16/16 14:10	04/19/16 09:43
400-120433-4	MW-3	Water	04/16/16 14:20	04/19/16 09:43
400-120433-5	MW-4	Water	04/16/16 14:25	04/19/16 09:43
400-120433-6	MW-6	Water	04/16/16 14:30	04/19/16 09:43
400-120433-7	MW-7	Water	04/16/16 14:35	04/19/16 09:43
400-120433-8	MW-8	Water	04/16/16 14:40	04/19/16 09:43
400-120433-9	MW-9	Water	04/16/16 14:45	04/19/16 09:43
400-120433-10	MW-10	Water	04/16/16 14:50	04/19/16 09:43
400-120433-11	MW-11	Water	04/16/16 14:55	04/19/16 09:43
400-120433-12	MW-12	Water	04/16/16 15:00	04/19/16 09:43
400-120433-13	MW-13	Water	04/16/16 15:05	04/19/16 09:43
400-120433-14	MW-14	Water	04/16/16 15:10	04/19/16 09:43
400-120433-15	MW-15	Water	04/16/16 15:15	04/19/16 09:43
400-120433-16	MW-16	Water	04/16/16 15:20	04/19/16 09:43

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-120433-1

Date Collected: 04/16/16 06:00

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/28/16 04:51	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 04:51	1
Toluene	<5.0		5.0	ug/L			04/28/16 04:51	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 04:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	101		78 - 124				04/28/16 04:51	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-1

Lab Sample ID: 400-120433-2

Date Collected: 04/16/16 14:05

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	22		1.0	ug/L			04/28/16 14:23	1
Ethylbenzene	110		1.0	ug/L			04/28/16 14:23	1
Toluene	<5.0		5.0	ug/L			04/28/16 14:23	1
Xylenes, Total	16		5.0	ug/L			04/28/16 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	107		78 - 124				04/28/16 14:23	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-2

Date Collected: 04/16/16 14:10

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-3

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0	ug/L			04/28/16 14:50	1
Ethylbenzene	5.1		1.0	ug/L			04/28/16 14:50	1
Toluene	<5.0		5.0	ug/L			04/28/16 14:50	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				04/28/16 14:50	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-3

Lab Sample ID: 400-120433-4

Date Collected: 04/16/16 14:20

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		10	ug/L			04/28/16 15:17	10
Ethylbenzene	350		10	ug/L			04/28/16 15:17	10
Toluene	<50		50	ug/L			04/28/16 15:17	10
Xylenes, Total	400		50	ug/L			04/28/16 15:17	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	97		78 - 124				04/28/16 15:17	10

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-4

Lab Sample ID: 400-120433-5

Date Collected: 04/16/16 14:25

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.5		1.0	ug/L			04/28/16 15:45	1
Ethylbenzene	59		1.0	ug/L			04/28/16 15:45	1
Toluene	<5.0		5.0	ug/L			04/28/16 15:45	1
Xylenes, Total	6.9		5.0	ug/L			04/28/16 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				04/28/16 15:45	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-6

Lab Sample ID: 400-120433-6

Date Collected: 04/16/16 14:30

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41		1.0	ug/L			04/28/16 16:12	1
Ethylbenzene	8.1		1.0	ug/L			04/28/16 16:12	1
Toluene	<5.0		5.0	ug/L			04/28/16 16:12	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	101		78 - 124				04/28/16 16:12	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-7

Lab Sample ID: 400-120433-7

Date Collected: 04/16/16 14:35

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.6		2.0	ug/L			04/28/16 16:39	2
Ethylbenzene	410		2.0	ug/L			04/28/16 16:39	2
Toluene	12		10	ug/L			04/28/16 16:39	2
Xylenes, Total	1500		10	ug/L			04/28/16 16:39	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	108		78 - 124				04/28/16 16:39	2

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-8

Lab Sample ID: 400-120433-8

Date Collected: 04/16/16 14:40

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/22/16 18:44	1
Ethylbenzene	1.1		1.0	ug/L			04/22/16 18:44	1
Toluene	<5.0		5.0	ug/L			04/22/16 18:44	1
Xylenes, Total	<5.0		5.0	ug/L			04/22/16 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				04/22/16 18:44	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-9

Lab Sample ID: 400-120433-9

Date Collected: 04/16/16 14:45

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		1.0	ug/L			04/28/16 17:07	1
Ethylbenzene	130		1.0	ug/L			04/28/16 17:07	1
Toluene	<5.0		5.0	ug/L			04/28/16 17:07	1
Xylenes, Total	6.0		5.0	ug/L			04/28/16 17:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	97		78 - 124				04/28/16 17:07	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-10

Lab Sample ID: 400-120433-10

Date Collected: 04/16/16 14:50

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	45		1.0	ug/L			04/28/16 17:36	1
Ethylbenzene	2.0		1.0	ug/L			04/28/16 17:36	1
Toluene	<5.0		5.0	ug/L			04/28/16 17:36	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	104		78 - 124				04/28/16 17:36	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-11

Lab Sample ID: 400-120433-11

Date Collected: 04/16/16 14:55

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3400		20	ug/L			04/28/16 18:04	20
Ethylbenzene	660		20	ug/L			04/28/16 18:04	20
Toluene	<100		100	ug/L			04/28/16 18:04	20
Xylenes, Total	3400		100	ug/L			04/28/16 18:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	100		78 - 124				04/28/16 18:04	20

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-12

Lab Sample ID: 400-120433-12

Date Collected: 04/16/16 15:00

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	210		1.0	ug/L			04/28/16 19:26	1
Ethylbenzene	210		1.0	ug/L			04/28/16 19:26	1
Toluene	<5.0		5.0	ug/L			04/28/16 19:26	1
Xylenes, Total	46		5.0	ug/L			04/28/16 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	108		78 - 124				04/28/16 19:26	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-13

Lab Sample ID: 400-120433-13

Date Collected: 04/16/16 15:05

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/28/16 07:07	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 07:07	1
Toluene	<5.0		5.0	ug/L			04/28/16 07:07	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				04/28/16 07:07	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-14

Lab Sample ID: 400-120433-14

Date Collected: 04/16/16 15:10

Matrix: Water

Date Received: 04/19/16 09:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		1.0	ug/L			04/28/16 06:40	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 06:40	1
Toluene	<5.0		5.0	ug/L			04/28/16 06:40	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	100		78 - 124				04/28/16 06:40	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-15

Date Collected: 04/16/16 15:15

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-15

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/28/16 05:18	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 05:18	1
Toluene	<5.0		5.0	ug/L			04/28/16 05:18	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 05:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				04/28/16 05:18	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-16

Date Collected: 04/16/16 15:20

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-16

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/28/16 18:31	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 18:31	1
Toluene	<5.0		5.0	ug/L			04/28/16 18:31	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	100		78 - 124				04/28/16 18:31	1

QC Association Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

GC VOA

Analysis Batch: 302984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120363-A-2 MS	Matrix Spike	Total/NA	Water	8021B	
400-120363-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	
400-120433-8	MW-8	Total/NA	Water	8021B	
LCS 400-302984/1002	Lab Control Sample	Total/NA	Water	8021B	
MB 400-302984/3	Method Blank	Total/NA	Water	8021B	

Analysis Batch: 303815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120433-1	TRIP BLANK	Total/NA	Water	8021B	
400-120433-2	MW-1	Total/NA	Water	8021B	
400-120433-3	MW-2	Total/NA	Water	8021B	
400-120433-4	MW-3	Total/NA	Water	8021B	
400-120433-5	MW-4	Total/NA	Water	8021B	
400-120433-6	MW-6	Total/NA	Water	8021B	
400-120433-7	MW-7	Total/NA	Water	8021B	
400-120433-9	MW-9	Total/NA	Water	8021B	
400-120433-10	MW-10	Total/NA	Water	8021B	
400-120433-11	MW-11	Total/NA	Water	8021B	
400-120433-12	MW-12	Total/NA	Water	8021B	
400-120433-13	MW-13	Total/NA	Water	8021B	
400-120433-14	MW-14	Total/NA	Water	8021B	
400-120433-15	MW-15	Total/NA	Water	8021B	
400-120433-15 MS	MW-15	Total/NA	Water	8021B	
400-120433-15 MSD	MW-15	Total/NA	Water	8021B	
400-120433-16	MW-16	Total/NA	Water	8021B	
LCS 400-303815/1001	Lab Control Sample	Total/NA	Water	8021B	
MB 400-303815/2	Method Blank	Total/NA	Water	8021B	

QC Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-302984/3

Matrix: Water

Analysis Batch: 302984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/22/16 13:48	1
Ethylbenzene	<1.0		1.0	ug/L			04/22/16 13:48	1
Toluene	<5.0		5.0	ug/L			04/22/16 13:48	1
Xylenes, Total	<5.0		5.0	ug/L			04/22/16 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124		04/22/16 13:48	1

Lab Sample ID: LCS 400-302984/1002

Matrix: Water

Analysis Batch: 302984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.8		ug/L		100	85 - 115
Ethylbenzene	50.0	49.9		ug/L		100	85 - 115
Toluene	50.0	49.6		ug/L		99	85 - 115
Xylenes, Total	150	151		ug/L		101	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	100		78 - 124

Lab Sample ID: 400-120363-A-2 MS

Matrix: Water

Analysis Batch: 302984

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	42.4		ug/L		85	44 - 150
Ethylbenzene	<1.0		50.0	41.3		ug/L		83	70 - 142
Toluene	<5.0		50.0	41.9		ug/L		84	69 - 136
Xylenes, Total	<5.0		150	125		ug/L		84	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	100		78 - 124

Lab Sample ID: 400-120363-A-2 MSD

Matrix: Water

Analysis Batch: 302984

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	37.8		ug/L		76	44 - 150	11	16
Ethylbenzene	<1.0		50.0	37.4		ug/L		75	70 - 142	10	16
Toluene	<5.0		50.0	37.5		ug/L		75	69 - 136	11	16
Xylenes, Total	<5.0		150	113		ug/L		76	68 - 142	10	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	100		78 - 124

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 400-303815/2

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			04/28/16 04:24	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 04:24	1
Toluene	<5.0		5.0	ug/L			04/28/16 04:24	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 04:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	103		78 - 124		04/28/16 04:24	1

Lab Sample ID: LCS 400-303815/1001

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.8		ug/L		104	85 - 115
Ethylbenzene	50.0	50.6		ug/L		101	85 - 115
Toluene	50.0	51.5		ug/L		103	85 - 115
Xylenes, Total	150	150		ug/L		100	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	101		78 - 124

Lab Sample ID: 400-120433-15 MS

Matrix: Water

Analysis Batch: 303815

Client Sample ID: MW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	59.0		ug/L		118	44 - 150
Ethylbenzene	<1.0		50.0	52.3		ug/L		105	70 - 142
Toluene	<5.0		50.0	56.1		ug/L		112	69 - 136
Xylenes, Total	<5.0		150	156		ug/L		104	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	103		78 - 124

Lab Sample ID: 400-120433-15 MSD

Matrix: Water

Analysis Batch: 303815

Client Sample ID: MW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	58.8		ug/L		118	44 - 150	0	16
Ethylbenzene	<1.0		50.0	57.4		ug/L		115	70 - 142	9	16
Toluene	<5.0		50.0	58.2		ug/L		116	69 - 136	4	16
Xylenes, Total	<5.0		150	172		ug/L		115	68 - 142	9	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	101		78 - 124

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: TRIP BLANK

Date Collected: 04/16/16 06:00

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 04:51	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-1

Date Collected: 04/16/16 14:05

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 14:23	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-2

Date Collected: 04/16/16 14:10

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 14:50	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-3

Date Collected: 04/16/16 14:20

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	303815	04/28/16 15:17	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-4

Date Collected: 04/16/16 14:25

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 15:45	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-6

Date Collected: 04/16/16 14:30

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 16:12	GRK	TAL PEN
Instrument ID: CH_RITA										

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-7

Date Collected: 04/16/16 14:35

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	303815	04/28/16 16:39	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-8

Date Collected: 04/16/16 14:40

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	302984	04/22/16 18:44	MKA	TAL PEN
Instrument ID: ETHYL										

Client Sample ID: MW-9

Date Collected: 04/16/16 14:45

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 17:07	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-10

Date Collected: 04/16/16 14:50

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 17:36	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-11

Date Collected: 04/16/16 14:55

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	5 mL	5 mL	303815	04/28/16 18:04	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-12

Date Collected: 04/16/16 15:00

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 19:26	GRK	TAL PEN
Instrument ID: CH_RITA										

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Client Sample ID: MW-13

Date Collected: 04/16/16 15:05

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 07:07	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-14

Date Collected: 04/16/16 15:10

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 06:40	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-15

Date Collected: 04/16/16 15:15

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 05:18	GRK	TAL PEN
Instrument ID: CH_RITA										

Client Sample ID: MW-16

Date Collected: 04/16/16 15:20

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120433-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303815	04/28/16 18:31	GRK	TAL PEN
Instrument ID: CH_RITA										

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	05-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-120433-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLeure Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Ms. Sarah Gardner Company: MWH Americas Inc Address: 1560 Broadway Suite 1800 City: Denver State, Zip: CO, 80202 Phone: 303-291-2239 (Tel) Email: sarah.gardner@mwhglobal.com Project Name: Standard Oil Com #1 Site: Standard Oil Com #1		Lab Pmt: 400-120433 COC Carrier Tracking No(s): Lab #: Page: Page 1 of 2	
Analysis Requested Due Date Requested: Per ARF TAT Requested (days): Per ARF PO #: ARF # Purchase Order Requested: FEG-ARF-03-30-15-CWO-01 Project #: 40005479 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsH2O2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=organic, A=air)		Special Instructions/Note: Per ARF	
Trip Blank MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11		Water Water Water Water Water Water Water Water Water Water Water	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab Special Instructions/QC Requirements: Per ARF	
Empty Kit Relinquished by: Relinquished by:		Date: 4/18/16 Time: 1530 Company: MWH	
Relinquished by:		Date: 4/19/16 Time: 1530 Company: Fed Ex	
Relinquished by:		Date: 4/19/16 Time: 1530 Company: Fed Ex	
Custody Seal's Intact: A. Yes B. No		Custody Seal No.:	

DECLASSIFICATION AUTHORITY: 25 USC 552

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Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-120433-1

Login Number: 120433

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128860-1

Client Project/Site: Standard Oil Com #1

For:

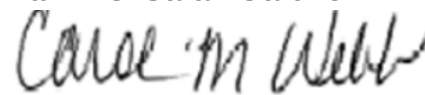
MWH Americas Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

10/27/2016 10:08:37 AM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Job ID: 400-128860-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128860-1

Comments

No additional comments.

Receipt

The samples were received on 10/18/2016 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-1

Lab Sample ID: 400-128860-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	36		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	180		1.0	ug/L	1		8021B	Total/NA
Toluene	33		5.0	ug/L	1		8021B	Total/NA
Xylenes, Total	72		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-128860-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	110		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-128860-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.6		2.0	ug/L	2		8021B	Total/NA
Ethylbenzene	360		2.0	ug/L	2		8021B	Total/NA
Xylenes, Total	450		10	ug/L	2		8021B	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-128860-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	120		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	8.2		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 400-128860-5

No Detections.

Client Sample ID: MW-16

Lab Sample ID: 400-128860-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.7		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: TB

Lab Sample ID: 400-128860-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128860-1	MW-1	Water	10/15/16 12:59	10/18/16 09:11
400-128860-2	MW-2	Water	10/15/16 13:03	10/18/16 09:11
400-128860-3	MW-7	Water	10/15/16 13:07	10/18/16 09:11
400-128860-4	MW-9	Water	10/15/16 13:12	10/18/16 09:11
400-128860-5	MW-15	Water	10/15/16 13:17	10/18/16 09:11
400-128860-6	MW-16	Water	10/15/16 13:21	10/18/16 09:11
400-128860-7	TB	Water	10/15/16 00:00	10/18/16 09:11

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-1

Date Collected: 10/15/16 12:59

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	36		1.0	ug/L			10/26/16 03:02	1
Ethylbenzene	180		1.0	ug/L			10/26/16 03:02	1
Toluene	33		5.0	ug/L			10/26/16 03:02	1
Xylenes, Total	72		5.0	ug/L			10/26/16 03:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	96		78 - 124				10/26/16 03:02	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-2
Date Collected: 10/15/16 13:03
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	140		1.0	ug/L			10/26/16 03:37	1
Ethylbenzene	110		1.0	ug/L			10/26/16 03:37	1
Toluene	<5.0		5.0	ug/L			10/26/16 03:37	1
Xylenes, Total	<5.0		5.0	ug/L			10/26/16 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	99		78 - 124				10/26/16 03:37	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-7
Date Collected: 10/15/16 13:07
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.6		2.0	ug/L			10/26/16 12:57	2
Ethylbenzene	360		2.0	ug/L			10/26/16 12:57	2
Toluene	<10		10	ug/L			10/26/16 12:57	2
Xylenes, Total	450		10	ug/L			10/26/16 12:57	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	100		78 - 124				10/26/16 12:57	2

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-9
Date Collected: 10/15/16 13:12
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		1.0	ug/L			10/26/16 04:49	1
Ethylbenzene	120		1.0	ug/L			10/26/16 04:49	1
Toluene	<5.0		5.0	ug/L			10/26/16 04:49	1
Xylenes, Total	8.2		5.0	ug/L			10/26/16 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				10/26/16 04:49	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-15

Date Collected: 10/15/16 13:17

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-5

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/26/16 05:24	1
Ethylbenzene	<1.0		1.0	ug/L			10/26/16 05:24	1
Toluene	<5.0		5.0	ug/L			10/26/16 05:24	1
Xylenes, Total	<5.0		5.0	ug/L			10/26/16 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	94		78 - 124				10/26/16 05:24	1

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-16

Date Collected: 10/15/16 13:21

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-6

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/26/16 08:21	1
Ethylbenzene	1.7		1.0	ug/L			10/26/16 08:21	1
Toluene	<5.0		5.0	ug/L			10/26/16 08:21	1
Xylenes, Total	<5.0		5.0	ug/L			10/26/16 08:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		78 - 124				10/26/16 08:21	1

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: TB

Date Collected: 10/15/16 00:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-7

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/26/16 01:50	1
Ethylbenzene	<1.0		1.0	ug/L			10/26/16 01:50	1
Toluene	<5.0		5.0	ug/L			10/26/16 01:50	1
Xylenes, Total	<5.0		5.0	ug/L			10/26/16 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	96		78 - 124				10/26/16 01:50	1

TestAmerica Pensacola

QC Association Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

GC VOA

Analysis Batch: 328221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128860-1	MW-1	Total/NA	Water	8021B	
400-128860-2	MW-2	Total/NA	Water	8021B	
400-128860-3	MW-7	Total/NA	Water	8021B	
400-128860-4	MW-9	Total/NA	Water	8021B	
400-128860-5	MW-15	Total/NA	Water	8021B	
400-128860-6	MW-16	Total/NA	Water	8021B	
400-128860-7	TB	Total/NA	Water	8021B	
MB 400-328221/2	Method Blank	Total/NA	Water	8021B	
LCS 400-328221/1001	Lab Control Sample	Total/NA	Water	8021B	
400-128860-1 MS	MW-1	Total/NA	Water	8021B	
400-128860-1 MSD	MW-1	Total/NA	Water	8021B	

QC Sample Results

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-328221/2

Matrix: Water

Analysis Batch: 328221

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/26/16 01:14	1
Ethylbenzene	<1.0		1.0	ug/L			10/26/16 01:14	1
Toluene	<5.0		5.0	ug/L			10/26/16 01:14	1
Xylenes, Total	<5.0		5.0	ug/L			10/26/16 01:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	95		78 - 124		10/26/16 01:14	1

Lab Sample ID: LCS 400-328221/1001

Matrix: Water

Analysis Batch: 328221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.8		ug/L		92	85 - 115
Ethylbenzene	50.0	46.8		ug/L		94	85 - 115
Toluene	50.0	46.8		ug/L		94	85 - 115
Xylenes, Total	150	137		ug/L		91	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	98		78 - 124

Lab Sample ID: 400-128860-1 MS

Matrix: Water

Analysis Batch: 328221

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	36		50.0	93.5		ug/L		115	44 - 150
Ethylbenzene	180		50.0	225		ug/L		94	70 - 142
Toluene	33		50.0	90.6		ug/L		116	69 - 136
Xylenes, Total	72		150	233		ug/L		108	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	94		78 - 124

Lab Sample ID: 400-128860-1 MSD

Matrix: Water

Analysis Batch: 328221

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	36		50.0	92.2		ug/L		113	44 - 150	1	16
Ethylbenzene	180		50.0	245		ug/L		134	70 - 142	9	16
Toluene	33		50.0	92.3		ug/L		119	69 - 136	2	16
Xylenes, Total	72		150	240		ug/L		112	68 - 142	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	86		78 - 124

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: MW-1

Date Collected: 10/15/16 12:59

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 03:02	SAB	TAL PEN
Instrument ID: CH_JOAN										

Client Sample ID: MW-2

Date Collected: 10/15/16 13:03

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 03:37	SAB	TAL PEN
Instrument ID: CH_JOAN										

Client Sample ID: MW-7

Date Collected: 10/15/16 13:07

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	328221	10/26/16 12:57	SAB	TAL PEN
Instrument ID: CH_JOAN										

Client Sample ID: MW-9

Date Collected: 10/15/16 13:12

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 04:49	SAB	TAL PEN
Instrument ID: CH_JOAN										

Client Sample ID: MW-15

Date Collected: 10/15/16 13:17

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 05:24	SAB	TAL PEN
Instrument ID: CH_JOAN										

Client Sample ID: MW-16

Date Collected: 10/15/16 13:21

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 08:21	SAB	TAL PEN
Instrument ID: CH_JOAN										

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Client Sample ID: TB

Date Collected: 10/15/16 00:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128860-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	328221	10/26/16 01:50	SAB	TAL PEN
Instrument ID: CH_JOAN										

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: Standard Oil Com #1

TestAmerica Job ID: 400-128860-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

SERIAL NUMBER: 80878

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING				ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD				TestAmerica Pensacola 3355 McLemore Drive Pensacola, FL 32514 Phone: 850-474-1001 Fax: 850-478-2671 Website: www.testamericainc.com				SERIAL NUMBER: 80878			
CLIENT EPCGP		ADDRESS		PROJECT NO.		CLIENT PROJECT MANAGER Clint Oberbroeckling		PROJECT LOC. (STATE) NM		REQUESTED ANALYSIS		QUOTE NO. BOTTLE ORDER NO. ORDER - LOG-IN NO.		PAGE 1 OF 1	
SAMPLED BY CWO		CONTRACT/PO NO. ARF# EPC-MWH-08-16-CWO-01		CLIENT E-MAIL OR FAX		PRESERVATIVE HCL - Hydrochloric Acid HNO3 - Nitric Acid H2SO4 - Sulfuric Acid or H3PO4 NaOH - Sodium Hydroxide CH3OH - Methanol NAHSO4 - Sodium Bisulfate NA2S2O3 - Sodium Thiosulfate Other:		MATRIX Drinking Water Aqueous GW, SW, WW Solid, Semisolid, Sediment Air Nonaqueous (Oil, Solvent, etc.)		POSSIBLE HAZARD IDENTIFICATION ☒ NON-HAZARD ☐ FLAMMABLE ☐ RADIOACTIVE ☐ POISON B ☐ UNKNOWN ☐ OTHER:		NO. OF COOLERS PER SHIPMENT:		SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT	
TAT REQUESTED: RUSH NEEDS LAB PRE-APPROVAL ☐ NORMAL 10 BUSINESS DAYS ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☒ OTHER: See Contract		SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☒ DISPOSAL BY LAB		☐ SEE CONTRACT ☐ OTHER:		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		LAB USE ONLY - SAMPLE NUMBER		NO. OF COOLERS PER SHIPMENT:		SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT	
DATE 10/15/16		TIME 1259		DATE 10/15/16		TIME 1303		DATE 10/15/16		TIME 1307		DATE 10/15/16		TIME 1312	
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Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-128860-1

Login Number: 128860

List Source: TestAmerica Pensacola

List Number: 1

Creator: Chambers, Cheryle A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	