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July 30, 2014

Mr. Mark Rudolph
Colorado Department of Public Health and Environment
Superfund, Brownfield's and Voluntary Cleanup
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

RE: TRANSMITTAL OF THE VOLUNTARY CLEANUP PLAN INTERIM REMEDIATION REPORT
13TH STREET PLAZA SITE
1770 13TH STREET – BOULDER, COLORADO

Dear Mr. Rudolph:

USA Environment, LP (USA) on behalf of the City of Boulder – Public Works, is transmitting one (1) original and 1 copy of the Voluntary Cleanup Plan Interim Remediation Report for the 13th Street Plaza Site located at 1770 13th Street, Boulder, Colorado (Site) to the Colorado Department of Public Health and Environment (CDPHE).

Should you have any questions or require additional information, please contact Craig Lugowski at 303.242.8050.

Sincerely,

Craig Lugowski
Project Manager – USA Environment, LP

On behalf of the City of Boulder – Public Works

Enclosures

cc: Betsy Temkin – Temkin Wielga & Hardt, LLP
File

VOLUNTARY CLEANUP PLAN
INTERIM REMEDIATION REPORT

13TH STREET PLAZA
1770 13TH STREET
BOULDER, COLORADO

Prepared for:

City of Boulder

Prepared by:

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

July 30, 2014

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ACRONYM LIST

bgs	Below ground surface
CDPHE	Colorado Department of Public Health and Environment
COC	Contaminants of concern
LTM	Long-term monitoring
NAPL	Non-aqueous phase liquid
PID	Photoionization detector
PAH	Polycyclic aromatic hydrocarbons
SVOC	Semi-volatile organic compounds
sf	Square feet
TOC	Top of casing
TPH	Total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VCUP	Voluntary Cleanup Program
VOC	Volatile organic compounds

1.0 INTRODUCTION

This Interim Remediation Report (Interim Report) has been prepared by USA Environment, L.P. (USA) on behalf of the City of Boulder – Public Works (city) to summarize remediation activities performed at the 13th Street Plaza located at 1770 13th Street in Boulder, Colorado (Site) from January into April 2014. The Site consists of an approximately 1.5 acre parcel which includes the Dushanbe Teahouse (Teahouse) and the 13th Street Plaza (Plaza) on the western half of the parcel, and a paved surface parking lot on the eastern half of the parcel as illustrated on **Figure 1**. Remediation activities at the Site were completed pursuant to the *Voluntary Cleanup* (*VCUP) Program Application* dated October 18, 2013 (USA 2013a) and approved by the Colorado Department of Public Health and Environment (CDPHE) on October 22, 2013.

This document summarizes remediation efforts completed to remove manufactured gas plant (MGP) impacted materials and certain in-place infrastructure associated with historic Site operations. Remediation activities were performed by Envirocon, Inc. and were overseen by USA and city project management personnel. The excavation, both horizontally and vertically, was continued until (i) field screening of soils no longer indicated the presence of contaminant of concern (COC) impacts, (ii) a property boundary or bedrock was encountered, or (iii) if advancing the excavation was otherwise deemed impracticable.

Details of historic operations and Site conditions were summarized in the *Summary of 2012 Subsurface Investigation Activities* dated April 8, 2013 (USA 2013b) and the *VCUP Program Application* dated October 18, 2013, and are not restated in this Report. The following section summarizes the remediation activities completed between January and April 2014.

2.0 REMEDIATION SUMMARY

Remediation activities were initiated on January 28, 2014 and continued through the completion of backfilling efforts on April 17, 2014. Remediation activities included: shallow and deep excavation, transportation and disposal of impacted soil, removal of hazardous non-aqueous phase liquids (NAPL), removal of impacted groundwater, and removal of MGP impacted infrastructure (including two Oil Tanks, the reservoir, the Relief Holder, and the Main Holder foundation and associated pipe containment). This historic MGP infrastructure is illustrated on **Figure 2**. Concrete, bricks, surface paving, and various pipes were also removed during excavation activities and disposed of as non-hazardous solid waste.

2.1 Shallow Excavation Program

Shallow excavation efforts were completed across most of the Site to remove MGP impacted soils and to facilitate evaluation of historic MGP infrastructure components. Shallow excavations, with depths ranging from 4 to 7 feet below ground surface (bgs), were initiated in the former Process Area near 13th Street and continued across the Site to the east around the former Main Holder. Further details of the shallow excavation

and associated significant observations are provided below. The limits of the excavation area are illustrated on **Figure 3**.

2.1.1 *Process Area*

Excavation depths in the Process Area ranged from 3 to 6 ft bgs as illustrated on **Figure 3**. Observations in the Process Area included:

- Soils with black staining were observed and typically associated with encountered concrete and pipes.
- During the excavation of the Process Area, steel process piping, concrete footers, a brick wall and other debris were encountered and removed.
- Portions of three large steel vessels/tanks, not identified on historical Site maps, were encountered during excavation of the Process Area. The steel vessels/tanks were removed and disposed of off-Site.
- The top surface of a concrete containment structure, likely the Reservoir identified on historical Site maps, was encountered at approximately 3.5 feet bgs.

Photographs 1 through 4 presented in **Appendix A** illustrate shallow excavation activities completed in the Process Area.

2.1.2 *Main Holder Foundation*

In the area of the former Main Holder foundation, shallow excavation depths ranged from 4 to 7 feet bgs. In addition, all soils encountered between the paved surface and the Main Holder concrete foundation, previously observed as being impacted with COCs, were removed as part of the shallow excavation in this area.

- One 6-inch diameter steel pipe was encountered near the southern end of the Main Holder. The pipe extended to the south-southeast approximately 16 feet from the concrete pipe chase sump at the Main Holder. The pipe was observed to be broken in a few locations, not connected at either end, and appeared to have been buried during demolition of the former MGP infrastructure.
- The approximately 63-foot diameter and 18-inch thick concrete foundation of the Main Holder was demolished in-place to allow for evaluation beneath the foundation and to allow for subsequent demolition of the sub-grade concrete pipe chase located beneath the southern end.

Photographs 5 through 11 presented in **Appendix A** illustrate shallow excavation activities completed in the area of the Main Holder foundation.

2.2 Deeper Excavation Program

In those areas where impacted soils, NAPL, and/or MGP infrastructure were observed at depths below 7 feet bgs, shallow excavations were deepened to facilitate excavation below the groundwater surface. These deeper excavations were advanced to a maximum depth of approximately 21 feet bgs dependent on encountered conditions at the specific location. Deeper excavations (> 7 feet) were necessary in the areas associated with the Oil Tanks, the Relief Holder, and the Main Holder. Further details of the deeper excavation activities are provided below while the limits of the excavation area are illustrated on **Figure 3**. In addition, to facilitate deeper excavation efforts, three monitoring well locations, MW-3, MW-8, and MW-9, were abandoned. Well abandonment reports for these well locations are presented in **Appendix B**.

2.2.1 *Process Area*

As discussed in the VCUP Application, a previous 1997 electro-magnetic survey identified a large subsurface anomaly proximate to the location of the historic Oil Tanks. The top surfaces of the two underground storage tanks (USTs) and the adjacent Reservoir were identified during shallow excavation in this area. The excavation in this area was then deepened to a maximum depth of approximately 14 feet bgs to facilitate evaluation of the infrastructure and subsurface conditions below. During the excavation activities completed near the Teahouse, the city contracted a structural engineer, Anthem, LLC, to provide guidance on excavation adjacent to the foundation to ensure structural integrity of the Teahouse.

- As mentioned in Section 2.1.1, the top surface of the Reservoir was encountered at approximately 3.5 feet bgs. The concrete structure was rectangular in shape and appeared to have served as a reservoir for MGP products during operations. The Reservoir structure was approximately 6 feet wide, 19 feet long, 4 feet deep, and open at the top. The Reservoir structure contained concrete, bricks and wood debris typically observed with black staining and an oily sheen, and heavily saturated/oily soils with strong petroleum odors were encountered. The approximately 9-inch thick concrete walls of the Reservoir were demolished in place, and upon removal significant black soil staining from usage of the Reservoir during MGP operation was observed below and towards the south of the former Reservoir structure. Soils beneath the Reservoir were excavated to 11 to 12 feet bgs to remove impacted soil and oily sheen observed below the concrete bottom. All soil and debris was transported for off-site disposal.
- The two riveted steel USTs encountered during excavation were 6 foot in diameter and approximately 25 feet in length with various holes observed in the steel. The USTs were located at approximately 2.5 feet bgs and were observed to have been filled with soils, bricks and other debris. Strong petroleum odors and staining were observed in the soils and debris contained within the USTs. In addition, once the USTs were removed, soils beneath the USTs were stained

and had a strong odor. The excavation associated with the USTs was advanced to approximately 13 to 14 feet bgs to remove soil apparently impacted by the USTs and their usage. The USTs, excavated soils and debris were subsequently removed and transported for off-site disposal.

- Additional impacted soils were observed in close proximity to the Teahouse foundation as well as under the outdoor patio area. Due to inaccessibility and concerns for structural integrity, impacted soils were left in-place in this area.

Photographs 12 through 25 presented in **Appendix A** illustrate excavation activities completed in the area of the Oil Tanks and Reservoir.

2.2.2 *Relief Holder*

As discussed in the VCUP Application, a previous 1997 electro-magnetic survey identified a large subsurface anomaly proximate to the location of the Relief Holder. Subsequent subsurface investigation activities completed in 2013 identified that the Relief Holder likely contained MGP impacted materials requiring removal. During shallow excavation in this area, the outer brick and mortar walls of the Relief Holder and other demolition related debris were discovered. The excavation in this area was deepened to a maximum depth of approximately 21 feet bgs to facilitate evaluation of the sub-grade infrastructure and to allow for removal of fluids and impacted material inside, as well as beneath, the foundation.

- The Relief Holder was observed to be constructed with a circular brick and mortar wall approximately 1-foot wide, 8.5-feet tall, 55-feet in diameter, and with an approximately 4-inches thick concrete floor. The alignment of the Relief Holder was observed to be further south than anticipated based on historical Site map. The southern arc of the Relief Holder wall, an approximately 35 to 40-foot section, was left in place as it is located underneath the handicap accessible ramp located on the north side of the Teahouse.
- MGP process-related piping, sheet metal debris, brick walls/footings, debris, impacted soil, NAPL, and perched water which required removal and disposal, were encountered during demolition and removal of the Relief Holder. Vacuum trucks were utilized on two occasions to remove and transport approximately 3,000 gallons of the NAPL/sludge mix encountered in the Relief Holder for subsequent off-site hazardous waste disposal. The demolition of the outer walls and floor were completed in phases to provide containment and to facilitate the removal of impacted soil and the NAPL from inside the Relief Holder. Once the concrete floor was removed, deeper excavation efforts continued to evaluate impacts beneath the slab as well as to facilitate removal of impacted soil located below the Relief Holder.
- Heavily impacted soils were observed at the Relief Holder inside of and below the floor, extending to approximately 21 feet bgs where competent bedrock was encountered and impacts terminated. Discontinuous NAPL was observed in

soils extending from below the concrete floor to approximately 17 feet bgs. Bedrock samples were collected, field screened, and submitted for laboratory analysis. Based upon the field observations and laboratory results, bedrock below the Relief Holder did not appear to have been impacted by the residual MGP materials. During the 2014 remediation efforts to remove impacted soils from the Site, bedrock was only encountered at the Relief Holder to facilitate evaluation and removal efforts.

- NAPL and impacted soils extended in an easterly direction from the Relief Holder location into the parking lot. Excavation activities were therefore advanced to the east to approximately 18 feet bgs coincident with impacts originating from the Relief Holder.
- Most demolition and impacted media excavation activities at the Relief Holder were completed inside the ventilated tent structure to capture and treat fugitive vapors with granulated carbon prior to discharge to the atmosphere.
- Additional impacted soils were observed both to the north and to the south of the former Relief Holder foundation wall that were not excavated because the soils were inaccessible. Specifically, due to the utility corridor located to the north and integrity concerns to the south associated with the Teahouse handicap ramp, impacted soils were left in-place at these locations. In addition, a section of the brick and mortar Relief Holder wall located along the southern end remained in place to maintain the integrity of the sidewalk and Teahouse handicap ramp.

Photographs 26 through 48 presented in **Appendix A** depict excavation activities completed in the area of the Relief Holder.

2.2.3 *Main Holder*

As mentioned in Section 2.1.2, the concrete foundation of the Main Holder was demolished and removed during shallow excavation activities to facilitate evaluation of potential deeper impacts associated with the sub-grade concrete pipe chase. The excavation in this area was deepened to a maximum depth of approximately 13 feet bgs to facilitate evaluation and to allow for dewatering and removal of impacted material observed beneath the concrete pipe chase.

- Approximately 500 gallons of fluids (NAPL-water mixture) were removed from the concrete pipe chase by a Clean Harbors vacuum truck. The characteristics of these fluids were consistent with those observed in December 2012.
- Remaining flow fill material and impacted soils were removed utilizing an excavator to facilitate demolition of the remaining concrete.
- During demolition of the concrete pipe chase structure, NAPL was observed across the surface of the concrete slab, as the NAPL had permeated the concrete over the life of the structure.

- Stained soils were observed around and beneath the bottom of the concrete pipe chase sump, requiring additional deeper excavation efforts. The excavation was advanced to approximately 13 feet bgs to remove the impacted soils observed. While the excavation was open in this area, small amounts of discontinuous LNAPL were observed on the groundwater surface.
- Two approximately 20 to 25 foot long sections of the 12-inch diameter process pipes were removed during the deeper excavation efforts. The pipes had been plugged at the end of the 2012 investigation program, as they were observed to terminate inside the concrete pipe chase and were unable to be removed at that time.

Photographs 49 through 58 presented in **Appendix A** illustrate excavation activities completed in the area of the Main Holder.

2.3 Overall Waste Removal and Disposal

During the 2014 remediation activities, the following amounts of wastes were generated, and subsequently disposed, during excavation and dewatering activities at the Site:

- A total of approximately 3,500 gallons of hazardous liquid waste was disposed of off-Site at the Clean Harbors Facility in Kimball, Nebraska.
- A total of 10,162 tons of non-hazardous solids (impacted soil and debris) were disposed of off-Site at Republic Services Foothills Landfill (Foothills).
- A total of 2,244 tons of non-hazardous solids (impacted soil and debris) were disposed of off-Site at Republic Services Tower Road Landfill (Tower).
- A total of 69,200 gallons of non-hazardous waters were disposed of to the city sanitary sewer.

Disposal manifests for disposed wastes are provided in **Appendix C** for non-hazardous and **Appendix D** for hazardous.

3.0 SAMPLING

The following sections provide details of samples collected and analyzed from various media during the remediation activities completed at the Site between January and April 2014. Samples were packed as designated by the analytical laboratory and shipped under chain-of-custody procedures to ESC Lab Sciences located in Mount Juliet, Tennessee.

3.1 Soil Samples

A total of 20 soil samples were collected across the Site during the VCUP excavation activities. Ten of the samples were of soil materials subsequently removed from the

Site, and ten of the samples were of soil materials that could not be removed because of inaccessibility or other limitations. Soil samples were analyzed for Volatile Organic Compounds (VOC) by United States Environmental Protection Agency (USEPA) method 8260 and for Semi-Volatile Organic Compounds (SVOC) SIM list by USEPA method 8270C. Soil laboratory data is summarized in **Tables 1 and 2**, with results compared to the applicable CDPHE Colorado Soil Evaluation Values (CSEV) Groundwater Protection Levels (CDPHE 2011).

- **Removed Soil Materials** – A total of 10 soil samples from material subsequently removed were collected and submitted for laboratory analysis during excavation activities as a means to guide planning of required off-site disposal efforts. Seven of the 10 removed soil samples had reported concentrations of COCs that exceed the applicable soil standards. Sample locations for removed soil are illustrated on **Figure 5** and laboratory results are summarized in **Tables 1 and 2**.
- **Soil Materials Left In-Place** – A total of 10 soil samples of materials left in-place were collected and submitted for laboratory analysis during excavation activities. Four of the 10 remaining in-place soil samples had reported concentrations of COCs that exceed the applicable soil standards. Of the four locations where exceedances were reported, naphthalene was the only COC reported above the applicable soil standards at three of those locations. Sample locations for remaining in-place soil are illustrated on **Figure 6** and laboratory results are summarized in **Tables 1 and 2**.

3.2 Groundwater Samples

One (1) groundwater grab sample was collected during the excavation activities near the Oil Tanks/Reservoir to evaluate conditions observed beneath these removed infrastructure components. The sample, identified as COB_GW1_022514, had reported concentrations of COCs that exceed applicable groundwater standards. Additional aqueous samples collected during the excavation were only collected as part of discharge monitoring requirements for the dewatering efforts and are not representative of Site groundwater conditions. Laboratory results for this sample are summarized on **Tables 4 and 5**.

3.3 NAPL Samples

One (1) NAPL grab sample was collected during the excavation activities to generate a waste profile for disposal of liquids encountered in the Relief Holder. Results for the sample COB_RHFluid2_021414, classified the NAPL encountered in the Relief Holder as a characteristically hazardous waste due to ignitability when the sample flashed below 140° Fahrenheit, at 110° Fahrenheit. The sample had reported concentrations of COCs that exceed groundwater standards used for comparison of COC concentrations of sampled NAPL fluids, as NAPL-specific standards are unavailable. Laboratory results for the NAPL sample are summarized on **Tables 6, 7, and 8**. The NAPL at the Relief Holder was ultimately removed and disposed of as discussed in Section 2.3.

3.4 Perched Liquid Samples

Three (3) perched liquid grab samples were collected during the excavation activities for evaluation and waste profiling purposes. The perched liquid samples were collected from biphasic liquids encountered in the Reservoir and Relief Holder that were observed as perched above the groundwater table. The samples COB_FluidSample_013114, and COB-RH-Fluid_021314 had reported concentrations of COCs that exceed groundwater standards used for comparison of COC concentrations of sampled fluids. Sample COB_RH-Fluid_021214 was analyzed only for waste characteristics, including reactivity, corrosivity, and flashpoint. Laboratory results for these samples, COB_FluidSample_013114, COB-RH-Fluid_021214, and COB-RH-Fluid_021314 are summarized on **Tables 6, 7, and 8**. The perched liquid at these locations was ultimately removed and disposed as discussed in Section 2.3.

4.0 NEXT STEPS

The following sections provide details on the activities performed since the completion of excavation activities in April 2014, including the preliminary evaluation of potentially applicable approaches to further groundwater-related remediation activities at the Site.

4.1 Bench-Scale Evaluation

During April 2014, USA performed bench-scale testing to evaluate the effectiveness of hydrogen peroxide as a chemical oxidant to treat residual MGP impacts in Site soils. Impacted soil samples collected from the Relief Holder area were homogenized and treated with both 2-percent (%) or 5% hydrogen peroxide solutions. Soil samples were treated with up to two doses of the hydrogen peroxide solutions to evaluate the effectiveness of the oxidant on Site COCs, most notably the primary COC, naphthalene, when compared to the baseline analysis of the untreated sample. Untreated baseline and treated samples were submitted to ESC Lab Sciences for analysis of VOCs by USEPA method 8260 and for SVOCs SIM list by USEPA method 8270C to evaluate bench-scale treatment effectiveness.

Results of the bench-scale testing suggest that hydrogen peroxide at low concentrations is an effective oxidant for both VOC and SVOC compounds. Although some increases were observed between the first and second doses for individual analytes, other individual analytes showed 4% to 84% reductions in concentrations. Overall, total VOC and SVOC compounds were reduced by 30% or more with the treatment of hydrogen peroxide when compared to the baseline sampling results. The following tables (Tables A and B) present concentration data for benzene and naphthalene as well as reduction percentages of the 2% and 5% hydrogen peroxide solution treatment.

Table A – 2% Hydrogen Peroxide Treatment Results

COC	Baseline Concentration (mg/kg)	Concentration post-2% Soln. Dose 1 (mg/kg)	Reduction (%)	Concentration post-2% Soln. Dose 2 (mg/kg)	Reduction (%)
Benzene	1.2	0.77	35.8	ND	NA
Naphthalene	150	86	42.7	24	84

Table B – 5% Hydrogen Peroxide Treatment Results

COC	Baseline Concentration (mg/kg)	Concentration post-5% Soln. Dose 1 (mg/kg)	Reduction (%)	Concentration post-5% Soln. Dose 2 (mg/kg)	Reduction (%)
Benzene	1.2	0.78	35	ND	NA
Naphthalene	150	37	75.3	100	33.3

NOTES: ND = Not Detected, NA = Not Applicable

4.2 Additional VCUP Activities

Additional remediation to address impacted media left in-place related to the approved VCUP Program Application is likely appropriate as discussed in Section 4.2.1.

4.2.1 *In-Place Elements*

Given the extent of contamination at the Relief Holder and Main Holder, a decision was made to install piping to support potential reagent delivery to the residual impacted zone near the groundwater interface. This piping consists of two horizontally screened pipes installed within the perimeter of the former Relief Holder and one horizontally screened well designed for potential future groundwater extraction near the southern end of the former Main Holder. Locations of the horizontally screened pipes and well are illustrated on **Figure 7.**

Each of these in-place elements was constructed with Schedule 40 polyvinyl chloride (PVC) piping, machine slotted PVC screen piping, and backfilled with a gravel around the screened piping sections prior to standard backfilling. Further construction details for the horizontal trench and screened pipes known as Trench-1 and Trench-2 are illustrated on **Figure 8**, and construction details of the horizontal extraction well EW-1 is illustrated on **Figure 9**. Photographs 59 through 64 presented in **Appendix A** illustrate the installation activities associated with the horizontal pipes and well.

4.2.2 *Proposed Performance Monitoring Wells*

As mentioned previously, three (3) monitoring wells were abandoned to facilitate excavation efforts in the vicinity of each of the key MGP infrastructure features – the Process Area, the Main Holder, and the Relief Holder. Installation of two (2) replacement monitoring wells in close proximity to former monitoring well locations MW-

3 and MW-8 is proposed to replace these wells. In addition, two (2) monitoring wells will be installed in close proximity to the former Relief Holder and the horizontally screened pipes for performance monitoring to be conducted during proposed pilot testing activities as discussed in Section 4.2.3. These wells are proposed to be installed in advance of the field pilot study event. Approximate locations of the proposed replacement and performance monitoring wells are illustrated on **Figure 7**.

4.2.3 *Field Pilot Study*

A field pilot study is recommended to evaluate the field-scale effectiveness of *in situ* chemical oxidant injections in reducing SVOC/VOC concentrations using the previously installed horizontal pipes. To evaluate overall effectiveness, the pilot study will look at the following metrics: whether gravity feed or pressurized injections will be required through the trenches; injection flow rates and volumes; injection pressures; radius of influence; and reaction based stoichiometric relationships between the selected oxidant and remaining MGP materials in the subsurface environment, as it currently exists. It is planned that prior to finalizing the field pilot study, a confirmatory bench scale study will be performed to validate the field approach presently planned.

At present, the field pilot study will utilize Trench-1 for the injection testing, where a 5% solution of hydrogen peroxide will be injected into the trench piping. Approximately 2,000 gallons of the injectate is projected to be introduced through this trench while pressure, temperature, and dissolved oxygen concentration will be evaluated at the nearby performance groundwater monitoring well locations located both upgradient and downgradient of Trench-1 (**Figure 7**). The injection activities are anticipated to require approximately one day to complete, with field parameters collected throughout the injection process as well as for up to four days after injection. In addition to evaluation of field effectiveness, the collection of field parameters will assist in the determination whether any adverse conditions could result from the introduction of the hydrogen peroxide to the subsurface environment.

Approval from the USEPA Underground Injection Control (UIC) Program will be required as a prerequisite to performing the pilot study via permit by rule (Rule) authorization or a UIC permit. Once the application for Rule authorization is approved, the pilot study will be initiated expeditiously.

4.3 Groundwater Monitoring

Following installation of the new monitoring wells, an initial post-installation groundwater sampling event will be completed prior to the pilot study injection activities. These

efforts will provide an understanding of the baseline groundwater conditions prior to treatment and will be followed by post-treatment monitoring as necessary to gauge the effectiveness of the treatment efforts performed.

5.0 REFERENCE LIST

CDPHE 2011. Colorado Department of Public Health and Environment, Hazardous Waste Materials and Waste Management Division. *Table 1. CDPHE Colorado Soil Evaluation Values (CSEV Table)*, July, 2011.

CDPHE 2013. Colorado Department of Public Health and Environment, Water Quality Control Commission. *Regulation 41, The Basic Standards for Ground Water.* January, 2013.

USA 2013a. USA Environment, L.P. *Voluntary Cleanup Program Application*, October 18, 2013.

USA 2013b. USA Environment, L.P. *Summary of 2012 Subsurface Investigation Activities,* April 8, 2013.

TABLES

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations												
		MW-1[4]	MW-2[4]	MW-3[4]	MW-4[4]	MW-5[4]	MW-5[4]	MW-6[4]	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7	4.75	6.5	8.5	7	6	1.25
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010	9/28/2010	9/28/2010	9/29/2010	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012
Benzene	0.17	ND(<0.052)	ND(<0.055)	ND(<0.052)	ND(<0.057)	ND(<0.058)	ND(<0.055)	ND(<0.053)	ND (<0.005)	ND(<0.002)	ND(<0.002)	ND(<0.002)	ND(<0.002)	0.18
Bromobenzene	3	NA	NA		NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromochloromethane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromodichloromethane	0.007	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromoform	0.048	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromomethane	0.16	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
n-Butylbenzene	240	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
sec-Butylbenzene	230	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	1.3	0.36	ND(<0.005)	ND(<0.005)	ND(<0.005)
tert-Butylbenzene	230	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Carbon tetrachloride	0.92	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chlorobenzene	5.3	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloroethane	520	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloroform	0.085	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloromethane	20	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Chlorodibromomethane	0.11	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
2-Chlorotoluene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
4-Chlorotoluene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dibromo-3-chloropropane	0.002	NA	NA	NA	NA	NA	NA	NA	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
1,2-Dibromoethane (EDB)	0.00018	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Dibromomethane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichlorobenzene	57	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,3-Dichlorobenzene	8.5	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,4-Dichlorobenzene	7.8	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Dichlorodifluoromethane	390	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1-Dichloroethane	1.8	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1-Dichloroethene	12	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
cis-1,2-Dichloroethene	1.3	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
trans-1,2-Dichloroethene	5.4	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichloropropane	0.0087	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,3-Dichloropropane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
2,2-Dichloropropane		NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,1-Dichloropropene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
cis-1,3-Dichloropropene		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
trans-1,3-Dichloropropene		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Ethylbenzene	100	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	0.507	0.0542[3]	ND(<0.110)	0.277	5.0	3.0	ND(<0.005)	ND(<0.005)	0.18
Hexachlorobutadiene	0.17	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tert-amyl methyl ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tert-butyl alcohol		NA	NA	NA	NA	NA	NA	NA	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Ethyl tert-butyl ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Isopropylbenzene		NA	NA	NA	NA	NA	NA	NA	0.127	2.0	0.74	ND(<0.005)	ND(<0.005)	0.052
Di-Isopropyl Ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
p-Isopropyltoluene		NA	NA	NA	NA	NA	NA	NA	0.088	2.1	0.41	ND(<0.01)	ND(<0.01)	0.25
Methylene Chloride	0.06	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Methyl tert-butyl ether		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Naphthalene	23	NA	NA	NA	NA	NA	NA	NA	NA	210	130	ND(<0.01)	360	960
n-Propylbenzene	77	NA	NA	NA	NA	NA	NA	NA	0.0571	2.2	0.82	ND(<0.005)	ND(<0.005)	ND(<0.005)
Styrene	14	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	2.2	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.520)	ND(<0.550)	ND(<0.520)	ND(<0.570)	ND(<0.580)	ND(<0.550)	ND(<0.530)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,1,2-Tetrachloroethane	0.16	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tetrachloroethene	1.9	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Toluene	50	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	ND(<0.120)	ND(<0.110)	ND(<0.110)	ND(<0.005)	ND(<0.005)	0.02	ND(<0.005)	ND(<0.005)	0.24
1,2,3-Trichlorobenzene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2,4-Trichlorobenzene	13	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,2-Trichloroethane	0.038	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,1-Trichloroethane	62	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Trichloroethene	0.68	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Trichlorofluoromethane	1,000	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2,3-Trichloropropane	27	NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,3,5-Trimethylbenzene	23	NA	NA	NA	NA	NA	NA	NA	0.105	2.0	0.84	ND(<0.005)	ND(<0.005)	0.06
1,2,4-Trimethylbenzene	71	NA	NA	NA	NA	NA	NA	NA	0.338	10.0	6.2	ND(<0.005)	ND(<0.005)	12.0
Vinyl chloride	0.11	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
m,p-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	0.105	1.8	1.7	ND(<0.01)	ND(<0.01)	18.0
o-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	0.225	5.2	3.2	ND(<0.005)	6.8	13.0
Xylene (total)	75	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	2.48	0.245	ND(<0.110)	NA	NA	NA	NA	NA	NA
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	1800	1400	ND(<0.5)	ND(<0.5)	3,500

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations												
		MW-1	MW-2	MW-3	MW-4	MW-5	MW-5	MW-6	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7	4.75	6.5	8.5	7	6	1.25
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010				11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	4900	NA	460	11,000

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations													
		MW-7	MW-8	B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11
Sample Depth (feet bgs)		10 to 11	9 to 10	9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0	6.5	7.5	9.5	9.0
Sample Date:		11/29/2012	11/29/2012	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013	3/28/2013	3/28/2013	4/8/2013	4/8/2013
Benzene	0.17	ND(<0.002)	0.051	ND (<0.005)	ND (<0.005)	0.0564	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.0645	ND (<0.005)
Bromobenzene	3	ND(<0.005)	ND(<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)
Bromochloromethane		ND(<0.005)	ND(<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)
Bromodichloromethane	0.007	ND(<0.005)	ND(<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)
Bromoform	0.048	ND(<0.005)	ND(<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)
Bromomethane	0.16	ND(<0.01)	ND(<0.01)	ND (<0.01)	ND (<0.01)	0.285	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	0.105	ND (<0.01)
n-Butylbenzene	240	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.368	ND(<0.005)
sec-Butylbenzene	230	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.0522	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.108	ND(<0.005)	1.42	ND(<0.005)
tert-Butylbenzene	230	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	1.01	ND(<0.005)
Carbon tetrachloride	0.92	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Chlorobenzene	5.3	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Chloroethane	520	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Chloroform	0.085	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Chloromethane	20	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)
Chlorodibromomethane	0.11	ND(<0.01)	ND(<0.01)	ND (<0.01)	ND (<0.01)	ND(<0.1)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)
2-Chlorotoluene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
4-Chlorotoluene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2-Dibromo-3-chloropropane	0.002	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)
1,2-Dibromoethane (EDB)	0.00018	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Dibromomethane		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2-Dichlorobenzene	57	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,3-Dichlorobenzene	8.5	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,4-Dichlorobenzene	7.8	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Dichlorodifluoromethane	390	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,1-Dichloroethane	1.8	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,1-Dichloroethene	12	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
cis-1,2-Dichloroethene	1.3	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
trans-1,2-Dichloroethene	5.4	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2-Dichloropropane	0.0087	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,3-Dichloropropane		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
2,2-Dichloropropane		ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)
1,1-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
cis-1,3-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
trans-1,3-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Ethylbenzene	100	ND(<0.005)	0.23	0.0117	ND(<0.005)	2.3	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.328	ND(<0.005)	0.194	ND(<0.005)
Hexachlorobutadiene	0.17	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Tert-amyl methyl ether		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Tert-butyl alcohol		ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	0.766	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.2)	ND(<0.02)
Ethyl tert-butyl ether		ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)
Isopropylbenzene		ND(<0.005)	0.14	ND(<0.005)	ND(<0.005)	0.957	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.155	ND(<0.005)	0.84	ND(<0.005)
Di-Isopropyl Ether		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
p-Isopropyltoluene		ND(<0.01)	0.24	ND(<0.01)	ND(<0.01)	0.822	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	0.147	ND(<0.01)	ND(<0.1)	ND(<0.01)
Methylene Chloride	0.06	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.150)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)
Methyl tert-butyl ether		ND(<0.015)	ND(<0.015)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Naphthalene	23	ND<0.01	210	1.71	0.256	120	ND(<0.010)	0.0425	0.310	NA	NA	NA	NA	2.05	ND(<0.01)
n-Propylbenzene	77	ND(<0.005)	0.06	ND(<0.005)	ND(<0.005)	0.515	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.197	ND(<0.005)	ND(<0.05)	ND(<0.005)
Styrene	14	ND(<0.01)	ND(<0.01)	ND(<0.010)	ND(<0.010)	ND(<0.100)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,1,1,2-Tetrachloroethane	0.16	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Tetrachloroethene	1.9	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Toluene	50	ND(<0.005)	0.033	ND(<0.005)	ND(<0.005)	0.0585	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2,3-Trichlorobenzene		ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2,4-Trichlorobenzene	13	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,1,2-Trichloroethane	0.038	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,1,1-Trichloroethane	62	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Trichloroethene	0.68	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
Trichlorofluoromethane	1,000	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
1,2,3-Trichloropropane	27	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)
1,3,5-Trimethylbenzene	23	ND(<0.005)	0.17	ND(<0.005)	ND(<0.005)	1.09	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.149	ND(<0.005)	0.936	ND(<0.005)
1,2,4-Trimethylbenzene	71	ND(<0.005)	0.74	0.0124	ND(<0.005)	2.09	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	3.51	ND(<0.005)	3.97	ND(<0.005)
Vinyl chloride	0.11	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)
m,p-Xylene	75[2]	ND(<0.01)	0.26	ND(<0.010)	ND(<0.010)	0.929	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	0.625	ND(<0.01)	0.169	ND(<0.01)
o-Xylene	75[2]	ND(<0.005)	0.42	0.00774	ND(<0.005)	0.920	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.416	ND(<0.005)	ND(<0.05)	ND(<0.005)
Xylene (total)	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO		ND(<0.5)	260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations													
		MW-7	MW-8	B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11
Sample Depth (feet bgs)		10 to 11	9 to 10	9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0	6.5	7.5	9.5	9.0
Sample Date:		11/29/2012	11/29/2012	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013	3/28/2013	3/28/2013	4/8/2013	4/8/2013
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations													
		RH-EX-1	RH-EX-2	RH-EX-3	MW-9	MW-10	COB_TANK2_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_020514	COB_SS8_020514	COB_SS9_0205014
Sample Depth (feet bgs)		4.75	8	8.5-9	9.5	8	4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0	3.5	5.5
Sample Date:		3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013	1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014	2/5/2014	2/13/2014
Benzene	0.17	ND (<0.005)	ND(<0.5)	ND(<0.5)	0.118	ND (<0.005)	0.22	1.5[3]	0.34	0.054	95	ND(<0.25)	ND(<0.050)	ND(<0.005)	0.57[3]
Bromobenzene	3	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.005)	ND (<2.0)
Bromochloromethane		ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.007	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Bromoform	0.048	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Bromomethane	0.16	ND (<0.01)	ND(<1.0)	ND(<1.0)	0.166	ND (<0.01)	ND (<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
n-Butylbenzene	240	ND(<0.005)	ND(<0.5)	ND(<0.5)	2.53	ND(<0.005)	0.030	2.3[3]	0.30	0.010[3]	2.4	ND(<0.25)	0.86	ND(<0.005)	ND (<2.0)
sec-Butylbenzene	230	ND(<0.005)	ND(<0.5)	ND(<0.5)	1.72	ND(<0.005)	0.0098	2.0[3]	0.24[3]	0.034	0.79[3]	ND(<0.25)	1.3	ND(<0.005)	ND (<2.0)
tert-Butylbenzene	230	ND(<0.005)	ND(<0.5)	ND(<0.5)	2.05	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	0.085	ND(<0.005)	ND (<2.0)
Carbon tetrachloride	0.92	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Chlorobenzene	5.3	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Chloroethane	520	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
Chloroform	0.085	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
Chloromethane	20	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)	ND(<0.013)	ND(<13.0)	ND(<0.63)	ND(<0.063)	ND(<5.0)	ND(<0.63)	ND(<0.13)	ND(<0.013)	ND (<5.0)
Chlorodibromomethane	0.11	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
2-Chlorotoluene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
4-Chlorotoluene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,2-Dibromo-3-chloropropane	0.002	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
1,2-Dibromoethane (EDB)	0.00018	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Dibromomethane		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,2-Dichlorobenzene	57	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,3-Dichlorobenzene	8.5	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,4-Dichlorobenzene	7.8	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Dichlorodifluoromethane	390	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
1,1-Dichloroethane	1.8	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1-Dichloroethene	12	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.5)	ND(<0.005)	ND (<2.0)
cis-1,2-Dichloroethene	1.3	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.5)	ND(<0.005)	ND (<2.0)
trans-1,2-Dichloroethene	5.4	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,2-Dichloropropane	0.0087	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	0.0056	ND (<2.0)
1,3-Dichloropropane		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
2,2-Dichloropropane		ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1-Dichloropropene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
cis-1,3-Dichloropropene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
trans-1,3-Dichloropropene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Ethylbenzene	100	ND(<0.005)	11.3	0.855	4.44	ND(<0.005)	0.13	22.0	2.2	0.13	230	ND(<0.25)	0.51	ND(<0.005)	5.4
Hexachlorobutadiene	0.17	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Tert-amyl methyl ether		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-butyl alcohol		ND(<0.02)	ND(<2.0)	ND(<2.0)	ND(<0.2)	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether		ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		ND(<0.005)	1.77	1.51	2.25	ND(<0.005)	0.055	5.7	0.49	0.024[3]	ND(<2.0)	ND(<0.25)	1.2	ND(<0.005)	0.97[3]
Di-Isopropyl Ether		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
p-Isopropyltoluene		ND(<0.01)	1.30	4.46	ND(<0.1)	ND(<0.01)	0.082	3.0[3]	0.34	0.037	6.8	ND(<0.25)	1.4	ND(<0.005)	1.4[3]
Methylene Chloride	0.06	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<2.0)
Methyl tert-butyl ether		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Naphthalene	23	NA	NA	NA	27.2	ND(<0.01)	120	380	37	0.76	4,800	0.99[3]	2.4	ND(<0.025)	180
n-Propylbenzene	77	ND(<0.005)	1.12	ND(<0.5)	ND(<0.05)	ND(<0.005)	0.033	5.3	0.55	0.015[3]	12	ND(<0.25)	2.0	ND(<0.005)	ND (<2.0)
Styrene	14	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)	0.11	ND(<5.0)	ND(<0.25)	0.015[3]	11	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1,1,2-Tetrachloroethane	0.16	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Tetrachloroethene	1.9	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Toluene	50	ND(<0.005)	1.06	1.06	0.0969	ND(<0.005)	0.30	3.0[3]	0.34[3]	0.066[3]	240	ND(<1.3)	ND(<2.5)	ND(<0.025)	1.7[3]
1,2,3-Trichlorobenzene		ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,2,4-Trichlorobenzene	13	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1,2-Trichloroethane	0.038	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
1,1,1-Trichloroethane	62	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
Trichloroethene	0.68	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	0.27[3]	ND(<0.005)	ND (<2.0)
Trichlorofluoromethane	1,000	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)
1,2,3-Trichloropropane	27	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)	ND(<0.013.)	ND(<13.0)	ND(<0.63)	ND(<0.063)	ND(<5.0)	ND(<0.63)	ND(<0.13)	ND(<0.013)	ND (<2.0)
1,3,5-Trimethylbenzene	23	ND(<0.005)	1.56	1.46	9.36	ND(<0.005)	0.24	18.0	1.9	0.047	43	ND(<0.25)	4.3	ND(<0.005)	2.4
1,2,4-Trimethylbenzene	71	ND(<0.005)	6.88	18.2	20.0	ND(<0.005)	0.46	42.0	5.2	0.11	110	0.085[3]	11	ND(<0.005)	6.3
Vinyl chloride	0.11	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.05)	ND(<0.005)	ND (<2.0)
m,p-Xylene	75[2]	ND(<0.01)	6.64	9.86	16.0	ND(<0.01)	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	75[2]	ND(<0.005)	5.6	10.2	0.917	ND(<0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	75	NA	NA	NA	NA	NA	0.56	77	7.2	0.10	320	ND(<0.75)	2.0	ND(<0.015)	6.1
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations													
		RH-EX-1	RH-EX-2	RH-EX-3	MW9	MW-10	COB_TANK_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_020514	COB_SS8_020514	COB_SS9_0205015
Sample Depth (feet bgs)		4.75	8	8.5-9	9.5	8	4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0	3.5	5.5
Sample Date:		3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013	1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014	2/5/2014	2/13/2014
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations										
		COB_SS10_021814	COB_SS11_022214	COB_SS12_022514	COB_SS13_031114	COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614	COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_SS19_040914
Sample Depth (feet bgs)		**8.0**	**9.0**	**9.0**	**9.0**	**21.0**	**10.5**	**5.5**	**11.0**	**11.0**	**10.0**	**9-9.5**
Sample Date:		**2/18/2014**	**2/22/2014**	**2/25/2014**	**3/11/2014**	**3/20/2014**	**3/21/2014**	**3/26/2014**	**3/26/2014**	**3/26/2014**	**3/31/2014**	**4/9/2014**
Benzene	0.17	42	0.14[3]	ND (<0.25)	4.0	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Bromobenzene	3	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Bromochloromethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.007	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Bromoform	0.048	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Bromomethane	0.16	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
n-Butylbenzene	240	2.3	0.82	0.27	0.55	ND (<0.025)	0.65[3]	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
sec-Butylbenzene	230	0.56	0.65	0.41	0.13[3]	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
tert-Butylbenzene	230	ND (<0.5)	0.076[3]	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Carbon tetrachloride	0.92	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Chlorobenzene	5.3	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Chloroethane	520	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
Chloroform	0.085	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
Chloromethane	20	ND (<1.3)	ND (<0.63)	ND (<0.63)	ND (<0.63)	ND (<0.063)	ND (<6.3)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<13)	ND (<0.013)
Chlorodibromomethane	0.11	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
2-Chlorotoluene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
4-Chlorotoluene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,2-Dibromo-3-chloropropane	0.002	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
1,2-Dibromoethane (EDB)	0.00018	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Dibromomethane		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,2-Dichlorobenzene	57	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,3-Dichlorobenzene	8.5	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,4-Dichlorobenzene	7.8	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Dichlorodifluoromethane	390	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
1,1-Dichloroethane	1.8	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,1-Dichloroethene	12	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
cis-1,2-Dichloroethene	1.3	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
trans-1,2-Dichloroethene	5.4	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,2-Dichloropropane	0.0087	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,3-Dichloropropane		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
2,2-Dichloropropane		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,1-Dichloropropene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
cis-1,3-Dichloropropene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
trans-1,3-Dichloropropene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Ethylbenzene	100	160	4.6	1.2	22	0.021[3]	13	ND (<0.005)	ND (<0.005)	ND (<0.005)	57	ND (<0.005)
Hexachlorobutadiene	0.17	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Tert-amyl methyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-butyl alcohol		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		14	1.4	0.62	3.1	ND (<0.025)	3.2	ND (<0.005)	ND (<0.005)	ND (<0.005)	5.3	ND (<0.005)
Di-Isopropyl Ether		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
p-Isopropyltoluene		6.0	1.2	0.53	1.5	ND (<0.025)	1.8[3]	ND (<0.005)	ND (<0.005)	ND (<0.005)	5.2	ND (<0.005)
Methylene Chloride	0.06	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
Methyl tert-butyl ether		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	0.97[3]	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Naphthalene	23	2,800	440	22	1,200	37	420	ND (<0.025)	ND (<0.025)	ND (<0.025)	6,300	0.0061[3]
n-Propylbenzene	77	5.8	1.1	0.61	1.4	0.006[3]	1.5[3]	ND (<0.005)	ND (<0.005)	ND (<0.005)	1.7[3]	ND (<0.005)
Styrene	14	12	0.065[3]	ND (<0.25)	2.4	0.012[3]	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	1.7[3]	ND (<0.005)
1,1,2,2-Tetrachloroethane	0.0024	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,1,1,2-Tetrachloroethane	0.16	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Tetrachloroethene	1.9	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Toluene	50	98	0.68[3]	0.21[3]	16	ND (<0.13)	2.0[3]	ND (<0.025)	ND (<0.025)	ND (<0.025)	9.3[3]	ND (<0.025)
1,2,3-Trichlorobenzene		ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,2,4-Trichlorobenzene	13	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,1,2-Trichloroethane	0.038	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
1,1,1-Trichloroethane	62	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Trichloroethene	0.68	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
Trichlorofluoromethane	1,000	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)
1,2,3-Trichloropropane	27	ND (<1.3)	ND (<0.63)	ND (<0.63)	ND (<0.63)	ND (<0.063)	ND (<6.3)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<13)	ND (<0.013)
1,3,5-Trimethylbenzene	23	24	8.3	3.1	7.2	0.027	6.2	ND (<0.005)	ND (<0.005)	ND (<0.005)	36	ND (<0.005)
1,2,4-Trimethylbenzene	71	68	18	5.7	19	0.073	17	ND (<0.005)	ND (<0.005)	ND (<0.005)	68	ND (<0.005)
Vinyl chloride	0.11	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<0.005)
m,p-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	75	140	24	3.6	32	0.048[3]	20	ND (<0.015)	ND (<0.015)	ND (<0.015)	140	ND (<0.015)
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations										
		COB_SS10_021814	COB_SS11_022214	COB_SS12_022514	COB_SS13_031114	COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614	COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_S19_040914
Sample Depth (feet bgs)		**8.0**	**9.0**	**9.0**	**9.0**	**21.0**	**10.5**	**5.5**	**11.0**	**11.0**	**10.0**	**9-9.5**
Sample Date:		**2/18/2014**	**2/22/2014**	**2/25/2014**	**3/11/2014**	**3/20/2014**	**3/21/2014**	**3/26/2014**	**3/26/2014**	**3/26/2014**	**3/31/2014**	**4/9/2014**
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.
2 - CDHPE CSEV Groundwater Protection Level for xylenes is reported for total xylenes
3 - Detected but below the reporting limit; therefore, result is an estimated concentration.
4 - Soil samples collected by others.

Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.
Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels

ND = Not detected at or above the reporting limit.

NA = Not analyzed.
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.
J = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations						
		MW-1[5]	MW-2[5]	MW-3[5]	MW-4[5]	MW-5[5]	MW-5[5]	MW-6[5]
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010	9/28/2010	9/28/2010	9/29/2010
Acenaphthene	1,000	ND<(0.037)	ND<(0.038)	ND<(0.075)	ND<(0.039)	43.7	8.85	ND<(0.038)
Acenaphthylene		ND<(0.037)	ND<(0.038)	0.105	ND<(0.039)	1.37	ND<(0.77)	ND<(0.038)
Anthracene	1,000	ND<(0.037)	ND<(0.038)	ND<(0.075)	ND<(0.039)	15.7	3.63	ND<(0.038)
Benzo (a) anthracene	1,000	ND<(0.037)	0.0422	0.751	ND<(0.039)	10.5	3.1	ND<(0.038)
Benzo (b) fluoranthene	1,000	ND<(0.041)	ND<(0.042)	0.66	ND<(0.043)	3.73	1.23	ND<(0.041)
Benzo (k) fluoranthene	1,000	ND<(0.047)	ND<(0.049)	0.729	ND<(0.050)	4.54	1.67	ND<(0.048)
Benzo (g,h,i) perylene	P	ND<(0.037)	ND<(0.038)	0.95	ND<(0.039)	2.66	1.01	ND<(0.038)
Benzo (a) pyrene	1,000	ND<(0.037)	0.0385	0.924	ND<(0.039)	7.56	2.19	ND<(0.038)
Chrysene	1,000	ND<(0.047)	ND<(0.049)	0.821	ND<(0.050)	8.57	2.73	ND<(0.048)
Dibenz (a,h) anthracene	1,000	ND<(0.041)	ND<(0.042)	0.179	ND<(0.043)	ND<(0.86)	ND<(0.84)	ND<(0.041)
Fluoranthene	1,000	ND<(0.071)	0.0463[3]	0.647	ND<(0.075)	21.5	5.95	ND<(0.072)
Fluorene	1,000	ND<(0.041)	ND<(0.042)	ND<(0.082)	ND<(0.043)	20.7	4.86	ND<(0.041)
Indeno (1,2,3-cd) pyrene	1,000	ND<(0.037)	ND<(0.038)	0.796	ND<(0.039)	2.73	1.07	ND<(0.038)
Naphthalene	23	ND<(0.071)	ND<(0.073)	ND<(0.14)	ND<(0.075)	91.8	10.8	0.0365[3]
Phenanthrene		ND<(0.071)	ND<(0.073)	0.281	ND<(0.075)	58.3	14.3	ND<(0.072)
Pyrene	1,000	ND<(0.041)	0.108	2.09	ND<(0.043)	39.9	9.68	0.0381[3]

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations							
		EX-1[2][4]	EX-2[2]	EX-3[2]	EX-4	EX-5	EX-6	MW-7	MW-8[2]
Sample Depth (feet bgs)		4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Date:		11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
Acenaphthene	1,000	0.79[3]	51.0	26.0	0.1[3]	ND (<3.3)	140	ND (<0.33)	130
Acenaphthylene		1.7	2.4[3]	1.4[3]	0.021[3]	5.3	440	ND (<0.33)	49
Anthracene	1,000	0.97[3]	20.0	9.6	0.18[3]	ND (<3.3)	190	0.0077[3]	68
Benzo (a) anthracene	1,000	0.8[3]	9.3	5.4	0.014[3]	12.0	180	0.0087[4]	49
Benzo (b) fluoranthene	1,000	0.23[3]	3.8	2.8[4]	ND (<0.33)	12.0	68.0	ND (<0.33)	77
Benzo (k) fluoranthene	1,000	0.34[3]	6.4	3.8	ND (<0.33)	13.0	110	ND (<0.33)	75
Benzo (g,h,i) perylene		0.11[3]	1.6[3]	0.77[3]	ND (<0.33)	4.2	ND (<33.0)	ND (<0.33)	9.1[3]
Benzo (a) pyrene	1,000	0.44[3]	8.7	4.8	ND (<0.33)	15.0	150	ND (<0.33)	53
Chrysene	1,000	0.86[3]	8.8	4.8	0.014[3]	13.0	180	0.009[3]	45
Dibenz (a,h) anthracene	1,000	ND (<1.3)	0.27[3]	0.57[3]	ND (<0.33)	ND (<0.33)	ND (<33.0)	ND (<0.33)	1.0[3]
Fluoranthene	1,000	0.87[3]	25.0	13.0	0.17[3]	9.8	260	0.016[3]	90
Fluorene	1,000	2.1	25.0	15.0	0.12[3]	ND (<3.3)	440	ND (<0.33)	110
Indeno (1,2,3-cd) pyrene	1,000	0.055[3]	2.1[3]	1.0[3]	ND (<0.33)	5.9	ND (<33.0)	ND (<0.33)	10[3]
Naphthalene	23	24.0	140	67.0	0.021[3]	8.8	1,400	ND (<0.33)	230
Phenanthrene		3.2	64.0	39.0	0.57	ND (<3.3)	830	0.026[3]	250
Pyrene	1,000	3.0	ND (<3.3)	ND (<3.3)	ND (<0.33)	25.0	650	ND (<0.33)	NA

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations							
		B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7
Sample Depth (feet bgs)		9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0
Sample Date:		3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013
Acenaphthene	1,000	1.47	0.319	136	0.0294	0.116	0.181	0.065	0.0328
Acenaphthylene		0.266	0.108	1.37	0.0145	0.0531	0.101	0.0345	0.0423
Anthracene	1,000	0.626	0.48	31.7	0.0433	0.14	0.398	0.118	0.0603
Benzo (a) anthracene	1,000	0.596	0.338	26.5	0.019	0.149	0.206	0.0918	0.0617
Benzo (b) fluoranthene	1,000	0.117	0.0788	0.631	ND(<0.005)	0.0631	0.0873	0.0259	0.0271
Benzo (k) fluoranthene	1,000	0.123	0.0494	0.469	ND(<0.005)	0.0377	0.0672	0.0329	0.0261
Benzo (g,h,i) perylene		0.0604	0.036	0.191	ND(<0.005)	0.0249	0.0352	0.0155	0.0129
Benzo (a) pyrene	1,000	0.267	0.125	0.905	0.00609	0.0877	0.132	0.0741	0.0595
Chrysene	1,000	0.37	0.0182	1.46	0.0113	0.0599	0.177	0.0812	0.0636
Dibenz (a,h) anthracene	1,000	0.0364	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	0.0139	ND(<0.01)	ND(<0.01)
Fluoranthene	1,000	0.667	0.846	31.0	0.0633	0.18	0.242	0.131	0.12
Fluorene	1,000	1.06	0.383	56.5	0.0322	0.107	0.331	0.094	0.0775
Indeno (1,2,3-cd) pyrene	1,000	0.0601	0.0342	0.224	ND(<0.01)	0.0237	0.0348	0.0164	0.0133
Naphthalene	23	1.16	0.143	257	ND(<0.005)	0.00978	0.135	0.0251	0.0148
Phenanthrene		2.54	1.32	168	0.16	0.521	79.2	0.305	0.187
Pyrene	1,000	1.18	1.66	49.7	0.101	0.351	0.478	0.202	0.19

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations								
		B-8[2]	B-9	B-10	B-11	RH-EX-1	RH-EX-2	RH-EX-3	MW-9	MW-10[2]
Sample Depth (feet bgs)		6.5	7.5	9.5	9.0	4.75	8	8.5-9	9.5	8
Sample Date:		3/28/2013	3/28/2013	4/8/2013	4/8/2013	3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013
Acenaphthene	1,000	12.6	0.0382	3.49	0.0096	ND(<0.15)	1,510	4.08	4.03	ND(<0.99)
Acenaphthylene		0.388	0.0112	0.315	0.0702	0.548	3.83	2.74	1.12	ND(<0.99)
Anthracene	1,000	4.06	0.179	2.14	0.0231	ND(<0.15)	2,100	2.16	2.29	ND(<0.99)
Benzo (a) anthracene	1,000	2.76	0.0442	0.803	0.0564	1.05	5.08	1.82	2.36	ND(<0.99)
Benzo (b) fluoranthene	1,000	0.952	0.0202	0.317	0.0297	0.923	1.72	0.705	2.09	ND(<0.99)
Benzo (k) fluoranthene	1,000	1.03	0.0206	0.427	0.0207	0.657	1.3	0.461	2.67	ND(<0.99)
Benzo (g,h,i) perylene		0.223	0.00885	0.128	0.0402	0.505	0.635	0.201	1.23	ND(<0.99)
Benzo (a) pyrene	1,000	3.41	0.0537	0.559	0.0133	1.23	2.57	0.873	2.31	ND(<0.99)
Chrysene	1,000	2.18	0.041	0.89	0.0923	0.896	3.26	1.28	2.9	ND(<0.99)
Dibenz (a,h) anthracene	1,000	ND(<0.1)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<1.0)	ND(<0.99)
Fluoranthene	1,000	4.99	0.116	1.18	0.0449	1.2	721	2.9	3.93	ND(<0.99)
Fluorene	1,000	6.43	0.0686	2.86	0.0097	ND(<0.150)	1,100	3.62	3.49	ND(<0.99)
Indeno (1,2,3-cd) pyrene	1,000	0.284	0.0108	0.148	0.0295	0.417	0.602	ND(<0.3)	1.43	ND(<0.99)
Naphthalene	23	36.5	0.0321	1.48	0.0188	ND(<0.150)	1,980	2,250	12.7	ND(<0.99)
Phenanthrene		15.4	0.0634	6.48	0.0432	ND(<0.150)	3,210	1,040	9.71	ND(<0.99)
Pyrene	1,000	8.29	0.215	3.03	0.368	3.63	1,230	4.96	5.62	1.1

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations						
		COB_TANK2_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_020514
Sample Depth (feet bgs)		4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0
Sample Date:		1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014
Acenaphthene	1,000	320	58	2.6	1.4	360	0.30	0.80
Acenaphthylene		1,000	25	1.8	1.2	1,000	0.27	0.068
Anthracene	1,000	1,100	52	3.1	2.4	1,300	2.2	0.85
Benzo (a) anthracene	1,000	600	34	2.9	4.7	940	2.0	0.62
Benzo (b) fluoranthene	1,000	300	16	2.5	4.3	500	1.0	0.25
Benzo (k) fluoranthene	1,000	84	4.7	1.0	1.2	58	0.39	0.086
Benzo (g,h,i) perylene		170	7.0	2.2	2.8	210	0.68	0.14
Benzo (a) pyrene	1,000	440	20	2.4	3.5	590	1.4	0.38
Chrysene	1,000	600	28	2.6	4.9	790	1.8	0.46
Dibenz (a,h) anthracene	1,000	47	2.2	0.55	0.88	69	0.19	0.036
Fluoranthene	1,000	1,000	59	4.9	8.7	1,900	3.1	1.1
Fluorene	1,000	1,000	66	3.7	1.8	2,000	0.64	1.1
Indeno (1,2,3-cd) pyrene	1,000	120	5.4	1.6	2.2	160	0.49	0.12
Naphthalene	23	720	370	26	3.7	7,700	0.45	1.3
Phenanthrene		3,700	190	9.4	9.1	5,400	3.0	2.6
Pyrene	1,000	1,600	86	6.0	9.0	2,400	4.6	2.2

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations					
		COB_SS8_0205014	COB_SS9_0205014	COB_SS10_021814	COB_SS11_022214	COB_SS12_022514	COB_SS13_031114
Sample Depth (feet bgs)		3.5	5.5	8.0	9.0	9.0	9.0
Sample Date:		2/5/2014	2/13/2014	2/18/2014	2/22/2014	2/25/2014	3/11/2014
Acenaphthene	1,000	0.0071[3]	42	370	100	26	4.2
Acenaphthylene		0.027[3]	1.7	190	4.9	4.3	29
Anthracene	1,000	0.19	13	240	140	44	6.8
Benzo (a) anthracene	1,000	0.66	8.9	82	71	35	3.8
Benzo (b) fluoranthene	1,000	0.84	4.4	34	42	25	2.1
Benzo (k) fluoranthene	1,000	0.29	1.3	11	16	7.4	0.89
Benzo (g,h,i) perylene		0.90	2.1	18	22	15	0.91
Benzo (a) pyrene	1,000	0.86	5.6	45	59	32	2.8
Chrysene	1,000	0.76	7.8	75	67	33	3.8
Dibenz (a,h) anthracene	1,000	0.15	0.9	7.1	7.5	4.0	0.42
Fluoranthene	1,000	1.0	12	140	150	55	6.9
Fluorene	1,000	0.035	20	300	140	34	12
Indeno (1,2,3-cd) pyrene	1,000	0.64	1.8	16	18	12	0.82
Naphthalene	23	0.26	76	2,500	430	35	160
Phenanthrene		0.33	42	570	410	96	26
Pyrene	1,000	1.5	16	160	14	90	7.9

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations						
		COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614	COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_SS19_040914
Sample Depth (feet bgs)		21.0	10.5	5.5	11.0	11.0	10.0	9-9.5
Sample Date:		3/20/2014	3/21/2014	3/26/2014	3/26/2014	3/26/2014	3/31/2014	4/9/2014
Acenaphthene	1,000	0.14	180	ND(<0.006)	0.32	0.0046[3]	370	0.10
Acenaphthylene		0.71	14	ND(<0.006)	0.019	0.0022[3]	250	0.0041[3]
Anthracene	1,000	0.56	42	0.0045[3]	0.17	0.038	190	0.052
Benzo (a) anthracene	1,000	0.15	23	0.014	0.22	0.041	120	0.014
Benzo (b) fluoranthene	1,000	0.082	13	0.013	0.16	0.031	71	0.0052[3]
Benzo (k) fluoranthene	1,000	0.022	3.0	0.0032[3]	0.035	0.0098	20	0.0014[3]
Benzo (g,h,i) perylene		0.053	5.2	0.0053[3]	0.076	0.020	40	0.0026[3]
Benzo (a) pyrene	1,000	0.10	16	0.0066	0.20	0.048	120	0.0083
Chrysene	1,000	0.12	20	0.016	0.19	0.033	75	0.010
Dibenz (a,h) anthracene	1,000	0.0084	2.9	0.0028[3]	0.022	0.0046[3]	9.6	0.00063[3]
Fluoranthene	1,000	0.57	37	0.032	0.34	0.058	230	0.044
Fluorene	1,000	0.64	87	0.001[3]	0.15	0.0063	240	0.042
Indeno (1,2,3-cd) pyrene	1,000	0.037	4.7	0.0062	0.059	0.015	30	0.002[3]
Naphthalene	23	11	630	0.0067[3]	0.024	0.0034[3]	3,100	0.0059[3]
Phenanthrene		3.1	160	0.019	0.39	0.038	750	0.20
Pyrene	1,000	0.78	38	0.034	0.72	0.10	310	0.088

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.

2 - The reporting limit for analytes have been raised to account for matrix interference.

3 - Detected but below the reporting limit; therefore, result is an estimated concentration.

4 - The full 8270D list was reported for sample. Of the 57 other constituents reported, only six constituents were detected. Of the six detections, nitrobenzene at 0.18 mg/kg was the only analyte to exceed CDPHE CSEV Groundwater Protection Level of 0.061 mg/kg.

5 - Soil sample collected by others.

Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM, except at EX-1 where SVOCs analyzed by USEPA Method 8270D Full Scan and soil samples collected in 2010 where SVOCs analyzed by USEPA Method 8270C.

Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels.

ND - Not detected at or above the reporting limit.

NA - Not analyzed.

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - December 2013
1770 13th Street
Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC [1] (feet)	Depth to Product BTOC [1] (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation[2] (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event [3] (feet)	Comments:
MW-1	10/4/2010	10.74	ND	None		5,341.51	5,330.77	NM	
MW-1	9/27/2011	10.79	ND	None			5,330.72	-0.05	
MW-1	1/16/2012	11.32	ND	None			5,330.19	-0.53	
MW-1	5/7/2012	9.71	ND	None			5,331.80	1.61	
MW-1	11/30/2012	11.07	ND	None	15.73	5,341.52	5,330.45	-1.36	
MW-1	3/20/2013	10.65	ND	None	15.48		5,330.87	0.42	
MW-1	6/13/2013	9.13	ND	None	15.39		5,332.39	1.52	
MW-1	9/9/2013	10.64	ND	None	15.40		5,330.88	-1.51	
MW-1	10/8/2013	10.69	ND	None	15.38		5,330.83	-0.05	
MW-1	12/11/2013	10.99	ND	None	15.42		5,330.53	-0.30	Approx. 0.25' of sediment in well bottom observed.
MW-2	10/4/2010	9.91	ND	None		5,339.48	5,329.57	NM	
MW-2	9/27/2011	10.02	ND	None			5,329.46	-0.11	
MW-2	1/16/2012	10.51	ND	None			5,328.97	-0.49	
MW-2	5/7/2012	8.95	ND	None			5,330.53	1.56	
MW-2	11/30/2012	10.18	ND	None	13.40	5,339.52	5,329.34	-1.23	
MW-2	3/20/2013	9.73	ND	None	13.51		5,329.79	0.45	
MW-2	6/13/2013	8.78	ND	None	13.48		5,330.74	0.95	
MW-2	9/9/2013	9.90	ND	None	13.49		5,329.62	-1.12	
MW-2	10/8/2013	9.94	ND	None	13.49		5,329.58	-0.04	
MW-2	12/11/2013	10.60	ND	None	13.50		5,328.92	-0.66	
MW-3	10/4/2010	8.53	ND	None		5,338.04	5,329.51	NM	
MW-3	9/27/2011	8.62	ND	None			5,329.42	-0.09	
MW-3	1/16/2012	9.12	ND	None			5,328.92	-0.50	
MW-3	5/7/2012	7.52	ND	None			5,330.52	1.60	
MW-3	11/30/2012	8.79	ND	None	14.31	5,338.09	5,329.30	-1.27	Sheen
MW-3	3/20/2013	8.27	ND	None	14.27		5,329.82	0.52	
MW-3	6/13/2013	7.39	ND	None	14.24		5,330.70	0.88	
MW-3	9/9/2013	8.52	ND	None	14.19		5,329.57	-1.13	Sheen
MW-3	10/8/2013	8.64	ND	None	14.23		5,329.45	-0.12	
MW-3	12/11/2013	9.34	ND	None	14.29		5,328.75	-0.70	
MW-4	10/4/2010	5.96	ND	None		5,336.63	5,330.67	NM	
MW-4	9/27/2011	6.12	ND	None			5,330.51	-0.16	
MW-4	1/16/2012	6.82	ND	None			5,329.81	-0.70	
MW-4	5/7/2012	4.51	ND	None			5,332.12	2.31	
MW-4	11/30/2012	6.36	ND	None	14.06	5,336.64	5,330.28	-1.85	
MW-4	3/20/2013	5.66	ND	None	14.07		5,330.98	0.70	
MW-4	6/13/2013	4.36	ND	None	14.02		5,332.28	1.30	
MW-4	9/9/2013	5.92	ND	None	14.00		5,330.72	-1.56	
MW-4	10/8/2013	6.62	ND	None	14.01		5,330.02	-0.70	
MW-4	12/11/2013	6.08	ND	None	13.99		5,330.56	0.54	
MW-5	10/4/2010	8.02	ND	None		5,338.13	5,330.11	NM	
MW-5	9/27/2011	8.17	ND	None			5,329.96	-0.15	
MW-5	1/16/2012	8.81	ND	None			5,329.32	-0.64	
MW-5	5/7/2012	6.57	ND	None			5,331.56	2.24	
MW-5	11/30/2012	8.33	ND	None	14.00	5,338.18	5,329.85	-1.76	Sheen
MW-5	3/20/2013	7.70	ND	None	13.56		5,330.48	0.63	Sheen
MW-5	6/13/2013	6.52	ND	None	13.44		5,331.66	1.18	
MW-5	9/9/2013	8.01	ND	None	13.40		5,330.17	-1.49	Sheen
MW-5	10/8/2013	8.45	ND	None	13.41		5,329.73	-0.44	
MW-5	12/11/2013	8.72	ND	None	13.41		5,329.46	-0.27	Sheen
MW-6	10/4/2010	7.83	ND	None		5,337.51	5,329.68	NM	
MW-6	9/27/2011	8.05	ND	None			5,329.46	-0.22	
MW-6	1/16/2012	8.72	ND	None			5,328.79	-0.67	
MW-6	5/7/2012	6.32	ND	None			5,331.19	2.40	
MW-6	11/30/2012	8.17	ND	None	14.39	5,337.53	5,329.36	-1.85	
MW-6	3/20/2013	7.29	ND	None	14.39		5,330.24	0.88	
MW-6	6/13/2013	6.49	ND	None	14.38		5,331.04	0.80	
MW-6	9/9/2013	7.90	ND	None	14.41		5,329.63	-1.41	Sheen
MW-6	10/8/2013	8.59	ND	None	14.38		5,328.94	-0.69	
MW-6	12/11/2013	8.81	ND	None	14.41		5,328.72	-0.22	
MW-7	11/30/2012	8.50	ND	None	14.67	5,337.69	5,329.19	NM	
MW-7	3/20/2013	7.96	ND	None	14.58		5,329.73	0.54	
MW-7	6/13/2013	7.09	ND	None	14.54		5,330.60	0.87	
MW-7	9/9/2013	8.25	ND	None	14.56		5,329.44	-1.16	
MW-7	10/8/2013	8.33	ND	None	14.55		5,329.36	-0.08	
MW-7	12/11/2013	9.07	ND	None	14.56		5,328.62	-0.74	

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - December 2013
1770 13th Street
Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC [1] (feet)	Depth to Product BTOC [1] (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation[2] (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event [3] (feet)	Comments:
MW-8	11/30/2012	8.83	ND	None	13.95	5,338.44	5,329.61	NM	Sheen
MW-8	3/20/2013	8.27	ND	None	13.77		5,330.17	0.56	Sheen
MW-8	6/13/2013	7.24	ND	None	13.76		5,331.20	1.03	Sheen
MW-8	9/9/2013	8.53	ND	None	13.74		5,329.91	-1.29	Sheen
MW-8	10/8/2013	8.75	ND	None	13.74		5,329.69	-0.22	
MW-8	12/11/2013	9.21	ND	None	13.77		5,329.23	-0.46	Sheen
MW-9	4/11/2013	9.45	ND	None	15.59	5,340.77	5,331.32	NM	Sheen
MW-9	6/13/2013	8.41	ND	None	15.56		5,332.36	1.04	Sheen
MW-9	9/9/2013	9.91	ND	None	14.93		5,330.86	-1.50	Sheen
MW-9	10/8/2013	9.97	ND	None	15.57		5,330.80	-0.06	Approx. 0.63' of sediment in well bottom observed.
MW-9	12/11/2013	10.22	ND	None	15.35		5,330.55	-0.25	Sheen; approx. 0.20' of sediment in well bottom observed.
MW-10	6/13/2013	6.84	ND	None	13.93	5,337.47	5,330.63	NM	
MW-10	9/9/2013	8.02	ND	None	13.89		5,329.45	-1.18	
MW-10	10/8/2013	8.18	ND	None	13.90		5,329.29	-0.16	
MW-10	12/11/2013	8.83	ND	None	13.92		5,328.64	-0.65	

Notes:
1 - Depths to groundwater/product measured from the north edge of the well casing. Measurements prior to 11/30/12, were collected by others.
2 - Monitoring wells MW-1 through MW-8 were surveyed on December 3, 2012 by Flagstaff Surveying, Inc. to NAVD 88 datumMonitoring wells MW-9 and MW-10 were surveyed on April 26 and June 11, 2013, respectively, by Flagstaff Surveying, Inc. to NAVD 88 datum.
3 - Change in groundwater elevation is based on the change in elevation since the most recent measuring event. Change in groundwater elevations calculated for 12/11/2013 are based on depth to water measurements between October 2013 and December 2013.
4 - Water level only event performed on October 8, 2013.

amsl - above mean sea level
BTOC - below top of casing
TOC - top of casing
ND - not detected
NM - not measured
Sheen - sheen observed on water surface during purging activities for sample collection.

TABLE 4

Summary of VOC and TPH Analytical Results in Groundwater

1770 13th Street

Boulder, Colorado

Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
Colorado Basic Standards for Groundwater[1]		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
MW-1	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-1	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-2	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	6/13/2013	1.09	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	10/4/2010	8.4	NA	NA	ND(<10)	ND(<20)	ND(<20)	NA	NA	NA	ND(<10)	ND(<10)	ND(<20)	ND(<10)	ND(<20)	ND(<10)	NA	NA	NA	NA	NA	ND(<10)	ND(<10)	ND(<10)	NA	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	NA
MW-3	12/3/2012	26.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3-DUP	12/3/2012	28.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	3/20/2013	7.04	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	6/13/2013	7.44	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	9/9/2013	4.66	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	12/11/2013	692	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3-DUP	12/11/2013	619	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-4	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	10/4/2010	0.46	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-5	12/3/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5-DUP	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	12/11/2013	4.72	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	10/4/2010	0.71	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-6	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6-DUP	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	12/11/2013	7.38	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	12/3/2012	28.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	3/20/2013	17.6	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	6/13/2013	11.1	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	9/9/2013	10.7	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	12/11/2013	361	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	12/3/2012	780	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	3/20/2013	309	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	6/13/2013	696	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	8.10	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	9/9/2013	637	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.47	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	12/11/2013	712	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	4/11/2013	5.47	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.10	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	6/13/2013	1.03	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.81	3.21	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9-DUP	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.82	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	12/11/2013	1.29	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	9/9/2013	9.60	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	12/11/2013	173	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
COB_GW1_022514[10]	2/25/2014	ND(<20)	ND(<20)	NA	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<100)	ND(<50)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)

TABLE 4

Summary of VOC and TPH Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	TPH-DRO (EPA method 8015)
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
MW-1	10/4/2010	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	ND(<2.0)[3]	NA	NA
MW-1	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<500)	ND(<5,000)
MW-1	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	10/4/2010	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	ND(<2.0)[3]	NA	NA
MW-2	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<500)	ND(<5,000)
MW-2	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-3	10/4/2010	ND(<10)	ND(<10)	227	NA	NA	NA	NA	NA	NA	NA	ND(<25)	11.6	NA	NA	ND(<20)	ND(<10)	NA	ND(<10)	24.3	NA	NA	ND(<10)	ND(<10)	ND(<10)	NA	NA	NA	NA	ND(<10)	NA	189[3]	NA	NA
MW-3	12/3/2012	ND(<1.0)	ND(<1.0)	60	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11	ND(<5.0)	4.3	ND(<5.0)	ND(<5.0)	800	2.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	11	11	ND(<1.0)	12	31	1,600	6,190
MW-3 DUP	12/3/2012	ND(<1.0)	ND(<1.0)	62	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	12	ND(<5.0)	4.9	ND(<5.0)	ND(<5.0)	740	3.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	12	12	ND(<1.0)	13	35	1,700	NA
MW-3	3/20/2013	ND(<1.0)	ND(<1.0)	41.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.1	ND(<5.0)	4.07	ND(<5.0)	ND(<5.0)	NA	3.02	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.84	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	10.3	8.59	ND(<1.0)	9.62	23.6	NA	NA
MW-3	6/13/2013	ND(<1.0)	ND(<1.0)	77.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	17.3	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	3.45	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	15.6	57.2	ND(<1.0)	19.5	34.3	NA	NA
MW-3	9/9/2013	ND(<1.0)	ND(<1.0)	44.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.9	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	184	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.66	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.84	29.4	ND(<1.0)	7.22	24.4	NA	NA
MW-3	12/11/2013	ND(<1.0)	ND(<1.0)	521	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	39.8	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	11.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	85.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	38.5	45.9	ND(<1.0)	95.6	182	NA	NA
MW-3 DUP	12/11/2013	ND(<1.0)	ND(<1.0)	510	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	40.0	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	10.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	80.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	37.6	43.3	ND(<1.0)	96.0	181	NA	NA
MW-4	10/4/2010	ND(<2.0)	ND(<2.0)	1.2	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	3.7[3]	NA	NA
MW-4	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	2.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<500)	ND(<5,000)
MW-4	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-4	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-4	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-4	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	10/4/2010	ND(<2.0)	ND(<2.0)	53.6	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	2.2	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	58.7[3]	NA	NA
MW-5	12/3/2012	ND(<1.0)	ND(<1.0)	2.9	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.9	ND(<5.0)	4.5	ND(<5.0)	ND(<5.0)	1,000	3.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.8	12	ND(<1.0)	ND(<2.0)	1.6	1,400	6,880
MW-5	3/20/2013	ND(<1.0)	ND(<1.0)	1.23	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	1.73	ND(<5.0)	1.47	ND(<5.0)	ND(<5.0)	NA	1.08	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.63	4.33	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5-DUP	3/20/2013	ND(<1.0)	ND(<1.0)	1.21	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	1.69	ND(<5.0)	1.49	ND(<5.0)	ND(<5.0)	NA	1.14	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.60	4.35	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	11.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.89	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	1.37	NA	NA
MW-6	10/4/2010	ND(<2.0)	ND(<2.0)	30	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	21.6[3]	NA	NA
MW-6	11/30/2012	ND(<1.0)	ND(<1.0)	8.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	2.4	ND(<5.0)	1.7	ND(<5.0)	ND(<5.0)	270	1.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.5	4.2	ND(<1.0)	4.6	5.3	ND(<500)	ND(<5,000)
MW-6	3/20/2013	ND(<1.0)	ND(<1.0)	22.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	5.98	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	2.54	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.80	9.20	ND(<1.0)	10.4	11.2	NA	NA
MW-6	6/13/2013	ND(<1.0)	ND(<1.0)	29.7	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	7.83	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	10.90	38.80	ND(<1.0)	15.5	15.4	NA	NA
MW-6-DUP	6/13/2013	ND(<1.0)	ND(<1.0)	19.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	5.13	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.68	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.52	26.0	ND(<1.0)	10.2	10.1	NA	NA
MW-6	9/9/2013	ND(<1.0)	ND(<1.0)	18.7	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.17	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	395	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.29	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.02	20.9	ND(<1.0)	7.44	8.51	NA	NA
MW-6	12/11/2013	ND(<1.0)	ND(<1.0)	98.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	16.6	ND(<5.0)	4.31	ND(<5.0)	ND(<5.0)	NA	6.02	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.55	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	16.6	20.0	ND(<1.0)	40.9	44.5	NA	NA
MW-7	12/3/2012	ND(<1.0)	ND(<1.0)	30	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	9.3	ND(<5.0)	2.0	ND(<5.0)	ND(<5.0)	120	1.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.2	4.2	ND(<1.0)	5.8	35	1,200	ND(<5,000)
MW-7	3/20/2013	ND(<1.0)	ND(<1.0)	22.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	10.6	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.08	2.04	ND(<1.0)	5.15	36.1	NA	NA
MW-7	6/13/2013	ND(<1.0)	ND(<1.0)	24.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	12.2	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.62	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.64	20.4	ND(<1.0)	4.34	35.6	NA	NA
MW-7	9/9/2013	ND(<1.0)	ND(<1.0)	16.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.7	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	37	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.77	14.4	ND(<1.0)	ND(<2.0)	32.4	NA	NA
MW-7	12/11/2013	ND(<1.0)	ND(<1.0)	139	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	21.0	ND(<5.0)	3.26	ND(<5.0)	ND(<5.0)	NA	3.41	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	15.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	20.2	8.91	ND(<1.0)	12.4	112	NA	NA
MW-8	12/3/2012	ND(<1.0)	ND(<1.0)	710	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	55	ND(<5.0)	8.6	ND(<5.0)	ND(<5.0)	4,700	16	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	210	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	47	62	ND(<1.0)	220	270	9,700	26,000
MW-8	3/20/2013	ND(<1.0)	ND(<1.0)	310	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	31.7	ND(<5.0)	6.46	ND(<5.0)	ND(<5.0)	NA	10.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	21.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	27.5	44.2	ND(<1.0)	103	126	NA	NA
MW-8	6/13/2013	ND(<1.0)	ND(<1.0)	514	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	39.5	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	30.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	60.9	165	ND(<1.0)	137	164	NA	NA
MW-8	9/9/2013	ND(<1.0)	ND(<1.0)	664	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	45.3	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	7,300	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	44.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	65.6	184	ND(<1.0)	134	196	NA	NA
MW-8	12/11/2013	ND(<1.0)	ND(<1.0)	804	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	63.0	ND(<5.0)	11.1	ND(<5.0)	ND(<5.0)	NA	19.0	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	71.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	57.5	79.7	ND(<1.0)	177	272	NA	NA
MW-9	4/11/2013	ND(<1.0)	ND(<1.0)	53.5	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	14.7	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	177	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.86	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	50.4	120	ND(<1.0)	200	13	NA	NA
MW-9	6/13/2013	ND(<1.0)	ND(<1.0)	16.5	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	7.12	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	23.1	58.0	ND(<1.0)	51.9	6.61	NA	NA
MW-9	9/9/2013	ND(<1.0)	ND(<1.0)	11.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.56	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	30.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.49	21.5	ND(<1.0)	5.51	4.43	NA	NA
MW-9-DUP	9/9/2013	ND(<1.0)	ND(<1.0)	10.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.52	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	51.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.25	23.2	ND(<1.0)	5.62	4.31	NA	NA
MW-9	12/11/2013	ND(<1.0)	ND(<1.0)	3.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	2.14	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.12	1.94	ND(<1.0)	4.7	5.17	NA	NA
MW-10	6/13/2013	ND(<1.0)	ND(<1.0)	3.08	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.49	ND(<1.0)	ND(<2.0)	1.49	NA	NA
MW-10	9/9/2013	ND(<1.0)	ND(<1.0)	78.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	25.1	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	1010	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.88	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	18.4	83.8	ND(<1.0)	36.7	67.0	NA	NA
MW-10	12/11/2013	ND(<1.0)	ND(<1.0)	16.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	14.2	ND(<5.0)	2.03	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.47	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	14.0	3.22	ND(<1.0)	5.0	58.0	NA	NA
COB_GW1_022514[4]	2/25/2014	ND(<20)	ND(<20)	140	ND(<20)	NA	NA	NA	26	ND(<20)	8.1	ND(<100)	ND(<20)	1,900	19	ND(<20)	ND(<20)	ND(<20)	ND(<20)	24	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<50)	64	180	ND(<20)	NA	460[3]	NA	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013 was utilized to evaluate groundwater quality.

2 - Methyl tert-butyl ether (MTBE) is not listed in the CDPHE groundwater standards, so the Colorado Department of Labor and Employment (CDLE), Division of Oil and Public Safety, Storage Tank Regulations 7 C.C.R. 1101-14, Effective: January 1, 2009, Tier 1 Risk Based Screening Level is listed was utilized to evaluate MTBE in groundwater.

3 - Reported as Total Xylenes.

4 - GW1 - Grab groundwater sample collected from groundwater within the excavation below Oil Tank 1 (west tank) and the Reservoir.

Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.

Cells highlighted in **BLUE** indicate an exceedance of the respective CDPHE or the CDLE groundwater standard.

ND - Not detected at or above the reporting limit.

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (VOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
Colorado Basic Standards for Groundwater[(1)]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-1	10/4/2010	ND(<1.0)	ND(<1.0)	ND(<1.3)	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	ND(<1.4)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)
MW-1	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-1	3/20/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	9/9/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.494	ND(<0.5)	NA	NA	ND(<0.2)
MW-2	10/4/2010	ND(<1.0)	ND(<1.0)	ND(<1.3)	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	ND(<1.4)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)
MW-2	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-2	3/20/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-2	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	1.13	ND(<0.5)	NA	NA	ND(<1.0)
MW-2	9/9/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	0.368
MW-2	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.37	ND(<0.5)	NA	NA	ND(<0.2)
MW-3	10/4/2010	115	170	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	50.2	ND(<10)	ND(<20)	ND(<10)	568	ND(<50)	ND(<20)	1,880	60.3	ND(<50)	NA	ND(<10)
MW-3	12/3/2012	153	32.8	14.4	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	57.7	NA	ND(<10)	NA	NA	NA	NA	371	71.5	NA	NA	ND(<10)
MW-3-DUP	12/3/2012	162	33.8	14.6	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	46.3	NA	ND(<10)	NA	NA	NA	NA	341	72.3	NA	NA	ND(<10)
MW-3	3/20/2013	157	31.4	15.5	0.550	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.437	ND(<0.2)	NA	NA	NA	3.51	40.4	NA	ND(<0.3)	NA	NA	NA	NA	182	58.1	NA	NA	5.45
MW-3	6/13/2013	160	38.3	42	0.385	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.367	ND(<0.2)	NA	NA	NA	3.94	45.0	NA	ND(<0.3)	NA	NA	NA	NA	366	47.9	NA	NA	5.84
MW-3	9/9/2013	173	37.7	15.2	1.280	0.466	ND(<0.2)	ND(<0.2)	0.503	NA	NA	1.11	ND(<0.2)	NA	NA	NA	5.94	45.6	NA	ND(<0.3)	NA	NA	NA	NA	239	67.7	NA	NA	8.09
MW-3	12/11/2013	86.1	20.4	7.06	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.2	21.8	NA	ND(<0.3)	NA	NA	NA	NA	980	30.7	NA	NA	2.55
MW-3-DUP	12/11/2013	186	34.3	11.0	0.335	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.31	ND(<0.2)	NA	NA	NA	3.61	36.4	NA	ND(<0.3)	NA	NA	NA	NA	1,900	50.5	NA	NA	4.53
MW-4	10/4/2010	2.0	4.2	1.8	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	3.8	ND(<1.0)	ND(<2.0)	ND(<1.0)	10.2	ND(<5.0)	ND(<2.0)	7.5	5.4	ND(<5.0)	NA	1.1
MW-4	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-4	3/20/2013	ND(<0.5)	0.470	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-4	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-4	9/9/2013	ND(<0.5)	1.47	ND(<0.2)	ND(<0.1)	0.248	ND(<0.2)	0.559	0.388	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	0.245	ND(<0.2)	NA	0.514	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	0.437
MW-4	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.714	ND(<0.5)	NA	NA	ND(<0.2)
MW-5	10/4/2010	63.9	168	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	39.7	ND(<10)	ND(<20)	ND(<10)	482	ND(<50)	ND(<20)	2,050	61.3	ND(<50)	NA	ND(<10)
MW-5	12/3/2012	51.0	102	17.9	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	12.0	46.7	NA	ND(<10)	NA	NA	NA	NA	545	86.2	NA	NA	16.4
MW-5	3/20/2013	33.2	70.3	13.8	3.9	0.451	0.59	0.354	1.19	NA	NA	2.61	ND(<0.2)	NA	NA	NA	9.18	32.7	NA	0.316	NA	NA	NA	NA	254	65.4	NA	NA	15.4
MW-5-DUP	3/20/2013	284	62.1	12.1	1.57	ND(<0.2)	0.219	ND(<0.2)	0.418	NA	NA	1.11	ND(<0.2)	NA	NA	NA	5.94	27.8	NA	ND(<0.3)	NA	NA	NA	NA	221	50.3	NA	NA	ND(<10.0)
MW-5	6/13/2013	34.0	15.0	4.06	0.688	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.648	ND(<0.2)	NA	NA	NA	3.84	9.70	NA	ND(<0.3)	NA	NA	NA	NA	23.8	15.3	NA	NA	8.03
MW-5	9/9/2013	14.1	13.5	19.1	14.9	8.21	2.49	2.21	9.43	NA	NA	13.6	0.721	NA	NA	NA	28.4	15.40	NA	2.7	NA	NA	NA	NA	6.74	71.7	NA	NA	47.3
MW-5	12/11/2013	24.6	42.0	12.4	1.91	0.837	ND(<0.2)	ND(<0.2)	0.966	NA	NA	1.63	ND(<0.2)	NA	NA	NA	7.3	23.7	NA	0.311	NA	NA	NA	NA	43.1	51.4	NA	NA	9.98
MW-6	10/4/2010	48.9	67.4	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	28.6	ND(<10)	ND(<20)	ND(<10)	114	ND(<50)	ND(<20)	371	47.4	ND(<50)	NA	ND(<10)
MW-6	11/30/2012	52.0	63.8	12.1	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	42.7	NA	ND(<10)	NA	NA	NA	NA	184	63.8	NA	NA	ND(<10)
MW-6	3/20/2013	58.7	77.7	12.2	1.40	0.219	0.286	0.284	0.450	NA	NA	1.04	ND(<0.2)	NA	NA	NA	6.04	40.8	NA	ND(<0.3)	NA	NA	NA	NA	324	68.7	NA	NA	ND(<10)
MW-6	6/13/2013	49.2	59.4	13.1	0.724	0.276	0.247	ND(<0.2)	0.404	NA	NA	0.724	ND(<0.2)	NA	NA	NA	6.40	39.3	NA	ND(<0.3)	NA	NA	NA	NA	185	67.0	NA	NA	10.1
MW-6-DUP	6/13/2013	52.0	69.2	18.9	0.931	0.668	0.465	ND(<0.2)	0.621	NA	NA	0.922	ND(<0.2)	NA	NA	NA	7.19	42.0	NA	ND(<0.3)	NA	NA	NA	NA	373	71.3	NA	NA	10.8
MW-6	9/9/2013	74.3	79.2	33.8	9.780	7.600	2.130	2.86	7.720	NA	NA	8.860	0.746	NA	NA	NA	36.0	69.5	NA	3.18	NA	NA	NA	NA	622	216	NA	NA	41.8
MW-6	12/11/2013	56.7	52.3	13.1	0.405	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.411	ND(<0.2)	NA	NA	NA	5.58	36.4	NA	ND(<0.3)	NA	NA	NA	NA	784	69.0	NA	NA	7.36
MW-7	12/3/2012	80.3	16.1	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	26.6	NA	ND(<10)	NA	NA	NA	NA	79.7	25.0	NA	NA	ND(<10)
MW-7	3/20/2013	109	23.6	8.63	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.37	9.45	NA	ND(<0.3)	NA	NA	NA	NA	84.5	35.6	NA	NA	3.53
MW-7	6/13/2013	132	24.7	11.3	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.82	27.3	NA	ND(<0.3)	NA	NA	NA	NA	78.8	35.3	NA	NA	4.50
MW-7	9/9/2013	144	27.3	12.2	0.138	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	3.42	33.2	NA	ND(<0.3)	NA	NA	NA	NA	21.7	48.9	NA	NA	4.22
MW-7	12/11/2013	131	24.6	10.0	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	3.62	26.3	NA	ND(<0.3)	NA	NA	NA	NA	132	42.0	NA	NA	4.14

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
		Analyte (VOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
Colorado Basic Standards for Groundwater[1]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-8	12/3/2012	444	92.8	91.0	52.7	28.6	38.6	14.4	71.9	NA	NA	49.7	ND(<10)	NA	NA	NA	105	207	NA	12.2	NA	NA	NA	NA	3,950	494	NA	NA	154
MW-8	3/20/2013	214	ND(<2.0)	24.3	8.34	2.40	2.11	1.64	4.52	NA	NA	6.75	0.665	NA	NA	NA	17.0	89.2	NA	1.49	NA	NA	NA	NA	211,000	143	NA	NA	29.5
MW-8	6/13/2013	243	83.4	40.1	13.5	4.24	5.81	1.29	9.54	NA	NA	15.3	0.457	NA	NA	NA	31.8	143	NA	1.71	NA	NA	NA	NA	3,310	148	NA	NA	58.6
MW-8	9/9/2013	201	72.1	21.0	5.20	3.58	1.23	1.29	4.21	NA	NA	4.22	0.377	NA	NA	NA	14.5	74.4	NA	1.43	NA	NA	NA	NA	4,570	106	NA	NA	19.2
MW-8	12/11/2013	199	60.8	14.6	2.50	1.51	0.528	0.669	1.82	NA	NA	2.16	ND(<0.2)	NA	NA	NA	6.91	52.6	NA	0.733	NA	NA	NA	NA	4,880	70.6	NA	NA	9.05
MW-9	4/11/2013	36.8	37.8	75.4	74.4	30.7	41.9	12.3	52.2	NA	NA	70.3	2.84	NA	NA	NA	152	36.7	NA	12.8	NA	NA	NA	NA	158	222	NA	NA	298
MW-9	6/13/2013	20.7	28.3	33.8	20.7	6.16	5.95	1.17	9.56	NA	NA	19.7	0.408	NA	NA	NA	41.7	21.3	NA	1.77	NA	NA	NA	NA	77.2	99.1	NA	NA	79.7
MW-9	9/9/2013	10.3	8.96	10.7	2.86	1.41	0.465	0.502	1.78	NA	NA	2.33	ND(<0.2)	NA	NA	NA	7.80	7.65	NA	0.566	NA	NA	NA	NA	21.5	33.3	NA	NA	12.3
MW-9	12/11/2013	1.76	2.18	1.81	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	1.03	0.985	NA	ND(<0.3)	NA	NA	NA	NA	2.36	5.66	NA	NA	1.23
MW-10	6/13/2013	7.30	3.19	0.331	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	0.584	NA	ND(<0.3)	NA	NA	NA	NA	96.6	1.62	NA	NA	ND(<1.0)
MW-10	9/9/2013	166	59.0	10.9	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.70	16.8	NA	ND(<0.3)	NA	NA	NA	NA	846	53.5	NA	NA	3.09
MW-10	12/11/2013	102	22.4	9.51	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.52	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	55.1	38.1	NA	NA	3.67
COB_GW1_022514[2]	2/25/2014	380	32	360	240	140	40	62	200	NA	NA	180	18	NA	NA	NA	500	450	NA	52	NA	850	NA	NA	2,200	1,200	NA	NA	660

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013 was utilized to evaluate groundwater quality.

2 - GW1 sample was collected from groundwater within the excavation below Oil Tank 1 (west tank) and the Reservoir.

TABLE 6

Summary of VOC and TPH Analytical Results in Non-Aqueous Phase Liquids

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
SPWATER[4]	11/27/2012	3,170	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
NPWATER[5]	11/28/2012	4,000	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
HOLDER[6]	12/6/2012	2,400,000	ND(<10,000)	ND(<50,000)	ND<20,000	ND(<10,000)	ND(<10,000)	150,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<50,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)
RH-EX-FLUID-01[7]	3/25/2013	405	ND(<10)	ND(<50)	ND(<20)	ND(<10)	51.8	471	92.8	1,770	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	493	ND(<10)	522	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
RH-EX-FLUID-02[7]	3/25/2013	114	ND(<10)	ND(<50)	ND(<20)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
COB_FluidSample_013114[8]	1/31/2014	3,300	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.94	0.53	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
COB_RH-FLUID_021314[9]	2/13/2014	3,300	ND(<10)	NA	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<50)	ND(<25)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	3.0	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
COB_RHFLUID2_021414[10]	2/14/2014	12,000	ND(<500)	NA	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<2,500)	ND(<1,300)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)

Sample Location	Sample Date	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	TPH-DRO (EPA method 8015
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
SPWATER[4]	11/27/2012	ND(<1.0)	ND(<1.0)	1,480	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	69.9	ND(<5.0)	9.75	ND(<5.0)	ND(<5.0)	NA	17	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2,980	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	65.8	ND(<1.0)	ND(<1.0)	1,150	532	NA	NA
NPWATER[5]	11/28/2012	ND(<1.0)	ND(<1.0)	1,390	ND(<1.0)	ND(<1.0)	23.7	ND(<10)	64.9	ND(<5.0)	10.2	ND(<5.0)	ND(<5.0)	15,800	21.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4,040	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	60.4	99	ND(<1.0)	1,310	610	NA	NA
HOLDER[6]	12/6/2012	ND(<10,000)	ND(<10,000)	4,500,000	ND(<10,000)	ND(<10,000)	ND<200,000	NA	480,000	NA	390,000	ND(<50,000)	ND(<50,000)	60,000,000	210,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	4,300,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	38,000	ND(<10,000)	ND(<10,000)	490,000	810,000	ND(<10,000)	3,500,000	1,500,000	120,000,000	477,000,000
RH-EX-FLUID-01[7]	3/25/2013	ND(<10)	ND(<10)	1,180	ND(<10)	ND(<10)	ND(<200)	ND(<100)	1,860	ND(<50)	1,020	1,400	ND(<50)	NA	1260	565	76.9	ND(<10)	ND(<10)	997	ND(<10)	ND(<10)	62.9	ND(<10)	ND(<10)	ND(<10)	ND(<10)	1,980	5,760	ND(<10)	6,090	144	NA	NA
RH-EX-FLUID-02[7]	3/25/2013	ND(<10)	ND(<10)	51.8	ND(<10)	ND(<10)	ND(<200)	ND(<100)	ND(<10)	ND(<50)	ND(<10)	154	ND(<50)	NA	ND(<10)	10.2	ND(<10)	ND(<10)	ND(<10)	89.6	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	44.7	ND(<10)	133	112	NA	NA
COB_FluidSample_013114[8]	1/31/2014	ND(<1.0)	ND(<1.0)	560	ND(<1.0)	NA	NA	NA	21	ND(<1.0)	4.8	ND(<5.0)	ND(<1.0)	2,400	8.1	20	ND(<1.0)	ND(<1.0)	ND(<1.0)	1,800	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	53	150	ND(<1.0)	NA	1,000[3]	NA	NA
COB_RH-FLUID_021314[9]	2/13/2014	ND(<10)	ND(<10)	940	ND(<10)	NA	NA	NA	45	ND(<10)	17	ND(<50)	ND(<10)	5,200	10	15	ND(<10)	ND(<10)	7.6	1,900	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<25)	61	170	ND(<10)	NA	1,000[3]	NA	NA
COB_RHFLUID2_021414[10]	2/14/2014	ND(<500)	ND(<500)	4,000	ND(<500)	NA	NA	NA	270	ND(<500)	200	ND(<2,500)	ND(<500)	34,000	ND(<500)	380	ND(<500)	ND(<500)	ND(<500)	8,100	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<1,300)	520	1,200	ND(<500)	NA	4,600[3]	NA	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013 was utilized to evaluate groundwater quality.
2 - Methyl tert-butyl ether (MTBE) is not listed in the CDPHE groundwater standards, so the Colorado Department of Labor and Employment (CDLE), Division of Oil and Public Safety, Storage Tank Regulations 7 C.C.R. 1101-14, Effective: January 1, 2009, Tier 1 Risk Based Screening Level is listed was utilized to evaluate MTBE in groundwater.
3 - Reported as Total Xylenes.
4 - SPWATER sample was collected from fluid observed in the southern 12-inch process pipe during the 2012 investigation.
5 - NPWATER sample was collected from fluid observed in the northern 12-inch process pipe during the 2012 investigation.
6 - HOLDER sample was collected from the fluid observed in the underground vault structure below the Main Holder foundation during the 2012 investigation.
7 - RH-EX-FLUID-01 and RH-EX-FLUID-02 samples were collected from fluid observed in the March 2013 excavation adjacent to east side of the relief holder.
8 - COB_FluidSample_013114 was collected from perched fluid observed above the groundwater level and within the reservoir structure located near the oil tanks on the Plaza side of the property during 2014 remediation activities.
9 - COB_RH-FLUID_021314 sample was collected from perched fluid observed above the groundwater level and within the Relief Holder during 2014 remediation activities.
10 - COB_RHFLUID2_021414 sample was collected from fluid observed within the Relief Holder during 2014 remediation activities.

Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.
Cells highlighted in **BLUE** indicate an exceedance of the respective CDPHE or the CDLE groundwater standard.
ND - Not detected at or above the reporting limit.
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.

TABLE 7

Summary of SVOC Analytical Results in Non-Aqueous Phase Liquids

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (VOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
Colorado Basic Standards for Groundwater[1]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
SPWATER[3]	11/27/2012	19.5	144	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<30)	ND(<20)	ND(<10)	ND(<10)	ND(<10)	26.9	ND(<10)	ND(<10)	39.1	ND(<10)	15.3	ND(<10)	1,190	29.7	126	7,210	39.1	ND(<10)	ND(<20)	ND(<10)
NPWATER[4]	11/28/2012	40.2	258	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	334	147	ND(<10)	ND(<10)	79.3	130	41.2	ND(<10)	72.3	11.4	ND(<10)	49.5	109	149	229	13,300	ND(<10)	205	26.4	ND(<10)
HOLDER[2][5]	12/6/2012	2,140,000	12,000,000	3,630,000	3,000,000	1,410,000	1,910,000	226,000	2,240,000	NA	NA	2,850,000	ND(<3,300)	NA	NA	NA	3,260,000	8,590,000	NA	452,000	NA	NA	NA	NA	79,000,000	12,500,000	NA	NA	8,180,000
RH-EX-FLUID-01[6]	3/25/2013	8,260	4,570	5,580	2,880	ND(<1,000)	ND(<1,000)	ND(<1,000)	1,050	NA	NA	2,450	ND(<1,000)	NA	NA	NA	5,210	6,430	NA	ND(<1,500)	NA	NA	NA	NA	45,700	21,300	NA	NA	9,710
RH-EX-FLUID-02[6]	3/25/2013	59,800	43,400	44,000	19,800	ND(<20,000)	ND(<20,000)	ND(<20,000)	ND(<20,000)	NA	NA	ND(<20,000)	ND(<20,000)	NA	NA	NA	38,400	49,400	NA	ND(<30,000)	NA	NA	NA	NA	390,000	161,000	NA	NA	ND(<100,000)
COB_FluidSample_013114[7]	1/31/2014	38	280	35	9.9	4.7	1.4	2.6	6.2	NA	NA	9.5	0.72	NA	NA	NA	19	81	NA	1.9	NA	680	NA	NA	2,900	120	NA	NA	32
COB_RH-FLUID_021314[8]	2/13/2014	230	39	16	4.5	3.0	0.81	1.5	3.4	NA	NA	4.4	0.47	NA	NA	NA	9.8	70	NA	1.2	NA	1,100	NA	NA	6,100	70	NA	NA	12
COB_RHFLUID2_021414[9]	2/14/2014	18,000	7,800	7,000	4,100	1,900	830	900	2,700	NA	NA	3,800	400	NA	NA	NA	6,100	11,000	NA	770	NA	57,000	NA	NA	110,000	23,000	NA	NA	7,900

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013.

2 - The reporting limit for analytes have been raised to account for matrix interference.

3 - SPWATER sample was collected from fluid observed in the southern 12-inch process pipe. Laboratory reported the full 8270D list; constituents reported that are not included on this table were not detected above laboratory limits.

4 - NPWATER sample was collected from fluid observed in the northern 12-inch process pipe. Laboratory reported the full 8270D list; constituents reported that are not included on this table were not detected above laboratory limits.

5 - HOLDER sample was collected from the fluids observed in the underground vault structure below the Main Holder foundation.

6 - RH-EX-FLUID-01 and RH-EX-FLUID-02 samples were collected from fluid observed in the March 2013 excavation adjacent to east side of the Relief Holder.

7 - COB_FluidSample_013114 was collected from perched fluid observed above the groundwater level and within the reservoir structure located near the oil tanks on the Plaza side of the property during 2014 remediation activities.

8 - COB_RH-FLUID_021314 sample was collected from perched fluid observed above the groundwater level and within the Relief Holder during 2014 remediation activities.

9 - COB_RHFLUID2_021414 sample was collected from fluid observed within the Relief Holder during 2014 remediation activities.

Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM.

Cells highlighted in **BLUE** indicate an exceedance of the CDPHE groundwater standards.

ND - Not detected at or above the reporting limit.

TABLE 8
Summary of Metals and RCI Analytical Results in Non-Aqueous Phase Liquids
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (RCRA Metals by 7470A/6010B); concentrations are reported in micrograms per liter (ug/L)								Reactive CN (by 9012B) [in milligrams per liter (mg/L)]	Reactive Sulf. (by 9034/90) [in milligrams per liter (mg/L)]	Corrosivity (by 9040C)	Flashpoint (by D93/101)
		Mercury (by 7470A)	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver				
EPA Hazardous Waste Criteria[1]													<140 °F
COB_RH-FLUID_021214[2]	2/12/2014	NA	NA	NA	NA	NA	NA	NA	NA	ND (<0.125)	ND(<25)	Non-Corr	>170°F
COB_RHFLUID2_021414[3]	2/14/2014	26	4,700	52,000	810	9,300	100,000	1,400	ND(<450)	ND (<0.125)	ND(<25)	Non-Corr	110°F

Notes:

1 - Environmental Protection Agency's (EPA's) hazardous waste characteristics regulation per the Code of Federal Regulations (CFR) Title 40: Protection of Environment Part 261 Subpart C - 261.21 Characteristic of ignitability, which states a liquid with a flash point <140°F has ignitable characteristics. The flashpoint of the liquid sample COB_RHFLUID2_021414 was <140 °F.

2 - COB_RH-FLUID_021214 sample was collected from perched fluid observed above the groundwater level and within the Relief Holder during 2014 remediation activities.

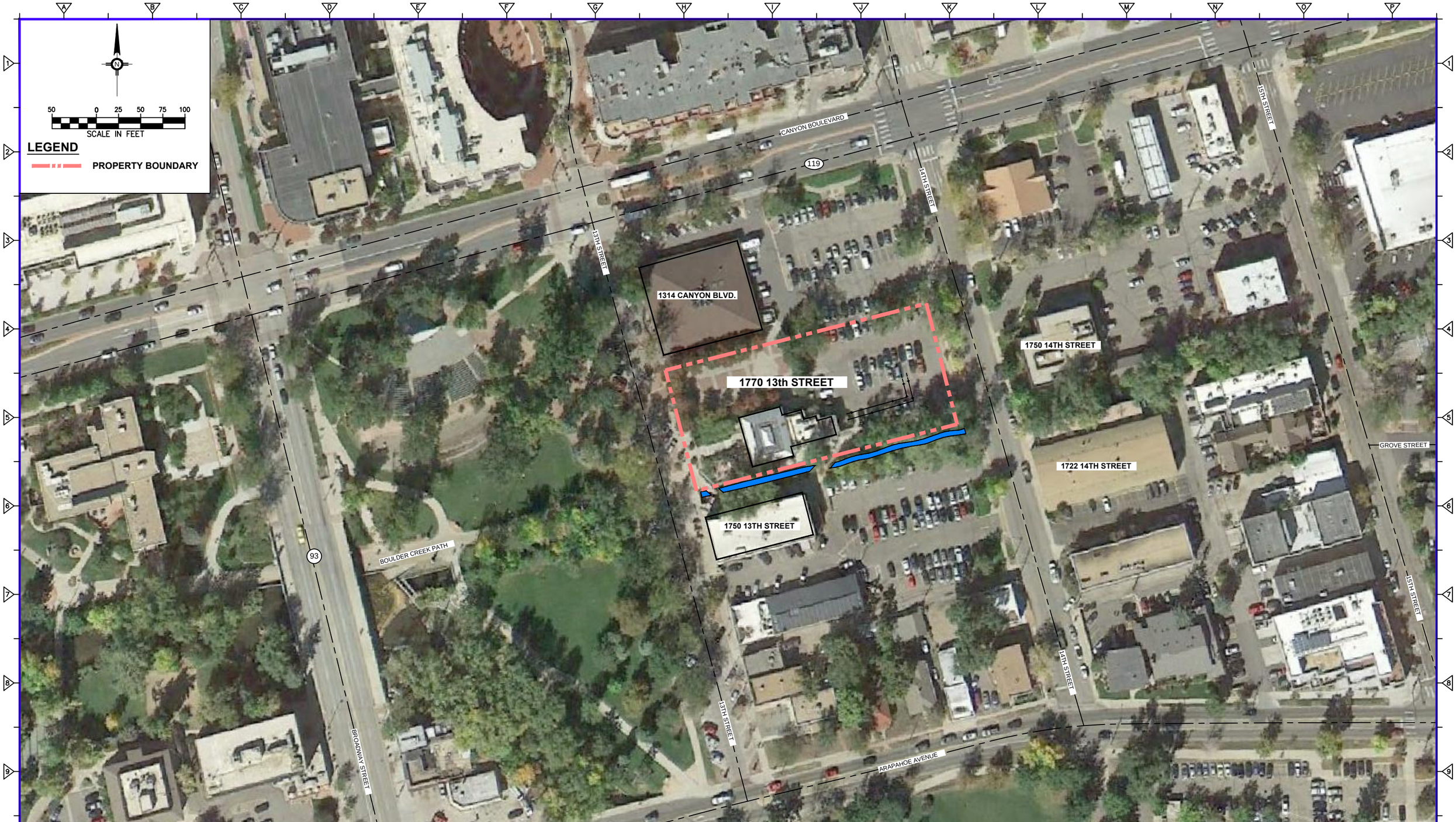
3 - COB_RHFLUID2_021414 sample was collected from fluid observed within the Relief Holder during 2014 remediation activities.

Cells highlighted in **BLUE** indicate an exceedance of the EPA Hazardous Waste Criteria.

ND - Not detected at or above the reporting limit.

NA - Not analyzed

FIGURES



No.	Date	Revisions	By	Ckd

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Project Manager's name: CRAIG LUGOWSKI
Date: July 28, 2014
State: COLORADO
Date Signed:
Project Mgr.:
Designed by: MM
Drawn by: CM
Checked by:

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

SITE LOCATION MAP
2011 AERIAL IMAGE

USA ENVIRONMENT Project No .: 5047
Drawing Name: Boulder Gas Plant_SiteMap.dwg

FIGURE 1

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_SiteMap.dwg

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Date: July 28, 2014
State: CO | Date Signed | Project Mgr.
Designed by: MM | Drawn by: ET | Checked by

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

2014 SITE MAP WITH CONFIRMED LOCATIONS OF CERTAIN HISTORICAL MGP INFRASTRUCTURE

USA ENVIRONMENT Project No .: 5047
Drawing Name: Boulder Gas Plant_140523.dwg
FIGURE 2

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140523.dwg

MONITORING WELL MW-2 LOCATED APPROXIMATELY 22 FEET NORTH OF PROPERTY BOUNDARY

COKE BIN

COAL BIN

BOILER

BOILER

MW-1

PROCESS TANKS

PROCESS BUILDING

PURIFIER

RESERVOIR

OIL TANK

OIL TANK

MW-9

OVERHEAD LINE

RELIEF HOLDER

MW-8

MW-3

MAIN HOLDER

MW-7

SIDE WALK

8" - GAS LINE

6" - GAS LINE

CONDENSER

EW-1

MW-10

MW-5

BOULDER TEAHOUSE
1770 13th STREET

12" - PROCESS LINE

12" - PROCESS LINE

6" - NATURAL GAS LINE

MW-6

BIKE PATH

BOULDER & LEFT HAND DITCH

BOULDER & LEFT HAND DITCH

BIKE PATH

MW-4

5340 5335 5330 5325 5320

10 0 5 10 15 20

SCALE IN FEET

LEGEND

MW-1 MONITORING WELL LOCATIONS

MW-9 ABANDONED MONITORING WELL LOCATIONS

EW-1 HORIZONTAL EXTRACTION WELL

PROPERTY BOUNDARY

BUILDING OR STRUCTURE

EXISTING ROADS AND SIDEWALK

EDGE OF EXCAVATION

NOTE: EXCAVATION CONTOUR LINES SHOWN IN ONE-FOOT INTERVALS WITH ELEVATIONS SHOWN ON 5-FOOT INTERVALS

No.	Date	Revisions	By	Ckd

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Project Manager's name: CRAIG LUGOWSKI

Date: July 28, 2014

State	Date Signed	Project Mgr.
CO		
Designed by MM	Drawn by ET	Checked by

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

2014 EXCAVATION LIMITS

USA ENVIRONMENT Project No . 5047

Drawing Name: Boulder Gas Plant_140523.dwg

FIGURE 3

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140523.dwg

MONITORING WELL MW-2 LOCATED APPROXIMATELY 22 FEET NORTH OF PROPERTY BOUNDARY

COKE BIN
COAL BIN
BOILER
BOILER
MW-1
PROCESS TANKS
PROCESS BUILDING
TANK 2
PURIFIER
OIL TANK
OIL TANK
MW-9
OVERHEAD LINE
SS15
SS16
SS7
SS8
SS18
SS10
BR-1
RELIEF HOLDER
SS17
SS9
MW-8
MW-3
MAIN HOLDER
MW-7
SIDE WALK
SS14
SS6
OT1
OT2
SS4
CS
SS12
SS11
8" - GAS LINE
6" - GAS LINE
CONDENSER
RESER.
SS13
EW-1
SS19
MW-10
MW-5
BOULDER TEAHOUSE
1770 13th STREET
12" - PROCESS LINE
12" - PROCESS LINE
6" - NATURAL GAS LINE
MW-6
BIKE PATH
BOULDER & LEFT HAND DITCH
BOULDER & LEFT HAND DITCH
BIKE PATH
MW-4

10 0 5 10 15 20
SCALE IN FEET

LEGEND

- MW-1 — MONITORING WELL LOCATIONS
- MW-9 — ABANDONED MONITORING WELL LOCATIONS
- EW-1 — HORIZONTAL EXTRACTION WELL
- PROPERTY BOUNDARY
- BUILDING OR STRUCTURE
- EXISTING ROADS AND SIDEWALK
- EDGE OF EXCAVATION
- GRAB SOIL SAMPLE LOCATIONS

NOTE: EXCAVATION CONTOUR LINES SHOWN IN ONE-FOOT INTERVALS WITH ELEVATIONS SHOWN ON 5-FOOT INTERVALS

No.	Date	Revisions	By	Ckd

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Project Manager's name: CRAIG LUGOWSKI
Date: July 28, 2014
State: CO | Date Signed | Project Mgr.
Designed by: MM | Drawn by: ET | Checked by

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

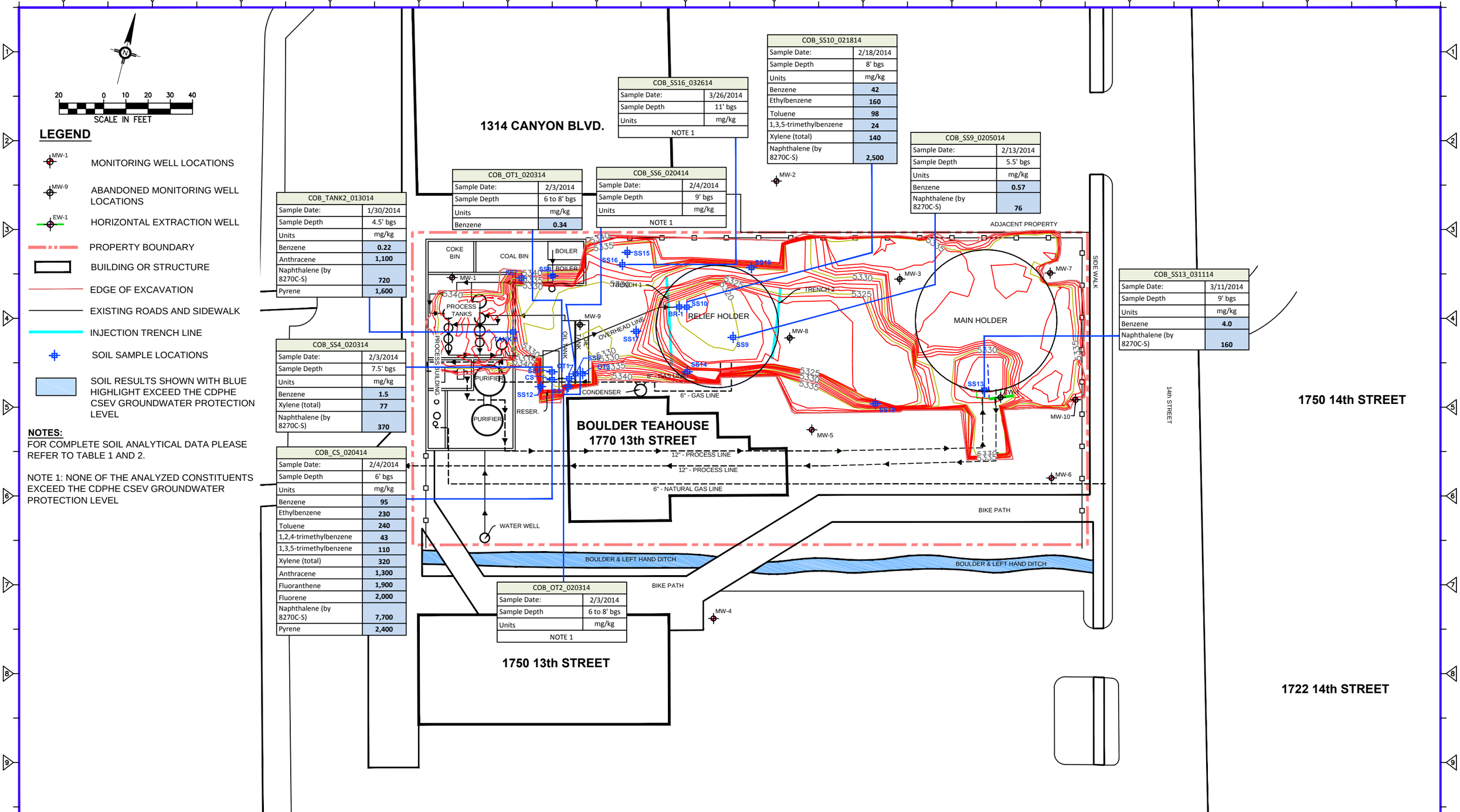
13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

SOIL SAMPLE LOCATIONS WITH EXCAVATION LIMITS (2014)

USA ENVIRONMENT Project No.: 5047
Drawing Name: Boulder Gas Plant_140523.dwg

FIGURE 4

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140523.dwg



COB_TANK2_013014	
Sample Date:	1/30/2014
Sample Depth	4.5' bgs
Units	mg/kg
Benzene	**0.22**
Anthracene	**1,100**
Naphthalene (by 8270C-S)	**720**
Pyrene	**1,600**

COB_SS4_020314	
Sample Date:	2/3/2014
Sample Depth	7.5' bgs
Units	mg/kg
Benzene	**1.5**
Xylene (total)	**77**
Naphthalene (by 8270C-S)	**370**

COB_CS_020414	
Sample Date:	2/4/2014
Sample Depth	6' bgs
Units	mg/kg
Benzene	**95**
Ethylbenzene	**230**
Toluene	**240**
1,2,4-trimethylbenzene	**43**
1,3,5-trimethylbenzene	**110**
Xylene (total)	**320**
Anthracene	**1,300**
Fluoranthene	**1,900**
Fluorene	**2,000**
Naphthalene (by 8270C-S)	**7,700**
Pyrene	**2,400**

COB_OT1_020314	
Sample Date:	2/3/2014
Sample Depth	6 to 8' bgs
Units	mg/kg
Benzene	**0.34**

COB_SS6_020414	
Sample Date:	2/4/2014
Sample Depth	9' bgs
Units	mg/kg
NOTE 1	

COB_SS16_032614	
Sample Date:	3/26/2014
Sample Depth	11' bgs
Units	mg/kg
NOTE 1	

COB_SS10_021814	
Sample Date:	2/18/2014
Sample Depth	8' bgs
Units	mg/kg
Benzene	**42**
Ethylbenzene	**160**
Toluene	**98**
1,3,5-trimethylbenzene	**24**
Xylene (total)	**140**
Naphthalene (by 8270C-S)	**2,500**

COB_SS9_0205014	
Sample Date:	2/13/2014
Sample Depth	5.5' bgs
Units	mg/kg
Benzene	**0.57**
Naphthalene (by 8270C-S)	**76**

COB_SS13_031114	
Sample Date:	3/11/2014
Sample Depth	9' bgs
Units	mg/kg
Benzene	**4.0**
Naphthalene (by 8270C-S)	**160**

COB_OT2_020314	
Sample Date:	2/3/2014
Sample Depth	6 to 8' bgs
Units	mg/kg
NOTE 1	

No.	Date	Revisions	By	Ckd

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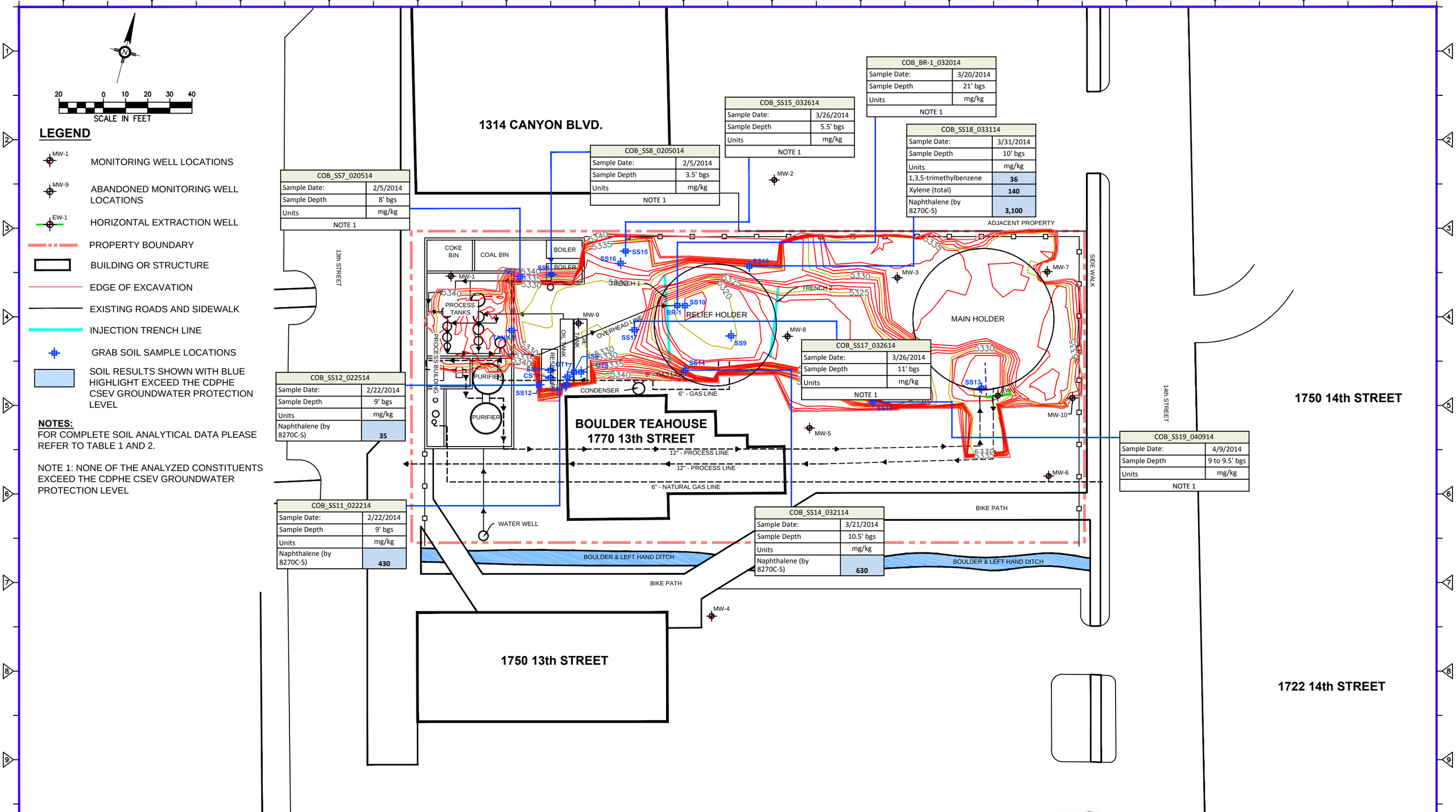
City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

VOC AND SVOC CONCENTRATIONS FOR REMOVED SOIL SAMPLES (2014)

USA ENVIRONMENT Project No.: 5047
Drawing Name: Boulder Gas Plant_140714.dwg
FIGURE 5

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140714.dwg



COB_SS7_020514	
Sample Date:	2/5/2014
Sample Depth	8' bgs
Units	mg/kg
NOTE 1	

COB_SS8_0205014	
Sample Date:	2/5/2014
Sample Depth	3.5' bgs
Units	mg/kg
NOTE 1	

COB_SS15_032614	
Sample Date:	3/26/2014
Sample Depth	5.5' bgs
Units	mg/kg
NOTE 1	

COB_BR-1_032014	
Sample Date:	3/20/2014
Sample Depth	21' bgs
Units	mg/kg
NOTE 1	

COB_SS18_033114	
Sample Date:	3/31/2014
Sample Depth	10' bgs
Units	mg/kg
1,3,5-trimethylbenzene	**36**
Xylene (total)	**140**
Naphthalene (by 8270C-S)	**3,100**

COB_SS12_022514	
Sample Date:	2/22/2014
Sample Depth	9' bgs
Units	mg/kg
Naphthalene (by 8270C-S)	**35**

COB_SS11_022214	
Sample Date:	2/22/2014
Sample Depth	9' bgs
Units	mg/kg
Naphthalene (by 8270C-S)	**430**

COB_SS17_032614	
Sample Date:	3/26/2014
Sample Depth	11' bgs
Units	mg/kg
NOTE 1	

COB_SS14_032114	
Sample Date:	3/21/2014
Sample Depth	10.5' bgs
Units	mg/kg
Naphthalene (by 8270C-S)	**630**

COB_SS19_040914	
Sample Date:	4/9/2014
Sample Depth	9 to 9.5' bgs
Units	mg/kg
NOTE 1	

No.	Date	Revisions	By	Ckd

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17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

VOC AND SVOC CONCENTRATIONS FOR SAMPLES OF SOIL LEFT IN-PLACE (2014)

USA ENVIRONMENT Project No .: 5047
Drawing Name: Boulder Gas Plant_140714.dwg

FIGURE 6

Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140714.dwg

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17301 WEST COLFAX AVENUE
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City of Boulder

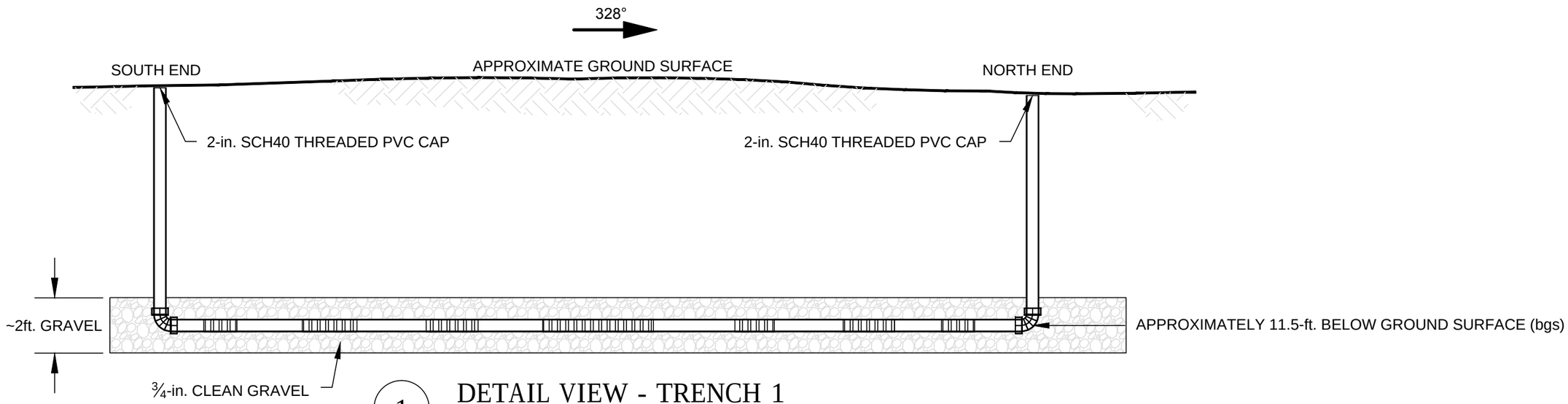
13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

PROPOSED MONITORING WELL LOCATIONS

USA ENVIRONMENT Project No .: 5047
Drawing Name: Boulder Gas Plant_140714_Figure 7.dwg

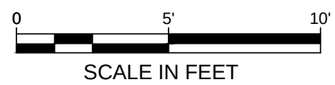
FIGURE 7

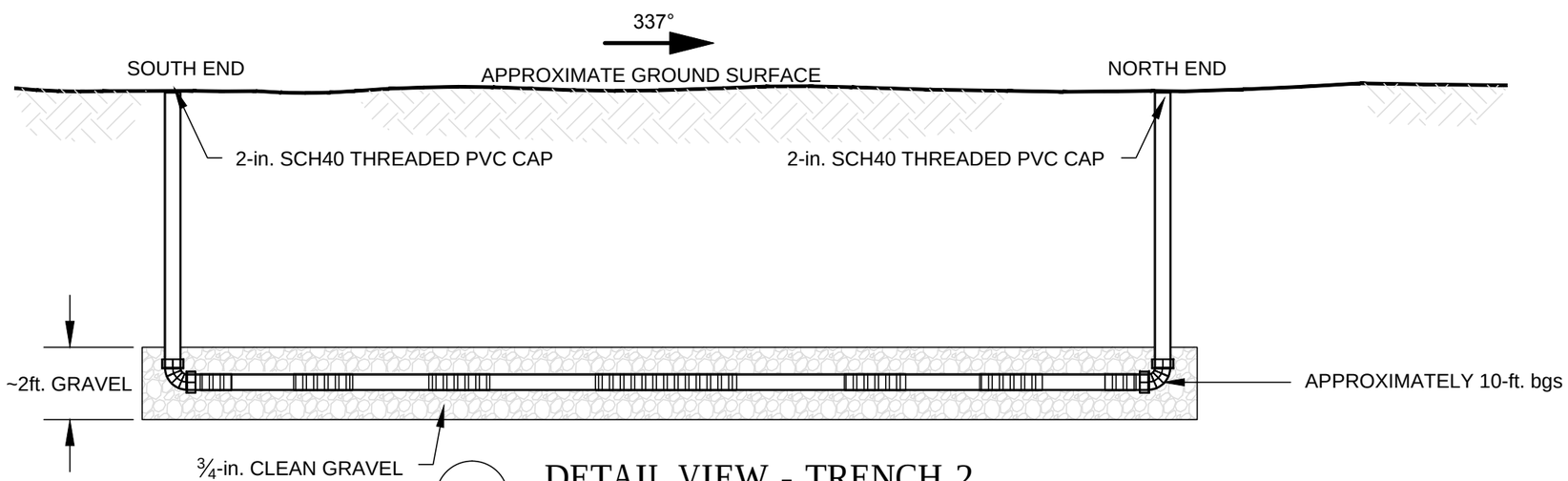
Z:\PROJECTS\B\City of Boulder\Figures\2014 remediation summary\Boulder Gas Plant_140714_Figure 7.dwg



1 DETAIL VIEW - TRENCH 1

(WEST SIDE OF FORMER RELIEF HOLDER-REFER TO FIGURE 1)





2 DETAIL VIEW - TRENCH 2

(EAST SIDE OF FORMER RELIEF HOLDER-REFER TO FIGURE 1)

LEGEND:

- 2-in. SCH40 BLANK PVC PIPE
- 2-in. SCH40 0.030-in. SLOTTED PVC PIPE
- ¾-in. CLEAN GRAVEL
- in. = INCHES
- ft. = FEET

No.	Date	Revisions	By	Ckd

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Project Manager's name: CRAIG LUGOWSKI
Date: July 28, 2014
State: CO | Date Signed | Project Mgr.
Designed by: MM | Drawn by: ET | Checked by

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17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

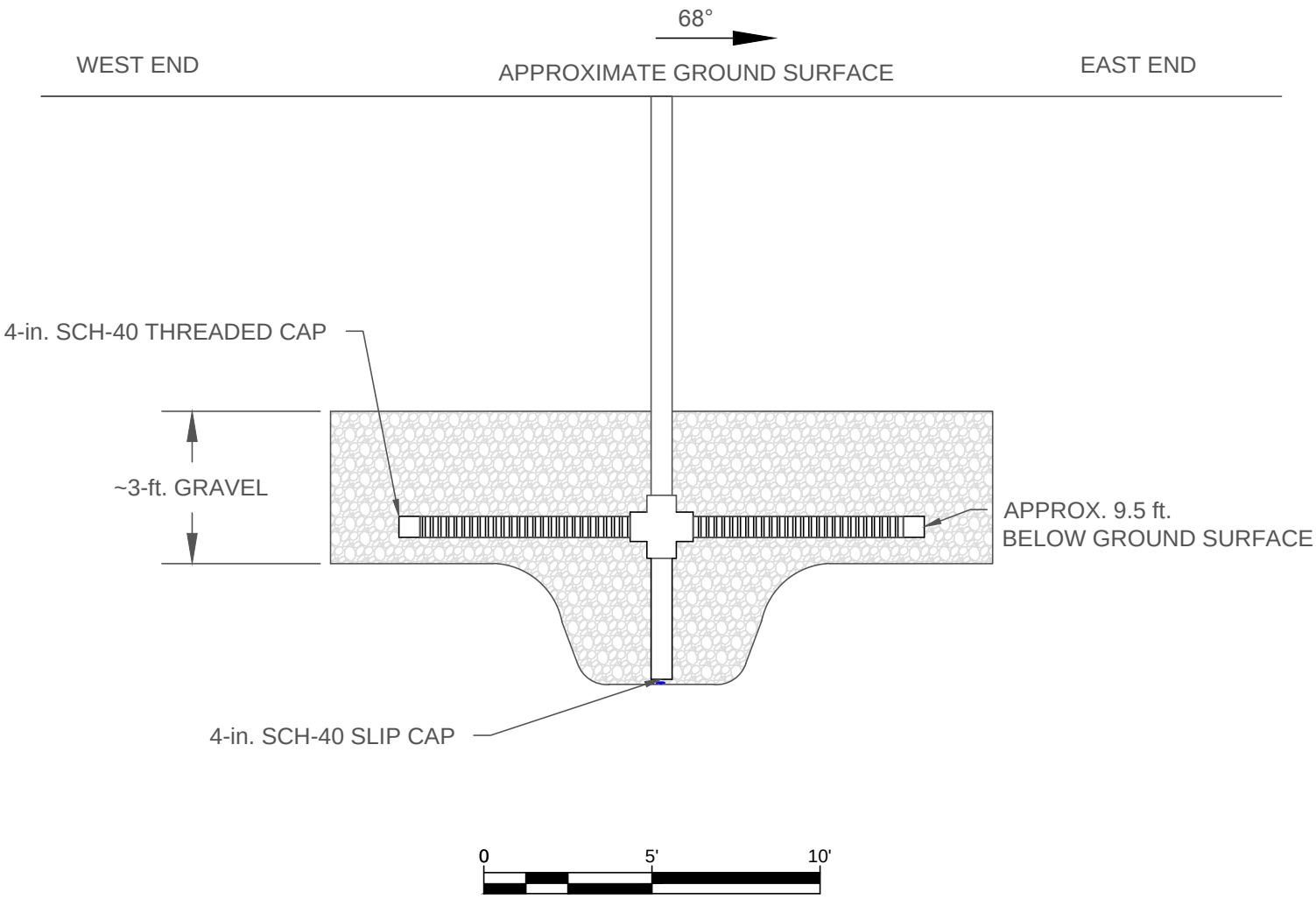
13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

HORIZONTAL TRENCH AND INJECTION PIPE CONSTRUCTION DIAGRAMS

USA ENVIRONMENT Project No .: 5047
Drawing Name: Piping Cross Section.dwg

FIGURE 8

Z:\PROJECTS\B\City of Boulder\Figures\2014 Groundwater Monitoring Wells Locations\piping cross section.dwg



LEGEND:

4-in. SCH40 BLANK PVC PIPE

4-in. SCH40 0.020-in. SLOTTED PVC PIPE

¾-in. CLEAN GRAVEL

Project Manager's name: CRAIG LUGOWSKI	USA ENVIRONMENT, L.P. A Full Service Environmental Company 17301 WEST COLFAX AVENUE SUITE 152 GOLDEN CO 80401	13TH STREET PLAZA 1770 13TH ST. BOULDER, CO	**HORIZONTAL EXTRACTION WELL CONSTRUCTION DIAGRAM**	USA ENVIRONMENT Project No . 5047
Date: June 3, 2014				Drawing Name: Horizontal Extraction Well Construction Diagram.dwg
State: CO / Date Signed: / Project Mgr.: CL				SHEET NUMBER: FIGURE 9
Designed by: MM / Drawn by: JMB / Checked by:				

APPENDICES

APPENDIX A

Photograph Log

PROCESS AREA PHOTOGRAPHS

Photo 1 - View to the south of a brick wall encountered during the excavation in the Process Area within the approximate location of former building.

Photo 2 - Removal of concrete footer from Process Area during excavation activities.

Photo 3 - Partial tank found in Process Area, filled with soil and debris. No staining observed in soils below tank.

Photo 4 - Partial tank encountered in Process Area depicting stained bricks removed from the inside of the tank. Soil sample COB_Tank2_013014 was collected from stained soil inside the tank.

MAIN HOLDER AREA (SHALLOW) PHOTOGRAPHS

Photo 5 - View to the west of the northern edge Main Holder foundation.

Photo 6 - View to the southwest of excavation activities at the Main Holder and stained soils and debris observed above the Main Holder foundation.

Photo 7 - View of dark stained soils between approximately 0 and 3.5 feet (ft) below ground surface (bgs) located near the southeast side of the Main Holder foundation and the parking lot storm drain location.

Photo 8 - View of the south side of the Main Holder showing black stained soils (left) located adjacent to the clean backfill (right) from the 2012 investigation program.

Photo Log - Shallow Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 9 - View to the southwest of 6-inch outside diameter steel pipe encountered to the southeast of the sub-grade concrete pipe chase structure.

Photo 10 - Removed 6-inch outside diameter steel pipe, which was observed to be weathered, rusted, bent and filled with soil.

Photo 11 - View to the north of excavation and removal of the northeast side of the Main Holder concrete foundation.

OIL TANKS/RESERVOIR AREA PHOTOGRAPHS

Photo 12 - View to the southeast depicting one of the two underground storage tanks (USTs) known as the Oil Tanks with stained soils observed beneath the partially removed concrete Reservoir.

Photo 13 - View to the south-southeast showing stained soils removed from the inside of the eastern Oil Tank.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 14 - View inside of the western Oil Tank showing old piping and stained soils observed within the UST.

Photo 15 - View to the northwest depicting removal of the northern portion of the western Oil Tank.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 16 - View to the south depicting the eastern Oil Tank (left) and a portion of the western Oil Tank (center) and Reservoir (right).

Photo 17 - View of the north end of the eastern Oil Tank depicting stained soils observed beneath the UST.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 18 - View of the contents inside the concrete Reservoir structure including bricks, debris, soil and sludge.

Photo 19 - View to the south depicting stained soils and discontinuous NAPL observed on the groundwater surface located below the location of the Oil Tanks and Reservoir structure.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 20 - Deeper excavation and dewatering activities into groundwater table at Reservoir and Oil Tanks area.

Photo 21 - Various holes and rust observed on the steel tank wall of the eastern Oil Tank.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 22 - View of stained soils and discontinuous NAPL observed on groundwater under the Reservoir and Oil Tanks.

Photo 23 - View of the western sidewall during excavation of the Reservoir. Reservoir located on the left with stained soils observed below the containment structure and on the western sidewall.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 24 - Slot excavation efforts for the Oil Tanks and Reservoir located under sidewalk, with the Dushanbe Teahouse in the background.

Photo 25 - View to the south after removal of the Reservoir depicting stained soils left in-place on the southernmost sidewall located under the Teahouse patio area.

RELIEF HOLDER AREA PHOTOGRAPHS

Photo 26 - View of the western edge of the curved sub-grade brick and mortar wall of the Relief Holder.

Photo 27 - View depicting removal of shallow stained soils from within the western edge of the Relief Holder.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 28 - View of black sludge/NAPL liquids encountered intermixed with soils, and metal observed along the interior of the Relief Holder wall bottom 3-feet.

Photo 29 - View of excavation activities within the Relief Holder depicting stained soils, various steel pipes encountered, and pieces of the west side of the Relief Holder wall.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 30 - View to the south of excavation activities inside the Relief Holder depicting brick debris, stained soils, and black sludge/NAPL liquids.

Photo 31 - View of the north side of the Relief Holder depicting removal of the steel encountered near the bottom 3 feet of the wall.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 32 - View to the west of black sludge/NAPL liquids encountered within the Relief Holder wall.

Photo 33 - Photo of black and oily soils found within the Relief Holder wall at approximately 8 ft bgs. Soil sample COB_SS10_021814 was collected from this soil.

Photo 34 - View to the north of a portion of a brick wall encountered in stained soils, black sludge/NAPL within the Relief Holder.

Photo 35 - View of the demolition activities associated with the western wall of the Relief Holder.

Photo 36 - View of the bottom of the Relief Holder wall on the west side with discontinuous NAPL observed on the adjacent groundwater surface.

Photo 37 - View to the northwest near the east side of the Relief Holder with discontinuous NAPL on top of the groundwater surface subsequent to removal of the floor. Also depicts stained soils on the sidewall left in-place due to utility corridor and inaccessibility.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 38 - View to the north depicting dewatering and NAPL removal activities with absorbent booms during excavation of soils beneath the western portion of the Relief Holder.

Photo 39 - View to the southwest of stained soils and NAPL encountered below the west side of the Relief Holder.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 40 - View of tan/orange weathered bedrock below the west side of the Relief Holder at approximately 21 feet bgs.

Photo 41 - View of the south where Relief Holder wall located beneath the sidewalk and adjacent handicap ramp to the Teahouse where impacted soils were left in-place.

Photo 42 - View the north of the east side of Relief Holder depicting the steel liner encountered near the bottom 3 feet of the interior, stained soils within the Relief Holder and two active utility lines.

Photo 43 - View to the northwest of the eastern portion of the Relief Holder after removal of soil, debris, and portions of the brick and mortar wall have been removed to the concrete floor of the Relief Holder.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 44 - View to the north of the eastern portion of the Relief Holder depicting excavation activities with ongoing dewatering and NAPL removal with absorbent booms and pads.

Photo 45 - View to the south of the deeper excavation activities at the east side of the Relief Holder with staining and discontinuous NAPL observed on groundwater and in soils below the removed floor.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 46 - View southeast depicting stained soils and isolated NAPL areas along the south sidewall of the excavation area to the east of the Relief Holder.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 47 - View to the south showing stained soils on south sidewall of the deeper excavation area located east of the Relief Holder. NAPL was removed using absorbent booms.

Photo 48 - View to the northeast of the deeper excavation located southeast of the Relief Holder depicting isolated areas of staining and NAPL observed on the sidewalls and discontinuous NAPL observed on the groundwater surface.

MAIN HOLDER AREA (DEEPER) PHOTOGRAPHS

Photo 49 - View to the west of the south side of the sub-grade concrete pipe chase structure located below the Main Holder slab. Stained soils are observed on the south sidewall (left).

Photo 50 - View of NAPL seeping out of the concrete located at the contact between the Main Holder slab and the sub-grade concrete pipe chase structure.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 51 - View to the south of the sub-grade concrete pipe chase after removal of the Main Holder foundation. The sub-grade concrete pipe chase structure was observed to contain flow fill from the 2012 activities as well as NAPL and water.

Photo 52 - View of the 12-inch diameter process pipe located in the eastern compartment of the sub-grade concrete pipe chase structure during removal of NAPL and water via vacuum truck.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 53 - View to the south depicting removal of the impacted material from within the sub-grade concrete pipe chase structure.

Photo 54 -View to the south depicting impacted material, water, and NAPL encountered within the sub-grade concrete pipe chase structure.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 55 - View to the southeast of the sub-grade concrete pipe chase during NAPL and water removal activities via vacuum truck.

Photo 56 - View to the south of impacted soils encountered underneath the sub-grade concrete pipe chase structure, with gray stained soils observed near the static groundwater level.

Photo Log – Deeper Excavation Activities

2014 Interim Voluntary Cleanup Remediation Summary Report
1770 13th Street, Boulder, Colorado

Photo 57 - View to the southeast of the deeper excavation beneath the sub-grade concrete pipe chase depicting dewatering activities and discontinuous NAPL on the groundwater surface.

Photo 58 - View to the south of excavation activities to remove the remaining sections of 12-inch process pipes left-in-place during 2012 excavation activities, located south of the sub-grade concrete pipe chase and underneath the active utility corridor.

INJECTION TRENCH (TRENCH-1) PHOTOGRAPHS

Photo 59 - View to the northwest of horizontal injection trench (Trench-1) located on the west side of the Relief Holder prior to placing gravel above the pipe.

Photo 60 - View to the south of injection trench (Trench 1) located on the west side of the Relief Holder.

INJECTION TRENCH (TRENCH-2) PHOTOGRAPHS

Photo 61 - View to the northwest during injection trench (Trench-2) installation located on the east side of the former Relief Holder alignment.

Photo 62 - View to the southwest of the horizontal injection pipe (Trench-2) located on the east side of the Relief Holder, prior to placing gravel above pipe.

EXTRACTION WELL (EW-1) PHOTOGRAPHS

Photo 63 - View to the east of installation activities of the extraction well (EW-1) located at the southeast corner of where the sub-grade concrete pipe chase was located.

Photo 64 - View to the west of the horizontal extraction well (EW-1) installed near the southeast corner of the sub-grade Discontinuous NAPL observed on groundwater surface during installation.

APPENDIX B

Well Abandonment Reports

Form No. GWS-09 6/2006

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us

For Office Use Only

WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. Type or print in black or blue ink. Instructions and plugging standards are on reverse side of form.

Well Permit Number of the well being plugged UNKNOWN **or**
MH File Number MH- _____ **Hole ID #/Name** #3

Individual/Company responsible for plugging and sealing the well:

NAME(S) James Drilling CO

Mailing Address 6235 W 56th Ave

City, St., Zip Arvada CO 80002

Phone (303) 420-5181

Well (Hole) Owner:

NAME(S) City of Boulder Phone (303) 242-8050

Mailing Address, City, St., Zip _____

ACTUAL WELL LOCATION: County Boulder

Property Address, City, St, Zip 1770 13th street Boulder

SW 1/4 of the SW 1/4, Sec. 30, Twp. 1 ☒ N. or ☐ S., Range 70 ☐ E. or ☒ W., 6 P.M.

Distance from Section Lines _____ Ft. From ☐ N. or ☐ S., _____ Ft. From ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:
Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.

Easting 476375 **Northing** 4429536

I (we) report the existing well (hole) was plugged and sealed on the date of 1-17-14 for the following reason(s):

☐ The well was plugged and sealed as required under Well Permit Number _____.

☒ The well was not in use and was plugged and sealed.

☐ Other (please explain) _____

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Cement .65 cu ft	Tremmie	from 0 feet to 14 feet
		from _____ feet to _____ feet
		from _____ feet to _____ feet

Intervals of casing removed/ripped in feet

from _____ feet to _____ feet

Report must be signed by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Signature(s)	Please print the Signer's Name & Title	Date
	Jordan Keaton Vice President	2-6-14

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

Form No. GWS-09 6/2006

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us

For Office Use Only

WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. Type or print in black or blue ink. Instructions and plugging standards are on reverse side of form.

Well Permit Number of the well being plugged 291532 **or**
MH File Number MH- _____ **Hole ID #/Name** #9

Individual/Company responsible for plugging and sealing the well:

NAME(S) JAMES Drilling Co

Mailing Address 6235 W 56th Ave

City, St., Zip Arvada CO

Phone (303) 420-5181

Well (Hole) Owner:

NAME(S) City of Boulder Phone (303) 242-8050

Mailing Address, City, St., Zip _____

ACTUAL WELL LOCATION: County Boulder

Property Address, City, St, Zip 1770 13th street Boulder

SW 1/4 of the SW 1/4, Sec. 30, Twp. 1 ☒ N. or ☐ S., Range 70 ☐ E. or ☒ W., 6 P.M.

Distance from Section Lines _____ Ft. From ☐ N. or ☐ S., _____ Ft. From ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:
Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.

Easting 476334 **Northing** 4429528

I (we) report the existing well (hole) was plugged and sealed on the date of 1-17-14 for the following reason(s):

☐ The well was plugged and sealed as required under Well Permit Number _____.

☒ The well was not in use and was plugged and sealed.

☐ Other (please explain) _____

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Cement 175 cu ft	Tremmie	from 0 feet to 16 feet
		from _____ feet to _____ feet
		from _____ feet to _____ feet

Intervals of casing removed/ripped in feet

from _____ feet to _____ feet

Report must be signed by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Signature(s)	Please print the Signer's Name & Title	Date
	Jordan Keaton Vice President	2-6-14

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

Form No. GWS-09 6/2006

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
821 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us

For Office Use Only

WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. Type or print in black or blue ink. Instructions and plugging standards are on reverse side of form.

Well Permit Number of the well being plugged 290362 **or**
MH File Number MH- ~~#8~~ **Hole ID #/Name** #8

Individual/Company responsible for plugging and sealing the well:

NAME(S) James Drilling Co
Mailing Address 6235 W 56th Ave
City, St., Zip Arvada CO 80002
Phone (303) 420-5181

Well (Hole) Owner:

NAME(S) City of Boulder Phone (303) 242-8050
Mailing Address, City, St., Zip 17301 W Colfax Ave #152

ACTUAL WELL LOCATION: County Boulder
Property Address, City, St, Zip 1770 13th street Boulder
SE 1/4 of the SW 1/4, Sec. 30, Twp. 1 ☒ N. or ☐ S., Range 70 ☐ E. or ☒ W., 6 P.M.

Distance from Section Lines _____ Ft. From ☐ N. or ☐ S., _____ Ft. From ☐ E. or ☐ W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____
Optional: GPS well location information in UTM format. You must check GPS unit for required settings as follows:
Format must be UTM, zone 12 ☐ or zone 13 ☒; Units must be meters; Datum must be NAD83; Unit must be set to true north.
Easting 476354 **Northing** 4429534

I (we) report the existing well (hole) was plugged and sealed on the date of 1-17-14 for the following reason(s):
☐ The well was plugged and sealed as required under Well Permit Number _____.
☒ The well was not in use and was plugged and sealed.
☐ Other (please explain) _____

The well was plugged with the following materials placed at the indicated intervals:

Amount and Type of Material	Method of Placement	Interval
Cement [redacted] cu ft .75	Tremmie	from 0 feet to 14 feet
		from _____ feet to _____ feet
		from _____ feet to _____ feet

Intervals of casing removed/ripped in feet

from _____ feet to _____ feet

Report must be signed by person who performed the well plugging work or by the well owner if this person is unknown or not reachable. I (we) have read the statements made herein, know the contents thereof, and that they are true to my (our) knowledge.

Signature(s)	Please print the Signer's Name & Title	Date
	Jordan Keaton Vice President	2-6-14

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement.

APPENDIX C

Non-Hazardous Waste Disposal Manifests/Weight Tickets

(Provided on CD ROM Disk)

APPENDIX D

Hazardous Waste Disposal Manifests/Weight Tickets

Waste Tracking Detail Report

Manifest Dates 2/1/14 TO 3/24/14

CLHB Receiving Facility: **Kimball, NE Facility**

CLHB Generator ID: **BO25283 Boulder City of Boulder CO 80302**

Manifest Number:	004738394FLE	Mnfst. Doc. No:		Gen. Sign. Date:	3/10/2014
Work Order:	D99363740	Generator EPA Id:	COR000229120	Date Recvd:	3/10/2014

Line: 1 **Profile No:** CH765301B **Manifested Cntnrs:** 1 TT **Total Qty:** 2200 G **Inbound Mgt Method Code** H040

Tracking No: **36693132** **Code:** **CCRK** **Wgt:** **16280** **Wgt UOM:** **LBS**

Site	Manifest No	Activity	Activity Date	Final Mgt Method Code
In Inventory			3/24/2014	

CLHB Receiving Facility: **Kimball, NE Facility**

Manifest Number:	007500190FLE	Mnfst. Doc. No:		Gen. Sign. Date:	3/13/2014
Work Order:	8L9426506	Generator EPA Id:	COR000229120	Date Recvd:	3/13/2014

Line: 1 **Profile No:** CH765301B **Manifested Cntnrs:** 1 TT **Total Qty:** 1300 G **Inbound Mgt Method Code** H040

Tracking No: **36761255** **Code:** **CCRK** **Wgt:** **10560** **Wgt UOM:** **LBS**

Site	Manifest No	Activity	Activity Date	Final Mgt Method Code
In Inventory			3/24/2014	

B140335

D99363740 SC PPW 12/11/2013

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COR000229120
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 004738394 FLE

5. Generator's Name and Mailing Address
Boulder City of
1770 13th Street
Boulder, CO 80302
Generator's Phone: (509)438-6032

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Env Services Inc
2247 South Highway 71
Kimball, NE 69145
Facility's Phone: (308)235-4012
U.S. EPA ID Number: NED981723513

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (OIL AND WATER), 3, PG III	01	TT	EST 7200	G	D001	F003	F005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1_CH765301B ERG#128

3119

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Glenn Marfee — Signature: Glenn Marfee — Month 3 Day 10 Year 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kim E Witzki — Signature: Kim E Witzki — Month 3 Day 10 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EPHREM J. GILLMING — Signature: [signature] — Month 03 Day 10 Year 14

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors Env Services Inc
2247 South Highway 71
Kimball, NE 69145
308-235-4012

03/10/2014

	UOM	Time In	Time Out
GROSS	**54400 LBS**		
TARE	**38120 LBS**		
NET	**16280 LBS**		

Container # or Fleet #	
Load #	B1403035
Manifest #	004738394FLE
Sales Order #	D99363740
Profile #	CH765301B
Tracking #	36693132

Boulder City of
1770 13th Street
Boulder, CO 80302

CR	
FS	
OFFC	

Clean Harbors Env Services Inc
2247 South Highway 71
Kimball NE, 69145
NED981723513
(308) 235-4012

CERTIFICATE OF DISPOSAL

Generator Contact Name:		Sales Order #:	D99363740
Generator Facility Name:	Boulder City of	Date Received:	3/10/2014
Generator Address:	1770 13th Street Boulder, CO 80302		
Generator EPA ID:	COR000229120	Manifest #:	004738394FLE

Line #	Profile/Description	Received Date	Facility
1	CH765301B MGP residual oil	3/10/2014	Kimball, NE Facility

The above described waste, received by Clean Harbors, Inc. pursuant to the manifest identified above, will be treated and/or disposed of by Clean Harbors or another licensed facility approved by Clean Harbors, Inc. in accordance with applicable federal and state laws and regulations.

Any waste received by Clean Harbors and subsequently shipped to another licensed facility for treatment and/or disposal has been or shall be identified as being generated by Clean Harbors, in accordance with 40 CFR 264.71(c).

Name: Paul A. Mello

Title: VP Environmental Applications

Date: Wednesday, July 16, 2014

B1403072

BL9426309-002 SC PPW 12/11/2013

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: COR000229120
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007500190 FLE

5. Generator's Name and Mailing Address
Boulder City of
1770 13th Street
Boulder, CO 80302
(509) 438-6032
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Env Services Inc
2247 South Highway 71
Kimball, NE 69145
Facility's Phone: (308) 235-4012
U.S. EPA ID Number: NED981723513

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
						D001	F003	F005
x	1. UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (OIL AND WATER), 3, PG III	001	TT	1300	G			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH765301B ERG#128

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JOE CASTRO — Signature: — Month 03 Day 13 Year 2014

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michelle Wiggins — Signature: — Month 03 Day 13 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Thomas Clark — Signature: — Month 03 Day 13 Year 14

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

9676125 5

Clean Harbors Env Services Inc
2247 South Highway 71
Kimball, NE 69145
308-235-4012

03/13/2014

		UOM	Time In	Time Out
GROSS	**39860**	**LBS**		
TARE	**29300**	**LBS**		
NET	**10560**	**LBS**		

Container # or Fleet #	4327
Load #	B1403072
Manifest #	007500190FLE
Sales Order #	8L9426309-002
Profile #	CH765301B
Tracking #	36761255

Boulder City of
1770 13th Street
Boulder, CO 80302

Clean Harbors Env Services Inc
2247 South Highway 71
Kimball NE, 69145
NED981723513
(308) 235-4012

CERTIFICATE OF DISPOSAL

Generator Contact Name:		Sales Order #:	8L9426506
Generator Facility Name:	Boulder City of	Date Received:	3/13/2014
Generator Address:	1770 13th Street Boulder, CO 80302		
Generator EPA ID:	COR000229120	Manifest #:	007500190FLE

Line #	Profile/Description	Received Date	Facility
1	CH765301B MGP residual oil	3/13/2014	Kimball, NE Facility

The above described waste, received by Clean Harbors, Inc. pursuant to the manifest identified above, will be treated and/or disposed of by Clean Harbors or another licensed facility approved by Clean Harbors, Inc. in accordance with applicable federal and state laws and regulations.

Any waste received by Clean Harbors and subsequently shipped to another licensed facility for treatment and/or disposal has been or shall be identified as being generated by Clean Harbors, in accordance with 40 CFR 264.71(c).

Name: Paul A. Mello

Title: VP Environmental Applications

Date: Wednesday, July 16, 2014

APPENDIX E

Laboratory Data Reports

(Provided on CD ROM Disk)