



Speedway LLC

May 21, 2020

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Mr. David Singleton, P.G.
Broward County Environmental Protection
& Growth Management Department
1 North University Drive, Suite 203
Plantation, FL 33324

**Re: Limited Scope Remedial Action Plan
Former Speedway No. 6442
900 East Sample Road, Pompano Beach, Florida
FDEP Facility ID No. 06/8502103
Purchase Order No. B64F93**

Dear Mr. Singleton:

Please find enclosed one electronic copy of the *Limited Scope Remedial Action Plan (LSRAP)* as prepared by our consultant, Earth Systems, Inc.

The LSRAP was prepared to address the discharges reported on March 1, 1988 and December 18, 1998 at the subject property. Based on data collected during Earth Systems' investigation, hydrocarbon impacted soil and groundwater remains present at concentrations above levels that warrant active remediation in the vicinity of the former underground storage tank area and southeast dispenser area.

If you have any questions, please do not hesitate to contact me at (937) 863-6507.

Sincerely,

SPEEDWAY LLC

A handwritten signature in blue ink that reads "Bryan M. Witt".

Bryan M. Witt
Environmental Representative

LIMITED SCOPE REMEDIAL ACTION PLAN

Former Speedway No. 6442
900 East Sample Road
Pompano Beach, Broward County, Florida
FDEP Facility No. 06/8502103

May 21, 2020

Prepared for:

**Broward County Environmental and
Growth Management Department**
*1 North University Drive, Suite 203
Plantation, FL 33324*

Prepared By:



*445 Lantana Road
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A handwritten signature in blue ink, appearing to read "Craig B. Cohen".

Craig B. Cohen, P.E.
Program Manager

PROFESSIONAL CERTIFICATION

LIMITED SCOPE REMEDIAL ACTION PLAN

Former Speedway No. 6442

900 East Sample Road
Pompano Beach, Florida
FDEP Facility No. 06/8502103

I, Craig B. Cohen, P.E. No. 66439, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide the engineering service contained in this report. I further certify that in my professional judgment this report meets the requirements of Section 62-780.700 for Active Remediation and was prepared by me or under my responsible charge. Moreover, I certify that Earth Systems, Inc. holds an active Certificate of Authorization #8369 to provide the engineering service.

Craig B. Cohen, P.E.
Florida License No. 66439

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SECTION 1.0 INTRODUCTION AND BACKGROUND

1.1 Purpose and Scope

Earth Systems, Inc. has prepared this Limited Scope Remedial Action Plan (LSRAP) to address hydrocarbon impacted soil and groundwater at the former Speedway No. 6442 property (site) in Pompano Beach, Florida. The purpose of the LSRAP is to design an air sparge (AS) and soil vapor extraction (SVE) remediation system to treat the hydrocarbon impacts in accordance with the requirements stipulated in Chapter 62-780 of the Florida Administrative Code (FAC). The LSRAP was prepared in accordance with Florida Department of Environmental Protection (FDEP) Purchase Order (PO) No. B64F93.

1.2 Site Description

The site is located on the south side of Sample Road, approximately one-tenth of a mile east of Dixie Highway in Pompano Beach, Broward County, Florida. The site operated as an active fueling station and retail convenience store until operations ceased in January 2018. Four double-walled, fiberglass 10,000-gallon underground storage tanks (USTs) containing unleaded gasoline and diesel fuel were located on the southwestern portion of the property and four dispenser islands were located underneath a canopy positioned in the center of the property. The USTs, dispenser islands, and associated product piping were removed in February 2018 and the site was vacated. A Site Map and Site Plan depicting the former UST system and current property structures are included as **Figure 1A**.

1.3 Discharge, Assessment, and Remediation History

A Discharge Reporting Form (DRF) was forwarded to the FDEP on August 11, 1988 following the discovery of benzene at a concentration of 3,920 micrograms per liter ($\mu\text{g/L}$) in a sample collected from a UST area monitoring well. The cause of the release was listed as unknown. A Contamination Assessment Report (CAR) was prepared to define the extent of hydrocarbon impacted soil and groundwater. Following approval of the CAR, the discharge was deemed eligible for reimbursement under the FDEP's Early Detection Incentive (EDI) Program. A Remedial Action Plan (RAP) was then prepared that included a design incorporating pump and treat (P&T) technology. The remediation system was installed in April 1992 and operated through April 1995, at which time system operation was suspended due to the moratorium on state-funded remediation.

The P&T remediation system was restarted in August 1996 and operated for approximately six months when operation was again suspended. Oxygen Releasing Compound (ORC) was injected into the subsurface in September 1997 in an attempt to hasten remediation. Groundwater quality was monitored for several months after the ORC injection, with no apparent decrease in contaminant levels.

The presence of free product in recovery well RW-1 prompted the submittal of another DRF in December 1998. The discharge was attributed to a leak in the premium unleaded UST. After repairs, the tank system tested tight. The treatment system was restarted in December 1999 and a thermal treatment unit was added to treat the elevated concentrations in the vapor extraction system.

In May 2000, approximately 1,500 gallons of petroleum contact water (PCW) were extracted from wells containing free product. The groundwater treatment system was deactivated at that time. The vapor extraction system continued to operate until June 2000, when active remediation was discontinued. Free product recovery efforts continued until January 2001 with a total of 146 gallons collected.

A RAPM recommending AS/SVE was prepared in July 2001 and approved in October 2001. The AS/SVE system operated from March 26, 2002 through November 29, 2007. Following an increase in dissolved hydrocarbon concentrations during Post-Active Remediation Monitoring (PARM), the remediation system was reactivated in June 2009. Three quarters of operation and maintenance (O&M) were performed to reach and maintain Chapter 62-777, FAC Groundwater Cleanup Target Levels (GCTLs). A Site Plan depicting the former remediation system layout is included as **Figure 1B**.

The site transitioned into PARM in June 2010. During the fifth quarter of PARM, dissolved hydrocarbon concentrations increased above action levels in monitoring wells CW-1 and MW-7R, and above Chapter 62-777, FAC Natural Attenuation Default Concentrations (NADCs) in monitoring well CW-1. The AS/SVE system was restarted on January 4, 2012 to address the residual impacts.

An LSRAP was approved in April 2012 to implement bio-enhanced AS with SVE. One year of O&M with bio-applications were initiated in November 2012 and continued until March 2013, when the site transitioned back to PARM. Following the April 2014 PARM event, the site transitioned to Natural Attenuation Monitoring (NAM) on a semiannual basis. Groundwater analytical data from the November 14, 2017 sampling event indicated dissolved hydrocarbon concentrations remained present above GCTLs, but less than NADCs, in monitoring wells CW-1, CW-2, and MW-7R. Dissolved

hydrocarbons were not detected above GCTLs in the samples collected from monitoring wells MW-2 and MW-5.

In December 2017, Speedway LLC (Speedway) notified Earth Systems of its intentions to close the facility in conjunction with the termination of its lease agreement for the site. The closure would include the removal of the four USTs, dispensers, and associated product piping. The property structures, such as the store building, storage building, and canopy, were to remain in-place. In response to the proposed store closure, Earth Systems recommended soil assessment be performed so an LSRAP can be prepared to complete a source removal in conjunction with the UST system closure activities.

An LSRAP was submitted to Broward County EPGMD on January 22, 2018 documenting the soil assessment and proposing a source removal of the impacted soil within the UST area for offsite disposal. Soil screening and analytical data from the pre-excavation soil assessment are depicted on **Figure 2A**. The source removal design included excavating an area of 1,683 square feet (ft²) to a depth of 12 feet below land surface (bls) with a 1:1 sloped perimeter. The LSRAP estimated 623 cubic yards (yd³) of soil would be excavated for offsite disposal. The total weight of soil to be hauled offsite for disposal was estimated to be 872 tons. Broward County EPGMD approved the LSRAP on January 23, 2018 and FDEP PO No. B28745 was issued on February 13, 2018 to implement the LSRAP.

Earth Systems oversaw the removal of the site's four USTs, four dispenser islands, and associated product piping from February 19, 2018 through February 28, 2018. Closure assessment and source removal activities were performed in conjunction with the closure of the UST system. The activities were summarized in a *UST System Closure Assessment and Source Removal Report* dated April 19, 2018, along with supplemental addenda dated May 11, 2018, and approved in a Deliverable Review letter dated May 17, 2018. Petroleum staining and odors were observed in the soil between the mid-grade and regular unleaded gasoline USTs near the north end of the USTs. Approximately 802 tons of soil were removed from the UST area for offsite disposal. Laboratory analytical data indicated benzo(a)pyrene was detected at concentrations above its Chapter 62-777, FAC Direct Exposure Soil Cleanup Target Level (SCTL) in the soil samples collected from the north and west sidewalls of the UST excavation.

Closure sampling was performed in conjunction with the removal of the four dispenser islands between February 20 and 22, 2018. Elevated hydrocarbon vapor concentrations as high as 3,159 parts per million (ppm) were detected in the soil samples collected beneath the southeast dispenser island. In response to elevated hydrocarbon vapors,

FDEP issued a Change Order that authorized the excavation of a 12-feet by 12-feet area to a depth of 8 feet bls to remove soil exhibiting elevated vapors. The source removal was limited to the west due to the presence of a canopy footer on the west wall. Approximately 66 tons of impacted soil were removed from the southeast dispenser area for offsite disposal. Soil screening and analytical data indicate hydrocarbon impacted soil remained present in the vicinity of the former southeast dispenser island. Post-excavation soil screening and analytical data are depicted on **Figure 2B**. Earth Systems recommended completing additional assessment to define the extent of hydrocarbon impacted soil.

Closure sampling was performed in conjunction with the removal of the petroleum dispensing system's product piping between February 20 and 22, 2018. Soil samples were collected along the product line trench at approximately 20-foot intervals, and at potential sources of leaks such as connections and joints. The soil samples were collected one foot beneath the product line at depths ranging 3 to 4 feet bls. Organic vapor concentrations ranging from less than one ppm to 119 ppm were detected in the product line trench samples. The two soil samples collected for laboratory analysis indicated tested compounds were not detected present at concentrations greater than SCTLs.

Earth Systems supervised Preferred Drilling Solutions (PDS) during the advancement of ten soil borings and installation of five monitoring wells on August 7 and 8, 2018. Laboratory analytical data indicated a benzo(a)pyrene equivalent concentration was present above the SCTL east of the southeastern dispenser island at the 6 to 8 feet bls interval in soil boring SB-28. Groundwater analytical data from the August 17, 2018 sampling event indicated dissolved hydrocarbon concentrations were present above GCTLs in monitoring wells MW-2, MW-7RR, MW-18, and MW-19. Dissolved hydrocarbons exceeded NADCs in monitoring wells MW-7RR, MW-18, and MW-19. Earth Systems recommended sampling six perimeter monitoring wells to determine if additional monitoring wells were needed to delineate the extent of dissolved hydrocarbon impacts.

Groundwater analytical data from the November 14, 2018 sampling event indicated dissolved hydrocarbon concentrations were present above GCTLs in monitoring wells MW-2, MW-7RR, MW-18, and MW-19 and exceeded NADCs in monitoring wells MW-7RR, MW-18, and MW-19. Dissolved hydrocarbon concentrations remained below GCTLs in monitoring wells CW-1R, CW-2R, CW-5R, MW-3, MW-4, MW-9, MW-13, and MW-17. Earth Systems recommended completing additional assessment to define the

extent of hydrocarbon impacted groundwater. On February 5, 2019, FDEP issued PO No. B4818D to complete the supplemental site assessment activities.

Earth Systems supervised PDS during the advancement of eighteen soil borings and installation of thirteen monitoring wells between April 2019 and August 2019. Organic vapors were not detected in the vadose zone. Organic vapor concentrations ranging from less than one ppm to 1,310 ppm were measured in the saturated zone. Laboratory analytical data indicated tested compounds were not present at concentrations in excess of SCTLs in soil borings SB-47 through SB-51.

Based on the historical and recent soil data, hydrocarbon impacted vadose zone soil is no longer present in the vicinity of the UST area. Hydrocarbon impacted vadose zone soil remains present in the vicinity of the former southeastern dispenser island. While the February 2018 source removal was effective at removing approximately 66 tons of impacted soil in the vicinity of the southeastern dispenser island, the excavation was limited to a depth of 8 feet bls (which was above the water table) and to the west due to the presence of the canopy footer. Based on the soil samples collected from the west wall and base of the excavation, vadose zone soil impacts remain beneath 8 feet bls in the location of the source removal and to the west of the former dispenser island. The extent of hydrocarbon impacted soil greater than SCTLs is defined and depicted on **Figure 2C**. Soil screening results are presented on **Table 1**. Historical soil analytical results are presented **Tables 2A** through **2C**.

Approximately 1.3 feet of free product was encountered in monitoring well MW-19 during the April 2019 sampling event. Free product recovery events were performed between May 9, 2019 and December 2, 2019. Free product thickness reduced to 0.02 feet following the first month of free product recovery using a hand bailer. An absorbent sock was installed in monitoring well MW-19 on July 1, 2019 and replaced monthly to recover the residual free product. During the gauging event on December 2, 2019, free product was not detected in monitoring well MW-19. Approximately 1.75 gallons of free product were recovered from monitoring well MW-19 in total. The free product gauging and recovery events were summarized in a *Free Product Recovery Report* dated January 15, 2020.

A groundwater sampling event was performed on February 24 and 25, 2020 for the purpose of collecting updated groundwater quality data in preparation for the LSRAP. Groundwater samples were collected from monitoring wells CW-1R, CW-2R, MW-2R, MW-7RR, MW-18 through MW-25, and DW-3 through DW-7. Prior to sample collection, the water in each of the monitoring wells was inspected using an oil/water interface

probe. No free product was detected. The monitoring wells were purged in accordance with the FDEP groundwater sampling standard operating procedures. The samples were delivered to Pace Analytical National Center for Testing and Innovation (Pace Analytical) for analysis of polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270C SIMS. All the sampled monitoring wells, except for monitoring well MW-2R, were also analyzed for benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (BTEX/MTBE) using EPA Method 8260B. Additionally, monitoring wells MW-18, MW-19, MW-20, and MW-25 were analyzed for total recoverable petroleum hydrocarbons (TRPHs) using the FL-PRO Method.

Analytical results from the February 2020 sampling event indicate dissolved hydrocarbons were present above Chapter 62-777, FAC GCTLs in the samples collected from monitoring wells MW-18, MW-19, and DW-3. Dissolved hydrocarbon exceedances are summarized below:

- Benzene (GCTL of 1 µg/L) was detected above its GCTL in monitoring wells MW-18, MW-19, and DW-3 at concentrations of 92.6 µg/L, 164 µg/L, and 9.23 µg/L, respectively.
- Toluene (GCTL of 40 µg/L) was detected above its GCTL in monitoring well MW-19 at a concentration of 2,570 µg/L.
- Ethylbenzene (GCTL of 30 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 1,660 µg/L and 1,070 µg/L, respectively.
- Total Xylenes (GCTL of 20 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 668 µg/L and 7,810 µg/L, respectively.
- Naphthalene (GCTL of 14 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 664 µg/L and 314 µg/L, respectively.
- 1-Methylnaphthalene (GCTL of 28 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 176 µg/L and 43.7 µg/L, respectively.
- 2-Methylnaphthalene (GCTL of 28 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 248 µg/L and 67.3 µg/L, respectively.
- TRPH (GCTL of 5,000 µg/L) was detected above its GCTL in monitoring wells MW-18 and MW-19 at concentrations of 7,080 µg/L and 11,700 µg/L, respectively.

Analytical results from the February 2020 groundwater sampling event indicated dissolved hydrocarbon concentrations exceeded Chapter 62-777, FAC NADCs in the samples collected from monitoring wells MW-18 and MW-19. No other tested compounds were detected above GCTLs or NADCs in the samples collected. Analytical results are summarized on **Tables 3A** and **3B** and depicted on **Figures 3A** and **3B**.

Dissolved hydrocarbon impacts in the shallow zone are defined to the north by monitoring wells MW-24 and MW-25; to the east by monitoring wells MW-3, MW-4, and MW-20; to the south by monitoring wells MW-7RR and MW-21; and to the west by monitoring wells CW-1R, CW-2R, and MW-2R. Dissolved hydrocarbon impacts in the deep zone are defined to the northeast by deep monitoring well DW-4; to the southeast by deep monitoring well DW-5; to the southwest by deep monitoring well DW-6; and to northwest by deep monitoring well DW-7. The vertical extent of dissolved hydrocarbon impacts in the deep zone is defined to 50 feet bls by deep-deep monitoring well DDW-1.

Earth Systems gauged water levels in the sampled monitoring wells prior to purging the monitoring wells for the collection of groundwater samples on February 24, 2020. Depth-to-water ranged from 9.72 feet bls in monitoring well MW-2R to 10.38 feet bls in monitoring well MW-21. Groundwater elevation data collected during the February 24, 2020 gauging event indicates the groundwater flow in the shallow zone is generally towards the east-northeast and the groundwater flow in the deep zone is generally north-northeast. Groundwater elevation data is presented on **Table 4** and Groundwater Elevation Contour Maps for the shallow and deep zones are depicted on **Figures 4A** and **4B**, respectively. The February 2020 groundwater sampling were summarized in a March 18, 2020 *Remedial Action Interim Report* and approved by Broward County EPGMD in a Deliverable Review letter dated March 20, 2020.

1.4 Pre-RAP Teleconference

Earth Systems conducted a pre-RAP teleconference with Broward County EPGMD and representatives of the property owner, Extra Space Storage, on February 3, 2020. Earth Systems proposed installing an AS/SVE system since the former AS/SVE system was effective at treating the accessible impacted areas. Since the USTs and dispenser islands are no longer present, the previously inaccessible areas (ie beneath the USTs and dispensers) are now accessible and AS/SVE is a viable strategy to remediate the site. Broward County EPGMD and Extra Space Storage had no objections with using AS/SVE as the method of treatment.

The conceptual AS design included thirteen shallow and five deep AS wells. Based on the data collected during previous remediation system operation, the shallow and deep AS wells will be screened from 30 feet to 35 feet bls and 45 feet to 50 feet bls, respectively, with a design ROI of 14 feet. Broward County EPGMD did not present any concerns with the conceptual AS design.

The conceptual SVE design included thirteen vertical SVE wells. Based on groundwater elevation data, each SVE well will be screened 3 feet to 13 feet bls to prevent water recovery with a design ROI of 18 feet. Broward County EPGMD indicated the shallower screen interval may warrant a surface seal be installed. Earth Systems reviewed the SVE design during preparation of the LSRAP and will utilize the original SVE screen interval of 5 to 15 feet bls since the impacted soil within the UST area was hauled offsite for disposal and is no longer impacted in the vadose zone. Also, the impacted soil in the vicinity of the SE dispenser island was removed to 8 feet bls, with the exception of the inaccessible soil adjacent to the footer. Historical data also indicated water recovery was not an issue during operation of the former AS/SVE system. Extending the SVE well into the groundwater will provide for extra treatment at depth during periods of groundwater fluctuations.

Preliminary discussions with Florida Power and Light (FPL) indicate 240-volt, 3-phase electric service is available at the site. The service planner, Megan Bailey, indicated there will be no costs associated with electrical service connection as the power pole is still present. Extra Space Storage stated they plan to demolish the existing structures in early-2020 and efforts will be made to prevent destroying any existing wells.

Broward County EPGMD agreed with Earth Systems' recommendation to complete a groundwater sampling event prior to preparation of the LSRAP to provide updated groundwater analytical data (within 270 days). Broward County EPGMD authorized the collection of groundwater samples from 17 monitoring wells on February 24 and 25, 2020. Groundwater analytical data (discussed above in Section 1.3) indicated dissolved hydrocarbon concentrations were present above NADCs in monitoring wells MW-18 and MW-19, and above GCTLs in deep monitoring well DW-3. Dissolved hydrocarbon concentrations decreased below GCTLs in monitoring wells MW-7RR, MW-23, and DW-7 and remained below GCTLs in monitoring wells CW-1R, CW-2R, MW-2R, MW-20, MW-21, MW-22, MW-24, MW-25, and DW-4 through DW-6.

Earth Systems reviewed the air sparge and soil vapor extraction conceptual design (as provided during the February 6, 2020 pre-RAP teleconference) to evaluate if modifications to the design were needed to reflect current site conditions. Due to the

reduction in dissolved hydrocarbon concentrations to below GCTLs in shallow monitoring wells MW-7RR and MW-23 and to below NADCs in deep monitoring well DW-3, Earth Systems revised the conceptual design to reduce the number of shallow AS treatment points from thirteen to twelve. The number of deep AS treatment points were reduced from five to one. The number of SVE treatment points were reduced from thirteen to eleven.

1.5 LSRAP Objectives

The objective of this LSRAP is to design a remediation system to address the residual hydrocarbon-impacted soil and groundwater present in the vicinity of the former UST area and former southeast dispenser island. This objective can be achieved by installing and operating an AS/SVE treatment system. The site will transition into a PARM program when adsorbed and dissolved hydrocarbon concentrations decrease below cleanup target levels.

SECTION 2.0 FORMER REMEDIATION SYSTEM SUMMARY

To aid in the design of the remediation system, Earth Systems reviewed data collected during operation of the former AS/SVE treatment system. Operation of the former AS and SVE system commenced on March 26, 2002. Following periods of fluctuating dissolved hydrocarbon concentrations, the system operated intermittently until March 2013. The locations of the former AS wells, VE wells, and monitoring wells are shown on **Figure 1B**. Excerpts of the last *Remedial Action Operation and Maintenance Report* (dated April 23, 2013) prepared following system deactivation are included in **Appendix A**.

2.1 Former AS System

Air sparging was originally achieved using a 15-horsepower (Hp) GAST Model 1290 rotary vane compressor. The GAST compressor was replaced with a 15-Hp Rietschle Model DTB250 compressor when the compressor failed in March 2006. The Rietschle compressor was capable of providing 78 cubic feet per minute (cfm) of air at a pressure of 11.25 pounds per square inch (psi). Seventeen 2-inch diameter AS wells constructed with 5 feet of screen were originally installed to provide air to the subsurface. Fifteen AS wells were installed to a total depth of 35 feet bls (AS-2 through AS-5 and AS-7 through AS-17) and two AS wells were installed to 45 feet bls (AS-1 and AS-6). Seven additional AS wells (AS-18 through AS-24) were installed to 35 feet bls in April 2006 and connected to the remediation system piping. Sparge wells AS-1 through AS-6 and AS-8 through AS-13 were deactivated following installation of the new AS wells because the wells were no longer in areas impacted by hydrocarbons. Air was conveyed from the compressor to each air sparge well through 1-inch diameter Schedule 40 PVC horizontal underground piping.

O&M data collected following system modifications in 2006 indicated air could be injected into each air sparge well at an average flow rate of 7 cfm and average pressure of 9.5 psi. The maximum injection pressure was measured at approximately 13 psi. In 2005, the AS ROI was evaluated using air sparge wells AS-7, AS-15R, and AS-16. The data indicated an ROI of approximately 12 feet was achievable when sparging.

2.2 Former SVE System

Vapor extraction was achieved using a 20-Horsepower (HP) Fuji Model SD91 blower, capable of extracting 300 cfm of air at a vacuum of 75 inches of water (in-water). Sixteen vertical SVE wells (VW-1 through VW-10, VW-14, and VW-18 through VW-22), and six horizontal SVE wells (HVEW-11 through HVEW-13 and HVEW-15 through HVEW-17) were originally installed and utilized for vapor recovery. In April 2006, twelve additional vertical SVE wells (VW-23 through VW-34) were installed. Each vertical SVE well was constructed of 4-inch diameter PVC and screened from 2 to 10 feet bls with 0.020-slot well screen. SVE wells VW-1, VW-2, VW-5 through VW-10, HVEW-11 through HVEW-17, and VW-22 were deactivated following installation of the new SVE wells because these wells were no longer in areas impacted by hydrocarbons. SVE wells VW-23 through VW-34, along with previously installed wells VW-3, VW-4, VW-18, VW-19, VW-20, and VW-21, were the only active VE wells connected to the system following system modifications. The Fuji blower was connected to the vapor extraction wells with 2-inch diameter Schedule 40 PVC horizontal underground piping. Effluent air was originally treated using two 1,000-pound carbon vessels. The moisture in the vapor stream was removed with a United Plastics moisture separator.

O&M data collected following system modifications in 2006 indicated air could be extracted from the subsurface at an average flow rate of 340 cfm and average vacuum of 44 in-water. The maximum vacuum measured at the blower was 55 in-water. In 2005, the SVE ROI was evaluated using existing vapor extraction well VW-4. The data indicated an ROI of approximately 14 feet was achievable when performing SVE.

SECTION 3.0 REMEDIAL ACTION DESIGN

3.1 Summary of Proposed RAP

Earth Systems hosted a pre-RAP teleconference with representatives from Broward County EPGMD and the property owner, Extra Space Storage, on February 3, 2020 to discuss the conceptual design of an AS/SVE system. The parties agreed that a permanent AS/SVE system would be an acceptable remedial approach for the site. Representatives from Extra Space Storage stated they plan to demolish the existing structures in early-2020. In the event the structures are removed prior to RAP implementation, modifications to the piping design will be completed during preparation of the Construction Drawings to minimize the length of trenching and piping required to connect to the treatment wells. The positions of the proposed AS and SVE will remain unchanged.

The hydrocarbon impacted soil and groundwater will be remediated using AS and SVE technologies. Based on data collected during operation of the former AS/SVE remediation system, the shallow groundwater impacts will be treated with twelve air sparge wells installed to a depth of 35 feet bls and constructed with 2-inch diameter PVC, screened from 30 to 35 feet bls with 0.020-inch slotted pipe. The deep groundwater impacts will be treated with one air sparge well installed to a depth of 50 feet bls and constructed with 2-inch diameter PVC, screened from 45 to 50 feet bls with 0.020-inch slotted pipe. Soil treatment and vapor recovery will be performed utilizing eleven vertical SVE wells installed to a depth of 15 feet bls and constructed with 10-feet of 4-inch diameter, 0.020-inch slotted PVC screen. A radius of influence of 14 feet for the AS wells and 18 feet for the SVE wells with considerable overlapping within the areas with the highest levels of hydrocarbons was used for the remediation system design.

The layout of the proposed system is shown on **Figure 5**. The zones of influence for the shallow and deep groundwater remediation system are shown on **Figures 6A** and **6B**, respectively. The air sparge well construction details are depicted on **Figure 7**. The zone of influence for the vapor recovery remediation system is shown on **Figure 8**. Construction details for the SVE wells are shown on **Figure 9**. A trench detail is provided in **Figure 10**.

The AS and SVE wells will be piped to a portable equipment trailer that will house the sparge compressor, aftercooler, and SVE blower. Placing the equipment within a portable trailer will extend the life of the blowers by keeping them out of the elements and will enable the equipment to be easily moved from one site to another when remediation is completed. Manifold details are provided in **Figure 11**. A remediation system flow diagram is included as **Figure 12**. The plan view of the proposed remediation compound is provided as **Figure 13**. A Remediation System Design Summary listing each component of the remediation system is provided in **Table 5**. A Construction Milestone Schedule is provided in **Table 6**. A Remedial Action Monitoring Schedule is provided in **Table 7**.

The Installation Contractor (Earth Systems and its subcontractors) will obtain all local, state, and federal permits required to complete the installation. Earth Systems made preliminary contacts with FPL to verify that three-phase power was available at the site. The service planner, Megan Bailey, indicated there will be no costs associated with electrical service connection as the power pole is still present. Costs to supply power to the remediation system will be confirmed prior to installation.

3.2 Air Sparging Design

The primary mechanism for treating the hydrocarbon impacted groundwater will be the in-situ technology of air sparging. Air sparging promotes two significant contaminant removal mechanisms: volatilization (either by evaporating the adsorbed phase or by stripping contaminants from the groundwater) and aerobic biodegradation due to increased oxygenation.

The sparge system will consist of twelve shallow air injection wells (AS-25 through AS-36) and one deep air injection well (AS-37) installed at the locations shown on **Figure 5**. An AS study performed in April 2005 indicated an ROI of 12 feet was achievable when sparging. Based on the extent of hydrocarbon impacted groundwater with dissolved hydrocarbon concentrations greater than NADCs, the AS system will utilize an array of treatment points with an ROI of 14 feet with considerable overlapping within the areas with the highest levels of dissolved hydrocarbons (i.e. the location of the former USTs and southeast dispenser island). The zone of influence for the shallow and deep sparge wells is illustrated on **Figures 6A** and **6B**, respectively.

Shallow sparge wells AS-25 through AS-36 will be installed to a depth of 35 feet bls with two-inch diameter Schedule 40 PVC pipe having 5 feet of 0.020-inch slotted screen and 30 feet of solid casing. Deep sparge wells AS-37 will be installed to a depth of 50 feet

bls with two-inch diameter Schedule 40 PVC pipe having 5 feet of 0.020-inch slotted screen and 45 feet of solid casing. The installation depth was chosen to match the depth of the previous shallow and deep air sparge wells where the design ROI was determined. Due to the abandonment of treatment wells prior to UST system closure and source removal activities in 2018 and prior to the planned site razing activities in 2020, no existing treatment wells remain within the areas with current hydrocarbon impacts. Thus, no existing AS wells were incorporated in the current design. The air sparge well construction details are depicted on **Figure 7**.

Air will be injected into shallow sparge wells AS-25 through AS-36 and deep sparge well AS-37 at a rate of 10 standard cubic feet per minute (scfm) per well. Based on calculations in **Appendix B-1**, an initial pressure of approximately 16 pounds per square inch (psi) will be needed to begin injecting air (breakthrough pressure) into the deep air sparge well. The calculated initial injection pressure for the shallow sparge wells is 10 psi. The pressure required to maintain a flow rate 10 scfm per well should be less than 16 psi for the shallow and deep zones. Operational data collected following modifications to the former AS/SVE system in 2006 indicated air could be injected into each air sparge well at an average flow rate of 7 scfm and average manifold pressure of 9.5 psi. A maximum manifold pressure of 13 psi was required to sparge the aquifer during operation of the former remediation system.

Each AS well will operate at 10 scfm at a maximum pressure of approximately 16 pounds psi. The total flow for the AS system will be 130 scfm. Based on the layout and a 10% safety factor, the design pressure for the system is 19 psi. The recommended AS compressor is a 15-horsepower (HP) Rietschle Model DLR 250 rotary claw unit (or approved equivalent). A performance curve for the Rietschle compressor and air sparge design calculations are provided in **Appendix B-1**. The performance curve indicates the Rietschle Zephyr DLR 250 compressor can supply 150 scfm of air at a pressure of 23 psi. A high-pressure relief valve will be installed on the air compressor to prevent application of excessive pressure to the sparge points. A manual air bleed valve with silencer will also be provided to adjust the system to the appropriate flow rate (i.e.: excess air can be bled-off continually through the valve during system operation, if the air flow rate to the saturated zone needs to be reduced). The flow of sparge air will be regulated inside the equipment trailer by adjusting valves located on each of the individual sparge lines.

The recommended aftercooler is an American Industrial Model ACA-3302 unit (or approved equivalent) equipped with a 3/4-HP, 230-volt, three-phase explosion-proof motor. Calculations pertaining to the aftercooler are provided in **Appendix B-1**. The

aftercooler will reduce the temperature of the sparge air to approximately 10-degrees above ambient.

The sparge wells will have a dedicated one-inch diameter Schedule 40 PVC underground pipe that will extend to the proposed remedial compound on the southeast corner of the property. Each AS well will connect to the equipment trailer using one-inch diameter flexible hoses. In the equipment trailer, each well will have a dedicated pressure gauge, metering valve, and flow meter. An interlock will be provided in the control panel to deactivate the air sparging system in the event of an SVE system failure/shutdown. The design specifications and equipment selection for the air sparging system are presented in **Table 5**. An air sparge manifold detail is provided on **Figure 7**.

3.3 Vapor Extraction System Design

The SVE system will be installed to capture sparge air, recover product vapors, and remediate vadose zone soil impacts. The vapor extraction process creates movement of air through the soil, volatilizing hydrocarbons and removing them with the air stream. The hydrocarbons are then removed from the air stream prior to discharge to the atmosphere.

The SVE system will consist of eleven (11) vertical vapor extraction wells (VW-35 through VW-45) installed at the locations depicted on **Figure 5**. Each SVE well will be installed to a depth of 15 feet bbs and constructed with 10 feet of 4-inch diameter, 0.020-inch slotted PVC screen. An SVE study performed in April 2005 indicated an ROI of 14 feet was achievable when extracting air from vapor extraction well VW-4. Due to the limited extent of hydrocarbon impacted soil, the SVE system will utilize an array of treatment points with an ROI of 18 feet with considerable overlapping within the areas with the highest levels of dissolved and adsorbed hydrocarbons (i.e. the location of the former USTs and southeast dispenser island). The zone of influence for the vapor extraction wells is illustrated on **Figure 8**. Construction details for the SVE wells are shown on **Figure 9**.

As observed during previous remediation activities and based on the new layout of the modified system, the design parameters for the SVE system is a total flow of 275 scfm (25 scfm per well) at a suction of 42 in-water (includes safety factor of 20%). The recommended SVE blower is a Rotron Model EN909 or approved equivalent with a 15-HP, 60 Hz explosion-proof motor. A performance curve for the Rotron blower and the SVE design calculations are provided in **Appendix B-2**. The performance curve indicates the blower can extract 275 scfm of air at a suction of 42 in-water with extra

capacity, and therefore can provide the design flow. Operational data collected following modifications to the former AS/SVE system in 2006 indicated a maximum manifold vacuum of 55 in-water was required to perform SVE. This coincided with the highest water table elevation observed in the past 17 years (7.5 feet bls). The selected blower has a maximum vacuum of 112 in-water, which is above the maximum vacuum observed during operation of the former remediation system.

Earth Systems did not find evidence water recovery was an issue during operation of the former remediation system. In the event the SVE system recovers groundwater during periods of high-water table events, the SVE system's vacuum and flow rates can be adjusted or the system deactivated if excessive water is recovered. If the SVE system is deactivated, the flow rate to the AS wells will be reduced to less than 5 scfm to provide low flow sparging (bio-sparging) without vapor recovery. The low-flow sparging will encourage aerobic biodegradation of the source material.

A muffler will be provided on the discharge of the blower to reduce the noise level. A moisture separator drum with a high vacuum relief valve will be installed to remove water condensate from the air stream. The moisture separator will be outfitted with an automatic pump out system (Goulds Model NPE 1ST or approved equal), which has the capability to empty the moisture tank when a high-level probe is activated. The condensate water will be pumped through a particulate filter (US Filter Model #2088 or approved equal) and then through a 90-lb carbon vessel (Carbtrol Model HP-90 or approved equal) to remove hydrocarbon compounds. The treated effluent will then be discharged to a 10-foot long infiltration gallery. A "high-high" level probe will be provided for the knockout tank and infiltration gallery. The probe will deactivate the treatment system if excessive water is detected. The design specifications and equipment selection for the SVE system are presented in **Table 5**. The moisture drum effluent drain and infiltration gallery are depicted in **Figure 11**. Cutsheets pertaining to the transfer pump and condensate water filter are provided in **Appendix B-2**.

The majority of the treatment area is currently surfaced with a 6-inch thick layer of compacted limestone. Earth Systems recommends matching the existing surface (a 6-inch thick layer of compacted limestone) to resurface the piping trenches. Additional surface cover, such as asphalt, may be required if data collected during activation of the full-scale system indicates the SVE system is not providing significant influence.

Following reactivation of the modified AS/SVE remediation system in May 2006 and January 2012, air samples collected from the influent vapor stream (pre-carbon

treatment) indicated the recovered vapors reduced to below 13.7 pounds per day (lb/day) within one month of treatment. Earth Systems anticipates a similar response with the proposed system and will utilize carbon to treat the recovered vapors. Source removal activities were performed in conjunction with the closure of the UST system in February 2018. Approximately 802 tons of soil were removed from the UST area and 66 tons of impacted soil were removed from the southeast dispenser area for offsite disposal. Based on the calculations provided in **Appendix B-3**, approximately 330 pounds of hydrocarbons remain in the soil and groundwater. The proposed soil vapor extraction system should be adequate to recover vapors produced from air sparging and remediate remaining hydrocarbon impacted soil that is present at the site with the proper off-gas treatment.

Earth Systems recommends two 1,000 lb carbon vessels be used to provide off gas treatment for at least the first 30 days of system operation. The vapor phase carbon media will be replaced and returned to the manufacturer for regeneration if breakthrough occurs. Off-gas treatment will be performed for a minimum of one month but will continue until the total hydrocarbon recovery rate is less than 13.7 lbs/day. During start-up operations and during the system operation, the SVE influent concentrations will be monitored and dilution air may be introduced to maintain a hydrocarbon input of less than 20 percent of the Lower Explosion Limit (LEL). SVE offgas treatment design calculations and specifications for the carbon vessels are provided in **Appendix B-4**.

3.4 Equipment Compound

The proposed remediation equipment compound area will be enclosed by a six-foot high wood fence with a locking gate. The remediation equipment (air sparge compressor, aftercooler, SVE blower, transfer pump, and piping manifolds) will be housed within a portable trailer for noise control, theft prevention, and weather protection. The effluent stack discharge point will be a minimum of 15 feet above ground surface. The SVE off-gas carbon treatment vessels will be placed east of the equipment enclosure inside the fenced compound so they can be accessible for removal/replacement when needed. A process flow diagram for the air sparge and SVE system is presented in **Figure 12**. A plan view of the remediation compound and equipment trailer is included as **Figure 13**.

The treatment equipment and wiring of the trailer will meet Class 1, Division 2 requirements for operating in a hazardous location, as outlined by the National Electric Code. Each of the electrical components for the sparge and SVE systems (sparge

compressor, aftercooler, SVE blower, and transfer pump) will be designed to operate continuously and be Underwriters Laboratory (UL) approved. Each component is designed to operate without supervision, so that monthly site visits should be sufficient for performing equipment maintenance. Minor spare parts such as bleed air filters or air inlet filters will be kept in stock or obtained from a local distributor. The electrical equipment will be protected from power surges by installing lightning protection at the main disconnect or inside the control panel.

State and local construction permits will be obtained prior to initiation of construction activities. Earth Systems will provide Broward County EPGMD with a signed and sealed copy of the revised As-Built drawings upon completion of the system installation.

Earth Systems contacted FPL, the power provider for the site, to determine the nearest location to provide electric service to the proposed remediation compound. FPL indicated that 240-volt, 3-phase electric service is available at the site. The service planner, Megan Bailey, indicated there will be no costs associated with electrical service connection as the power pole is still present. The location, availability, and cost will be confirmed during preparation of the construction drawings for remedial system construction.

Actions shall be taken to protect the equipment from natural events such as lightning strikes or hurricanes. The protective actions will include housing the AS compressor and SVE blower inside a protective enclosure, securing the enclosure to the ground using tie-downs, and including a surge protector at the main disconnect or inside the control panel. An automatic re-start will also be provided to re-activate the equipment in the event of a power failure. Safety considerations include a pressure relief valve at the discharge of the compressor and/or high-pressure switch for automatic shutdown.

3.5 Project Life

It is difficult to estimate clean-up times with AS/SVE systems. Taking into consideration the excavation of 868 tons of hydrocarbon impacted soil in 2018 and data collected during operation of the former AS/SVE system, Earth Systems anticipates the AS/SVE system will operate for two years.

SECTION 4.0 REMEDIAL ACTION INFORMATION

4.1 Contractor Performance Criteria

Earth Systems acknowledges the timeframes outlined in our Agency Term Contract and FDEP guidance for operating a remediation system at this site. According to the referenced documents, key performance criteria include the following:

- Average system run-time shall be at least 80 percent of the design run-time for each major piece of equipment taking into account approved downtime.
- Average monthly performance will be within 80 percent of the design performance unless parameters are intentionally modified to optimize the effectiveness of the remediation effort.
- Non-functioning system performance or fail-safe devices will be repaired or replaced within three business days of discovery unless an extension is requested.
- Remote sensing equipment (a Sensaphone Model 800 autodialer or approved equivalent) will be included in the control panel to alert Earth Systems of a remediation system shutdown. Earth Systems will mobilize to the site, determine the cause of the shutdown, and attempt repairs to the equipment within three business days of the notification. Specifications for the Sensaphone autodialer are provided in **Appendix B-1**.
- System problems will be reported to the FDEP Site Manager within three business days of discovery.

4.2 Remedial Action Milestones

FDEP guidance indicates that seven groups of contaminants should be considered when determining contaminant reduction milestones: 1) benzene, 2) the TEX group (sum of toluene, ethylbenzene, and xylenes), 3) the naphthalenes group (sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene), 4) MTBE, 5) TRPHs, 6) Group I PAHs consisting of benzo(a)anathracene, benzo(a)pyrene, benzo(b)flouranthene, benzo(k)flouranthene, dibenz(a,h)anthracene, chrysene, and indeno(1,2,3-cd) pyrene, and 7) Group II PAHs that include the sum of all other PAH

compounds. Historical groundwater sampling results for the site are provided in **Table 3A** and **3B**. The data indicate that benzene, the TEX group, naphthalenes Group, and TRPHs have historically been the contaminants of concern at this site.

Groundwater samples were collected from monitoring wells MW-18, MW-19, and DW-3 during preparation of the LSRAP on February 24 and 25, 2020 to evaluate current groundwater conditions at the site and to generate the milestone remediation schedule.

Earth Systems recommends selecting monitoring wells MW-18 and MW-19 as the key milestone wells for evaluating the progress of remedial action at the site. The key wells should be sampled quarterly. Monitoring wells MW-7RR, MW-20, MW-23, MW-25, CW-1R, and DW-3 should be sampled quarterly to determine the effects of the remediation system on the perimeter of the hydrocarbon plume. Groundwater samples will be obtained from wells MW-7RR, MW-18, MW-19, MW-20, MW-23, MW-25, CW-1R, and DW-3 on a quarterly basis and analyzed for BTEX and MTBE using EPA Method 8260B and for PAHs using EPA Method 8270C. The samples collected from monitoring wells MW-18 and MW-19 will also be analyzed for TRPH using the FL-PRO Method. A Remedial Action Monitoring Schedule is provided as **Table 7**.

Hypothetical contaminant reductions for the key milestone wells are presented in **Table 8**. The target concentrations were calculated using the Bureau of Petroleum Storage Systems (BPSS) milestone model dated April 15, 2011 and the most recent sampling results from February 2020 for each milestone well. The reduction curves generated by the BPSS Milestone Model are provided in **Appendix C**. According to the model, the default groundwater cleanup level will be a 62-777, FAC, GCTLs in samples from each milestone well. The model will be re-run after baseline sampling is completed to obtain actual target concentrations.

The concentrations of BTEX, MTBE, total naphthalenes, and TRPH from the baseline sampling event for the key milestone wells will constitute the starting point of the remediation effort. This data will be inserted into the BPSS milestone model to determine a decay projection for the remediation period. Data from the quarterly and annual sampling events will be compared to the BPSS milestone model to determine when milestones are achieved. The annual sampling event will be performed under static conditions (the remediation system will be shut down for a minimum of one week prior to sampling) to verify that contaminant rebounding is not a concern.

The scheduled time to complete the remediation goals (62-777, FAC, GCTLs in key milestone wells) is one year. After the remediation goals have been met, a meeting will be conducted between Earth Systems and the Broward County EPGMD to determine whether the site should transition to PARM.

4.3 Remedial Equipment Considerations

Actions shall be taken to protect the equipment from natural events such as lightning strikes or hurricanes. The protective actions will include housing the AS compressor and SVE blower inside a protective enclosure, securing the enclosure to the pavement using tie-downs, and including a surge protector at the main disconnect or inside the control panel. An automatic re-start will also be provided to re-activate the equipment in the event of a power failure. Safety considerations include a pressure relief valve at the discharge of the compressor and/or high-pressure switch for automatic shutdown.

SECTION 5.0 MONITORING AND MAINTENANCE

5.1 Remedial System Start-up and Testing

Startup of the remediation system will encompass the first three days of equipment operation, plus an additional site visit performed at the end of the first week. A Remediation System Startup Plan is provided as **Table 9**. During the startup phase, Earth Systems will perform the following activities:

Daily (first three days of system operation)

- Activate the VE system only without AS to recover residual vapors in the subsurface. Once vapor levels have decreased to acceptable levels, activate the AS system at a low flow rate. As treatment progresses and vapor recovery is monitored, the sparge wells can be adjusted to design levels.
- Record the airflow rate, vacuum, and concentration of recovered vapors at each SVE manifold line.
- Record the airflow rate and injection pressure for each sparge manifold line.
- Collect DTW measurements, dissolved oxygen (DO) readings, and pressure/vacuum readings in each designated monitoring well (see **Table 7**). This data will be used to determine the radius of influence of the remediation system.
- Screen the air around buildings, storm drains, etc. for the presence of hydrocarbon vapors. If vapors are detected, adjust the SVE and sparge systems to reduce the hydrocarbons. Discontinue system operation if the vapors cannot be eliminated.
- Perform any system repairs or maintenance as per manufacturer's recommendations.
- Collect influent, middle, and effluent air samples from the SVE system. Submit the samples to a State of Florida accredited laboratory for analyses of BTEX, MTBE, and TRPHs using EPA Method 18 or TO-3.

End of First Week Activities

- Record airflow rate and injection pressure in each sparge manifold line. Record the injection pressure at each sparge wellhead.
- Record the airflow rate, vacuum, and concentration of recovered vapors at each SVE manifold line. Record the vacuum at each SVE wellhead.
- Collect DTW measurements, DO readings, and pressure/vacuum readings in each designated monitoring well. This data will be used to determine the radius of influence of the remediation system.
- Collect influent, middle, and effluent air samples from the SVE system. Submit the samples to a State of Florida accredited laboratory for analyses of BTEX, MTBE, and TRPHs using EPA Method 18 or TO-3.
- Screen the air around buildings, storm drains, etc. for the presence of hydrocarbon vapors. If vapors are detected, adjust the SVE and sparge systems to remove the hydrocarbons. Discontinue system operation if the vapors cannot be eliminated.
- Perform any system repairs or maintenance as per manufacturer's recommendations.

Earth Systems' registered professional engineer will be on-site to observe the startup procedures and to make adjustments as necessary. A *Remedial Action Startup Report* will be submitted to Broward County EPGMD following system startup. The report will include tabulated summaries of all system performance data, a groundwater concentration map depicting the baseline sampling data, and maps showing the distribution of pressure/vacuum readings, DO measurements, and water level elevations under system operating conditions. A discussion of system operations and recommendations will also be provided.

5.2 Weekly (First Month) and Monthly Site Visit Requirements

The following is a list of parameters to be measured weekly for the first month, and monthly thereafter.

- Record vacuum and flow at each SVE manifold line. If little or no flow is detected, measure vacuum at the wellhead to determine whether the SVE line is clogged with water and clear the line as necessary. Inspect SVE blower, record flow, and suction at the blower, inspect filter and clean (or replace).
- Record suction in all surrounding monitoring wells to verify the radius of influence of the SVE system.
- Increase the AS flow rate as VE concentrations allow.
- Record the airflow rate and injection pressure for each sparge manifold line.
- Record pressure readings and flow for each sparge well, inspect sparge compressor, record temperature, and pressure at compressor, inspect filter and clean (or replace).
- Measure the DTW and dissolved oxygen at each designated monitoring well.
- Collect influent, middle, and effluent air samples from the SVE system. Submit the samples to a State of Florida accredited laboratory for analyses of BTEX, MTBE, and TRPHs using EPA Method 18 or TO-3 (weekly for first month, monthly for first quarter, quarterly thereafter).
- Screen the air around buildings, storm drains, etc. for the presence of hydrocarbon vapors. If vapors are detected, adjust the SVE and AS systems to remove the hydrocarbons. Discontinue system operation if the vapors cannot be eliminated.
- Perform any system repairs or maintenance as per manufacturer's recommendations.

5.3 Quarterly Site Visit Requirements

In addition to performing the monthly activities outlined above, groundwater sampling will be conducted on a quarterly basis. The quarterly events will consist of sampling key milestone wells MW-18 and MW-19 and monitoring wells MW-7RR, MW-20, MW-23, MW-25, CW-1R, and DW-13. The wells will be purged prior to sampling in accordance with the FDEP's standard operating procedures. The samples from each designated well will be analyzed for BTEX and MTBE using EPA Method 8260B, PAHs using EPA Method 8270C, and/or TRPH by the FLPRO Method. Once per year, groundwater samples will be collected from eleven monitoring wells under static conditions for the parameters outlined in **Table 7**.

5.4 System Maintenance, Monitoring, and Reporting

A Preventive and Routine Maintenance Plan for the air sparge compressor, aftercooler, and SVE blower is provided as **Table 10**. System run-times for the sparge compressor and SVE blower will be determined using hour meters, which will be mounted on the inner door of the control panel. A Sensaphone Model 800 autodialer or approved equivalent will also be included so that the operation of the system can be monitored from a remote location and to provide notice of alarm conditions. A System Specifications and Operations Manual will be kept on site to aid in troubleshooting potential equipment problems and a copy will be available to the FDEP upon request.

A Remedial Action Startup Report will be provided after system activation, summarizing the remedial action construction and startup activities. Analytical and operational data collected from the remediation system will be analyzed to ensure efficient system operation and compliance with regulations. The data trends will be evaluated quarterly to maintain the system at its optimum efficiency and to note when acceptable contaminant levels are reached. Operational data will be compiled in the standard BPSS format and presented in *Quarterly Operation and Maintenance Reports*. The reports will include information on contaminant reduction, system performance, downtime data, and a summary of maintenance and repairs made to the system. Graphical representations of milestone progress will also be provided.

An Annual Operation and Maintenance Report will be submitted at the end of each year providing an evaluation of the progress made toward the achievement of cleanup milestones. Report contents will follow the guidelines outlined in Chapter 62-780 of the Florida Administrative Code. When the remediation goal is achieved (62-777, FAC,

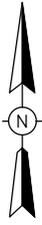
GCTLs in key monitoring wells), active remediation will end and PARM will be evaluated.

A PARM program will be performed in accordance with Chapter 62-780.750, FAC. The monitoring program should consist of sampling eight monitoring wells quarterly for a minimum period of one year. Groundwater samples will be obtained from wells MW-7RR, MW-18, MW-19, MW-20, MW-23, MW-25, CW-1R, and DW-3 and analyzed for BTEX and MTBE using EPA Method 8260B and for PAHs using EPA Method 8270C. The samples collected from monitoring wells MW-18 and MW-19 will also be analyzed for TRPH using the FL-PRO Method. A Remedial Action Monitoring Schedule is provided as **Table 7**. No Further Action status will be requested when dissolved hydrocarbon concentrations remain below GCTLs for two consecutive quarters and confirmatory soil sampling data indicated hydrocarbon impacted soil is no longer present above SCTLs.

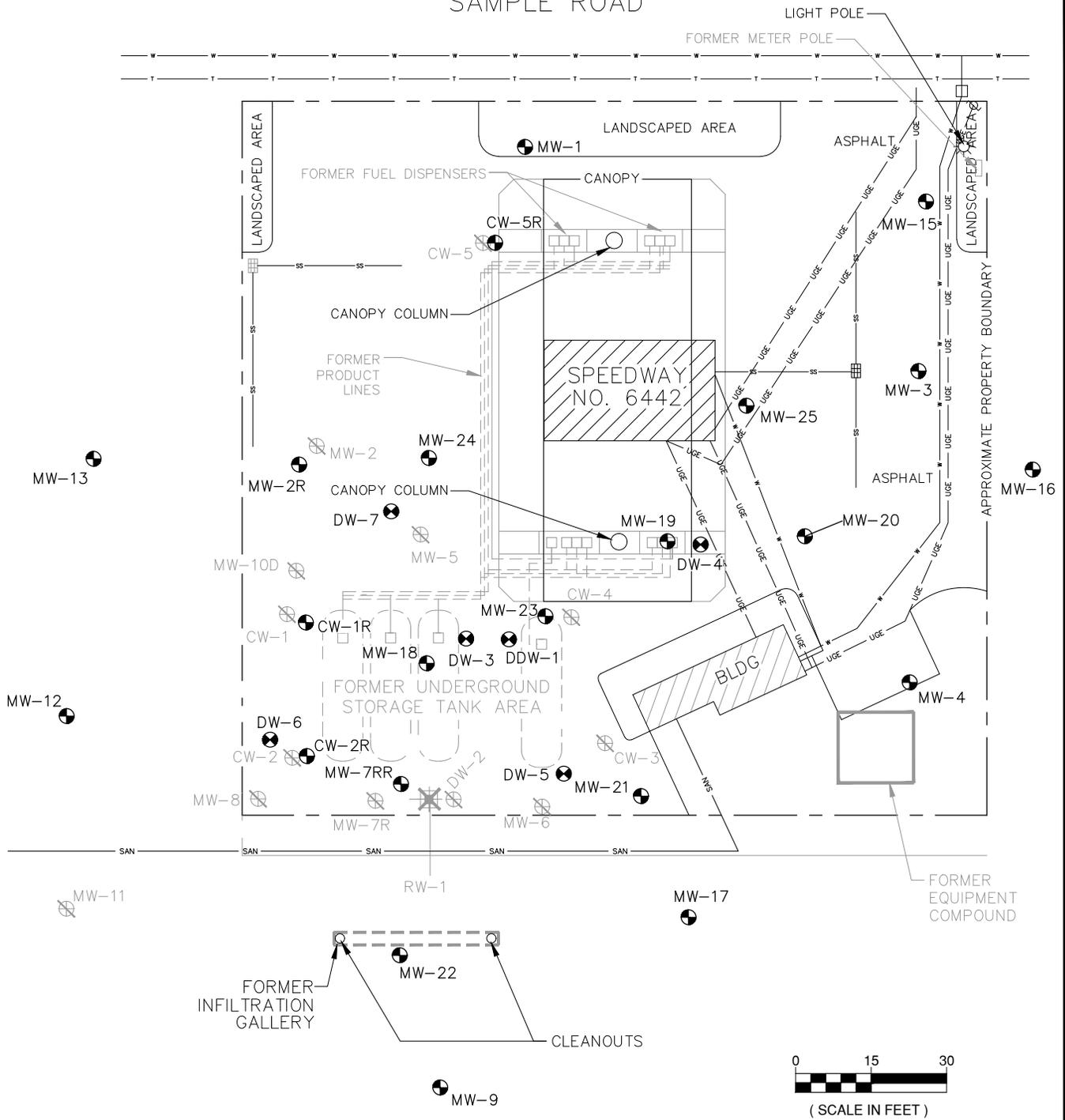
SECTION 6.0 REMEDATION COSTS

The estimated costs for the Remedial Action Construction (RAC) and one quarter of O&M were estimated using vendor quotes, cost guides, and professional experience. Anticipated Pay Items and estimated quantities were entered on the draft Schedule of Pay Items Invoice Rate Sheet using Earth Systems' Agency Term Contractor rates. A copy of the draft Schedule of Pay Items is included in **Appendix D**. Actual costs will be determined during the RAC phase that includes preparation of a Construction Drawings and Specification Report, using standard pricing procedures and negotiation between the Earth Systems and FDEP representatives. The estimated cost for installation of the remediation system and one quarter of O&M is approximately \$217,000.

FIGURES



SAMPLE ROAD



LEGEND

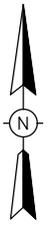
- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- DESTROYED / ABANDONED WELL LOCATION
- ABANDONED GROUNDWATER RECOVERY WELL
- STORM DRAIN
- UNDERGROUND WATER LINE
- UNDERGROUND STORM SEWER LINE
- UNDERGROUND SANITARY SEWER LINE
- UNDERGROUND TELECOMMUNICATION LINE
- UNDERGROUND ELECTRIC LINE

SITE MAP

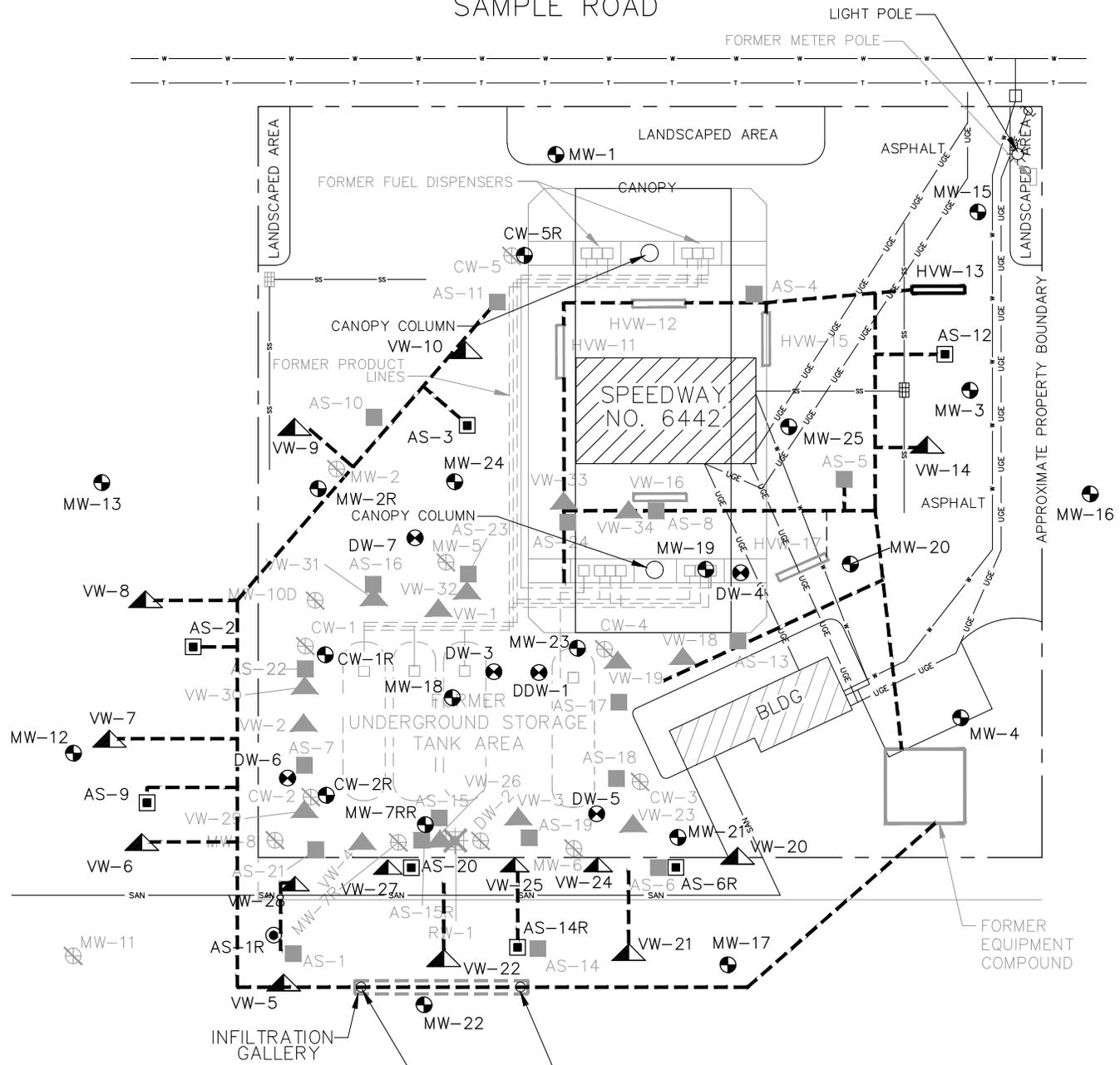
Speedway No. 6442
 FDEP FAC. ID NO.: 06/8502103
 900 East Sample Road, Pompano Beach, Florida



Figure 1A



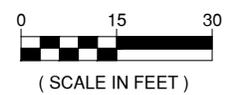
SAMPLE ROAD



LEGEND

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- DESTROYED / ABANDONED WELL LOCATION
- ABANDONED GROUNDWATER RECOVERY WELL
- STORM DRAIN
- EXISTING VERTICAL VE WELL LOCATION
- ABANDONED / DESTROYED VERTICAL VE WELL LOCATION
- EXISTING HORIZONTAL VE WELL
- ABANDONED HORIZONTAL VE WELL
- EXISTING AIR SPARGING WELL LOCATION
- ABANDONED / DESTROYED AIR SPARGING WELL LOCATION
- UNDERGROUND WATER LINE
- UNDERGROUND STORM SEWER LINE
- UNDERGROUND SANITARY SEWER LINE
- UNDERGROUND TELECOMMUNICATION LINE
- UNDERGROUND ELECTRIC LINE
- REMEDIATION PIPING

CLEANOUTS

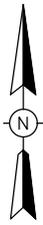


FORMER REMEDATION SYSTEM LAYOUT

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 1B



SAMPLE ROAD

1/5/2018	
OVA = 675 ppm	
@ 5' BLS	
B	0.00623
T	0.0603
E	0.0127
X	0.122
M	0.000994 U
N	0.0378
1-M	0.00502 I
2-M	0.00935 I
TR	7.75 I

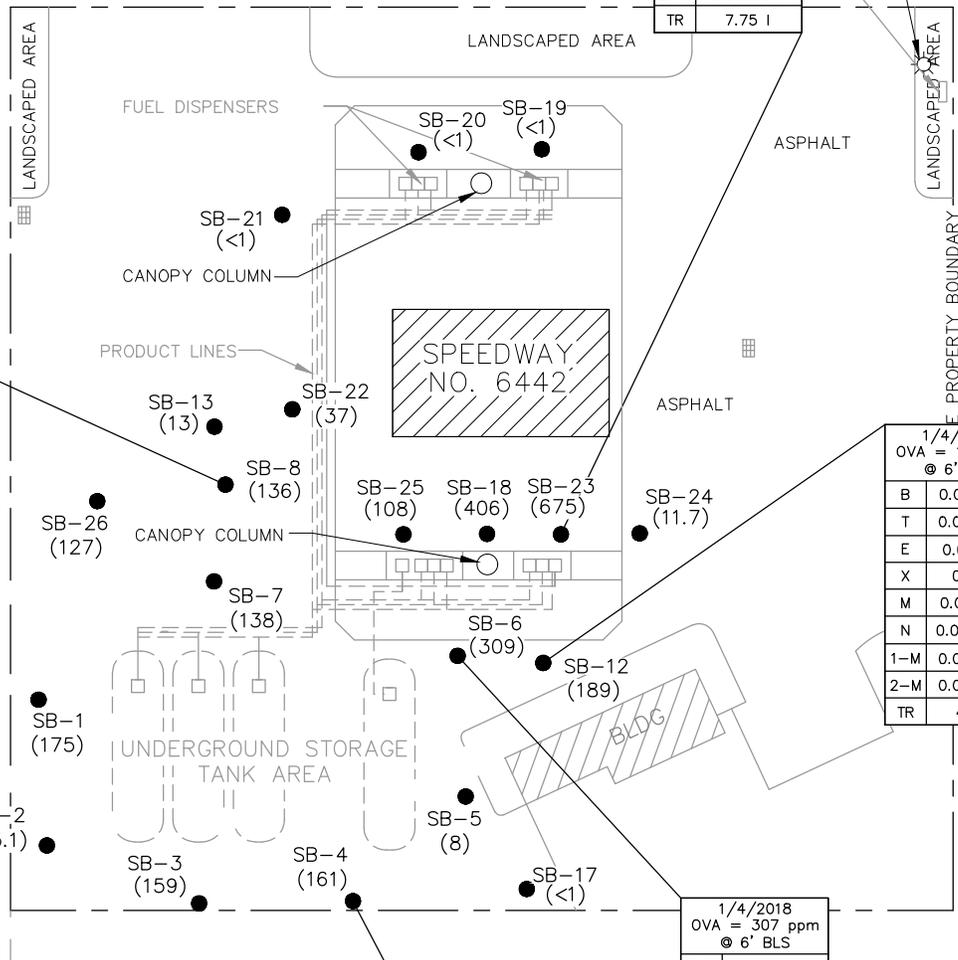
1/4/2018	
OVA = 136 ppm	
@ 5' BLS	
B	0.00147 U
T	0.00298 U
E	0.00357
X	0.0113
M	0.00109 U
N	0.00206 U
1-M	0.00206 U
2-M	0.00206 U
TR	6.84 I

1/4/2018	
OVA = 83.2 ppm	
@ 6' BLS	
B	0.00135 U
T	0.00275 U
E	0.00278
X	0.00686 I
M	0.00101 U
N	0.00259 IV
1-M	0.00207 U
2-M	0.00207 U
TR	6.51 I

1/4/2018	
OVA = 189 ppm	
@ 6' BLS	
B	0.00135 U
T	0.00706 U
E	0.00172 I
X	0.0278
M	0.00101 U
N	0.00343 IV
1-M	0.00208 U
2-M	0.00208 U
TR	4.57 I

1/4/2018	
OVA = 307 ppm	
@ 6' BLS	
B	0.00141 U
T	0.00326 I
E	0.00490
X	0.0929
M	0.00105 U
N	0.00239 IV
1-M	0.00208 U
2-M	0.00208 U
TR	12.1

1/4/2018	
OVA = 161 ppm	
@ 6' BLS	
B	0.00133 U
T	0.00272 U
E	0.00655
X	0.0647
M	0.000996 U
N	0.00560 IV
1-M	0.00203 U
2-M	0.00203 U
TR	25.6



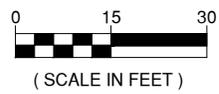
LEGEND	
▤	STORM DRAIN
●	SOIL BORING LOCATION
(675)	MAXIMUM VADOSE ZONE OVA READING (ppm)
OVA	ORGANIC VAPOR ANALYZER
ppm	PARTS PER MILLION
BLS	BELOW LAND SURFACE
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
M	MTBE (mg/kg)
N	NAPHTHALENE (mg/kg)
1-M	1-METHYLNAPHTHALENE (mg/kg)
2-M	2-METHYLNAPHTHALENE (mg/kg)
TR	TRPH (mg/kg)
V	DETECTED IN SAMPLE AND METHOD BLANK
U	BELOW LAB DETECTION LIMIT
I	MDL < RESULTS < REPORTING LIMIT
BOLD	CONCENTRATIONS IN BOLD EXCEED LIMITS

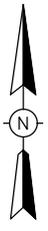
**PRE-EXCAVATION
SOIL SCREENING &
ANALYTICAL MAP
(JANUARY 4 & 5, 2018)**

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 2A





N WALL	
DEPTH	OVA (ppm)
2'	1.6
5'	4.8
10'	1.5
12'	4.5

E BASE	
DEPTH	OVA (ppm)
12'	47.5

N WALL-E	
DEPTH	OVA (ppm)
2'	2.9
5'	<1
10'	5.6
12'	5.3

E WALL-N	
DEPTH	OVA (ppm)
2'	<1
5'	<1
10'	<1
12'	<1

W-WALL OVA = 2892 ppm @ 8' BLS	
DEPTH	OVA (ppm)
B	1.54
T	82.5
E	41.2
X	299
M	0.00124 U
N	26.9
1-M	8.19
2-M	14.8
TR	3190 J

W-WALL	
DEPTH	OVA (ppm)
2'	150
4'	169
6'	2892
8'	2427

N-WALL	
DEPTH	OVA (ppm)
2'	38.3
4'	76.4
6'	78.6
8'	655

BASE	
DEPTH	OVA (ppm)
8'	2655

BASE OVA = 2655 ppm @ 8' BLS	
DEPTH	OVA (ppm)
B	0.258
T	30.4
E	25.9
X	219
M	0.00103 U
N	22.0
1-M	13.3
2-M	20.9
TR	2160

CENTER BASE	
DEPTH	OVA (ppm)
12'	22.3

N WALL-W @ 12' BLS	
DEPTH	OVA (ppm)
B	0.00148 U
T	0.00555 I
E	0.00382
X	0.0193
M	0.00111 U
N	0.00920 I
1-M	0.00654 I
2-M	0.00689 I
B(a)P	0.139
B(A)P E	0.2
TR	34.0

N WALL-W	
DEPTH	OVA (ppm)
2'	2.1
5'	2.7
10'	5.4
12'	12.4

W WALL-N	
DEPTH	OVA (ppm)
2'	6.8
5'	<1
10'	2.2
12'	1.6

W BASE	
DEPTH	OVA (ppm)
12'	7.1

W WALL-S @ 12' BLS	
DEPTH	OVA (ppm)
B	0.00135 U
T	0.0354
E	0.0134
X	0.285*
M	0.00101 U
N	0.0173 I
1-M	0.0175 I
2-M	0.0183 I
B(a)P	0.319
B(A)P E	0.5
TR	40.2

W WALL-S	
DEPTH	OVA (ppm)
2'	<1
5'	1.4
10'	4.5
12'	15.5

S WALL-W	
DEPTH	OVA (ppm)
2'	<1
5'	<1
10'	<1
12'	9.8

S WALL @ 12' BLS	
DEPTH	OVA (ppm)
B	0.00136 U
T	0.00277 U
E	0.00135 U
X	0.00500 U
M	0.00102 U
N	0.0314 U
1-M	0.0314 U
2-M	0.0314 U
B(a)P	0.0223 I
B(A)P E	0.0
TR	13.9

S WALL	
DEPTH	OVA (ppm)
2'	<1
5'	<1
10'	<1
12'	15.7

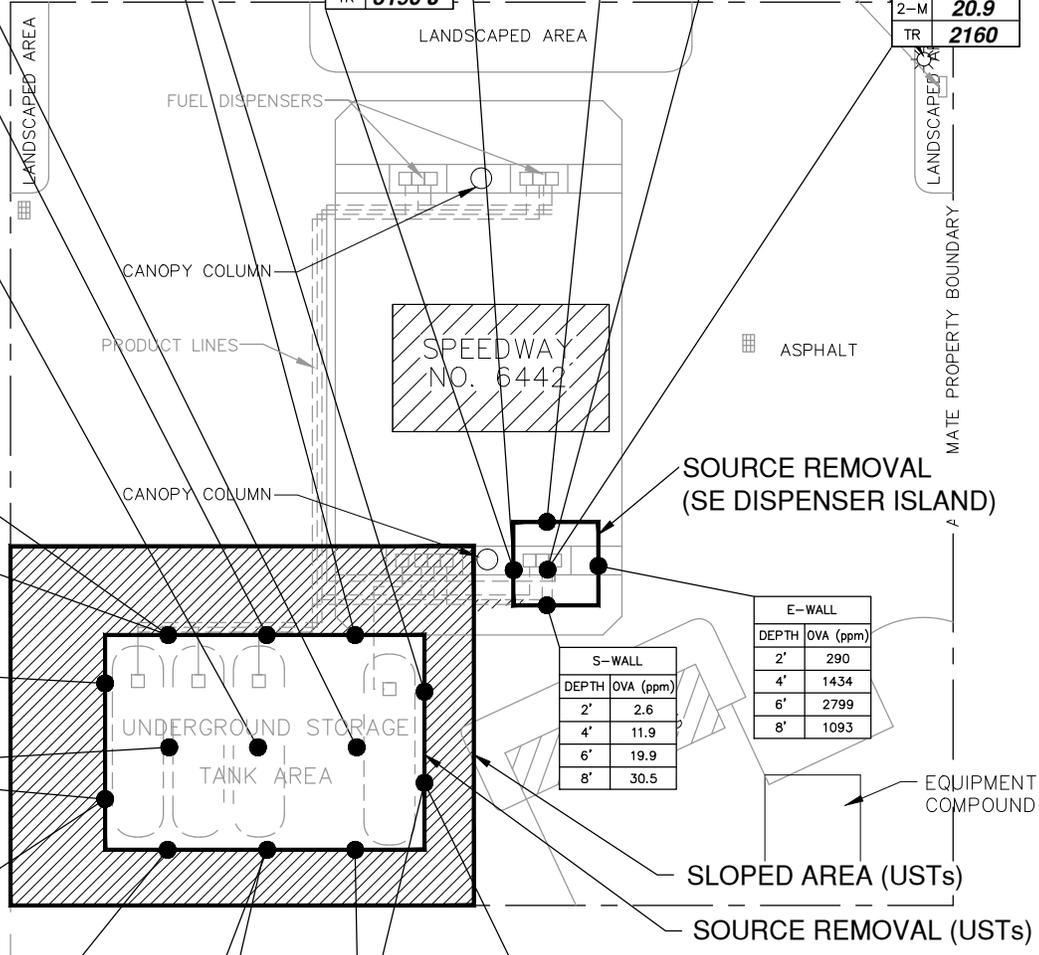
E WALL-S	
DEPTH	OVA (ppm)
2'	<1
5'	39.3
10'	7.2
12'	1.5

E WALL-S @ 5' BLS	
DEPTH	OVA (ppm)
B	0.00149 U
T	0.00509 I
E	0.0119
X	0.0827
M	0.00112 U
N	0.0299
1-M	0.144
2-M	0.0975
B(a)P	0.00510 I
B(A)P E	0.0
TR	16.8

S WALL-E	
DEPTH	OVA (ppm)
2'	<1
5'	<1
10'	<1
12'	<1

LEGEND

- SOIL BORING LOCATION
- OVA ORGANIC VAPOR ANALYZER
- ppm PARTS PER MILLION
- BLS BELOW LAND SURFACE
- B BENZENE (mg/kg)
- T TOLUENE (mg/kg)
- E ETHYLBENZENE (mg/kg)
- X TOTAL XYLENES (mg/kg)
- M MTBE (mg/kg)
- N NAPHTHALENE (mg/kg)
- 1-M 1-METHYLNAPHTHALENE (mg/kg)
- 2-M 2-METHYLNAPHTHALENE (mg/kg)
- B(a)P BENZO(a)PYRENE (mg/kg)
- B(A)P E BENZO(a)PYRENE EQUIVALENT (mg/kg)
- TR TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH)
- U BELOW LAB DETECTION LIMIT
- I MDL < RESULTS < REPORTING LIMIT
- BOLD** CONCENTRATIONS IN BOLD EXCEED LIMITS
- * SPLP < GCTLs
- SPLP SYNTHETIC PRECIPITATE LEACHING PROCEDURE
- GCTLs GROUNDWATER CLEANUP TARGET LEVELS



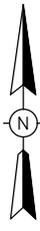
**POST-EXCAVATION
SOIL SCREENING &
ANALYTICAL RESULTS
(FEBRUARY 23, 2018)**

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 2B





SAMPLE ROAD

SB-47 8/12/2019 OVA = <1 ppm @ 9' BLS	
B	NA
T	NA
E	NA
X	NA
M	NA
N	0.00240 U
1-M	0.00240 U
2-M	0.00240 U
TR	NA
B(a)P E	0.0

SB-51 8/12/2019 OVA = <1 ppm @ 6'-8' BLS	
B	NA
T	NA
E	NA
X	NA
M	NA
N	0.00211 U
1-M	0.00211 U
2-M	0.00211 U
TR	NA
B(a)P E	0.0

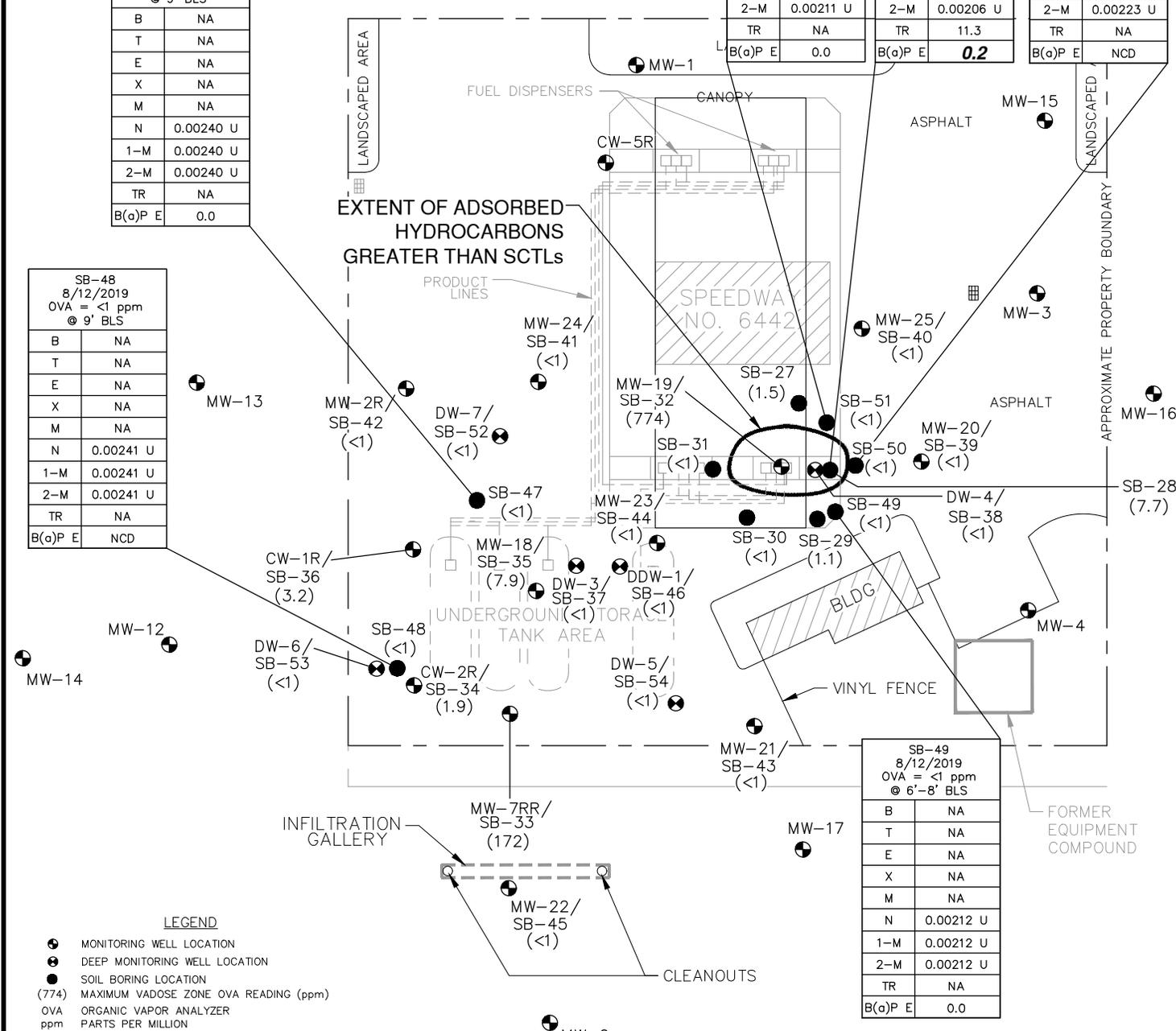
SB-28 8/7/2018 OVA = <1 ppm @ 6'-8' BLS	
B	0.000411 U
T	0.00209 I
E	0.000545 U
X	0.00491 U
M	0.000303 U
N	0.00206 U
1-M	0.00206 U
2-M	0.00206 U
TR	11.3
B(a)P E	0.2

SB-50 8/12/2019 OVA = <1 ppm @ 6'-8' BLS	
B	NA
T	NA
E	NA
X	NA
M	NA
N	0.00223 U
1-M	0.00223 U
2-M	0.00223 U
TR	NA
B(a)P E	NCD

SB-48 8/12/2019 OVA = <1 ppm @ 9' BLS	
B	NA
T	NA
E	NA
X	NA
M	NA
N	0.00241 U
1-M	0.00241 U
2-M	0.00241 U
TR	NA
B(a)P E	NCD

SB-49 8/12/2019 OVA = <1 ppm @ 6'-8' BLS	
B	NA
T	NA
E	NA
X	NA
M	NA
N	0.00212 U
1-M	0.00212 U
2-M	0.00212 U
TR	NA
B(a)P E	0.0

EXTENT OF ADSORBED HYDROCARBONS GREATER THAN SCTLs



LEGEND

- ⊕ MONITORING WELL LOCATION
- ⊕ DEEP MONITORING WELL LOCATION
- SOIL BORING LOCATION
- (774) MAXIMUM VADOSE ZONE OVA READING (ppm)
- OVA ORGANIC VAPOR ANALYZER
- ppm PARTS PER MILLION
- BLS BELOW LAND SURFACE
- B BENZENE (mg/kg)
- T TOLUENE (mg/kg)
- E ETHYLBENZENE (mg/kg)
- X TOTAL XYLENES (mg/kg)
- M MTBE (mg/kg)
- N NAPHTHALENE (mg/kg)
- 1-M 1-METHYLNAPHTHALENE (mg/kg)
- 2-M 2-METHYLNAPHTHALENE (mg/kg)
- TR TRPH (mg/kg)
- B(a)PE BENZO(a)PYRENE EQUIVALENT
- V DETECTED IN SAMPLE AND METHOD BLANK
- U BELOW LAB DETECTION LIMIT
- I MDL < RESULTS < REPORTING LIMIT
- BOLD** CONCENTRATIONS IN BOLD EXCEED LIMITS
- NA NOT ANALYZED
- NCD NO COMPOUNDS DETECTED

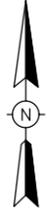


SOIL SCREENING & ANALYTICAL MAP
(AUGUST 2018 - AUGUST 2019)

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 2C



MW-13 11/13/2018			
B	0.331 U		
T	0.412 U		
E	0.384 U		
X	1.06 U		
M	0.367 U		
N	0.0333 IV		
1-M	0.00821 U		
2-M	0.00902 U		
TR	276 I		
B(a)P	0.0116 U		
B(a)A	0.00410 U		
B(b)F	0.00212 U		
B(k)F	0.0136 U		
C	0.0108 U		
DBA	0.00396 U		
IND	0.0148 U		

MW-2R 4/24/2019 2/24/2020		
B	0.331 U	NA
T	0.412 U	NA
E	0.384 U	NA
X	1.06 U	NA
M	0.367 U	NA
N	0.0370 IV	0.0198 U
1-M	0.00821 U	0.00821 U
2-M	0.00902 U	0.00902 U
TR	100 U	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

MW-2 8/17/2018 11/13/2018		
B	0.331 U	0.331 U
T	0.412 U	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0686 IV	0.0437 IV
1-M	0.0261 I	0.00856 I
2-M	0.0422 I	0.00902 U
TR	NA	210 I
B(a)P	0.0585	1.46
B(a)A	0.0312 I	0.628
B(b)F	0.144	3.65
B(k)F	0.0544	1.08
C	0.104	1.90
DBA	0.0116 I	0.376
IND	0.0643	1.71

CW-5R 11/13/2018	
B	0.331 U
T	0.412 U
E	0.384 U
X	1.06 U
M	0.367 U
N	0.0259 IV
1-M	0.00821 U
2-M	0.00902 U
TR	104 I
B(a)P	0.0116 U
B(a)A	0.00410 U
B(b)F	0.00245 I
B(k)F	0.0136 U
C	0.0108 U
DBA	0.00396 U
IND	0.0148 U

MW-24 4/24/2019 2/24/2020		
B	0.331 U	0.331 U
T	0.412 U	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0364 IV	0.0198 U
1-M	0.00973 I	0.00821 U
2-M	0.00937 I	0.00902 U
TR	100 U	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

MW-25 4/23/2019 2/25/2020		
B	0.331 U	0.331 U
T	0.412 U	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0281 IV	0.0255 I
1-M	0.00821 U	0.00821 U
2-M	0.00902 U	0.00902 U
TR	100 U	100 U
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

MW-3 11/13/2018 4/23/2019		
B	0.331 U	0.331 U
T	0.686 I	0.412 U
E	0.440 I	0.384 U
X	1.97 I	1.06 U
M	0.367 U	0.367 U
N	0.0579 IV	0.0364 IV
1-M	0.00821 U	0.00821 U
2-M	0.00902 U	0.00902 U
TR	100 U	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

MW-19 8/17/2018 11/13/2018 2/25/2020			
B	4510	6160	164
T	37800	37800	2570
E	4340	4150	1070
X	28400	27500	7810
M	36.7 U	3.67 U	3.67 U
N	647	665	314
1-M	70.7	65.1	43.7
2-M	80.8	77.8	67.3
TR	31700	32700	11700
B(a)P	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U	0.00410 U
B(b)F	0.00564 IV	0.00678 I	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U

CW-1R				
	8/17/2018	11/13/2018	4/24/2019	2/24/2020
B	0.331 U	0.331 U	0.331 U	0.331 U
T	0.412 U	0.412 U	0.412 U	0.412 U
E	0.401 I	0.728 I	0.384 U	0.384 U
X	1.40 I	1.06 U	1.06 U	1.06 U
M	3.56	0.367 U	0.367 U	0.367 U
N	2.14	1.07	1.14	0.0236 I
1-M	3.32	3.18	2.17	0.00870 I
2-M	5.69	5.34	3.65	0.00902 U
TR	NA	257 I	NA	NA
B(a)P	0.0116 U	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U	0.00410 U	0.00410 U
B(b)F	0.00459 IV	0.00307 I	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U	0.0148 U

MW-18				
	8/17/2018	11/13/2018	4/24/2019	2/25/2020
B	562	650	364	92.6 I
T	4960	132	41.2 U	41.2 U
E	3320	3220	2990	1660
X	17900	10700	7060	668
M	18.4 U	0.367 U	36.7 U	36.7 U
N	738	913	1020	664
1-M	114	184	237	176
2-M	160	249	327	248
TR	NA	23900	27600	7080
B(a)P	0.0116 U	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.0131 I	0.00410 U	0.00410 U	0.00410 U
B(b)F	0.00831 IV	0.00558 I	0.00212 U	0.00578 I
B(k)F	0.0136 U	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U	0.0148 U

CW-2R				
	8/17/2018	11/13/2018	4/24/2019	2/24/2020
B	0.331 U	0.331 U	0.331 U	0.331 U
T	0.412 U	0.412 U	0.412 U	0.412 U
E	0.384 U	0.384 U	0.384 U	0.384 U
X	1.06 U	1.06 U	1.06 U	1.06 U
M	0.367 U	0.367 U	0.367 U	0.367 U
N	0.244 IV	0.0277 IV	0.0227 IV	0.0198 U
1-M	0.609	0.00821 U	0.00821 U	0.00821 U
2-M	0.263	0.00902 U	0.00902 U	0.00902 U
TR	NA	100 U	NA	NA
B(a)P	0.0116 U	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U	0.00410 U	0.00410 U
B(b)F	0.00532 IV	0.00290 I	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U	0.0148 U

MW-7RR				
	8/17/2018	11/13/2018	4/24/2019	2/24/2020
B	0.331 U	0.331 U	0.331 U	0.331 U
T	0.494 I	0.412 U	0.412 U	0.412 U
E	176	34.8	25.3	2.94
X	1270	219	88.9	1.60 I
M	0.367 U	0.367 U	0.367 U	0.367 U
N	286	82.0	55.9	4.35
1-M	99.4	53.0	46.3	6.40
2-M	141	65.2	54.3	2.73
TR	NA	3590	NA	NA
B(a)P	0.0116 U	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.0143 I	0.0168 I	0.0166 I	0.00410 U
B(b)F	0.00447 IV	0.00541 I	0.00290 I	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U	0.0148 U

MW-9 11/13/2018	
B	0.331 U
T	0.412 U
E	0.384 U
X	1.06 U
M	0.367 U
N	0.0394 IV
1-M	0.00821 U
2-M	0.00902 U
TR	100 U
B(a)P	0.0116 U
B(a)A	0.00410 U
B(b)F	0.00212 U
B(k)F	0.0136 U
C	0.0108 U
DBA	0.00396 U
IND	0.0148 U

MW-22 4/24/2019 2/24/2020		
B	0.331 U	0.331 U
T	0.412 U	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0342 IV	0.0198 U
1-M	0.00821 U	0.00821 U
2-M	0.00902 U	0.00902 U
TR	145 I	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

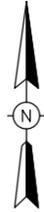
MW-17 11/13/2018	
B	0.331 U
T	0.412 U
E	0.384 U
X	1.06 U
M	0.367 U
N	0.0308 IV
1-M	0.00821 U
2-M	0.00902 U
TR	100 U
B(a)P	0.0116 U
B(a)A	0.00410 U
B(b)F	0.00252 I
B(k)F	0.0136 U
C	0.0108 U
DBA	0.00396 U
IND	0.0148 U

MW-21 4/23/2019 2/24/2020		
B	0.331 U	0.331 U
T	0.412 U	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0311 IV	0.0198 U
1-M	0.00821 U	0.00821 U
2-M	0.00902 U	0.00902 U
TR	100 U	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00556 I	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

MW-23 4/23/2019 2/25/2020		
B	1.53	0.331 U
T	0.412 U	0.412 U
E	14.3	0.384 U
X	1.21 I	1.06 U
M	0.367 U	0.367 U
N	15.7	0.0303 I
1-M	8.76	0.00821 U
2-M	4.08	0.00902 U
TR	1910	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.0128 I	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

SAMPLE ROAD

LIGHT POLE
FORMER METER POLE



SAMPLE ROAD

LIGHT POLE
FORMER METER POLE

DW-7		
	8/28/2019	2/24/2020
B	0.331 U	0.331 U
T	0.926 I	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.198 U	0.0198 U
1-M	0.0821 U	0.00821 U
2-M	0.0902 U	0.00902 U
TR	100 U	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.0752	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

DW-6		
	8/28/2019	2/24/2020
B	0.331 U	0.331 U
T	0.715 I	0.412 U
E	0.384 U	0.384 U
X	1.06 U	1.06 U
M	0.367 U	0.367 U
N	0.0416 IV	0.0198 U
1-M	0.00959 IV	0.00821 U
2-M	0.0116 I	0.00902 U
TR	139 I	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

DW-4			
	4/23/2019	8/28/2019	2/25/2020
B	0.595 I	0.331 U	0.331 U
T	2.39	0.412 U	0.412 U
E	0.601 I	0.384 U	0.384 U
X	1.82 I	1.06 U	1.06 U
M	0.367 U	0.367 U	0.732 I
N	0.233 IV	0.0719 IV	0.0198 U
1-M	0.0483 I	0.0207 IV	0.00821 U
2-M	0.0639 I	0.0326 I	0.00902 U
TR	100 U	100 U	NA
B(a)P	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.00763 I	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U

DW-3			
	4/24/2019	8/28/2019	2/25/2020
B	187	117	9.23
T	3.40	2.02	0.412 U
E	54.3	31.5	0.384 U
X	11.1	4.31	1.06 U
M	3.30	3.24	5.12
N	383	248	1.21
1-M	81.2	66.0	17.6
2-M	118	86.5	0.0120 I
TR	2790	2040	NA
B(a)P	0.0116 U	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U	0.0148 U

DW-5		
	8/28/2019	2/24/2020
B	0.331 U	0.331 U
T	0.991 I	0.412 U
E	0.384 U	0.384 U
X	1.68 I	1.06 U
M	0.367 U	0.367 U
N	0.552	0.114 I
1-M	0.259	0.0498 I
2-M	0.256	0.0591 I
TR	277 I	NA
B(a)P	0.0116 U	0.0116 U
B(a)A	0.00410 U	0.00410 U
B(b)F	0.00212 U	0.00212 U
B(k)F	0.0136 U	0.0136 U
C	0.0108 U	0.0108 U
DBA	0.00396 U	0.00396 U
IND	0.0148 U	0.0148 U

DDW-1	
	8/28/2019
B	0.331 U
T	0.913 I
E	0.384 U
X	1.06 U
M	0.367 U
N	0.0232 IV
1-M	0.00848 IV
2-M	0.00949 I
TR	100 U
B(a)P	0.0116 U
B(a)A	0.00410 U
B(b)F	0.00212 U
B(k)F	0.0136 U
C	0.0108 U
DBA	0.00396 U
IND	0.0148 U

ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN GCTLs

- LEGEND**
- MONITORING WELL LOCATION
 - ⊙ DEEP MONITORING WELL LOCATION
 - ⊗ DESTROYED / ABANDONED WELL LOCATION
 - ⊘ ABANDONED GROUNDWATER RECOVERY WELL
 - B BENZENE (ug/L)
 - T TOLUENE (ug/L)
 - E ETHYLBENZENE (ug/L)
 - X TOTAL XYLENES (ug/L)
 - M MTEB (ug/L)
 - N NAPHTHALENE (ug/L)
 - 1-M 1-METHYLNAPHTHALENE (ug/L)
 - 2-M 2-METHYLNAPHTHALENE (ug/L)
 - TR TRPH (ug/L)
 - B(a)P BENZO(a)PYRENE (ug/L)
 - B(a)A BENZO(a)ANTHRACENE (ug/L)
 - B(b)F BENZO(b)FLUORANTHENE (ug/L)
 - B(k)F BENZO(k)FLUORANTHENE (ug/L)
 - C CHRYSENE (ug/L)
 - DBA DIBENZ(a,h)ANTHRACENE (ug/L)
 - IND INDENO(1,2,3-cd)PYRENE (ug/L)
 - NA NOT ANALYZED
 - U BELOW LAB DETECTION LIMIT
 - I MDL < RESULTS < REPORTING LIMIT
 - V DETECTED IN SAMPLE AND METHOD BLANK
 - BOLD** CONCENTRATIONS IN BOLD EXCEED LIMITS
 - GCTLs GROUNDWATER CLEANUP TARGET LEVELS



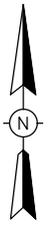
GROUNDWATER ANALYTICAL MAP - DEEP ZONE

(APRIL 2019 - FEBRUARY 2020)

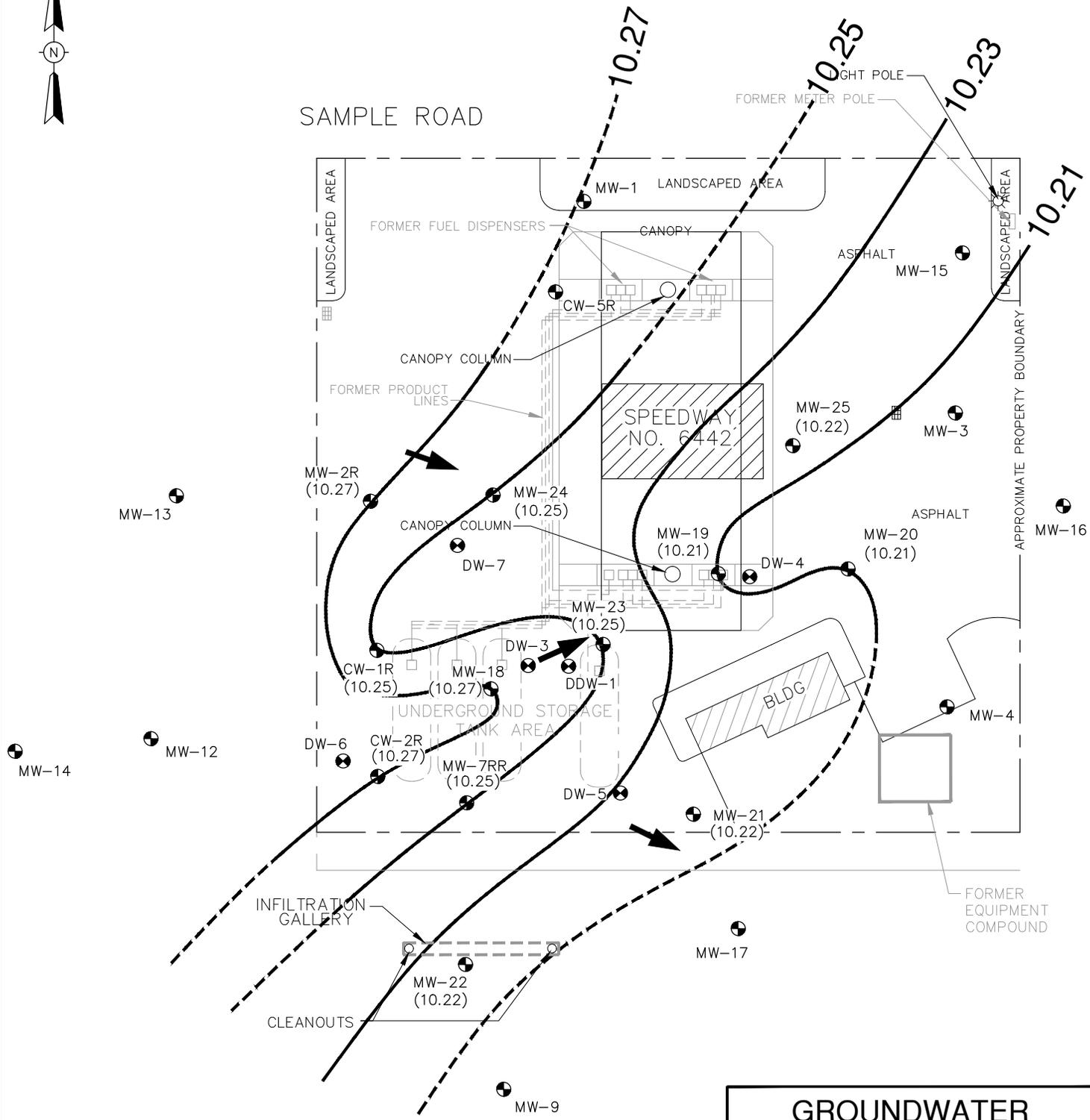
Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 3B



SAMPLE ROAD

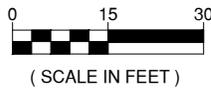


LEGEND

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- (10.22)

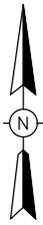
 GROUNDWATER ELEVATION (FT.)
- 10.27

 GROUNDWATER CONTOUR (FT.)
- DIRECTION OF GROUNDWATER FLOW



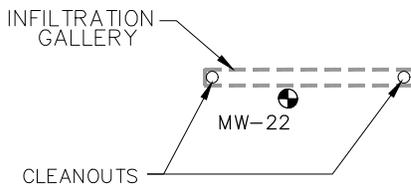
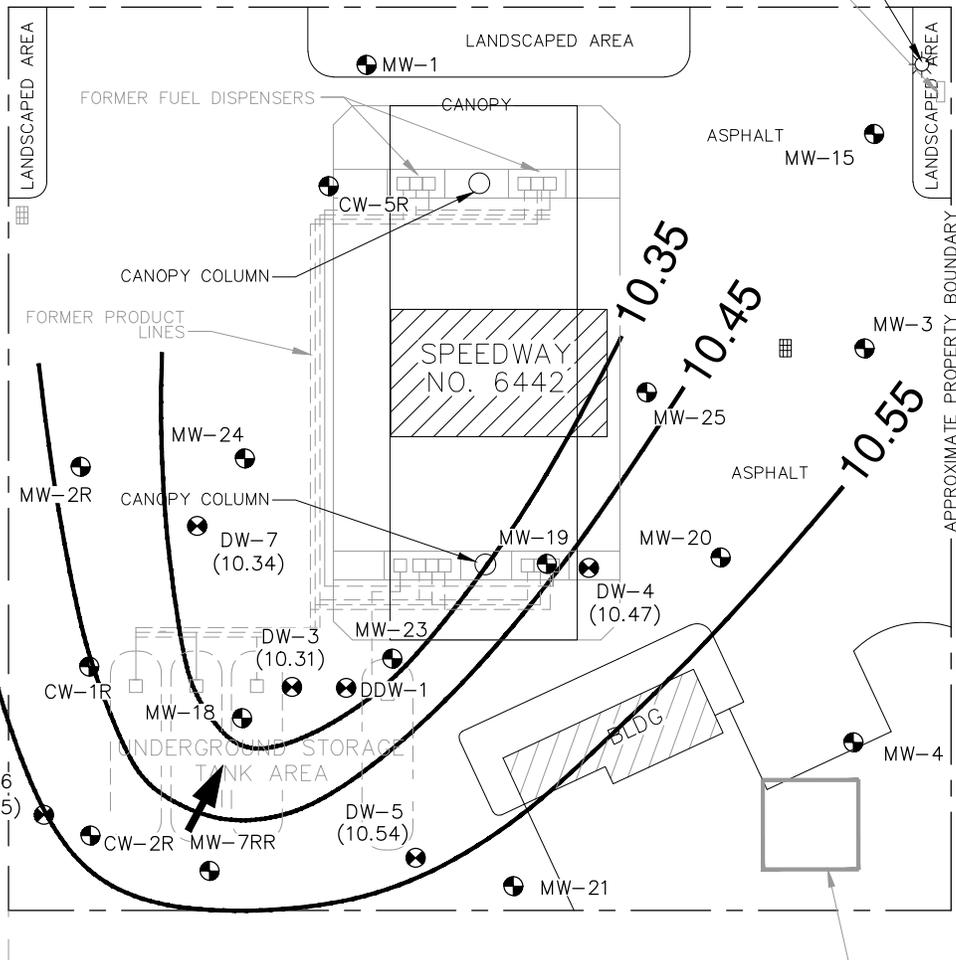
**GROUNDWATER
ELEVATION CONTOUR
MAP - SHALLOW ZONE
(FEBRUARY 24, 2020)**

Speedway No. 6442
 FDEP FAC. ID NO.: 06/8502103
 900 East Sample Road, Pompano Beach, Florida

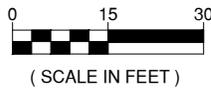


SAMPLE ROAD

LIGHT POLE
FORMER METER POLE



- LEGEND**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATION
 - (10.54) GROUNDWATER ELEVATION (FT.)
 - GROUNDWATER CONTOUR (FT.)
 - DIRECTION OF GROUNDWATER FLOW

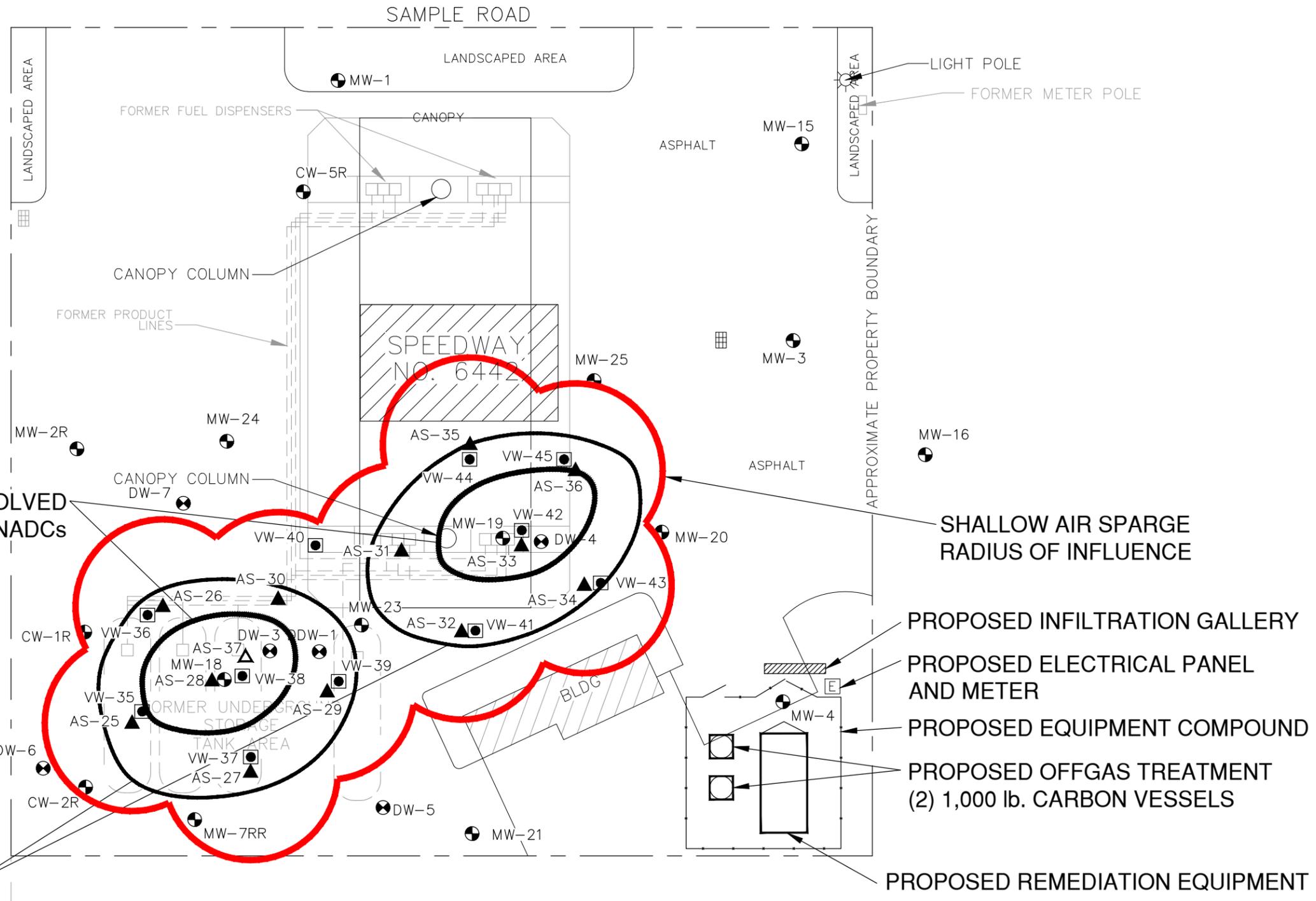
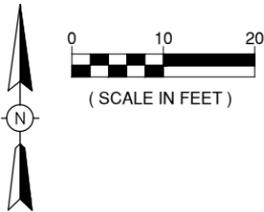


**GROUNDWATER
ELEVATION CONTOUR
MAP - DEEP ZONE
(FEBRUARY 24, 2020)**

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida

Earth Systems Figure 4B

05/20 FIG4B



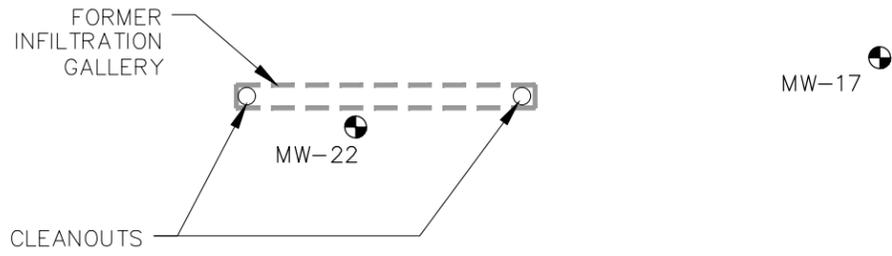
ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN NADCS

SHALLOW AIR SPARGE RADIUS OF INFLUENCE

- PROPOSED INFILTRATION GALLERY
- PROPOSED ELECTRICAL PANEL AND METER
- PROPOSED EQUIPMENT COMPOUND
- PROPOSED OFFGAS TREATMENT (2) 1,000 lb. CARBON VESSELS

ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN GCTLs

PROPOSED REMEDIATION EQUIPMENT

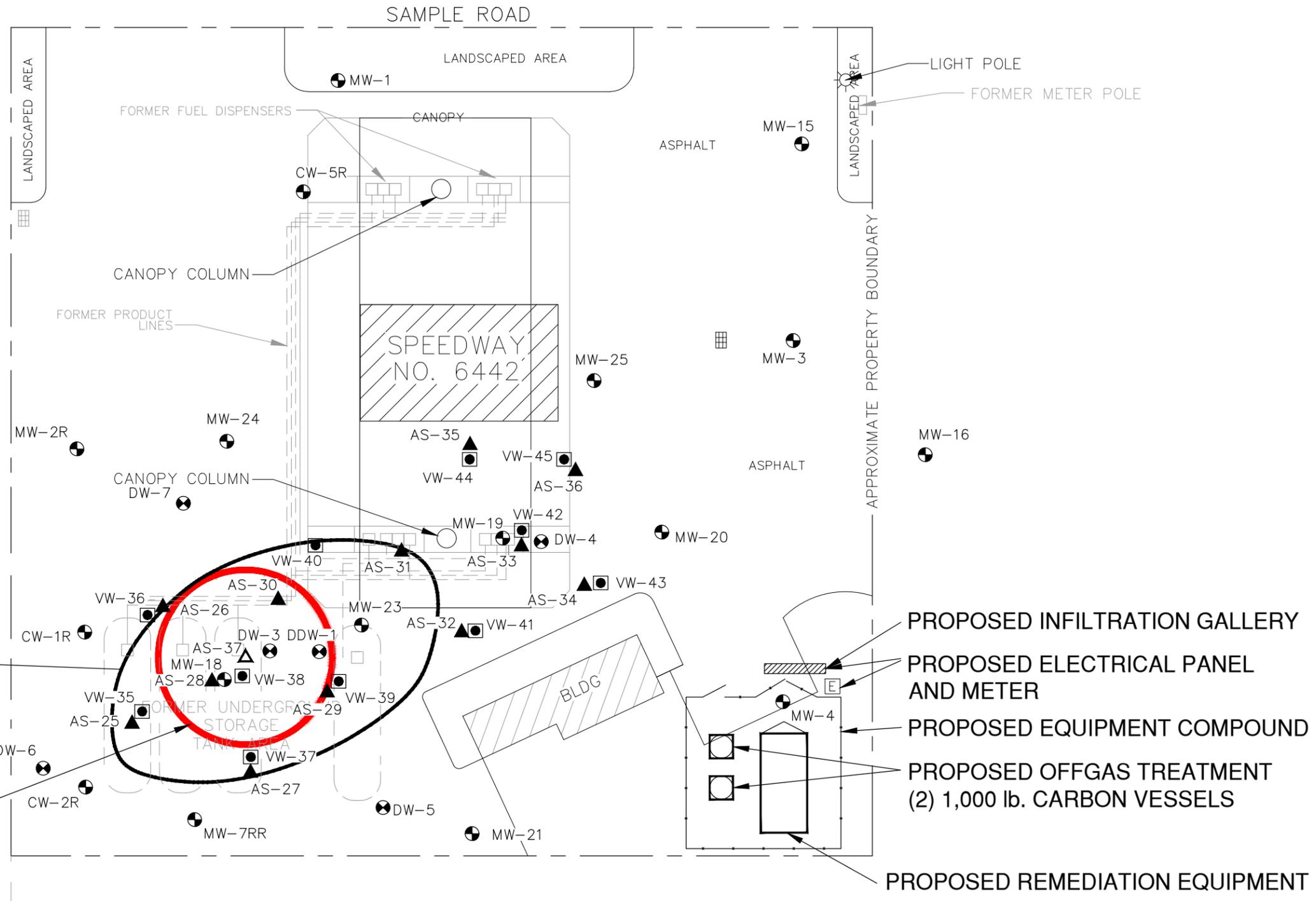
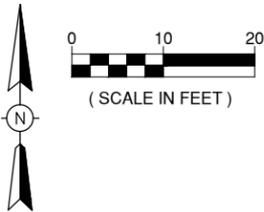


- LEGEND**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATION
 - ▲ PROPOSED SHALLOW AIR SPARGE WELL LOCATION
 - ▲ PROPOSED DEEP AIR SPARGE WELL LOCATION
 - PROPOSED VAPOR EXTRACTION WELL LOCATION

AIR SPARGE RADIUS OF INFLUENCE - SHALLOW ZONE

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida

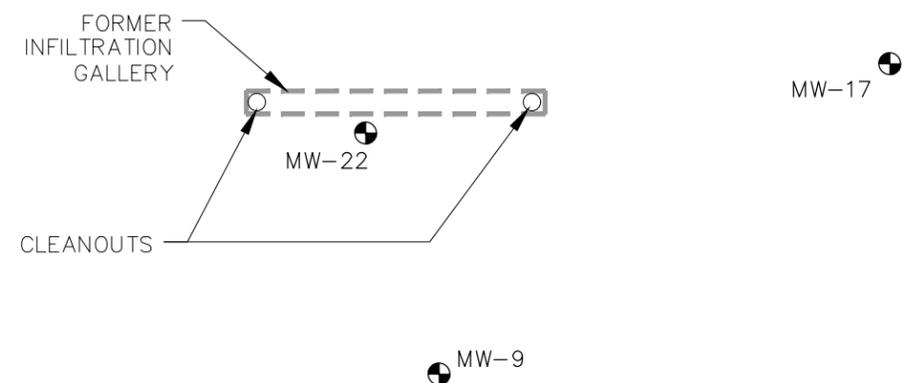
Figure 6A



ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN GCTLs

DEEP AIR SPARGE RADIUS OF INFLUENCE

- PROPOSED INFILTRATION GALLERY
- PROPOSED ELECTRICAL PANEL AND METER
- PROPOSED EQUIPMENT COMPOUND
- PROPOSED OFFGAS TREATMENT (2) 1,000 lb. CARBON VESSELS
- PROPOSED REMEDIATION EQUIPMENT



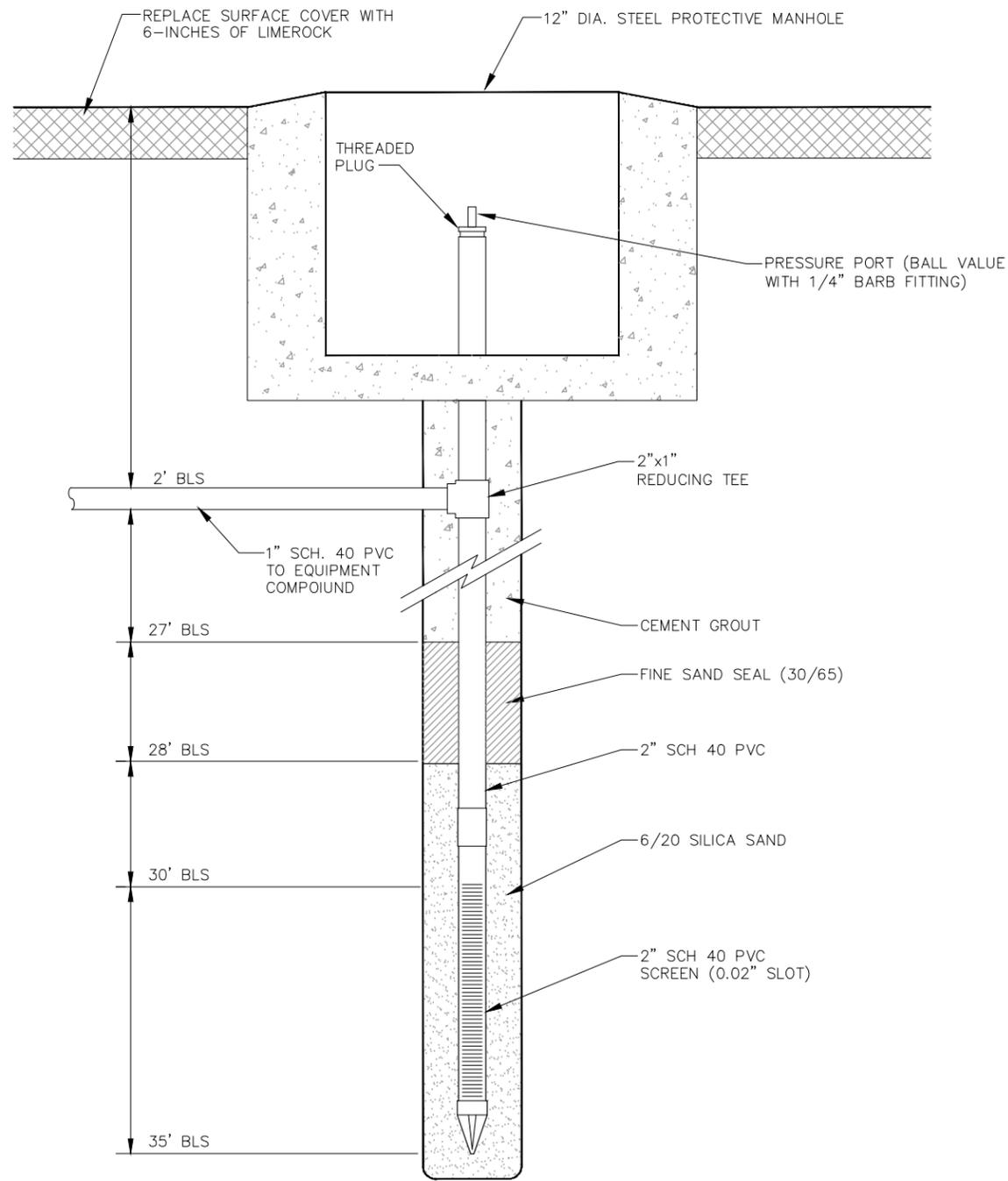
- LEGEND**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATION
 - ▲ PROPOSED SHALLOW AIR SPARGE WELL LOCATION
 - ▲ PROPOSED DEEP AIR SPARGE WELL LOCATION
 - PROPOSED VAPOR EXTRACTION WELL LOCATION

AIR SPARGE RADIUS OF INFLUENCE - DEEP ZONE

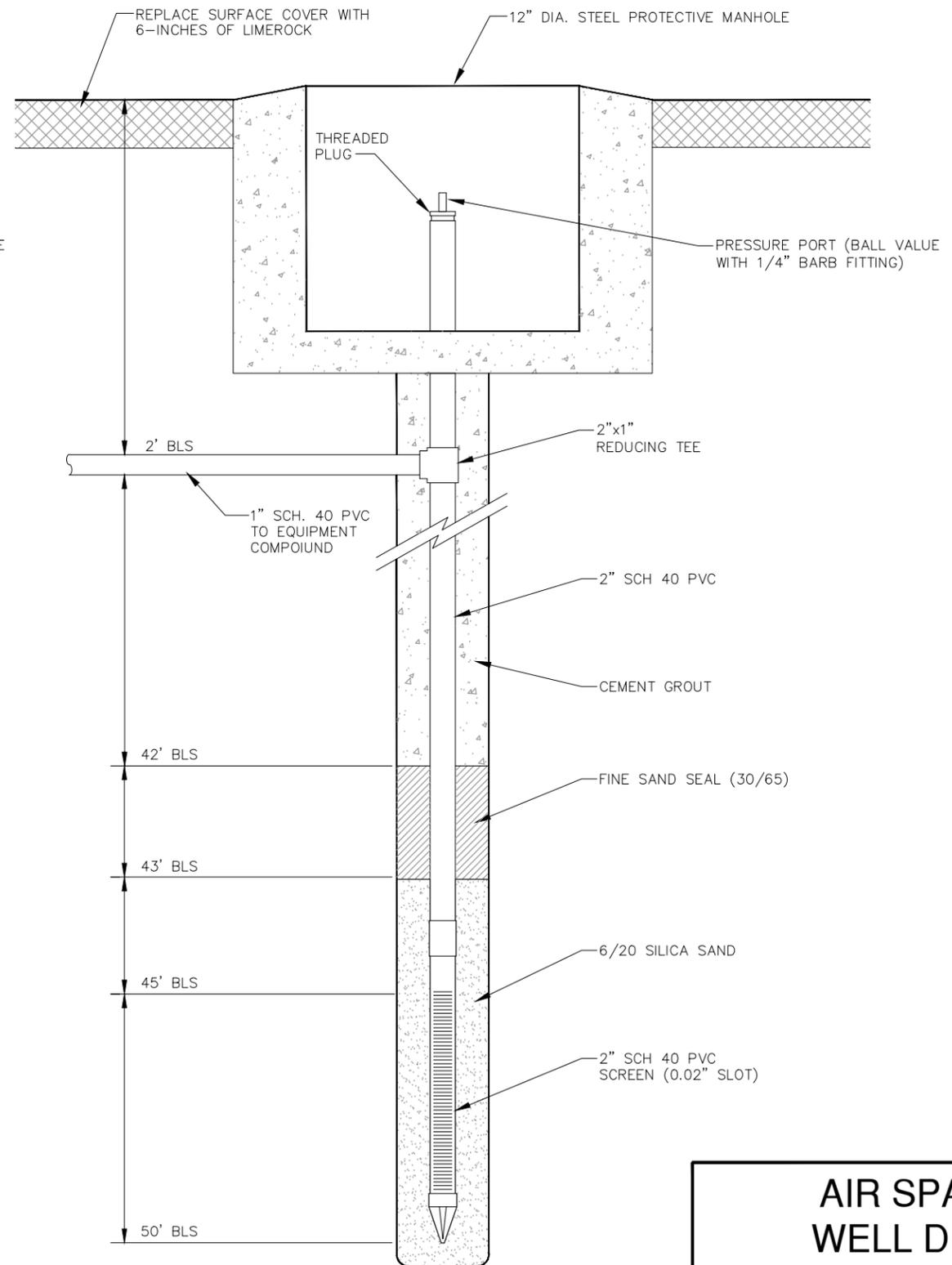
Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida

Earth Systems
Environmental Engineering

Figure 6B



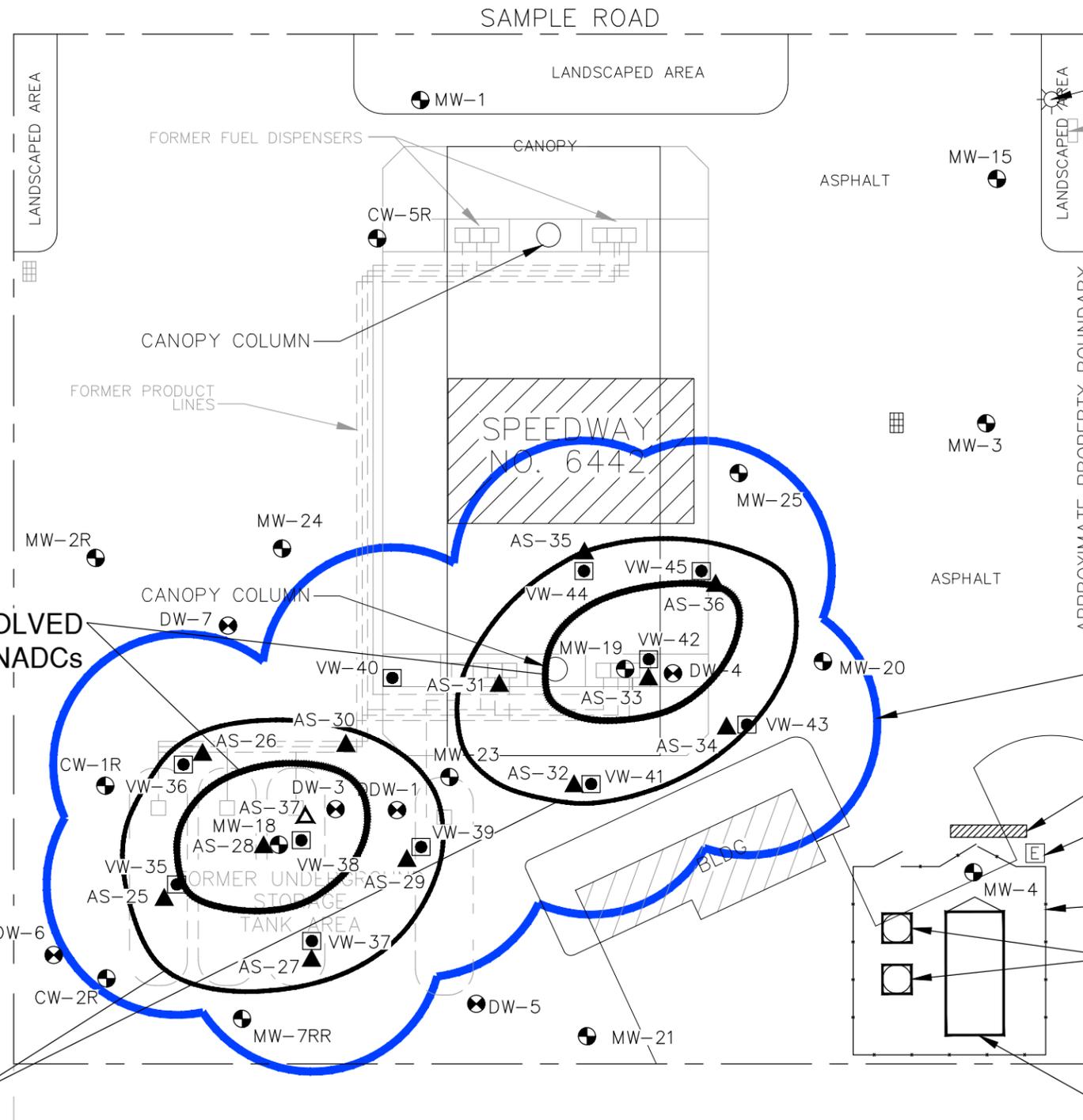
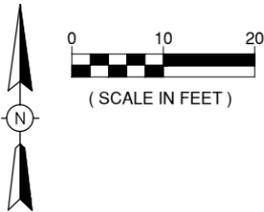
SHALLOW AIR SPARGE WELL
(WELLS AS-25 THROUGH AS-36)
N.T.S.



DEEP AIR SPARGE WELL
(WELL AS-37)
N.T.S.

AIR SPARGE WELL DETAIL

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN NADCS

VAPOR EXTRACTION RADIUS OF INFLUENCE

PROPOSED INFILTRATION GALLERY

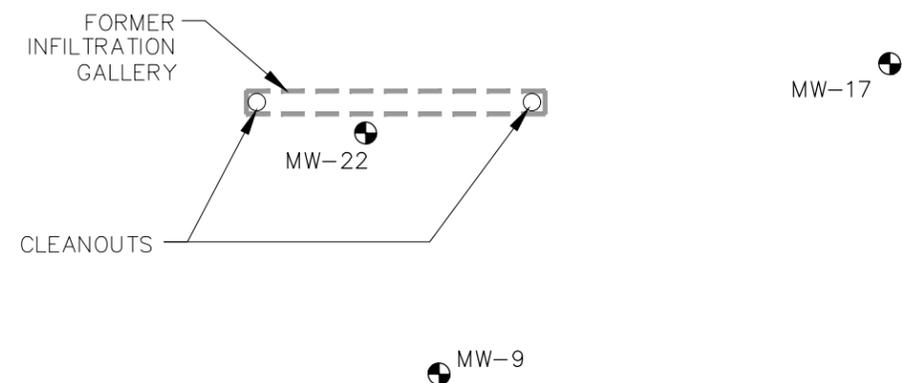
PROPOSED ELECTRICAL PANEL AND METER

PROPOSED EQUIPMENT COMPOUND

PROPOSED OFFGAS TREATMENT (2) 1,000 lb. CARBON VESSELS

ESTIMATED EXTENT OF DISSOLVED HYDROCARBONS GREATER THAN GCTLs

PROPOSED REMEDIATION EQUIPMENT



VAPOR EXTRACTION RADIUS OF INFLUENCE

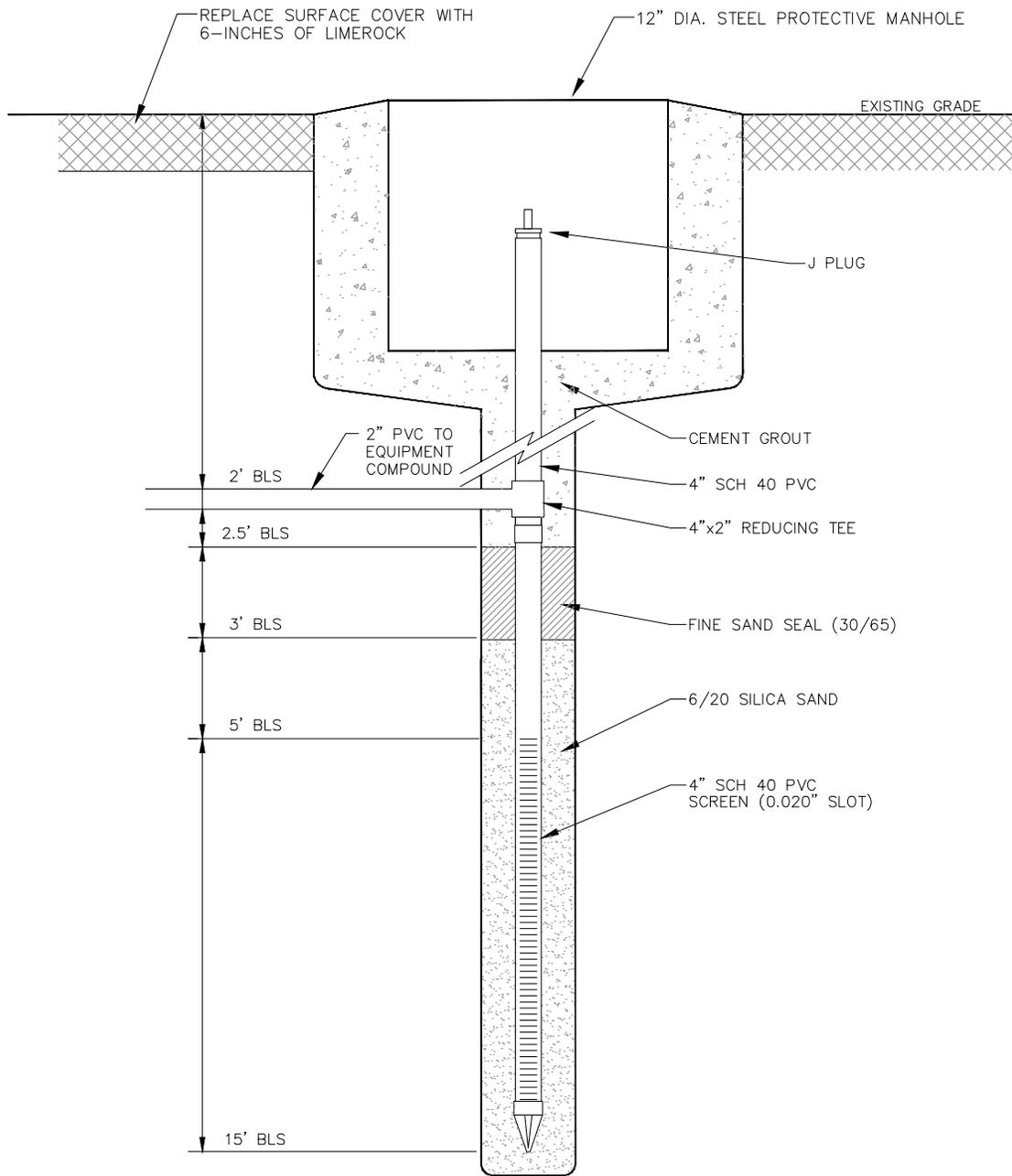
Speedway No. 6442
 FDEP FAC. ID NO.: 06/8502103
 900 East Sample Road, Pompano Beach, Florida



Figure 8

- LEGEND**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATION
 - ▲ PROPOSED SHALLOW AIR SPARGE WELL LOCATION
 - ▲ PROPOSED DEEP AIR SPARGE WELL LOCATION
 - PROPOSED VAPOR EXTRACTION WELL LOCATION

05/20 FIG8



VAPOR EXTRACTION WELL
(WELLS VW-35 THROUGH VW-45)

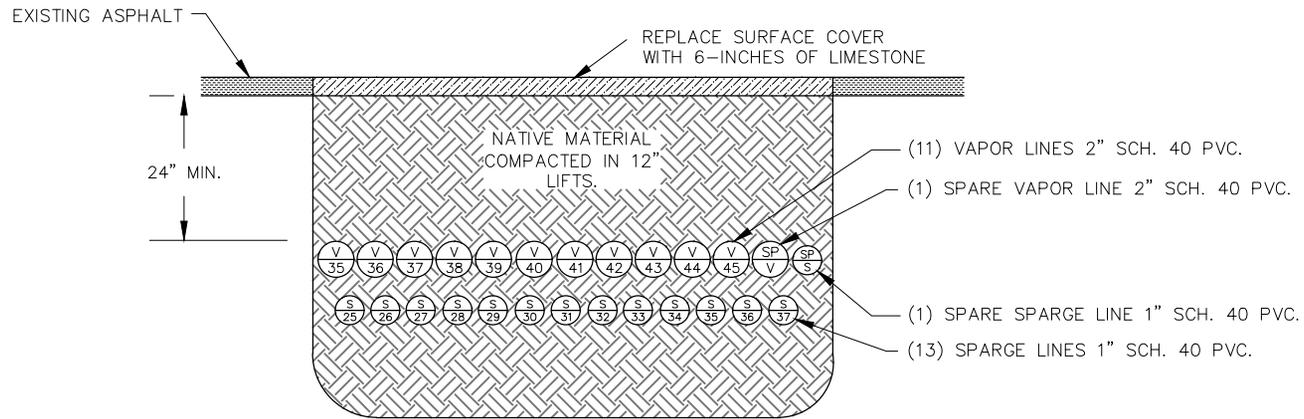
N.T.S.

VAPOR EXTRACTION
WELL DETAIL

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida

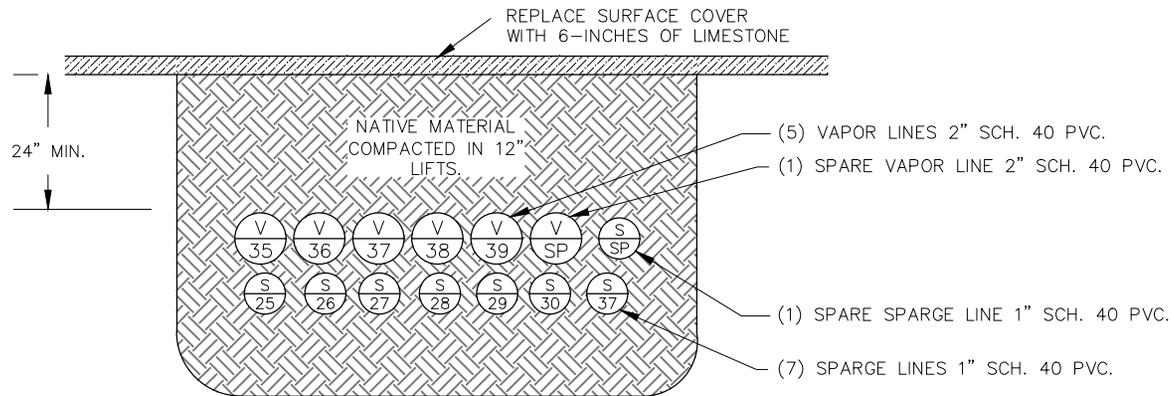


Figure 9



SECTION A-A'

N.T.S.



SECTION B-B'

N.T.S.

* TRENCH WIDTH WILL VARY DEPENDING UPON NUMBER OF PIPES TO BE INSTALLED.

NOTES:

1. SAWCUT EXISTING PAVEMENT PRIOR TO EXCAVATION.
2. BACKFILL MATERIAL TO BE MECHANICALLY COMPACTED IN 6" LIFTS.
3. SPARE PIPES SHALL BE PLACED ON TOP OF THE ACTIVE PIPES AS DEPICTED.
4. SPARE PIPES SHALL BE LABELED WITH A SHARPIE MARKER AT A MAXIMUM OF TWO FOOT INTERVALS.

LEGEND



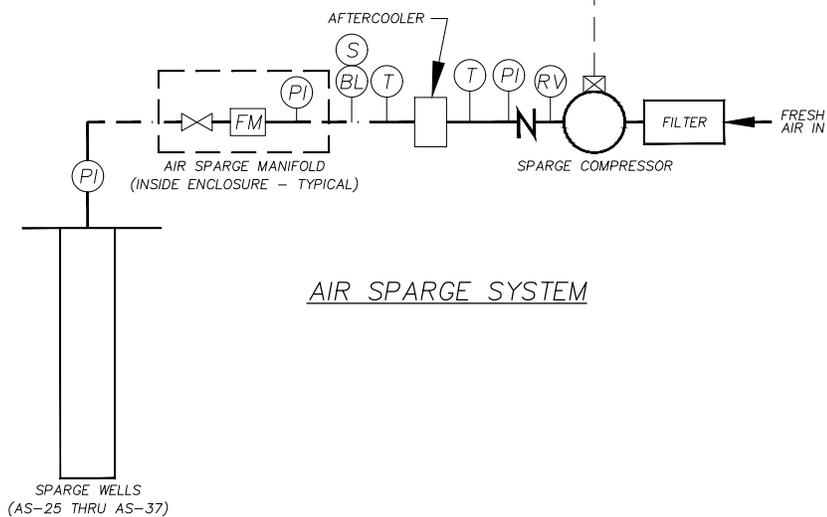
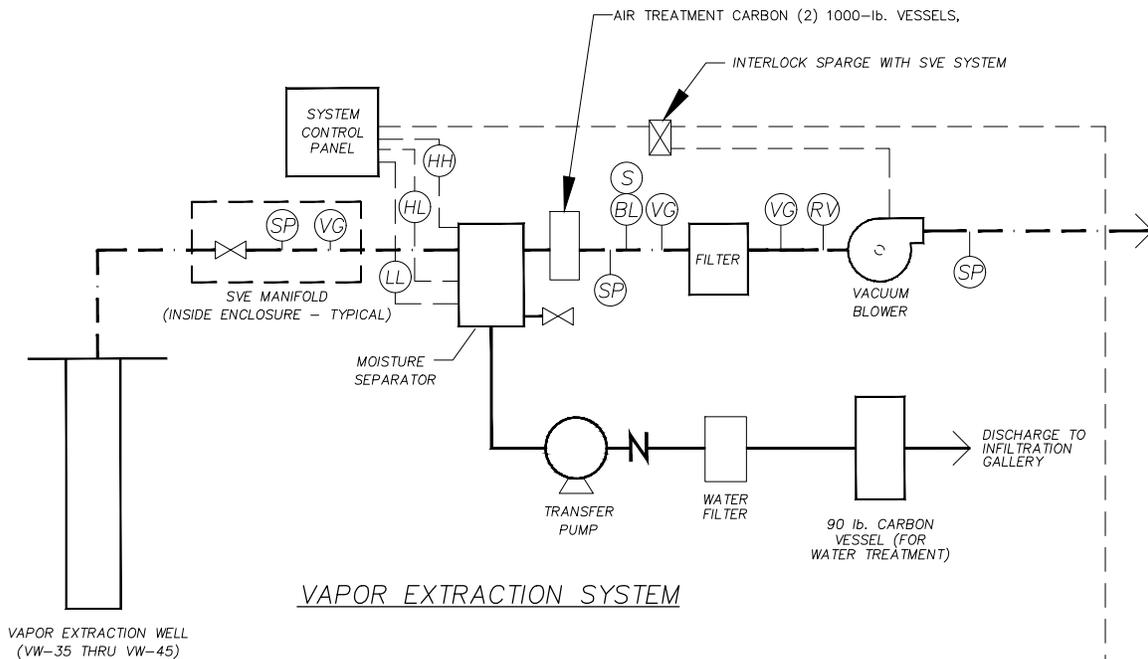
- V VAPOR LINE 2" SCH. 40 PVC.
- S SPARGE PIPING 1" SCH. 40 PVC.
- E ELECTRICAL CONDUIT
- SP SPARE PIPING

TRENCH DETAILS

Speedway No. 6442
 FDEP FAC. ID NO.: 06/8502103
 900 East Sample Road, Pompano Beach, Florida



Figure 10



LEGEND

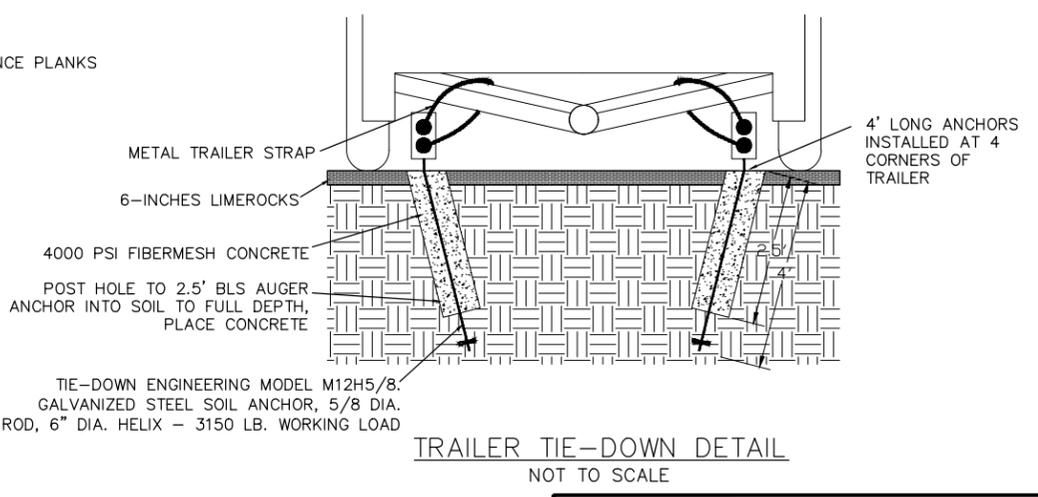
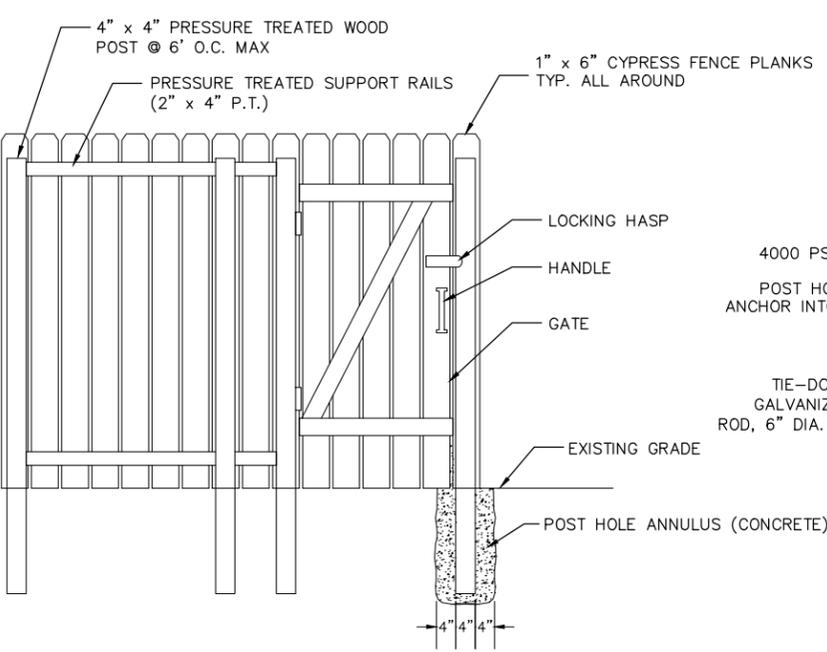
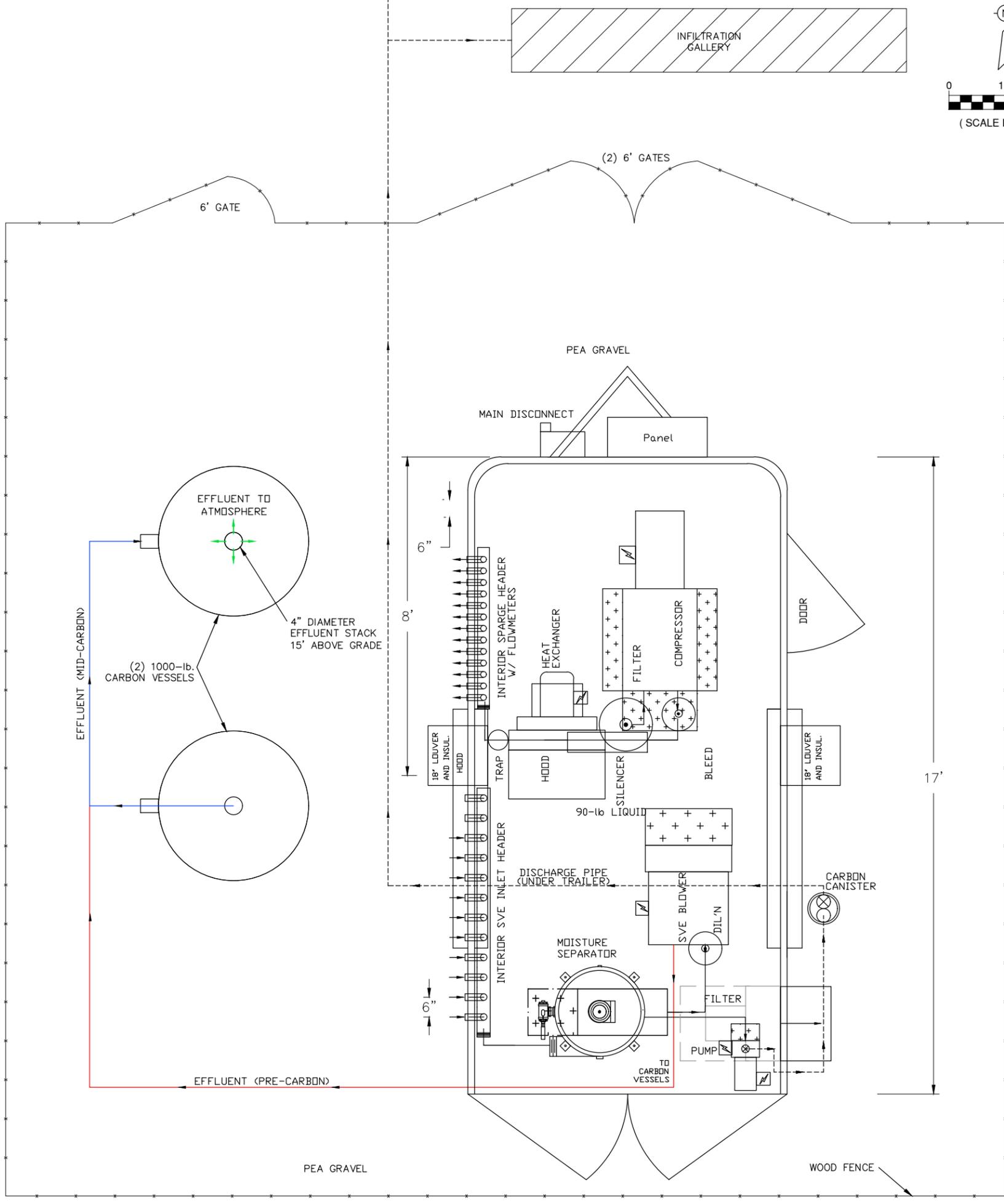
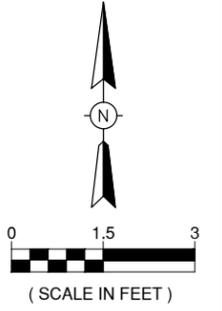
- WATER LINE
- AIR LINE
- - - CONTROL LINE
- ⊙ SP SAMPLE PORT
- ⊠ FM AIR FLOW METER
- ⊙ PI PRESSURE INDICATOR
- ⊙ VG VACUUM GAUGE
- ⊙ RV PRESSURE / VACUUM RELIEF VALVE
- ⊙ BL AIR BLEED VALVE
- ⊙ T HIGH TEMPERATURE SHUTOFF
- ⊙ HH HIGH-HIGH LIQUID LEVEL ALARM
- ⊙ HL HIGH LEVEL SWITCH
- ⊙ LL LOW LEVEL SWITCH
- ⊙ S SILENCER
- ⊗ BALL VALVE
- ⊗ ELECTRICAL INTERLOCK
- N CHECK VALVE

**REMEDIATION SYSTEM
FLOW DIAGRAM**

Speedway No. 6442
 FDEP FAC. ID NO.: 06/8502103
 900 East Sample Road, Pompano Beach, Florida



Figure 12



TREATMENT SYSTEM LAYOUT

Speedway No. 6442
FDEP FAC. ID NO.: 06/8502103
900 East Sample Road, Pompano Beach, Florida



Figure 13

05/20 FIG13

TABLES

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
SOIL ASSESSMENT ACTIVITIES - MARCH 2005					
SB-1	03/17/05	13.5 feet	0-2	<1	Sample collected for lab analysis
			2-4	<1	
			4-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
SB-2/TW-2	03/17/05	13.5 feet	0-2	73.8	Sample collected for lab analysis
			2-4	67	
			4-6	37	
			6-8	37	
			8-10	62	
			10-12	34	
			12-14	45	
			14-16	25	
SB-3	03/17/05	13.5 feet	0-2	<1	
			2-4	4	
			4-6	3	
			6-8	2	
			8-10	3	
			10-12	11	
			12-14	13	
			14-16	15	
SB-4/TW-4	03/17/05	13.5 feet	0-2	<1	
			2-4	<1	
			4-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
SB-5/TW-5	03/17/05	13.5 feet	0-2	<1	
			2-4	<1	
			4-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
SB-6	03/17/05	13.5 feet	0-2	<1	
			2-4	<1	
			4-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		OVA SCREENING RESULTS			COMMENTS	
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBS)	OVA READING (ppm)		
SOIL ASSESSMENT ACTIVITIES - JANUARY 2018						
SB-1	01/04/18	8.5 feet	0-1	175		
			1-2	36.8		
			2-3	92.5		
			3-4	50.6		
			4-5	79.4		
			5-6	42.2		
			6-8	2.5		
			8-10	18.0		
SB-2	01/04/18	8.5 feet	0-1	75.1		
			1-2	36.1		
			2-3	33.0		
			3-4	64.4		
			4-5	75.0		
			5-6	72.2		
			6-8	13.0		
			8-10	24.6		
SB-3	01/04/18	8.5 feet	0-1	10.0		
			1-2	66.6		
			2-3	69.7		
			3-4	66.3		
			4-5	147		
			5-6	159		
			6-8	29.1		
			8-10	40.6		
SB-4	01/04/18	8.5 feet	0-1	6.5		
			1-2	28.7		
			2-3	49.5		
			3-4	76.2		
			4-5	115		
			5-6	161		Sample collected for lab analysis
			6-8	36.9		
			8-10	12.7		
SB-5	01/04/18	8.5 feet	1	5.4		
			2	4.2		
			3	8.0		
			4	--		Refusal due to pea gravel
			0-1	64.6		
			1-2	146		
			2-3	219		
			3-4	309		
4-5	166					
5-6	307	Sample collected for lab analysis				
6-8	20.7					
8-10	79.8					
SB-6	01/04/18	8.5 feet	10-12	93.0		
			0-1	81.7		
			1-2	83.4		
			2-3	138		
			3-4	136		
			4-5	98.0		
			5-6	111		
			6-8	14.0		
SB-7	01/04/18	8.5 feet	8-10	35.0		
			10-12	21.3		

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-8	01/04/18	8.5 feet	0-1	33.6	Sample collected for lab analysis
			1-2	121	
			2-3	134	
			3-4	75.5	
			4-5	136	
			5-6	96	
			6-8	9.0	
			8-10	42.5	
			10-12	1.7	
			SB-9	01/04/18	
1-2	<1				
2-3	1.0				
3-4	<1				
4-5	1.4				
5-6	1.5				
6-8	<1				
8-10	<1				
10-12	<1				
SB-10	01/04/18	8.5 feet			0-1
			1-2	31.3	
			2-3	46.0	
			3-4	35.0	
			4-5	47.7	
			5-6	83.2	
			6-8	12.6	
			8-10	19.0	
			10-12	<1	
			SB-11	01/04/18	8.5 feet
1-2	<1				
2-3	<1				
3-4	<1				
4-5	<1				
5-6	<1				
6-8	<1				
8-10	<1				
10-12	<1				
SB-12	01/04/18	8.5 feet			
			1-2	70.3	
			2-3	114	
			3-4	111	
			4-5	140	
			5-6	189	
			6-8	29.4	
			8-10	35.0	
			10-12	6.5	
			SB-13	01/04/18	8.5 feet
1-2	10.9				
2-3	7.1				
3-4	10.0				
4-5	8.4				
5-6	10.1				
6-8	13.0				
8-10	8.7				
10-12	<1				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-14	01/04/18	8.5 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
SB-15	01/05/18	8.5 feet	0-1	5.4	
			1-2	1.1	
			2-3	1.3	
			3-4	15.2	
			4-5	3.4	
			5-6	<1	
			6-8	<1	
			8-10	11.0	
SB-16	01/05/18	8.5 feet	0-1	36.6	
			1-2	4.5	
			2-3	1.8	
			3-4	3.2	
			4-5	22.8	
			5-6	20.8	
			6-8	2.2	
			8-10	<1	
SB-17	01/05/18	8.5 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
SB-18	01/05/18	8.5 feet	0-1	115	
			1-2	161	
			2-3	267	
			3-4	406	
			4-5	236	
			5-6	191	
			6-8	40.7	
			8-10	73.8	
SB-19	01/05/18	8.5 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE			OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-20	01/05/18	8.5 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
SB-21	01/05/18	8.5 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
SB-22	01/05/18	8.5 feet	0-1	9.9	
			1-2	23.0	
			2-3	37.0	
			3-4	21.9	
			4-5	25.0	
			5-6	34.0	
			6-8	3.1	
			8-10	4.6	
			10-12	1.4	
SB-23	01/05/18	8.5 feet	0-1	408	Sample collected for lab analysis
			1-2	491	
			2-3	631	
			3-4	602	
			4-5	675	
			5-6	184	
			6-8	119	
			8-10	658	
			10-12	2949	
SB-24	01/05/18	8.5 feet	0-1	3.7	
			1-2	5.0	
			2-3	6.1	
			3-4	4.3	
			4-5	11.7	
			5-6	5.9	
			6-8	3.5	
			8-10	2.3	
			10-12	<1	
SB-25	01/05/18	8.5 feet	0-1	24.1	
			1-2	32.1	
			2-3	68.2	
			3-4	80.1	
			4-5	102	
			5-6	108	
			6-8	4.7	
			8-10	3.2	
			10-12	13.2	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		OVA SCREENING RESULTS			COMMENTS
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
SB-26	01/05/18	8.5 feet	0-1	38.1	
			1-2	75.6	
			2-3	79.0	
			3-4	76.7	
			4-5	88.3	
			5-6	127	
			6-8	65.4	
			8-10	26.8	
			10-12	<1	
PRODUCT LINE CLOSURE - FEBRUARY 2018					
PL-1	02/20/18	NE	3	36.6	
PL-2	02/20/18	NE	3	66.4	
PL-3	02/20/18	NE	3.5	119	Sample for lab analysis on 2/22/18
PL-4	02/20/18	NE	4	<1	
PL-5	02/20/18	NE	4	9.5	
PL-6	02/20/18	NE	4	13.6	Sample for lab analysis on 2/21/18
PL-7	02/20/18	NE	3.5	1.4	
PL-8	02/20/18	NE	3.5	8.3	
PL-9	02/20/18	NE	4	5.8	
PL-10	02/20/18	NE	4	9.5	
DISPENSER SUMP CLOSURE - FEBRUARY 2018					
DISP-NE	02/20/18	12.5	1	7.5	Sample for lab analysis on 2/21/18
			2	<1	
			3	<1	
			4	<1	
DISP-SW	02/20/18	12.5	1	<1	
			2	<1	
			3	<1	
			4	43.5	Sample for lab analysis on 2/22/18
			5	1.2	
			6	1.4	
DISP-SE	02/20/18	12.5	1	3159	Source Removal 2/23/18
			2	3078	Source Removal 2/23/18
			6	2315	Source Removal 2/23/18
			4	942	Source Removal 2/23/18
DISP-NW	02/20/18	12.5	1	<1	Sample for lab analysis 2/21/18
			2	<1	
			3	<1	
			4	<1	
SOURCE REMOVAL ACTIVITIES (UST AREA) - FEBRUARY 2018					
SB-A	02/21/18	12.5	2	5.6	
			4	43.1	
			10	86.4	
SB-B	02/21/18	12.5	2	1.1	
			3.5	<1	
			10	109	
SB-C	02/21/18	12.5	2	2.2	
			4	68.7	
			10	216	
SB-D	02/21/18	12.5	2	<1	
			4	46.5	
			10	889	
SB-E	02/21/18	12.5	2	1.8	
			3.5	21.0	
			10	654	
SB-F	02/21/18	12.5	2	1.3	
			4	112.3	
			10	239	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
SB-G	02/21/18	12.5	2	7.8	
			5	98.1	
			10	54.5	
SB-H	02/21/18	12.5	2	<1	
			5	33.4	
			10	361	
SB-I	02/21/18	12.5	2	<1	
			3.5	<1	
			10	2.7	
SB-J	02/21/18	12.5	2	<1	
			3.5	9.1	
			10	121	
SB-K	02/21/18	12.5	2	<1	
			4	51.8	
			10	18.0	
SB-L	02/21/18	12.5	2	1.0	
			3.5	2.7	
			10	9.9	
SB-M	02/21/18	12.5	2	19.0	
			5	51.9	
			10	22.3	
SB-N	02/21/18	12.5	2	<1	
			4	62.8	
			10	103	
SB-O	02/21/18	12.5	2	5.1	
			3.5	73.4	
			10	645	
SB-P	02/21/18	12.5	2	4.1	
			5	221	
			10	260	
SB-Q	02/21/18	12.5	2	59.8	
			5	489	
			10	1283	
SB-R	02/21/18	12.5	2	3.9	
			5	91.1	
			10	115	
SB-S	02/21/18	12.5	2	<1	
			4	31.2	
			10	3.5	
SB-T	02/21/18	12.5	2	<1	
			4	1.7	
			10	3.7	
SB-U	02/21/18	12.5	2	1.1	
			4	66.5	
			10	14.9	
SB-V	02/21/18	12.5	2	<1	
			3.5	<1	
			10	7.3	
SB-W	02/21/18	12.5	2	<1	
			5	21.4	
			10	12.0	
SB-X	02/21/18	12.5	2	<1	
			3.5	17.8	
			10	933	
SB-Y	02/21/18	12.5	2	3.9	
			3.5	84.2	
			10	711	
SB-Z	02/21/18	12.5	2	2.9	
			4	176	
			10	596	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-AA	02/21/18	12.5	2	<1	
			5	37.7	
			10	775	
SB-BB	02/21/18	12.5	2	15.4	
			5	41.3	
			10	185	
SB-CC	02/21/18	12.5	2	19.7	
			4	8.3	
			10	1.6	
SB-DD	02/21/18	12.5	2	2.0	
			4	15.4	
			10	3.3	
SB-EE	02/21/18	12.5	2	2.1	
			4	6.9	
			10	28.9	
SB-FF	02/21/18	12.5	2	<1	
			3.5	<1	
			10	6.4	
SB-GG	02/21/18	12.5	2	3.2	
			4	10.0	
			10	6.7	
SB-HH	02/21/18	12.5	2	<1	
			3.5	6.4	
			10	17.0	
SB-II	02/21/18	12.5	2	2.9	
			3.5	4.1	
			10	58.0	
SB-JJ	02/21/18	12.5	2	<1	
			4.5	115	
			10	870	
SB-KK	02/21/18	12.5	2	1.9	
			4	8.7	
			10	65.3	
SB-LL	02/21/18	12.5	2	3.0	
			5	16.7	
			10	71.2	
SB-MM	02/21/18	12.5	2	30.4	
			3.5	63.6	
			10	<1	
SB-NN	02/21/18	12.5	2	<1	
			5	<1	
			10	<1	
SB-OO	02/21/18	12.5	2	2.2	
			4	<1	
			10	<1	
SB-PP	02/21/18	12.5	2	1.2	
			3.5	<1	
			10	3.4	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-QQ	02/21/18	12.5	2	1.2	
			5	3.0	
			10	<1	
SB-RR	02/21/18	12.5	2	<1	
			4.5	<1	
			10	1.4	
SB-SS	02/21/18	12.5	2	15.8	
			3.5	12.9	
			10	20.1	
SB-TT	02/21/18	12.5	2	<1	
			4	16.1	
			10	35.3	
SB-UU	02/21/18	12.5	2	19.8	
			5	27.6	
			10	46.1	
SB-VV	02/21/18	12.5	2	2.9	
			5	13.9	
			10	22.2	
SB-WW	02/21/18	12.5	2	<1	
			3.5	<1	
			10	<1	
SB-XX	02/21/18	12.5	2	<1	
			4	<1	
			10	<1	
SB-YY	02/21/18	12.5	2	<1	
			4	<1	
			10	<1	
SB-ZZ	02/21/18	12.5	2	1.9	
			3.5	<1	
			10	<1	
SB-AB	02/21/18	12.5	2	3.9	
			4	<1	
			10	11.4	
SB-AC	02/21/18	12.5	2	1.5	
			4	4.0	
			10	8.5	
SB-AD	02/21/18	12.5	2	2.5	
			3.5	15.6	
			10	<1	
SB-AE	02/21/18	12.5	2	4.6	
			4.5	31.4	
			10	75.8	
SB-AF	02/21/18	12.5	2	17.5	
			5	14.3	
			10	33.7	
SB-AG	02/21/18	12.5	2	<1	
			5	2.1	
			10	7.8	
SB-AH	02/21/18	12.5	2	<1	
			3.5	<1	
			10	5.7	
SB-AI	02/21/18	12.5	2	<1	
			4	<1	
			10	<1	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
S WALL	02/23/18	12.5	2	<1	Sample collected for lab analysis
			5	<1	
			10	<1	
			12	15.7	
S WALL - E	02/23/18	12.5	2	<1	
			5	<1	
			10	<1	
			12	<1	
S WALL - W	02/23/18	12.5	2	<1	
			5	<1	
			10	<1	
			12	9.8	
N WALL	02/23/18	12.5	2	1.6	
			5	4.8	
			10	1.5	
			12	4.5	
N WALL - E	02/23/18	12.5	2	2.9	
			5	<1	
			10	5.6	
			12	5.3	
N WALL - W	02/23/18	12.5	2	2.1	
			5	2.7	
			10	5.4	
			12	12.4	
E WALL - N	02/23/18	12.5	2	<1	
			5	<1	
			10	<1	
			12	<1	
E WALL - S	02/23/18	12.5	2	<1	Sample collected for lab analysis
			5	39.3	
			10	7.2	
			12	1.5	
W WALL - N	02/23/18	12.5	2	6.8	
			5	<1	
			10	2.2	
			12	1.6	
W WALL - S	02/23/18	12.5	2	<1	
			5	1.4	
			10	4.5	
			12	15.5	
E BASE	02/23/18	12.5	12	47.5	
CENTER BASE	02/23/18	12.5	12	22.3	
W BASE	02/23/18	12.5	12	7.1	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		OVA SCREENING RESULTS			COMMENTS
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SOURCE REMOVAL ACTIVITIES (SE DISPENSER ISLAND) - FEBRUARY 2018					
N-WALL	02/23/18	12.5	2	38.3	
			4	76.4	
			6	78.6	
			8	655	
E-WALL	02/23/18	12.5	2	290	
			4	1434	
			6	2799	
			8	1093	
S-WALL	02/23/18	12.5	2	2.6	
			4	11.9	
			6	19.9	
			8	30.5	
W-WALL	02/23/18	12.5	2	150	
			4	169	
			6	2892	
			8	2427	
BASE	02/23/18	12.5	8	2655	Sample collected for lab analysis
SOIL ASSESSMENT ACTIVITIES - AUGUST 2018					
SB-27	08/07/18	10 feet	0-1	1.5	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	1.2	
			8-10	3.4	
			10-12	2.9	
SB-28	08/07/18	10 feet	0-1	2.1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	7.7	
			8-10	13.7	
			10-12	>1000	
SB-29	08/07/18	10 feet	0-1	1.1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	105	
SB-30	08/07/18	10 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	1.5	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
SB-31	08/07/18	10 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			10-12	<1	
SB-32/MW-19	08/07/18	10 feet	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	26.1	
			8-10	774	
			10-12	>1000	
			12-14	791	
SB-33/MW-7RR	08/07/18	10 feet	0-1	<1	
			1-2	<1	
			2-3	33.5	
			3-4	<1	
			4-5	115	
			5-6	172	
			6-8	2.0	
			8-10	35.7	
			10-12	13.9	
			12-14	50.1	
SB-34/CW-2R	08/07/18	10 feet	0-1	1.4	
			1-2	<1	
			2-3	1.9	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	1.4	
			10-12	2.5	
			12-14	8.4	
SB-35/MW-18	08/07/18	10 feet	0-1	1.1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	2.2	
			8-10	7.9	
			10-12	4.0	
			12-14	>1000	
14-16	>1000				
16-18	>1000				
18-19	647				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-36/CW-1R	08/07/18	10 feet	0-1	3.2	
			1-2	<1	
			2-3	1.0	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	1.3	
			8-10	<1	
			10-12	1.4	
			12-14	>1000	
			14-16	4.5	
			16-18	17.3	
			18-19	25.5	
SOIL ASSESSMENT ACTIVITIES - APRIL 2019					
SB-37/DW-3	04/10/19	11.5	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	32.5	
			12-14	531	
			14-16	462	
			16-18	638	
			18-20	382	
20-22	535				
22-24	399				
24-25	282				
SB-38/DW-4	04/10/19	11.5	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	613	
			12-14	955	
			14-16	544	
			16-18	580	
			18-20	607	
20-22	923				
22-24	326				
24-25	302				
SB-39/MW-20	04/10/19	12	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
			18-19	<1	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-40/MW-25	04/10/19	12	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
SB-41/MW-24	04/11/19	11.5	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
SB-42/MW-2R	04/11/19	11.5	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
SB-43/MW-21	04/11/19	12	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
18-19	<1				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE			OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBS)	OVA READING (ppm)	
SB-44/MW-23	04/11/19	12	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	10.6	
			14-16	22.4	
			16-18	37.4	
18-19	NR				
SB-45/MW-22	04/11/19	12	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
18-19	<1				
SUPPLEMENTAL SITE ASSESSMENT ACTIVITIES - AUGUST 2019					
SB-46/DDW-1	08/12/19	10	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	245	
			12-14	1255	
			14-16	382	
			16-18	542	
			18-20	809	
			20-22	1026	
			22-24	328	
			24-26	1310	
			26-28	330	
			28-30	444	
			30-32	652	
			32-34	902	
34-36	136				
36-38	721				
38-40	884				
40-42	142				
42-44	57.1				
44-45	--				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLs)	OVA READING (ppm)	
SB-47	08/12/19	10 feet	0-1	<1	Sample collected for lab analysis
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
SB-48	08/12/19	10 feet	0-1	<1	Sample collected for lab analysis
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
SB-49	08/12/19	NE	0-1	<1	Sample collected for lab analysis
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
SB-50	08/12/19	NE	0-1	<1	Sample collected for lab analysis
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
SB-51	08/12/19	NE	0-1	<1	Sample collected for lab analysis
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
SB-52/DW-7	08/13/19	11	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
			18-20	<1	
			20-22	<1	
22-24	<1				
24-25	<1				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No.: 06/8502103

SAMPLE		DEPTH TO WATER	OVA SCREENING RESULTS		COMMENTS
BORING NO.	DATE COLLECTED		SAMPLE INTERVAL (FBLS)	OVA READING (ppm)	
SB-53/DW-6	08/13/19	11	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	<1	
			14-16	<1	
			16-18	<1	
			18-20	<1	
			20-22	<1	
22-24	<1				
24-25	<1				
SB-54/DW-5	08/13/19	11	0-1	<1	
			1-2	<1	
			2-3	<1	
			3-4	<1	
			4-5	<1	
			5-6	<1	
			6-8	<1	
			8-10	<1	
			10-12	<1	
			12-14	1.0	
			14-16	NR	
			16-18	255	
			18-20	27.1	
			20-22	150	
22-24	182				
24-25	42.5				

Organic vapors measured using an Organic Vapor Analyzer (OVA) equipped with a photoionization Detector (PID)

ppm = parts per million

FBLS = feet below land surface

NE= Not Encountered

NR = No Recovery

TABLE 2A: SOIL ANALYTICAL SUMMARY - VOAs, TRPHs and Metals

Facility ID No.: 06/8502103

Facility Name: Former Speedway No. 6442

See notes at end of table.

Boring/ Well No.	Sample			OVA	Laboratory Analyses										Comments
	Date Collected	Depth to Water (ft)	Sample Interval/D epth (fbls)	Net OVA Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TRPHs (mg/kg)	Arsenic (mg/kg)	Cad- mium (mg/kg)	Chro- mium (mg/kg)	Lead (mg/kg)	
SOIL ASSESSMENT ACTIVITIES - MARCH 2005															
SB-1	03/17/05	13.5	10 - 12	<1	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<10	--	--	--	--	
SB-2/TW-2	03/17/05	13.5	0 - 2	73.8	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	29	--	--	--	--	
SOIL ASSESSMENT ACTIVITIES - JANUARY 2018															
SB-4	1/4/2018	8.5	6.0	161	0.00133 U	0.00272 U	0.00655	0.0647	0.000996 U	25.6	--	--	--	--	
SB-6	1/4/2018	8.5	6.0	307	0.00141 U	0.00326 I	0.00490	0.0929	0.00105 U	12.1	--	--	--	--	
SB-8	1/4/2018	8.5	5.0	136	0.00147 U	0.00298 U	0.00357	0.0113	0.00109 U	6.84 I	--	--	--	--	
SB-10	1/4/2018	8.5	6.0	83.2	0.00135 U	0.00275 U	0.00278	0.00686 I	0.00101 U	6.51 I	--	--	--	--	
SB-12	1/4/2018	8.5	6.0	189	0.00135 U	0.00706 U	0.00172 I	0.0278	0.00101 U	4.57 I	--	--	--	--	
SB-23	1/5/2018	8.5	5.0	675	0.00623	0.0603	0.0127	0.122	0.000994 U	7.75 I	--	--	--	--	
DISPENSER SUMP CLOSURE - FEBRUARY 2018															
DISP-NE	2/21/2018	12.5	0-1	7.5	0.00138 U	0.00281 U	0.00137 U	0.00508 U	0.00103 U	3.47 IV	--	--	--	--	
DISP-NW	2/21/2018	12.5	0-1	<1	0.00197 U D ^{1.4}	0.00402 U D ^{1.4}	0.00196 U D ^{1.4}	0.00725 U D ^{1.4}	0.00147 U D ^{1.4}	104 IV D ¹⁰	--	--	--	--	
DISP-SW	2/22/2018	12.5	3.5	43.5	0.00143 U	0.00292 U	0.00142 U	0.00527 U	0.00107 U	17.5 V	--	--	--	--	
PRODUCT LINE CLOSURE - FEBRUARY 2018															
PL-3	2/22/2018	12.5	3.5	119	0.00212 U D ^{1.34}	0.00433 U D ^{1.34}	0.00211 U D ^{1.34}	0.0993 D ^{1.34}	0.00159 U D ^{1.34}	11.2 IV	--	--	--	--	
PL-6	2/21/2018	12.5	4.0	13.6	0.00133 U	0.00653	0.00383	0.0357	0.000998 U	12.8 V	--	--	--	--	
SOURCE REMOVAL ACTIVITIES (UST AREA) - FEBRUARY 2018															
S WALL	2/23/2018	12.5	12.0	15.7	0.00136 U	0.00277 U	0.00135 U	0.00500 U	0.00102 U	13.9 V	--	--	--	--	
W WALL-S*	2/23/2018	12.5	12.0	15.5	0.00135 U	0.0354	0.0134	0.285	0.00101 U	40.2	--	--	--	--	
N WALL-W	2/23/2018	12.5	12.0	12.4	0.00148 U	0.00555 I	0.00382	0.0193	0.00111 U	34.0 V	--	--	--	--	
E WALL-S	2/23/2018	12.5	5.0	39.3	0.00149 U	0.00509 I	0.0119	0.0827	0.00112 U	16.8 V	--	--	--	--	
SOURCE REMOVAL ACTIVITIES (SE DISPENSER ISLAND) - FEBRUARY 2018															
W-WALL	2/23/2018	12.5	6.0	2892	1.54 D^{1.18}	82.5 D²³⁶	41.2 D²³⁶	299 D²³⁶	0.00124 U D ^{1.18}	3190 J D²⁰	--	--	--	--	
BASE	2/23/2018	12.5	8.0	2655	0.258 D^{1.02}	30.4 D²⁰⁴	25.9 D²⁰⁴	219 D²⁰⁴	0.00103 U D ^{1.02}	2160 D⁵	--	--	--	--	
SOIL ASSESSMENT ACTIVITIES - AUGUST 2018															
SB-28	8/7/2018	10.0	6-8	7.7	0.000411 U	0.00209 I	0.000545 U	0.00491 U	0.000303 U	11.3	--	--	--	--	
SUPPLEMENTAL SITE ASSESSMENT ACTIVITIES - AUGUST 2019															
SB-47	8/12/2019	10.0	9.0	<1	--	--	--	--	--	--	--	--	--	--	
SB-48	8/12/2019	10.0	9.0	<1	--	--	--	--	--	--	--	--	--	--	
SB-49	8/12/2019	NE	6-8	<1	--	--	--	--	--	--	--	--	--	--	
SB-50	8/12/2019	NE	6-8	<1	--	--	--	--	--	--	--	--	--	--	
SB-51	8/12/2019	NE	6-8	<1	--	--	--	--	--	--	--	--	--	--	
Leachability Based on Groundwater Criteria (mg/kg)						0.007	0.5	0.6	0.2	0.09	340	**	7.5	38	**
Direct Exposure Residential (mg/kg)						1.2	7,500	1,500	130	4,400	460	2.1	82	210	400

Analytical results reported in milligrams per kilogram (mg/kg)

MTBE = Methyl Tert Butyl Ether

TRPH = Total Recoverable Petroleum Hydrocarbons

Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)

-- Sampled not analyzed for constituent

* = Leachate sample extracted using the Synthetic Precipitate Leaching Procedure (SPLP)

** = Leachability value may be determined using TCLP

Results in bold exceed FDEP Leachability Target Levels

NE = Not Encountered

Qualifiers: < = U = Result below MDL

I = Result between MDL and PQL

V = Analyte detected in sample and method blank

J = Value is outside laboratory established criteria

D^x = Sample diluted by a factor of x

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 2A: SOIL ANALYTICAL SUMMARY - VOAs, TRPHs and Metals

Facility ID No.: 06/8502103

Facility Name: Former Speedway No. 6442

See notes at end of table.

Synthetic Precipitate Leaching Procedure (SPLP) Results

Sample				OVA	Laboratory Analyses										Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TRPHs (µg/L)	Arsenic (µg/L)	Cad- mium (µg/L)	Chro- mium (µg/L)	Lead (µg/L)	
SOURCE REMOVAL ACTIVITIES (UST AREA) - FEBRUARY 2018															
W WALL-S	2/23/2018	NE	10-12	15.5	0.331 U	1.69	0.951 I	12.3	0.367 U	--	--	--	--	--	
GCTLs					1	40	30	20	20	5,000	10	5	100	15	
NADCs					100	400	300	200	200	50,000	100	50	1,000	150	

Analytical Results reported in micrograms per liter (µg/L)

Concentrations in bold are above FDEP GCTLs

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

OVA = Organic Vapor Analyzer

fbls = feet below land surface

ppm = parts per million

Qualifiers: U = Result below MDL

I = Result between MDL and PQL

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 2B: SOIL ANALYTICAL SUMMARY - Non-Carcinogenic PAHs

Facility ID No.: 06/8502103

Facility Name: Former Speedway No. 6442

See notes at end of table.

Sample				OVA	Laboratory Analyses											Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval/De pth (fbls)	Net OVA Reading (ppm)	Naph- thalene (mg/kg)	1-Methyl- naph- thalene (mg/kg)	2-Methyl- naph- thalene (mg/kg)	Acen- aph- thene (mg/kg)	Acen- aph- thylene (mg/kg)	Anthra- cene (mg/kg)	Benzo (g,h,i) pery- lene (mg/kg)	Fluoran- thene (mg/kg)	Fluor- ene (mg/kg)	Phenan- threne (mg/kg)	Pyrene (mg/kg)	
SOIL ASSESSMENT ACTIVITIES - MARCH 2005																
SB-1	03/17/05	13.5	10 - 12	<1	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	
SB-2/TW-2	03/17/05	13.5	0 - 2	73.8	0.027	0.081	0.040	0.016	<0.0033	<0.0033	<0.0033	0.030	<0.0033	<0.0033	<0.0033	
LSI ASSESSMENT ACTIVITIES - DECEMBER 2017																
SB-4	1/4/2018	8.5	6.0	161	0.00560 IV	0.00203 U	0.00203 U	0.000609 U	0.000609 U	0.000637 U	0.00712	0.00812	0.000609 U	0.00334 IV	0.00624	
SB-6	1/4/2018	8.5	6.0	307	0.00239 IV	0.00208 U	0.00208 U	0.00106 I	0.000625 U	0.00177 I	0.00566 I	0.0169	0.00121 I	0.0133	0.0128	
SB-8	1/4/2018	8.5	5.0	136	0.00206 U	0.00206 U	0.00206 U	0.000619 U	0.000619 U	0.000619 U	0.0124	0.0156	0.000619 U	0.00346 IV	0.0130	
SB-10	1/4/2018	8.5	6.0	83.2	0.00259 IV	0.00207 U	0.00207 U	0.000622 U	0.000622 U	0.000622 U	0.00189 I	0.00580 I	0.000622 U	0.00233 IV	0.00460 I	
SB-12	1/4/2018	8.5	6.0	189	0.00343 IV	0.00208 U	0.00208 U	0.00296 I	0.000623 U	0.00422 I	0.0243	0.0744	0.00243 I	0.0363	0.0581	
SB-23	1/5/2018	8.5	5.0	675	0.0378	0.00502 I	0.00935 I	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	
DISPENSER SUMP CLOSURE - FEBRUARY 2018																
DISP-NE	2/21/2018	12.5	0-1	7.5	0.00212 U	0.00212 U	0.00212 U	0.000637 U	0.000637 U	0.000637 U	0.00743	0.00532 I	0.000637 U	0.000753 I	0.00453 I	
DISP-NW	2/21/2018	12.5	0-1	<1	0.00217 U	0.00217 U	0.00217 U	0.00147 I	0.00147 I	0.00147 I	0.0904	0.193	0.00150 I	0.0575	0.132	
DISP-SW	2/22/2018	12.5	3.5	43.5	0.00221 U	0.00221 U	0.00221 U	0.000662 U	0.000662 U	0.000662 U	0.0111	0.00702	0.000662 U	0.00200 I	0.00561 I	
PRODUCT LINE CLOSURE - FEBRUARY 2018																
PL-3	2/22/2018	12.5	3.5	119	0.00737 I	0.00244 U	0.00244 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	
PL-6	2/21/2018	12.5	4.0	13.6	0.0499	0.0325	0.0484	0.000616 U	0.000616 U	0.00102 I	0.00427 I	0.00877	0.000616 U	0.00371 I	0.00674	
SOURCE REMOVAL ACTIVITIES (UST AREA) - FEBRUARY 2018																
S WALL	2/23/2018	12.5	12.0	15.7	0.0314 U D ¹⁵	0.0314 U D ¹⁵	0.0314 U D ¹⁵	0.00941 U D ¹⁵	0.00941 U D ¹⁵	0.00941 U D ¹⁵	0.0406 I D ¹⁵	0.0321 I D ¹⁵	0.00941 U D ¹⁵	0.0136 I D ¹⁵	0.0370 I D ¹⁵	
W WALL-S	2/23/2018	12.5	12.0	15.5	0.0173 I	0.0175 I	0.0183 I	0.0117	0.00223 I	0.0205	0.297	0.787	0.0113	0.303	0.655	
N WALL-W	2/23/2018	12.5	12.0	12.4	0.00920 I	0.00654 I	0.00689 I	0.00559 I	0.000837 I	0.0113	0.127	0.345	0.00565 I	0.133	0.302	
E WALL-S	2/23/2018	12.5	5.0	39.3	0.0299	0.144	0.0975	0.00567 I	0.00241 I	0.00832	0.00846	0.00887	0.00923	0.0117	0.00921	
SOURCE REMOVAL ACTIVITIES (SE DISPENSER ISLAND) - FEBRUARY 2018																
W-WALL	2/23/2018	12.5	6.0	2892	26.9 D¹⁰	8.19 D¹⁰	14.8 D¹⁰	0.0912	0.0505	0.0663	0.00295 I	0.0101	0.113	0.0865	0.0294	
BASE	2/23/2018	12.5	8.0	2655	22.0 D¹⁰	13.3 D¹⁰	20.9 D¹⁰	0.168 D ¹⁰	0.0878 D ¹⁰	0.161 D ¹⁰	0.0211	0.0404 I D ¹⁰	0.198 D ¹⁰	0.174 D ¹⁰	0.0683 D ¹⁰	
SOIL ASSESSMENT ACTIVITIES - AUGUST 2018																
SB-28	8/7/2018	10.0	6-8	7.7	0.00206 U	0.00206 U	0.00206 U	0.00552 I	0.000617 U	0.000617 U	0.112	0.268	0.00639	0.120	0.195	
SUPPLEMENTAL SITE ASSESSMENT ACTIVITIES - AUGUST 2019																
SB-47	8/12/2019	10.0	9.0	<1	0.00240 U	0.00240 U	0.00240 U	0.000719 U	0.000719 U	0.000719 U	0.00778	0.00913	0.000719 U	0.00195 I	0.00648 I	
SB-48	8/12/2019	10.0	9.0	<1	0.00241 U	0.00241 U	0.00241 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	
SB-49	8/12/2019	NE	6-8	<1	0.00212 U	0.00212 U	0.00212 U	0.000637 U	0.000637 U	0.000637 U	0.00721	0.00645	0.000637 U	0.000763 I	0.00463 I	
SB-50	8/12/2019	NE	6-8	<1	0.00223 U	0.00223 U	0.00223 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	
SB-51	8/12/2019	NE	6-8	<1	0.00211 U	0.00211 U	0.00211 U	0.000634 U	0.000634 U	0.000634 U	0.00212 I	0.00193 I	0.000634 U	0.000634 U	0.00161 I	
Leachability Based on Groundwater Criteria (mg/kg)					1.2	3.1	8.5	2.1	27	2,500	32,000	1,200	160	250	880	
Direct Exposure Residential (mg/kg)					55	200	210	2,400	1,800	21,000	2,500	3,200	2,600	2,200	2,400	

Analytical results reported in milligrams per kilogram (mg/kg)
 Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)
 Results in bold exceed FDEP Leachability Target Levels
 PAH = Polynuclear Aromatic Hydrocarbons
 NE = NOT ENCOUNTERED

Qualifiers: < = U = Result below MDL
 I = Result between MDL and PQL
 D^x = Sample diluted by a factor of x
 V = Compound detected in sample and method blank
 MDL = Method Detection Limit
 PQL = Practical Quantitation Limit

TABLE 2C: SOIL ANALYTICAL SUMMARY - Carcinogenic PAHs

Facility ID No.: 06/8502103

Facility Name: Former Speedway No. 6442

See notes at end of table.

Sample				OVA	Laboratory Analyses								Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval/D epth (fbls)	Net OVA Reading (ppm)	Benzo (a) anthra- cene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoran- thene (mg/kg)	Benzo (k) fluoran- thene (mg/kg)	Chry- sene (mg/kg)	Dibenz (a,h) anthra- cene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Benzo (a) pyrene equivalent (mg/kg)	
SOIL ASSESSMENT ACTIVITIES - MARCH 2005													
SB-1	03/17/05	13.5	10 - 12	<1	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	NCD	
SB-2/TW-2	03/17/05	13.5	0 - 2	73.8	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	NCD	
LSSI ASSESSMENT ACTIVITIES - DECEMBER 2017													
SB-4	1/4/2018	8.5	6.0	161	0.00412 I	0.00483 I	0.00736	0.00235 I	0.00477 I	0.00126 I	0.00459 I	0.0	
SB-6	1/4/2018	8.5	6.0	307	0.00460 I	0.00493 I	0.00884	0.00308 I	0.00790	0.00127 I	0.00429 I	0.0	
SB-8	1/4/2018	8.5	5.0	136	0.00553 I	0.00955	0.0181	0.00594 I	0.0135	0.00263 I	0.00937	0.0	
SB-10	1/4/2018	8.5	6.0	83.2	0.00206 I	0.00170 I	0.00329 I	0.000944 I	0.00280 I	0.000622 U	0.00146 I	0.0	
SB-12	1/4/2018	8.5	6.0	189	0.0227	0.0239	0.0388	0.0119	0.0335	0.00509 I	0.0188	0.0	
SB-23	1/5/2018	8.5	5.0	675	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	0.000613 U	NCD	
DISPENSER SUMP CLOSURE - FEBRUARY 2018													
DISP-NE	2/21/2018	12.5	0-1	7.5	0.00338 I	0.00482 I	0.00776	0.00289 I	0.00423 I	0.000667 I	0.00538 I	0.0	
DISP-NW	2/21/2018	12.5	0-1	<1	0.0792	0.0866	0.141	0.0445	0.102	0.0252	0.0772	0.1	
DISP-SW	2/22/2018	12.5	3.5	43.5	0.00343 I	0.00709	0.0108	0.00412 I	0.00494 I	0.00161 I	0.00711	0.0	
PRODUCT LINE CLOSURE - FEBRUARY 2018													
PL-3	2/22/2018	12.5	3.5	119	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	0.000732 U	NCD	
PL-6	2/21/2018	12.5	4.0	13.6	0.00251 I	0.00329 I	0.00585 I	0.00231 I	0.00448 I	0.000616 U	0.00310 I	0.0	
SOURCE REMOVAL ACTIVITIES (UST AREA) - FEBRUARY 2018													
S WALL	2/23/2018	12.5	12.0	15.7	0.0212 I D ¹⁵	0.0223 I D ¹⁵	0.0422 I D ¹⁵	0.0254 I D ¹⁵	0.0243 I D ¹⁵	0.00941 U D ¹⁵	0.0150 I D ¹⁵	0.0	
W WALL-S	2/23/2018	12.5	12.0	15.5	0.266	0.319	0.533	0.209	0.409	0.0629	0.246	0.5	
N WALL-W	2/23/2018	12.5	12.0	12.4	0.106	0.139	0.236	0.0818	0.197	0.0268	0.107	0.2	
E WALL-S	2/23/2018	12.5	5.0	39.3	0.00501 I	0.00510 I	0.00698	0.00341 I	0.00496 I	0.00103 I	0.00467 I	0.0	
SOURCE REMOVAL ACTIVITIES (SE DISPENSER ISLAND) - FEBRUARY 2018													
W-WALL	2/23/2018	12.5	6.0	2892	0.0102	0.00532 I	0.00236 I	0.000668 I	0.00415 I	0.000647 U	0.00180 I	0.0	
BASE	2/23/2018	12.5	8.0	2655	0.0326 I D ¹⁰	0.0250	0.0208	0.0101	0.0211 I	0.00391 I	0.0146	0.0	
SOIL ASSESSMENT ACTIVITIES - AUGUST 2018													
SB-28	8/7/2018	10.0	6-8	7.7	0.0772 J	0.110	0.183	0.0558	0.117	0.0268	0.0937	0.2	
SUPPLEMENTAL SITE ASSESSMENT ACTIVITIES - AUGUST 2019													
SB-47	8/12/2019	10.0	9	<1	0.00249 I	0.00464 I	0.00789	0.00439 I	0.00558 I	0.000719 U	0.00542 I	0.0	
SB-48	8/12/2019	10.0	9	<1	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	0.000722 U	NCD	
SB-49	8/12/2019	NE	6-8	<1	0.00284 I	0.00516 I	0.00724	0.00420 I	0.00444 I	0.000813 I	0.00500 I	0.0	
SB-50	8/12/2019	NE	6-8	<1	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	0.000668 U	NCD	
SB-51	8/12/2019	NE	6-8	<1	0.000636 I	0.00125 I	0.00202 I	0.00126 I	0.00155 I	0.000634 U	0.00146 I	0.0	
Leachability Based on Groundwater Criteria (mg/kg)					0.8	8	2.4	24	77	0.7	6.6	**	
Direct Exposure Residential (mg/kg)					#	0.1	#	#	#	#	#	0.1	

-- = Sample not analyzed for constituent

Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)

Results in bold exceed FDEP Leachability Target Levels

= Direct Exposure value not applicable except as part of the Benzo(a)pyrene equivalent.

** = Leachability value not applicable

NCD = No Compounds Detected

Qualifiers: < = U = Result below MDL

I = Result between MDL and PQL

D^x = Sample diluted by a factor of x

J = Value is outside laboratory established criteria

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

NE = NOT ENCOUNTERED

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Total Arsenic (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Lead (µg/L)	
GCTLs		1**	40	30	20	20	0.02	3	10	5	100	15	
NADCs		100	400	300	200	200	2	300	100	50	1,000	150	
CW-1	01/23/01	2800	21000	1400	11000	11000	--	--	--	--	--	--	
	07/19/02	76	710	<10	1400	48	--	--	--	--	--	--	
	10/21/02	380	3300	890	7200	92	--	--	--	--	--	--	
	01/15/03	200	870	38	3500	7.0	--	--	--	--	--	--	
	04/11/03	390	2000	720	5100	36.0	--	--	--	--	--	--	
	08/26/03	<1.0	14	6.3	32	1.4	--	--	--	--	--	--	
	11/18/03	31	440	330	1600	4.5	--	--	--	--	--	--	
	02/12/04	160	220	630	2900	8900	--	--	--	--	--	--	
	02/25/04	52	120	270	1200	1600	--	--	--	--	--	--	
	05/24/04	490	<100	640	2500	4200	--	--	--	--	--	--	
	08/25/04	690	87	320	1300	1500	--	--	--	--	--	--	
	12/03/04	730	18	330	910	250	--	--	--	--	--	--	
	03/17/05	520	8.1	270	470	280	--	--	--	--	--	--	
	06/16/05	89	36	89	350	12	--	--	--	--	--	--	
	09/27/05	49	47	70	410	7.6	--	--	--	--	--	--	
	12/29/05	<0.09	<0.14	<0.13	<0.21	<0.44	--	--	--	--	--	--	--
	03/27/06	130	8.7	60	390	32	--	--	--	--	--	--	
	06/28/06	28	1.7	20	96	<0.32	--	--	--	--	--	--	
	09/18/06	9.5	3.1	9.2	51	<0.32	--	--	--	--	--	--	
	12/18/06	6.2	1.2	8.8	84	<0.32	--	--	--	--	--	--	
03/15/07	5.1	0.96	14	140	<0.32	--	--	--	--	--	--		
06/14/07	0.410	0.300	1.29	6.86	<0.31	--	--	--	--	--	--		
09/14/07	<0.19	<0.19	0.437	1.86	<0.78	--	--	--	--	--	--		
12/14/07	0.940 l	2.45	2.35	16.3	7.88	--	--	--	--	--	--		
03/14/08	27.3	50	30.8	182	28.0	--	--	--	--	--	--		
06/12/08	8.93	14.2	11.9	90.4	11.4	--	--	--	--	--	--		
09/12/08	179	101	24.1	239	40.5	--	--	--	--	--	--		
12/17/08	3.76	0.819 l	0.620 l	4.74	1.22 l	--	--	--	--	--	--		

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Total Arsenic (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Lead (µg/L)
CW-1 Cont.	08/14/09	4.25	0.866 I	1.84	9.77	<0.20	--	--	--	--	--	--
	11/03/09	0.471 I	0.247 U	1.92	5.54	0.261 U	--	--	--	--	--	--
	02/02/10	0.211 U	0.247 U	0.870 I	1.90	0.261 U	--	--	--	--	--	--
	06/01/10	0.333 I	1.97	2.19	11.49	0.261 U	--	--	--	--	--	--
	08/27/10	2.99	9.01	16.0	93.0	0.196 U	--	--	--	--	--	--
	11/16/10	5.18	7.06	15.4	92.2	7.73	--	--	--	--	--	--
	02/16/11	8.96	3.85	3.69	28.2	12.0	--	--	--	--	--	--
	05/18/11	55.3	12.8	7.23	46.4	19.7	--	--	--	--	--	--
	08/16/11	351 ^b D ⁵	155 ^b D ⁵	19.8	111	14.8	--	--	--	--	--	--
	09/08/11	316 ^b D ⁵	179 ^b D ⁵	25.0	153	15 U ^b	--	--	--	--	--	--
	03/29/12	5.1	0.75 I	1.5	5.0	2.3	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/26/12	0.50 U	0.71 I	0.56 I	2.6 I	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	1.0	3.7	4.3	31.5	0.50 U	--	--	--	--	--	--
	09/27/13	2.3	6.8	10.8	68.2	2.5	--	--	--	--	--	--
	04/01/14	47.4	2.2	9.3	31.0	0.50 U	--	--	--	--	--	--
	11/21/14	5.0	1.7	13.1	50.0	2.7	--	--	--	--	--	--
	05/21/15	0.43 I	0.78 U	0.49 I	3.7	0.56 I	--	--	--	--	--	--
11/20/15	0.434 I	0.991 I	4.22	20.1	0.367 U	--	--	--	--	--	--	
05/18/16	0.335 I	0.811 I	10.0	49.2	0.367 U	--	--	--	--	--	--	
11/15/16	2.66	0.780 U	6.01	25.8	1.39	--	--	--	--	--	--	
05/11/17	0.438 I	0.412 U	1.89	4.35	2.32	--	--	--	--	--	--	
11/14/17	5.63	1.1	3.10	15.80	0.551 I	--	--	--	--	--	--	
01/30/18	Well abandoned											
CW-1R	08/17/18	0.331 U	0.412 U	0.401 I	1.40 I	3.56	--	--	--	--	--	--
	11/13/18	0.331 U	0.412 U	0.728 I	1.06 U	0.367 U	--	--	--	--	--	--
	04/24/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
CW-2	01/23/01	610	200	120	400	1900	--	--	--	--	--	--	
	01/09/02	460	100	380	2300	5900	--	--	--	--	--	--	
	07/19/02	<1.0	<1.0	<1.0	<1.0	4.2	--	--	--	--	--	--	
	10/21/02	5.2	70	39	240	<1.0	--	--	--	--	--	--	
	01/15/03	2.1	21	9.2	93	<1.0	--	--	--	--	--	--	
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	1.2	24	--	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--	--
	06/14/07	<0.060	0.210	<0.10	<0.51	<0.31	--	--	--	--	--	--	--
	12/16/08	19.2	2.95	0.546 I	7.18	15.8	--	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--	--
	05/18/11	32.3 J	1.98	0.173 U	6.62	6.89	--	--	--	--	--	--	--
	05/22/15	1.6	0.78 U	0.38 U	1.2 I	0.40 I	--	--	--	--	--	--	--
	05/18/16	0.331 U	0.780 U	0.384 U	1.48 I	0.367 U	--	--	--	--	--	--	--
	11/15/16	47.4	5.27	0.578 I	13.1	1.52	--	--	--	--	--	--	--
	12/28/16	41.9	1.66	0.496 I	10.8	1.08	--	--	--	--	--	--	--
05/11/17	13.2	0.880 I	13.1	93.9	2.10	--	--	--	--	--	--	--	
11/14/17	1.4	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	--	
01/30/18	Well abandoned												
CW-2R	08/17/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
	11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
	04/24/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
CW-3	01/23/01	680	410	180	850	120	--	--	--	--	--	--
	04/10/03	6.9	<1.0	<1.0	<1.0	67	--	--	--	--	--	--
	08/26/03	66	1.6	<1.0	3.4	83	--	--	--	--	--	--
	11/18/03	200	140	70	270	570	--	--	--	--	--	--
	02/12/04	160	3.4	1.3	14	420	--	--	--	--	--	--
	05/24/04	36	<1.0	<1.0	2.8	310	--	--	--	--	--	--
	08/25/04	480	<50*	0.18	73	770	--	--	--	--	--	--
	12/03/04	<1.0	<1.0	<1.0	<1.0	37	--	--	--	--	--	--
	03/17/05	86	<1.0	7.8	6.8	510	--	--	--	--	--	--
	06/17/05	420	2.3	16	11	1300	--	--	--	--	--	--
	09/27/05	1.4	<1.0	<1.0	<1.0	45	--	--	--	--	--	--
	12/29/05	17.4	<0.14	1.18	1.66	117	--	--	--	--	--	--
	03/28/06	<0.36	<0.31	<0.33	<0.83	33	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	3.8	--	--	--	--	--	--
	09/18/06	<0.36	<0.31	<0.33	<0.83	1.9	--	--	--	--	--	--
	12/18/06	<0.36	<0.31	<0.33	<0.83	0.79	--	--	--	--	--	--
	03/15/07	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	09/14/07	<0.19	<0.19	<0.10	<0.51	<0.78	--	--	--	--	--	--
	12/14/07	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--
03/14/08	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--	
06/12/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--	
09/12/08	28.7	3.51	1.03	11.8	21.6	--	--	--	--	--	--	
12/16/08	94.7	6.76	0.986 l	23.3	131	--	--	--	--	--	--	
08/14/09	<0.17	<0.21	<0.17	<0.55	1.93 l	--	--	--	--	--	--	
11/03/09	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--	
02/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
CW-3 Cont.	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	08/27/10	0.173 U	0.244 I	0.173 U	0.899	0.196 U	--	--	--	--	--	--
	11/16/10	0.275 I	0.276 I	0.173 U	0.303	0.235 I	--	--	--	--	--	--
	02/16/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/18/11	4.38	1.58 J	0.173 UJ	2.48	2.89 IJ	--	--	--	--	--	--
	08/16/11	21.1	5.6	0.50 U	8.5	4.2	--	--	--	--	--	--
	09/08/11	0.56	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/29/12	38.8	1.8	0.75 I	11.4	43.0	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	1.0	--	--	--	--	--	--
	09/26/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/27/13	0.50 U	0.50 U	0.50 U	1.0 U	7.8	--	--	--	--	--	--
	04/01/14	0.50 U	0.50 U	0.50 U	1.0 U	4.2	--	--	--	--	--	--
	11/21/14	0.50 U	0.50 U	0.50 U	1.0 U	3.0	--	--	--	--	--	--
	05/22/15	0.33 U	0.78 U	0.38 U	1.1 U	0.76 I	--	--	--	--	--	--
	11/20/15	0.331 U	0.780 U	0.384 U	1.06 U	1.42	--	--	--	--	--	--
05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
01/30/18	Well abandoned											

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
CW-4	03/02/00	3700	620	610	3700	5100	--	--	--	--	--	--
	05/30/00	2100	15	20	<1.0	600	--	--	--	--	--	--
	01/23/01	420	68	130	570	1500	--	--	--	--	--	--
	01/09/02	1100	100	380	140	9300	--	--	--	--	--	--
	07/19/02	<1.0	<1.0	<1.0	4.8	53	--	--	--	--	--	--
	10/21/02	29	220	24	270	210	--	--	--	--	--	--
	01/15/03	9.1	240	25	240	58	--	--	--	--	--	--
	04/11/03	98	9.4	2.5	34	250	--	--	--	--	--	--
	08/26/03	200	<10	52	16	390	--	--	--	--	--	--
	11/18/03	200	62	77	150	180	--	--	--	--	--	--
	02/12/04	57	2.5	9.2	20	650	--	--	--	--	--	--
	05/24/04	2500	<20	320	45	760	--	--	--	--	--	--
	08/25/04	59	<10	21	160	350	--	--	--	--	--	--
	12/03/04	19	<1.0	2.9	<1.0	12	--	--	--	--	--	--
	03/17/05	200	1.2	9.1	23	760	--	--	--	--	--	--
	06/17/05	4.3	<1.0	<1.0	2.4	20	--	--	--	--	--	--
	09/27/05	5.2	1.1	1.2	1.3	13	--	--	--	--	--	--
	12/29/05	48.7	<0.14	9.12	8.79	49.7	--	--	--	--	--	--
	03/28/06	56	<0.46	4.2	2.7	33	--	--	--	--	--	--
	06/27/06	32	0.31	3.2	2.0	8.4	--	--	--	--	--	--
09/18/06	2.0	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--	
12/18/06	16	<0.31	0.64	1.30	<0.32	--	--	--	--	--	--	
03/15/07	<0.36	<0.31	<0.33	<0.83	1.0	--	--	--	--	--	--	
06/15/07	4.28	0.240	<0.10	<0.51	4.03	--	--	--	--	--	--	
09/14/07	<0.19	<0.19	<0.10	<0.51	1.21	--	--	--	--	--	--	
12/14/07	<0.21	0.240 l	<0.20	<0.60	<0.78	--	--	--	--	--	--	
03/14/08	5.35	1.06	0.240 l	1.34 l	23.0	--	--	--	--	--	--	
06/12/08	<0.17	<0.21	<0.17	<0.55	2.78	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Total Arsenic (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Lead (µg/L)
CW-4 Cont.	09/12/08	103	23.7	2.17	60.8	52.6	--	--	--	--	--	--
	12/16/08	284	22.8	3.01 I	70.1	206	--	--	--	--	--	--
	08/14/09	1.54	<0.21	<0.17	1.09 I	14.1	--	--	--	--	--	--
	11/03/09	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	02/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	08/27/10	0.173 U	0.284 I	0.286 I	0.844	0.196 U	--	--	--	--	--	--
	11/16/10	3.62	1.07	0.173 U	2.07	17.0 J	--	--	--	--	--	--
	02/16/11	1.70	0.205 U	0.173 U	0.201 I	20.0	--	--	--	--	--	--
	05/18/11	21.2	3.17	0.827 I	14.7	24.7	--	--	--	--	--	--
	08/16/11	65.6	23.0	7.7	60.8	29.1	--	--	--	--	--	--
	09/08/11	6.9	1.5	1.4	2.8	16.4	--	--	--	--	--	--
	03/29/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	3.7	--	--	--	--	--	--
	09/26/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	0.50 U	0.50 U	0.50 U	1.0 U	0.67 I	--	--	--	--	--	--
	09/27/13	2.8	0.50 U	0.50 U	2.2 I	27.0	--	--	--	--	--	--
	04/01/14	7.5	0.50 U	1.3	7.3	19.6	--	--	--	--	--	--
	11/21/14	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
05/21/15	0.33 U	0.78 U	0.38 U	1.1 U	0.64 I	--	--	--	--	--	--	
11/20/15	0.331 U	0.780 U	0.384 U	1.06 U	5.38	--	--	--	--	--	--	
12/11/15	NA	NA	NA	NA	NA	--	--	--	--	--	--	
05/18/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
01/30/18	Well abandoned											

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
CW-5	01/23/01	1.0	1.2	<1.0	<1.0	180	--	--	--	--	--	--
	07/19/02	1.2	1.2	1.2	15	5.2	--	--	--	--	--	--
	10/21/02	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	01/15/03	5.0	35	5.9	41	9.6	--	--	--	--	--	--
	04/11/03	<1.0	6.3	4.2	26	1.4	--	--	--	--	--	--
	08/26/03	5.7	65	15	71	1.1	--	--	--	--	--	--
	11/18/03	3.2	15	16	47	<1.0	--	--	--	--	--	--
	02/12/04	<1.0	<1.0	<1.0	1.2	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	3.1	--	--	--	--	--	--
	08/25/04	2.4	<1.0	4.9	15	<1.0	--	--	--	--	--	--
	03/17/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	09/27/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	12/29/05	<0.09	<0.14	<0.13	<0.21	<0.44	--	--	--	--	--	--
	09/27/05	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
12/16/08	<0.17 J,2	<0.21 J,2	<0.17 J,2	<0.55 J,2	<0.20 J,2	--	--	--	--	--	--	
CW-5R	04/05/10	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	06/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.372 U	--	--	--	--	--	--
	11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	01/24/01	<1.0	<1.0	<1.0	<1.0	38	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.200	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
MW-2	03/02/00	280	51	0	150	2000	--	--	--	--	--	--
	05/30/00	120	26	41	6	320	--	--	--	--	--	--
	01/23/01	5.1	<1.0	1.4	<1.0	41	--	--	--	--	--	--
	04/11/03	1.1	29	14	83	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.260	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/17/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.210 U	--	--	--	--	--	--
	05/21/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
	05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	11/15/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	05/11/17	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	11/14/17	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	08/17/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
MW-2R	04/24/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	--	--	--	--	--	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	01/24/01	740	430	<100	1100	1000	--	--	--	--	--	--
	01/09/02	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	07/19/02	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	10/21/02	1.8	38	4.2	33	6.4	--	--	--	--	--	--
	01/15/03	4.0	92	11	95	2.4	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/17/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	11/13/18	0.331 U	0.686 I	0.440 I	1.97 I	0.367 U	--	--	--	--	--	--
04/23/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
MW-4	01/24/01	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/17/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.250	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.176 I	0.196 U	--	--	--	--	--	--
	11/13/18	0.331 U	0.460 I	0.384 U	1.27 I	0.367 U	--	--	--	--	--	--
	04/23/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-5	03/02/00	420	290	41	130	660	--	--	--	--	--	--
	05/30/00	460	8.3	32	320	39	--	--	--	--	--	--
	01/23/01	67	1.5	<1.0	31	64	--	--	--	--	--	--
	01/09/02	29	13	14	120	84	--	--	--	--	--	--
	07/19/02	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	10/21/02	46	120	68	190	55	--	--	--	--	--	--
	01/15/03	83	150	70	190	97	--	--	--	--	--	--
	04/11/03	180	16	95	70	120	--	--	--	--	--	--
	08/26/03	86	65	40	86	46	--	--	--	--	--	--
	11/18/03	140	24	210	71	170	--	--	--	--	--	--
	02/12/04	47	46	190	190	440	--	--	--	--	--	--
	05/24/04	540	<1.0	580	54	590	--	--	--	--	--	--
	08/25/04	84	<10	67	26	150	--	--	--	--	--	--
	12/03/04	110	1.6	99	12	120	--	--	--	--	--	--
	03/17/05	22	<1.0	45	66	58	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	09/27/05	<1.0	<1.0	<1.0	<1.0	14	--	--	--	--	--	--
	12/29/05	<0.09	<0.14	<0.13	<0.21	<0.44	--	--	--	--	--	--
	03/27/06	<0.36	<0.31	<0.33	<0.83	3.4	--	--	--	--	--	--
	06/28/06	<0.36	<0.31	<0.33	<0.83	0.8	--	--	--	--	--	--
	09/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	12/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	03/15/07	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
06/14/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--	
09/14/07	<0.19	<0.19	<0.10	<0.51	<0.78	--	--	--	--	--	--	
12/14/07	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--	
03/14/08	0.400 l	0.560 l	0.420 l	2.63 l	2.48 l	--	--	--	--	--	--	
06/12/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--	
09/12/08	0.530 l	0.290 l	<0.17	<0.55	0.840 l	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-5 Cont.	12/17/08	2.18	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	08/14/09	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	11/03/09	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	02/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	08/27/10	0.173 U	0.231 I	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	11/16/10	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	02/16/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/18/11	0.944 I	0.614 I	0.173 U	0.380 I	1.85 I	--	--	--	--	--	--
	08/16/11	1.4	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/08/11	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/29/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/26/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/27/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	04/01/14	0.62 I	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	11/21/14	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
05/21/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--	
11/20/15	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
05/18/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
11/15/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
05/11/17	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
11/14/17	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cad- mium	Total Chro- mium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-6	03/02/00	36	28	2.8	27	110	--	--	--	--	--	--
	05/03/00	3.6	<1.0	<1.0	3.7	<1.0	--	--	--	--	--	--
	01/23/01	370	170	47	380	49	--	--	--	--	--	--
	01/09/02	360	21	310	100	960	--	--	--	--	--	--
	07/19/02	30	48	33	110	43	--	--	--	--	--	--
	10/21/02	13	390	47	440	6.9	--	--	--	--	--	--
	01/15/03	20	480	48	430	27	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	3.3	--	--	--	--	--	--
	08/26/03	<1.0	<1.0	<1.0	1.0	21	--	--	--	--	--	--
	11/18/03	<1.0	<1.0	<1.0	1.4	88	--	--	--	--	--	--
	02/12/04	6.5	1.6	2.6	14.0	410	--	--	--	--	--	--
	05/24/04	1.3	<1.0	2.2	2.8	330	--	--	--	--	--	--
	08/25/04	<50*	<50*	<50*	<50*	3300	--	--	--	--	--	--
	12/03/04	1.7	<1.0	2.8	<1.0	260	--	--	--	--	--	--
	03/17/05	3.2	<1.0	6.0	2.5	320	--	--	--	--	--	--
	06/17/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	09/27/05	<1.0	<1.0	<1.0	<1.0	22	--	--	--	--	--	--
	12/29/05	<0.09	<0.14	<0.13	<0.21	<0.44	--	--	--	--	--	--
	03/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	09/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	12/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	03/15/07	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
06/15/07	<0.060	0.230	<0.10	<0.51	<0.31	--	--	--	--	--	--	
09/14/07	<0.19	<0.19	<0.10	<0.51	<0.78	--	--	--	--	--	--	
12/14/07	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--	
03/14/08	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--	
06/12/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--	
09/12/08	<0.17	0.260 l	<0.17	<0.55	0.490 l	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-6 Cont.	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	08/14/09	<0.17	<0.21	<0.17	<0.55	21.3	--	--	--	--	--	--
	11/03/09	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	02/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	08/27/10	0.173 U	0.360 I	0.255 I	0.810	0.196 U	--	--	--	--	--	--
	11/16/10	0.173 U	0.219 I	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	02/16/11	0.173 U	0.405 I	0.173 U	0.171 U	15.6	--	--	--	--	--	--
	05/18/11	7.79	0.506 I	0.173 U	0.938 I	3.96 I	--	--	--	--	--	--
	08/16/11	0.76 I	0.50 U	0.50 U	1.0 U	7.9	--	--	--	--	--	--
	03/29/12	3.1	0.50 U	0.50 U	1.6 I	6.2	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	5.1	--	--	--	--	--	--
	09/26/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/27/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	04/01/14	0.50 U	0.50 U	0.50 U	1.0 U	2.8	--	--	--	--	--	--
	11/21/14	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	05/21/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
11/20/15	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Total Arsenic (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Lead (µg/L)
MW-7	02/02/99	3815	32089	610	3034	54799	--	--	--	--	--	--
	01/23/01	5400	43000	4900	24000	8300	--	--	--	--	--	--
	07/19/02	180	5200	100	7700	290	--	--	--	--	--	--
	10/21/02	770	16000	1000	11000	1600	--	--	--	--	--	--
	01/15/03	580	9000	800	7000	1200	--	--	--	--	--	--
	04/11/03	1700	14000	2500	10000	7100	--	--	--	--	--	--
	08/26/03	380	4800	710	3500	1100	--	--	--	--	--	--
	11/18/03	1200	7600	2600	9500	2900	--	--	--	--	--	--
	02/12/04	660	3300	1500	7000	2600	--	--	--	--	--	--
	05/24/04	970	3800	2400	6200	9000	--	--	--	--	--	--
MW-7R	08/25/04	660	290	1200	2600	5600	--	--	--	--	--	--
	12/03/04	200	<100	130	240	14000	--	--	--	--	--	--
	03/17/05	120	2.6	320	160	3000	--	--	--	--	--	--
	09/27/05	79	10	77	110	1800	--	--	--	--	--	--
	12/29/05	20.2	<0.14	20.9	17	46	--	--	--	--	--	--
	03/27/06	36	0.94	60	24	83	--	--	--	--	--	--
	06/27/06	7.7	<0.31	30	5.9	<0.32	--	--	--	--	--	--
	09/18/06	4.4	<0.31	7.5	1.8	1.0	--	--	--	--	--	--
	12/18/06	0.65	<0.31	1.7	0.83	<0.32	--	--	--	--	--	--
	03/15/07	5.6	<0.31	6.8	15	<0.32	--	--	--	--	--	--
	06/15/07	9.91	0.620	7.73	3.22	<0.31	--	--	--	--	--	--
	09/14/07	3.13	<0.19	3.84	19.2	<0.78	--	--	--	--	--	--
	12/14/07	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--
	03/14/08	5.80	0.520 I	0.770 I	1.01 I	2.47 I	--	--	--	--	--	--
	06/12/08	0.960 I	0.380 I	0.450 I	1.08	1.54 I	--	--	--	--	--	--
	09/12/08	9.51	4.97 I	0.960 I	11.1 I	10.4 I	--	--	--	--	--	--
	12/16/08	48.3	<0.21	1.09	12.6	39.2	--	--	--	--	--	--
	08/14/09	0.963 I	<0.21	0.993 I	5.01	1.15 I	--	--	--	--	--	--
11/03/09	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--	
02/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--	
06/01/10	0.211 U	0.247 U	0.196 U	0.374	0.261 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-7R Cont.	08/27/10	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	11/16/10	2.11	0.460 I	0.173 U	0.919	0.196 U	--	--	--	--	--	--
	02/16/11	0.967 I	0.415 I	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/18/11	18.6	3.38	0.173 U	3.19	4.11 I	--	--	--	--	--	--
	08/16/11	63.5	64.8	1.8	26.0	9.5	--	--	--	--	--	--
	09/08/11	24.9	16.0	0.75 I	6.7	4.3	--	--	--	--	--	--
	03/29/12	0.50 U	0.50 U	1.5	1.0 U	0.50 U	--	--	--	--	--	--
	06/28/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/26/12	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	01/02/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	03/26/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	07/01/13	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	09/27/13	1.0	0.50 U	0.50 U	1.0 U	0.50 U	--	--	--	--	--	--
	04/01/14	0.50 U	0.50 U	0.50 U	1.0 U	6.9	--	--	--	--	--	--
	11/21/14	0.50 U	0.50 U	0.50 U	1.0 U	0.77 I	--	--	--	--	--	--
	05/22/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
	11/20/15	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	11/15/16	0.946 I	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
05/11/17	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
11/14/17	3.49	0.421 I	3.62	21.4	0.367 U	--	--	--	--	--	--	
01/30/18	Well abandoned											
MW-7RR	08/17/18	0.331 U	0.494 I	176	1270 D²⁰	0.367 U	--	--	--	--	--	--
	11/13/18	0.331 U	0.412 U	34.8	219	0.367 U	--	--	--	--	--	--
	04/24/19	0.331 U	0.412 U	25.3	88.9	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	2.94	1.60 I	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-8	01/23/01	68	3.8	9.0	74	50	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	1.7	<1.0	2.4	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/22/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
	05/18/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
01/30/18	Well abandoned											
MW-9	05/30/00	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	01/23/01	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	3.6	1.3	7.6	<1.0	--	--	--	--	--	--
	05/24/04	NA	NA	NA	NA	NA	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	3.6	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	1.30 I	--	--	--	--	--	--
	11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
MW-10D	01/23/01	<1.0	<1.0	<1.0	<1.0	130	--	--	--	--	--	--
	05/08/01	1.3	<1.0	<1.0	<1.0	130	--	--	--	--	--	--
	04/11/03	1.7	32	7.2	72	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	1.3	4.7	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/17/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/22/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
	05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-11	01/24/01	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	NA	NA	NA	NA	NA	--	--	--	--	--	--
	06/16/05	NA	NA	NA	NA	NA	--	--	--	--	--	--
	06/27/06	NA	NA	NA	NA	NA	--	--	--	--	--	--
MW-12	01/24/01	3.5	2.4	2.8	6.9	4	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/17/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--	
MW-13	01/24/01	<1.0	<1.0	<1.0	1.0	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	<0.090	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/17/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-14	05/08/01	<1.0	<1.0	<1.0	1.8	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	0.180	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
MW-15	05/08/01	<1.0	1.2	<1.0	1.7	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.290	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.225 U	--	--	--	--	--	--
MW-16	05/08/01	<1.0	2.2	<1.0	4.5	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/16/05	NA	NA	NA	NA	NA	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.370	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/02/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/19/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-17	05/08/01	<1.0	2.9	1	5.7	<1.0	--	--	--	--	--	--
	04/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/17/05	<1.0	<1.0	<1.0	<1.0	1.7	--	--	--	--	--	--
	06/16/05	NA	NA	NA	NA	NA	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/14/07	<0.060	0.260	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/21/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
11/13/18	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--	
MW-18	08/17/18	562 D ⁵⁰	4960 D ⁵⁰	3320 D ⁵⁰	17900 D ⁵⁰	18.4 U D ⁵⁰	--	--	--	--	--	--
	11/13/18	650 D ¹⁰⁰	132	3220 D ¹⁰⁰	10700 D ¹⁰⁰	0.367 U	--	--	--	--	--	--
	04/24/19	364 D ¹⁰⁰	41.2 U D ¹⁰⁰	2990 D ¹⁰⁰	7060 D ¹⁰⁰	36.7 U D ¹⁰⁰	--	--	--	--	--	--
	02/25/20	92.6 I D ¹⁰⁰	41.2 U D ¹⁰⁰	1660 D ¹⁰⁰	668 D ¹⁰⁰	36.7 U D ¹⁰⁰	--	--	--	--	--	--
MW-19	08/17/18	4510 D ¹⁰⁰	37800 D ¹⁰⁰⁰	4340 D ¹⁰⁰	28400 D ¹⁰⁰	36.7 U D ¹⁰⁰	--	--	--	--	--	--
	11/13/18	6160 D ⁵⁰⁰	37800 D ⁵⁰⁰	4150 D ⁵⁰⁰	27500 D ⁵⁰⁰	3.67 U D ¹⁰	--	--	--	--	--	--
	04/23/19	Not Sampled - Free Product Encountered (1.3 feet)										
	02/25/20	164 D ¹⁰	2570 D ¹⁰⁰	1070 D ¹⁰	7810 D ¹⁰	3.67 U D ¹⁰	--	--	--	--	--	--
MW-20	04/23/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/25/20	0.331 U	0.412 U	0.420 I	3.26	0.367 U	--	--	--	--	--	--
MW-21	04/23/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
MW-22	04/24/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
MW-23	04/23/19	1.53	0.412 U	14.3	1.21 I	0.367 U	--	--	--	--	--	--
	02/25/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
MW-24	04/24/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
MW-25	04/23/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/25/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
RW-1	03/02/00	3600	21000	2300	13000	25000	--	--	--	--	--	--
	01/23/01	3800	23000	1900	8900	26000	--	--	--	--	--	--
	08/26/03	86	410	280	2000	410	--	--	--	--	--	--
	11/18/03	6.0	39	26	110	26	--	--	--	--	--	--
	02/12/04	9.0	94	47	280	7.3	--	--	--	--	--	--
	05/24/04	7.1	<1.0	5.5	52	13	--	--	--	--	--	--
	08/25/04	2.8	20	9.3	62	13	--	--	--	--	--	--
	12/03/04	2.8	10	8.8	58	120	--	--	--	--	--	--
	03/17/05	<1.0	<1.0	4.8	9.8	8.7	--	--	--	--	--	--
	06/17/05	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	09/27/05	<1.0	<1.0	<1.0	<1.0	4	--	--	--	--	--	--
	12/29/05	0.89	0.61	<0.13	1.05	59	--	--	--	--	--	--
	03/27/06	3.5	39	47	150	68	--	--	--	--	--	--
	06/27/06	<0.36	10	2.3	15	<0.32	--	--	--	--	--	--
	09/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	12/18/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	03/15/07	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	0.320	<0.10	<0.51	<0.31	--	--	--	--	--	--
	09/14/07	<0.19	<0.19	<0.10	<0.51	<0.78	--	--	--	--	--	--
12/14/07	<0.21	<0.21	<0.20	<0.60	<0.78	--	--	--	--	--	--	
12/16/08	949	283	48.8 I	495	545	--	--	--	--	--	--	
06/01/10	0.615 I	0.493 I	0.793 I	4.48	0.261 U	--	--	--	--	--	--	

TABLE 3A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-DCA	EDB	Total Arsenic	Total Cadmium	Total Chromium	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DW-2	03/14/03	<1.0	<1.0	<1.0	<1.0	1.3	--	--	--	--	--	--
	05/24/04	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
	06/27/06	<0.36	<0.31	<0.33	<0.83	<0.32	--	--	--	--	--	--
	06/15/07	<0.060	0.300	<0.10	<0.51	<0.31	--	--	--	--	--	--
	12/16/08	<0.17	<0.21	<0.17	<0.55	<0.20	--	--	--	--	--	--
	06/01/10	0.211 U	0.247 U	0.196 U	0.298 U	0.261 U	--	--	--	--	--	--
	05/18/11	0.173 U	0.205 U	0.173 U	0.171 U	0.196 U	--	--	--	--	--	--
	05/22/15	0.33 U	0.78 U	0.38 U	1.1 U	0.37 U	--	--	--	--	--	--
05/19/16	0.331 U	0.780 U	0.384 U	1.06 U	0.37 U	--	--	--	--	--	--	
DW-3	04/24/19	187 D¹⁰	3.40	54.3	11.1	3.30	--	--	--	--	--	--
	08/28/19	117	2.02	31.5	4.31	3.24	--	--	--	--	--	--
	02/25/20	9.23	0.412 U	0.384 U	1.06 U	5.12	--	--	--	--	--	--
DW-4	04/23/19	0.595 I	2.39	0.601 I	1.82 I	0.367 U	--	--	--	--	--	--
	08/28/19	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/25/20	0.331 U	0.412 U	0.384 U	1.06 U	0.732 I	--	--	--	--	--	--
DW-5	08/28/19	0.331 U	0.991 I	0.384 U	1.68 I	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
DW-6	08/28/19	0.331 U	0.715 I	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
DW-7	08/28/19	0.331 U	0.926 I	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
	02/24/20	0.331 U	0.412 U	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--
DDW-1	08/28/19	0.331 U	0.913 I	0.384 U	1.06 U	0.367 U	--	--	--	--	--	--

Analytical Results reported in micrograms per liter (µg/L)

VOCs = Volatile Organic Compounds

MTBE = Methyl Tert-Butyl Ether

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

-- = Sample Not Analyzed for Constituent

** = As provided in Chapter 62-550, F.A.C.

Concentrations in bold are above FDEP GCTLs

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

Qualifiers: U = Result below MDL

I = Result between MDL and PQL

V = Indicates the analyte was detected in both sample and method blank

D^x = Dilution factor of 'x'

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
CW-1	01/23/01	--	820	1500	380	0.10 U	680	3.6	7.2	35	0.10 U	9.0	6.6	6.9	14	17	7.2	6.9	72	4.2
	07/19/02	--	86	13	52	17	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	10/21/02	--	110	50	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	68	43	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	130	76	18	27	0.10 U	0.10 U	1.6	1.5	0.10 U	0.10 U	0.10 U	1.9	0.10 U	0.10 U	0.54	1.3	0.10 U	0.44
	08/26/03	--	6.4	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	43	29	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	57	20	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	80	78	26	8.6	21	0.10 U	4.4	14	0.10 U	2.1	7.3	4.6	1.9	11	3.2	4.4	0.10 U	4.4
	08/25/04	--	14	15	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	20	18	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	50	46	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/05	--	20	6.8	9.9	0.10 U	8.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	09/27/05	--	14	5.8	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/27/06	--	30	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/06	--	8.2	0.012 U	0.022 U	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.0080 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.014 U
	09/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/06	--	15	1.4	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/07	--	30	3.0	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	09/14/07	--	0.070 U	0.023 U	0.099 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/07	--	0.070 U	0.023 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/14/08	--	4.63	0.600 I	1.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/12/08	--	3.87	0.523 I	0.898 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/12/08	--	7.52	1.00	1.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/17/08	--	4.94	0.717 I	1.35	0.027 U	0.026 U	0.0056 U	0.014 U	0.0248 I	0.0154 I	0.0222 I	0.0230 I	0.013 U	0.0206 I	0.0156 I	0.012 U	0.017 U	0.0056 U	0.011 U
08/14/09	--	1.44	0.191 I	0.197 I	0.027 U	0.026 U	0.0056 U	0.0287 I	0.0348 I	0.0177 I	0.014 U	0.0354 I	0.0209 I	0.0190 I	0.0291 I	0.108	0.0294 I	0.0210 I	0.0284 I	
11/03/09	--	1.50	0.223 I	0.260 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/02/10	--	0.691 I	0.109 I	0.096 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/01/10	--	0.755 I	0.122 I	0.153 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/27/10	--	2.95	0.474 I	0.936 I	0.027 U	0.026 U	0.006 U	0.094 I	0.184 I	0.045 I	0.073 I	0.159	0.064 I	0.052 I	0.085 I	0.099 I	0.113	0.024 I	0.077 I	
11/16/10	--	1.57	0.352 I	0.395 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/16/11	--	4.51	0.799 I	1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/18/11	--	2.74	0.874 I	0.975 I	0.0270 U	0.0264 U	0.00560 U	0.0280 I	0.125 I	0.0112 U	0.0670 I	0.101	0.0210 I	0.0113 U	0.0270 I	0.0550 I	0.0165 U	0.00560 U	0.0210 I	
08/16/11	--	12.7	2.3	3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
CW-1 Cont.	09/08/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/29/12	--	5.0	0.97	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/12	--	1.2 I	0.38 U	0.38 U	0.76 U	0.76 U	0.76 U	0.038 U	0.38 U	0.76 U	0.76 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.038 U	0.038 U
	09/26/12	--	0.60 I	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/02/13	--	0.82 I	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.039	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.062	0.038 U	0.041	0.038 U	0.038 U
	03/26/13	--	2.1	0.45 I	0.69 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/13	--	1.8	0.32 U	0.40 I	0.32 U	0.32 U	0.20 U	0.062	0.20 U	0.32 U	0.20 U	0.20 U	0.046	0.032 U	0.10	0.038	0.055	0.032 U	0.069
	09/27/13	--	5.0	0.80 I	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/14	--	10.5	2.3	3.7	0.38 U	0.38 U	0.27	0.76	1.6	0.38 U	0.76	1.3	0.68	0.42	1.3	0.66	1.1	0.10	0.84
	11/21/14	--	17.5	2.5	3.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/21/15	--	19	3.6	6.2	0.12	0.012 U	0.050	0.046 I	0.39	0.12	0.24	0.40	0.036 I	0.045 I	0.097	0.027 I	0.086	0.0065 I	0.036 I
	11/20/15	--	7.20	1.24	1.63	0.0348 I	0.0120 U	0.0154 I	0.0292 I	0.131	0.0412 I	0.0424 I	0.120	0.0194 I	0.0142 I	0.0412 I	0.0136 U	0.0319 I	0.00396 U	0.0222 I
	05/18/16	--	0.0262 I	0.0336 I	0.0206 I	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00919 I	0.0688	0.0130 I	0.0116 U	0.00800 I	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	11/15/16	--	29.2	5.45	9.23	0.107	0.0120 U	0.0428 I	0.309	0.645	0.120	0.326	0.537	0.208	0.117	0.456	0.170	0.251	0.00396 U	0.244
05/11/17	--	26.2	7.30	10.80	0.123	0.0120 U	0.0336 I	0.0413 I	0.407	0.120	0.244	0.351	0.0312 I	0.0389 I	0.111	0.0264 I	0.0925	0.00396 U	0.0335 I	
11/14/17	--	22.1	4.58	7.59	0.0864	0.0120 U	0.0140 U	0.344	0.511	0.0882	0.190	0.384	0.186	0.0790	0.405	0.142	0.204	0.00396 U	0.245	
01/30/18	Well abandoned																			
CW-1R	08/17/18	--	2.14	3.32	5.69	0.0670	0.0120 U	0.0667	0.00227 U	0.0351 I	0.159	0.155	0.0387 I	0.0116 U	0.00410 U	0.00459 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	11/13/18	257 I	1.07	3.18	5.34	0.0503	0.0120 U	0.0582	0.00243 I	0.0157 U	0.0997	0.123	0.0139 I	0.0116 U	0.00410 U	0.00307 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	04/24/19	--	1.14	2.17	3.65	0.0652	0.0120 U	0.0812	0.00227 U	0.0161 I	0.106	0.111	0.0157 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0236 I	0.00870 I	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
CW-2	01/23/01	--	110	39	40	15	0.10 U	0.10 U	0.21	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.4	0.10 U	
	01/09/02	--	0.10 U	19	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/02	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	10/21/02	--	5.8	0.6	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	0.10 U	0.71	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/10/03	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.64	1.4	0.72	2.9	0.10 U	0.10 U	1.7	2.9	0.10 U	0.20	0.10 U	1.5	0.57	2.4	1.0	1.2	0.10 U	1.3	
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
	12/16/08	--	0.0671 I	0.0468 I	0.0799 I	0.027 U	0.026 U	0.0056 U	0.014 U	0.0148 I	0.011 U	0.014 U	0.0161 I	0.013 U	0.0179 I	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.0100 I	0.469	0.306 I	0.0112 U	0.0700 I	0.337	0.226	0.111	0.242	0.570	0.359	0.00560 U	0.348	
	05/22/15	--	0.33	0.16 I	0.14 I	0.010 U	0.012 U	0.014 U	0.029 I	0.039 I	0.0085 U	0.021 I	0.036 I	0.017 I	0.018 I	0.035 I	0.014 U	0.017 I	0.0043 I	0.020 I	
	05/18/16	--	0.542	0.0576 I	0.0994 I	0.0761	0.0120 U	0.0140 U	0.0118 I	1.66	0.356	1.43	0.925	0.0158 I	0.0386 I	0.0727	0.0141 I	0.182	0.00396 U	0.0148 U	
	11/15/16	--	0.805	0.110 I	0.196 I	0.105	0.0120 U	0.0140 U	0.0136 I	1.93	0.450	1.93	1.11	0.0166 I	0.0430 I	0.0711	0.0245 I	0.234	0.00396 U	0.0148 U	
	12/28/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/11/17	--	0.928	0.135 I	0.222 I	0.106	0.0120 U	0.0769	1.25	4.04	0.477	2.47	2.68	0.734	0.353	2.53	0.706	1.58	0.00396 U	1.02		
11/14/17	--	0.338	0.0523 I	0.100 I	0.0342 I	0.0120 U	0.0727	0.166	1.68	0.198	0.699	0.868	0.0833	0.00410 U	0.343	0.0978	0.263	0.00396 U	0.137		
01/30/18	Well abandoned																				
CW-2R	08/17/18	--	0.244 IV	0.609	0.263	0.0399 I	0.0120 U	0.0140 U	0.00227 U	0.0479 I	0.0729	0.0705	0.0544	0.0116 U	0.00410 U	0.00532 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	11/13/2018	100 U	0.0277 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0184 I	0.00850 U	0.0151 I	0.0176 I	0.0116 U	0.00410 U	0.00290 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	04/24/19	--	0.0227 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
CW-3	01/23/01	--	4.9	20	14	0.10 U	15	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	04/10/03	--	5.7	0.10 U	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	08/26/03	--	1.9	0.10 U	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	58	16	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	26	4.9	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	350	89	57	0.10 U	69	0.10 U	0.10 U	0.10 U	1.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/25/04	--	47	18	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	50	9.2	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/05	--	210	65	54	0.10 U	29	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	09/27/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	11	1.4	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/06	--	0.56 U	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	0.011 U	0.012 U	0.022 U	0.019 U	0.019 U	0.012 U	0.0095 U	0.0081 U	0.010 U	0.017 U	0.0099 U	0.016 U	0.023 U	0.0078 U	0.0091 U	0.011 U	0.0091 U	0.014 U	
	09/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/07	--	0.064 U	0.031 U	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
09/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/14/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/08	--	0.0401 I	0.0271 I	0.0640 I	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U		

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
CW-3 Cont.	08/14/09	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	11/03/09	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/10	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.006 U	0.014 U	0.008 U	0.011 U	0.014 U	0.008 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.006 U	0.011 U
	11/16/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	--	0.0344 U	0.0261 U	0.0302 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U
	08/16/11	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/29/12	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/12	--	0.76 U	0.38 U	0.38 U	0.76 U	0.76 U	0.76 U	0.038 U	0.38 U	0.76 U	0.76 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	09/26/12	--	0.39 U	0.39 U	0.39 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/02/13	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	03/26/13	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/13	--	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.32 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
	09/27/13	--	0.37 U	0.37 U	0.37 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/14	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.38 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
11/21/14	--	0.32 U	0.32 U	0.32 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/22/15	--	0.020 U	0.0087 I	0.010 I	0.010 U	0.012 U	0.014 U	0.0023 U	0.016 U	0.0085 U	0.011 I	0.012 U	0.012 U	0.0063 I	0.0021 U	0.014 U	0.011 U	0.0040 U	0.015 U	
11/20/15	--	0.0284 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
05/19/16	--	0.0439 I	0.00821 U	0.0140 I	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00782 I	0.00335 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
01/30/18	Well abandoned																			

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
CW-4	03/02/00	--	5.9	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/30/00	--	3.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	
	01/23/01	--	26	65	24	0.10 U	50	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.10 U	0.10 U	
	01/09/02	--	75	17	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/02	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	10/21/02	--	8.4	0.9	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	0.10 U	1.1	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	13	1.6	2.9	0.10 U	3.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	08/26/03	--	120	8.5	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	51	8.8	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	0.10 U	0.10 U	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	5.0	3.0	2.3	0.10 U	16	0.10 U	0.10 U	0.10 U	1.2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	08/25/04	--	60	19	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	42	13	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	130	45	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/05	--	33	12	13	0.10 U	7.1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	09/27/05	--	44	10	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/06	--	40	11	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	27	5.1	8.2	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.010 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.014 U	
09/18/06	--	8.1	0.012 U	0.023 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/06	--	9.0	4.4	4.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/15/07	--	0.064 U	0.031 U	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/15/07	--	3.95	1.94	1.73	0.0634 I	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U		
09/14/07	--	1.12	0.174	0.211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/14/08	--	0.344 I	0.128 I	0.132 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
CW-4 Cont.	09/12/08	--	0.668 I	0.106 I	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/08	--	0.448 I	0.122 I	0.166 I	0.027 U	0.026 U	0.0056 U	0.014 U	0.0151 I	0.0190 I	0.014 U	0.0102 I	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	08/14/09	--	0.0426 I	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	11/03/09	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/10	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.006 U	0.014 U	0.008 U	0.011 U	0.014 U	0.008 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.006 U	0.011 U
	11/16/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	--	0.0344 U	0.0261 U	0.0302 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U
	08/16/11	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/29/12	--	0.39 U	0.39 U	0.39 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/12	--	0.76 U	0.38 U	0.38 U	0.76 U	0.76 U	0.76 U	0.038 U	0.38 U	0.76 U	0.76 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.038 U	0.038 U
	09/26/12	--	0.39 U	0.39 U	0.39 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/02/13	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	03/26/13	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/13	--	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.32 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
	09/27/13	--	0.37 U	0.37 U	0.37 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/14	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
11/21/14	--	0.32 U	0.32 U	0.32 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/21/15	--	0.020 U	0.0082 U	0.0090 U	0.010 U	0.012 U	0.014 U	0.0023 U	0.016 U	0.0085 U	0.0093 U	0.012 U	0.012 U	0.0058 I	0.0021 U	0.014 U	0.011 U	0.0040 U	0.015 U	
11/20/15	--	21.9	6.20	1.45	0.113	0.0187 I	0.0140 U	0.00227 U	0.0191 I	0.0887	0.0500	0.0164 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
12/11/15	--	9.11	2.96	1.03	0.0974	0.0134 I	0.0140 U	0.00227 U	0.0190 I	0.0712	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
05/18/16	--	0.0618 I	0.00821 U	0.00925 U	0.0100 U	0.0120 U	0.0140 U	0.00310 I	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
01/30/18	Well abandoned																			

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
CW-5	01/23/01	--	0.50 U	4.6	0.50 U	0.50 U	0.50 U	0.50 U	1.6	3.2	0.50 U	0.50 U	2.0	0.70	0.50 U	1.4	0.50 U	0.55	0.50 U	0.50 U	
	07/19/02	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	10/21/02	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	0.10 U	1.4	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	4.6	1.3	1.1	0.10 U	0.90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/26/03	--	5.3	1.6	4.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	9.9	1.7	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	0.20	0.42	0.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	0.23	0.23	0.25	0.36	0.10 U	0.10 U	0.10 U	0.34	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.24	0.10 U	0.10 U	0.10 U	0.10 U
	08/25/04	--	1.10	0.52	0.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/05	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	09/27/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/27/05	--	0.056 U	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CW-5R	06/27/06	--	0.011 U	0.012 U	0.022 U	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.010 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.014 U	
	06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
	12/16/08	--	0.0403 I	0.026 U	0.0368 I	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	04/05/10	--	0.95 U	0.48 U	0.48 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	11/13/2018	104 I	0.0259 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00245 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-1	01/24/01	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.1	0.10 U	1.1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.17	0.10 U	0.10 U
	04/10/03	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/16/05	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/27/06	--	0.011 U	0.012 U	0.022 U	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.010 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.014 U
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.0890 U	0.037 U	0.033 U	0.0885 U	0.0763 U	0.029 U	0.0902 U	0.0558 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0094 U	0.011 U	0.014 U	0.0111 U	0.013 U	0.0261 U	0.015 U	0.0147 U	0.017 U	0.0056 U	0.011 U
	06/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
MW-2	03/02/00	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/30/00	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U
	01/23/01	--	0.10 U	2.9	0.10 U	0.10 U	0.10 U	0.10 U	2.3	0.96	0.10 U	0.10 U	0.42	0.81	0.26	1.7	0.73	0.66	1.3	0.75
	04/11/03	--	3.5	1.2	0.7	0.10 U	0.47	0.10 U	0.10 U	0.51	0.10 U	0.10 U	0.10 U	1.0	0.22	0.10 U	0.10 U	0.10 U	0.10 U	0.25
	05/24/04	--	0.41	0.81	0.5	2.4	0.10 U	0.10 U	0.45	1.8	0.10 U	0.10 U	0.83	0.86	0.44	1.2	0.45	0.44	0.10 U	0.51
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.0482	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/17/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0138 U	0.011 U	0.014 U	0.0143 U	0.013 U	0.013 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0170 U	0.0180 U	0.0112 U	0.0136 U	0.0180 U	0.0133 U	0.0113 U	0.0180 U	0.0160 U	0.0165 U	0.00560 U	0.0110 U
	05/21/15	--	0.020 U	0.0082 U	0.0090 U	0.010 U	0.012 U	0.014 U	0.0076 U	0.016 U	0.0085 U	0.014 U	0.015 U	0.012 U	0.0087 U	0.011 U	0.014 U	0.011 U	0.0040 U	0.015 U
	05/19/16	--	0.0322 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.174	0.183	0.00850 U	0.0451 U	0.142	0.0944	0.0364 U	0.242	0.0540	0.0994	0.00396 U	0.134
	11/15/16	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.0231 U	0.0820	0.0176 U	0.0460 U	0.0599	0.0116 U	0.0108 U	0.0296 U	0.0136 U	0.0182 U	0.00396 U	0.0172 U
	05/11/17	--	0.0408 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00896 U	0.0806	0.0149 U	0.0182 U	0.0528	0.0116 U	0.00410 U	0.0155 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	11/14/17	--	0.0290 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.0173 U	0.0954	0.00850 U	0.0133 U	0.0486 U	0.0116 U	0.00410 U	0.0244 U	0.0136 U	0.0203 U	0.00396 U	0.0148 U
	08/17/18	--	0.0686 U	0.0261 U	0.0422 U	0.0100 U	0.0120 U	0.0140 U	0.0868	0.337	0.0454	0.141	0.196	0.0585	0.0312 U	0.144	0.0544	0.104	0.0116 U	0.0643
11/13/2018	210 U	0.0437 U	0.00856 U	0.00902 U	0.0140 U	0.0120 U	0.0254 U	2.19	2.94	0.0118 U	0.575	1.94	1.46	0.628	3.65	1.08	1.90	0.376	1.71	
MW-2R	04/24/2019	100 U	0.0370 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0158 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
MW-3	01/24/01	--	33	13	15	1.9	2.6	0.10 U	0.10 U	0.76	0.10 U	0.56	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	01/09/02	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	07/19/02	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	10/21/02	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	0.10 U	3.8	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/10/03	--	0.71	0.19	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	06/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	11/13/2018	100 U	0.0579 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
04/23/19	--	0.0364 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
MW-4	01/24/01	--	3.9	0.10 U	2.9	0.10 U	0.10 U	0.10 U	0.10 U	1.1	0.10 U	0.92	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	04/10/03	--	0.51	0.23	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	05/24/04	--	1.0	0.39	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	06/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	06/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	11/13/2018	104 I	0.0390 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00285 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	04/23/19	--	0.0361 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-5	03/02/00	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/30/00	--	0.26	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U
	01/23/01	--	15	7.1	2.8	1.6	20	0.10 U	0.18	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.10 U	0.10 U
	01/09/02	--	11	3.0	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/02	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	10/21/02	--	85	10	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	290	76	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	290	57	82	0.10 U	82	0.10 U	0.10 U	0.10 U	6.6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/26/03	--	54	4.2	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	370	40	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	140	21	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	310	79	50	0.10 U	130	0.10 U	0.10 U	0.10 U	5.4	0.62	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/25/04	--	120	9	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	41	11	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	27	22	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/05	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.68	2.4	0.10 U	0.10 U	1.8	0.79	0.60	0.73	0.68	0.92	0.10 U	0.30
	09/27/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/27/06	--	0.056 U	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/06	--	0.011 U	0.012 U	0.022 U	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.010 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.014 U
	09/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/15/07	--	0.065 U	0.031 U	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
09/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/14/08	--	0.154 I	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
MW-5 Cont.	12/17/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.0193 I	0.0191 I	0.015 U	0.012 U	0.0191 I	0.0056 U	0.011 U	
	08/14/09	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.00874 I	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	11/03/09	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/27/10	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.006 U	0.014 U	0.008 U	0.011 U	0.014 U	0.008 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.006 U	0.011 U	
	11/16/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/16/11	--	0.0344 U	0.0261 U	0.0302 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	08/16/11	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/29/12	--	0.39 U	0.39 U	0.39 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/12	--	0.77 U	0.38 U	0.38 U	0.77 U	0.77 U	0.77 U	0.038 U	0.38 U	0.77 U	0.77 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.038 U	0.038 U
	09/26/12	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/02/13	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	03/26/13	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/13	--	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.32 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
	09/27/13	--	0.37 U	0.37 U	0.37 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/14	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.34 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	11/21/14	--	0.32 U	0.32 U	0.32 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/21/15	--	0.020 U	0.0082 U	0.0090 U	0.010 U	0.012 U	0.014 U	0.0026 I	0.016 U	0.0085 U	0.0084 I	0.012 U	0.012 U	0.0058 I	0.0028 I	0.014 U	0.011 U	0.0040 U	0.015 U		
11/20/15	--	0.0344 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
05/18/16	--	0.0551 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
11/15/16	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00283 I	0.0157 U	0.00850 U	0.00831 IV	0.0117 U	0.0116 U	0.00410 U	0.00236 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
05/11/17	--	0.0577 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0157 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
11/14/17	--	0.0528 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
MW-6	03/02/00	--	1.0 U	1.0 U	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/30/00	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	
	01/23/01	--	6.4	8.5	9.0	0.24	14	0.10 U	0.37	0.22	0.10 U	0.10 U	0.19	0.16	0.10 U	0.26	0.10 U	0.10 U	0.10 U	0.13	
	01/09/02	--	25	5.4	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	07/19/02	--	7.7	2.2	4.3	3.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	10/21/02	--	5.4	1.6	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/10/03	--	0.29	0.10 U	0.61	0.10 U	0.10 U	0.10 U	0.10 U	2.7	0.10 U	0.10 U	1.7	1.9	1.1	1.3	0.48	1.1	0.10 U	0.57	
	08/26/03	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	0.60	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	3.20	0.38	0.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	22	0.61	1.60	0.26	15	0.10 U	0.10 U	0.10 U	0.12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/25/04	--	1.1	0.18	0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	27	1.2	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	39	3.3	19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/05	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.65	0.10 U	0.10 U	0.50	0.42	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	09/27/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/27/06	--	0.056 U	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	0.011 U	0.012 U	0.022 U	0.012 U	0.019 U	0.012 U	0.0095 U	0.0081 U	0.010 U	0.017 U	0.0099 U	0.016 U	0.023 U	0.0078 U	0.0091 U	0.011 U	0.0091 U	0.014 U	
09/18/06	--	0.012 U	0.012 U	0.023 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/15/07	--	0.065 U	0.031 U	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U		
09/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/07	--	0.077 U	0.035 U	0.11 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene	
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
MW-6 Cont.	03/14/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	09/12/08	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/16/08	--	.0347 I	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0144 I	0.011 U	0.014 U	0.0149 I	0.013 U	0.0247 I	0.015 U	0.012 U	0.0247 I	0.0056 U	0.011 U	
	08/14/09	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0225 I	0.011 U	0.014 U	0.0113 I	0.013 U	0.0163 I	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
	11/03/09	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/27/10	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.006 U	0.019 I	0.010 I	0.011 U	0.014 U	0.009 I	0.015 I	0.011 U	0.023 I	0.026 I	0.027 I	0.010 I	0.016 I	
	11/16/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/16/11	--	0.0344 U	0.0261 U	0.0302 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00900 I	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	08/16/11	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/29/12	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/28/12	--	0.76 U	0.38 U	0.38 U	0.76 U	0.76 U	0.76 U	0.038 U	0.38 U	0.76 U	0.76 U	0.76 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.038 U	0.038 U
	09/26/12	--	0.39 U	0.39 U	0.39 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/02/13	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	03/26/13	--	0.40 U	0.40 U	0.40 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	07/01/13	--	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.32 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
	09/27/13	--	0.37 U	0.37 U	0.37 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/01/14	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	
11/21/14	--	0.32 U	0.32 U	0.32 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/21/15	--	0.020 U	0.0082 U	0.0090 U	0.010 U	0.012 U	0.014 U	0.0044 I	0.016 U	0.0085 U	0.0084 I	0.012 U	0.012 U	0.0067 I	0.0052 I	0.014 U	0.011 U	0.0040 U	0.015 U		
11/20/15	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00238 I	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00275 I	0.0136 U	0.0108 U	0.00396 U	0.00820 U		
05/19/16	--	0.0334 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-7	02/02/99	--	6.62	5.000 U	5.000 U	3.000 U	3.000 U	0.300 U	0.200 U	0.300 U	5.000 U	5.000 U	0.300 U	0.200 U	0.200 U	0.200 U	0.500 U	5.000 U	--	0.200 U
	01/23/01	--	370	400	100	0.10 U	140	0.10 U	0.15	2.00	0.10 U	0.10 U	0.10 U	0.15	0.10 U	0.95	0.10 U	0.30	0.89	0.10 U
	07/19/02	--	510	200	290	130	83	0.10 U	0.10 U	0.10 U	0.10 U	1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	10/21/02	--	280	35	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/03	--	300	150	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	510	0.10 U	59	0.10 U	92	0.10 U	0.10 U	1.2	0.10 U	1.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	08/26/03	--	950	13	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/03	--	530	140	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/04	--	330	100	55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/24/04	--	640	210	120	0.10 U	210	0.10 U	0.10 U	0.62	3.2	1.6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-7R	08/25/04	--	310	130	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/03/04	--	160	100	85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/17/05	--	380	160	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	09/27/05	--	120	68	78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/29/05	--	33	21	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/27/06	--	79	78	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/27/06	--	12	18	0.022 U	0.012 U	0.019 U	0.012 U	0.0095 U	0.0081 U	0.010 U	0.017 U	0.0099 U	0.016 U	0.023 U	0.0078 U	0.0091 U	0.011 U	0.0091 U	0.014 U
	09/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/06	--	0.012 U	3.5	0.023 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/15/07	--	13	7.8	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/15/07	--	5.62	5.40	0.890	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.0874 I	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U	
09/14/07	--	10.3	2.30	1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/14/07	--	0.076 U	0.034 U	0.11 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
03/14/08	--	1.01	0.958 I	0.287 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/12/08	--	1.98	0.761 I	0.389 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/12/08	--	2.59	1.09 I	0.591 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/16/08	--	8.61	3.87	4.31	0.0883 I	0.0437 I	0.0392 I	0.0200 I	0.0078 U	0.0715 I	0.0645 I	0.0188 I	0.013 U	0.0208 I	0.015 U	0.012 U	0.0234 I	0.0116 I	0.011 U	
08/14/09	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U	
11/03/09	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
02/02/10	--	0.265 I	0.291 I	0.183 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/01/10	--	0.517 I	0.672 I	0.472 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/27/10	--	0.034 U	0.047 I	0.030 U	0.027 U	0.026 U	0.006 U	0.014 U	0.008 U	0.011 U	0.014 U	0.008 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.006 U	0.011 U	
11/16/10	--	0.101 I	0.428 I	0.041 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample Location	Date	TRPHs (µg/L)	Naphthalene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo (g,h,i) perylene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthracene (µg/L)	Benzo (b) fluoranthene (µg/L)	Benzo (k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz (a,h) anthracene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)	
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a	
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5	
MW-7R Cont.	02/16/11	--	0.100 I	0.153 I	0.0810 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/18/11	--	0.0670 I	0.137 I	0.0900 I	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	08/16/11	--	0.38 U	0.41 I	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/29/12	--	2.7	0.99	0.39 I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/28/12	--	2.9	0.52 I	0.38 U	0.77 U	0.77 U	0.77 U	0.038 U	0.38 U	0.77 U	0.77 U	0.38 U	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.038 U	0.038 U	0.038 U
	09/26/12	--	0.38 U	0.38 U	0.38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/02/13	--	0.38 U	0.91 I	0.73 I	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	03/26/13	--	0.40 U	0.40 U	0.40 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/13	--	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.32 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
	09/27/13	--	0.37 U	0.37 U	0.37 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/14	--	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.24 U	0.038 U	0.24 U	0.38 U	0.24 U	0.24 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
	11/21/14	--	0.32 U	0.32 U	0.32 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/22/15	--	0.021 I	0.012 I	0.012 I	0.010 U	0.012 U	0.014 U	0.0035 I	0.016 U	0.011 I	0.011 I	0.012 U	0.012 U	0.0070 I	0.0021 U	0.014 U	0.014 U	0.011 U	0.0040 U	0.015 U
	11/20/15	--	0.0332 I	0.00968 I	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00329 I	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00241 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	05/19/16	--	0.0461 I	0.00821 U	0.0126 I	0.0100 U	0.0120 U	0.0140 U	0.00282 I	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	11/15/16	--	0.0256 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00435 I	0.0157 U	0.00850 U	0.00944 IV	0.0189 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
05/11/17	--	0.0423 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0191 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
11/14/17	--	0.248 IV	0.375	0.126 I	0.0444 I	0.0120 U	0.0140 U	0.00853 IV	0.0219 I	0.0551	0.0683	0.0231 I	0.0116 U	0.00410 U	0.00590 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
01/30/18	Well abandoned																				
MW-7RR	08/17/18	--	286 D ²⁰	99.4 D ²⁰	141 D ²⁰	0.741	0.0120 U	0.176	0.00589 I	0.0472 I	0.828	0.417	0.0519	0.0116 U	0.0143 I	0.00447 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	11/13/2018	3590	82.0	53.0	65.2	0.420	0.0120 U	0.125	0.0136 I	0.0352 I	0.468	0.278	0.0587	0.0116 U	0.0168 I	0.00541 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
	04/24/19	--	55.9	46.3	54.3	0.433	0.0120 U	0.122	0.0258 I	0.0355 I	0.536	0.278	0.0298 I	0.0116 U	0.0166 I	0.00290 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
02/24/20	--	4.35	6.40	2.73	0.165	0.0665	0.0346 I	0.00919 I	0.0157 U	0.162	0.0828	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U		
MW-8	01/23/01	--	0.26	0.10 U	0.10 U	2.2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.13	0.10 U	0.10 U	0.10 U	0.10 U	
	04/10/03	--	2.7	0.67	0.17	0.10 U	0.30	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	05/24/04	--	0.38	0.89	0.43	2.5	0.10 U	0.10 U	0.90	2.1	0.10 U	0.10 U	1.4	1.1	0.60	1.5	0.53	0.69	0.10 U	0.75	
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.0521 I	0.037 U	0.033 U	0.039 U	0.0487 I	0.029 U	0.045 U	0.0618 I	0.050 U	0.034 U	0.039 U	
	12/16/08	--	0.034 U	0.026 U	0.0432 I	0.027 U	0.026 U	0.00799 I	0.0184 I	0.0169 I	0.011 U	0.014 U	0.0183 I	0.013 U	0.0347 I	0.0345 I	0.0312 I	0.0346 I	0.0056 U	0.0174 I	
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
	05/22/15	--	0.020 U	0.010 I	0.010 I	0.010 U	0.012 U	0.014 U	0.0023 U	0.016 U	0.0085 U	0.0095 I	0.012 U	0.012 U	0.0071 I	0.0021 U	0.014 U	0.011 U	0.0040 U	0.015 U	
	05/18/16	--	0.134 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0174 I	0.00850 U	0.0115 I	0.0133 I	0.0116 U	0.00968 I	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
01/30/18	Well abandoned																				

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-9	05/30/00	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
	01/23/01	--	0.45	4.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	04/10/03	--	0.58	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U
11/13/2018	100 U	0.0394 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
MW-10D	01/23/01	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.0	1.2	0.10 U	0.23	0.59	0.87	0.46	1.6	0.73	0.85	1.4	0.69
	05/08/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/03	--	0.84	0.44	0.79	0.10 U	0.10 U	0.10 U	0.10 U	2.1	0.10 U	0.10 U	0.10 U	1.5	0.49	1.1	0.36	0.52	0.10 U	0.61
	05/24/04	--	0.49	1.5	0.95	4.9	0.10 U	0.10 U	2.7	4.9	0.10 U	0.56	3.9	2.7	1.2	3.4	1.6	2.0	0.65	1.9
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.0880 I	0.037 U	0.033 U	0.0894 I	0.031 U	0.029 U	0.0584 I	0.0717 I	0.050 U	0.034 U	0.039 U
	12/17/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.00847 I	0.0639 I	0.110 I	0.0120 I	0.0216 I	0.105 I	0.0411 I	0.0418 I	0.134 I	0.121	0.0699 I	0.0195 I	0.0451 I
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0570 I	0.0720 I	0.0112 U	0.0140 I	0.0800 I	0.0380 I	0.0113 U	0.0620 I	0.0520 I	0.0165 U	0.00560 U	0.0400 I
	05/22/15	--	0.020 U	0.0095 I	0.014 I	0.012 I	0.012 U	0.017 I	0.0098 I	0.092	0.033 I	0.016 I	0.083	0.012 U	0.015 I	0.014 I	0.014 U	0.011 U	0.0040 U	0.015 U
05/19/16	--	0.0362 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.0143 I	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.0118 I	0.0181 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
MW-11	01/24/01	--	0.10 U	0.10 U	4.9	0.10 U	0.10 U	0.24	0.10 U	1.4	0.10 U	1.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	04/10/03	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	05/24/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-12	01/24/01	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.28	0.10 U	1.8	0.10 U	1.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.7	0.10 U	0.10 U
	04/10/03	--	0.22	0.11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	05/24/04	--	0.17	0.31	0.32	0.19	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/17/08	--	0.036 U	0.027 U	0.032 U	0.028 U	0.028 U	0.0059 U	0.015 U	0.0082 U	0.012 U	0.014 U	0.0088 U	0.0156 I	0.0156 I	0.016 U	0.012 U	0.017 U	0.0059 U	0.011 U
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-13	01/24/01	--	3.6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.82	0.10 U	0.74	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	04/10/03	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.0430	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/17/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.0170 U	0.0147 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U
11/13/2018	276 I	0.0333 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
MW-14	05/08/01	--	2.1	0.54	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	04/10/03	--	0.68	0.45	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.0498	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.00886 U	0.011 U	0.014 U	0.00985 U	0.013 U	0.0158 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.0110 U	0.0112 U	0.0136 U	0.0110 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
MW-15	05/08/01	--	0.28	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	04/10/03	--	0.26	0.15	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.0154 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-16	05/08/01	--	0.35	0.24	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/10/03	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/02/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U	
MW-17	05/08/01	--	0.46	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/10/03	--	0.37	0.18	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/14/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.011 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/01/10	--	0.034 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.0170 U	0.0112 U	0.0136 U	0.0170 U	0.0133 U	0.0113 U	0.0154 U	0.0160 U	0.0165 U	0.00560 U	0.0107 U
	05/21/15	--	0.020 U	0.0082 U	0.0090 U	0.010 U	0.012 U	0.014 U	0.010 U	0.016 U	0.0085 U	0.0091 U	0.013 U	0.012 U	0.011 U	0.014 U	0.014 U	0.011 U	0.0040 U	0.015 U
11/13/18	100 U	0.0308 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00252 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-18	08/17/18	--	738 D ²⁰	114 D ²⁰	160 D ²⁰	0.385	0.0120 U	0.0530	0.00570 I	0.0291 I	0.424	0.179	0.0228 I	0.0116 U	0.0131 I	0.00831 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	11/13/2018	23900 D ¹⁰	913 D ²⁰	184 D ²⁰	249 D ²⁰	0.719	0.0120 U	0.0981	0.00765 I	0.0194 I	0.738	0.315	0.0245 I	0.0116 U	0.00410 U	0.00558 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	04/24/19	27600 D ⁵	1020 D ²⁰	237 D ²⁰	327 D ²⁰	1.03	0.0120 U	0.111	0.00732 I	0.0157 U	1.00	0.383	0.0320 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	7080	664 D ²⁰	176 D ²⁰	248 D ²⁰	0.780	0.296	0.0959	0.00825 I	0.0223 I	0.800	0.364	0.0268 I	0.0116 U	0.00410 U	0.00578 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-19	08/17/18	31700	647 D ²⁰	70.7	80.8 D ²⁰	0.114	0.0120 U	0.0400 I	0.00227 U	0.0157 U	0.117	0.0420 I	0.0117 U	0.0116 U	0.00410 U	0.00564 IV	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	11/13/2018	32700 D ²⁰	665 D ²⁰	65.1	77.8 D ²⁰	0.121	0.0120 U	0.0233 I	0.00227 U	0.0157 U	0.119	0.0377 I	0.0117 U	0.0116 U	0.00410 U	0.00678 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	04/23/19	Not Sampled - Free Product Encountered (1.3 feet)																		
	02/25/20	11700 D ³	314 D ²⁰	43.7	67.3	0.189	0.0851	0.0355 I	0.00227 U	0.0157 U	0.205	0.0999	0.0137 I	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-20	04/23/19	469	0.0399 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	125 I	0.0567 I	0.00968 I	0.0144 I	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-21	04/23/19	100 U	0.0311 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0235 I	0.00850 U	0.00820 U	0.0127 I	0.0116 U	0.00410 U	0.00556 I	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-22	04/24/19	145 I	0.0342 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0190 I	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-23	04/23/19	1910	15.7	8.76	4.08	0.276	0.0120 U	0.0959	0.00227 U	0.0664	0.257	0.156	0.0731	0.0116 U	0.0128 I	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	--	0.0303 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-24	04/23/19	100 U	0.0364 IV	0.00973 I	0.00937 I	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
MW-25	04/23/19	100 U	0.0281 IV	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0175 I	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	100 U	0.0255 I	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a		
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5		
RW-1	03/02/00	--	210	1.0 U	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	01/23/01	--	650	750	350	0.50 U	95	0.50 U	1.2	10	3.4	9.5	0.50 U	0.65	0.50 U	2.8	0.50 U	0.50 U	0.50 U	0.50 U		
	08/26/03	--	920	190	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/18/03	--	3.8	0.74	0.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/12/04	--	14	3.0	2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/24/04	--	6.6	6.4	7.5	0.10 U	3.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
	08/25/04	--	6.2	5.7	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/04	--	23	10.0	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/05	--	5.4	1.2	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/05	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	09/27/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/05	--	0.10 U	0.10 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/27/06	--	10	0.040 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/06	--	0.011 U	0.012 U	0.022 U	0.012 U	0.018 U	0.012 U	0.0094 U	0.0080 U	0.010 U	0.017 U	0.0098 U	0.016 U	0.023 U	0.0077 U	0.0090 U	0.011 U	0.0090 U	0.011 U	0.014 U	
	09/18/06	--	0.012 U	0.012 U	0.023 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/06	--	0.012 U	0.012 U	0.022 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/07	--	0.065 U	0.031 U	0.050 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U		
	09/14/07	--	0.070 U	0.032 U	0.098 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/07	--	0.071 U	0.032 U	0.10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/16/08	--	17.1	4.43	8.22	0.027 U	0.026 U	0.0056 U	0.014 U	0.0078 U	0.0546 U	0.014 U	0.0084 U	0.013 U	0.0170 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U			
06/01/10	--	0.246 U	0.026 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
DW-2	03/14/03	--	6.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	05/24/04	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	06/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/07	--	0.070 U	0.032 U	0.098 U	0.030 U	0.035 U	0.032 U	0.048 U	0.041 U	0.037 U	0.033 U	0.039 U	0.031 U	0.029 U	0.045 U	0.031 U	0.050 U	0.034 U	0.039 U
	12/16/08	--	0.034 U	0.026 U	0.030 U	0.027 U	0.026 U	0.0056 U	0.014 U	0.00865 U	0.011 U	0.014 U	0.0084 U	0.013 U	0.0184 U	0.015 U	0.012 U	0.017 U	0.0056 U	0.011 U
	06/01/10	--	0.034 U	0.039 U	0.030 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	--	0.0344 U	0.0261 U	0.0302 U	0.0270 U	0.0264 U	0.00560 U	0.0142 U	0.00780 U	0.0112 U	0.0136 U	0.00840 U	0.0133 U	0.0113 U	0.0154 U	0.0116 U	0.0165 U	0.00560 U	0.0107 U
	05/22/15	--	0.020 U	0.0082 U	0.010 U	0.010 U	0.012 U	0.014 U	0.0023 U	0.016 U	0.0085 U	0.0082 U	0.012 U	0.012 U	0.0058 U	0.0021 U	0.014 U	0.011 U	0.0040 U	0.015 U
05/19/16	--	0.0341 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00235 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U	
DW-3	04/24/19	2790	383 D²⁰	81.2 D²⁰	118 D²⁰	0.461	0.0120 U	0.0400 U	0.00227 U	0.0190 U	0.437	0.156	0.0123 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	08/28/19	2040	248 D²⁰	66.0	86.5	0.282	0.0120 U	0.0296 U	0.00227 U	0.0157 U	0.256	0.107	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	--	1.21	17.6	0.0120 U	0.160	0.0429 U	0.0140 U	0.00227 U	0.0169 U	0.0989	0.0364 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
DW-4	04/23/19	100 U	0.233 IV	0.0483 U	0.0639 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00763 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	08/28/19	100 U	0.0719 IV	0.0207 IV	0.0326 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/25/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
DW-5	08/28/19	277 U	0.552	0.259	0.256	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.0326 U	0.0305 U	0.0146 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.114 U	0.0498 U	0.0591 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.0167 U	0.0137 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
DW-6	08/28/19	139 U	0.0416 IV	0.00959 IV	0.0116 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.0123 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
DW-7	08/28/19	100 U	0.198 UD ¹⁰	0.0821 UD ¹⁰	0.0902 UD ¹⁰	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.0134 U	0.0309 U	0.0117 U	0.0116 U	0.0752	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
	02/24/20	--	0.0198 U	0.00821 U	0.00902 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U
DDW-1	08/28/19	100 U	0.0232 IV	0.00848 IV	0.00949 U	0.0100 U	0.0120 U	0.0140 U	0.00227 U	0.0157 U	0.00850 U	0.00820 U	0.0117 U	0.0116 U	0.00410 U	0.00212 U	0.0136 U	0.0108 U	0.00396 U	0.0148 U

Analytical Results reported in micrograms per liter (µg/L)

PAH = Polynuclear Aromatic Hydrocarbons

TRPHs = Total Recoverable Petroleum Hydrocarbons

-- = Sample not analyzed for constituent or not reported

Concentrations in bold are above FDEP GCTLs

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Qualifiers: U = Result below MDL

I = Result between MDL and PQL

V= Indicates the analyte was detected in both sample and method blank

D^x = Dilution factor of 'x'

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	CW-1 / CW-1R					CW-2 / CW-2R					CW-3					CW-4				
DIAMETER	4-inch / 2-inch					4-inch / 2-inch					4-inch					4-inch				
WELL DEPTH	17.65 feet / 19 feet					20 feet / 19 feet					19.50 feet					20.00 feet				
SCREEN INTERVAL	2.65 - 17.65 feet / 4 - 19 feet					5.0 - 20.0 feet / 4 - 19 feet					4.5 - 19.5 feet					5.0 - 20.0 feet				
TOC ELEVATION (in ft.)	20.00 / 20.27					19.91 / 20.35					20.50					20.34				
STATUS	Active					Active					Abandoned 1/30/2018					Abandoned 1/30/2018				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
1/15/2003	8.73	11.27	0.00	1.89	--	8.33	11.58	0.00	7.40	--	8.54	11.96	0.00	2.34	--	8.36	11.98	0.00	2.32	--
4/10/2003	7.79	12.21	0.00	0.13	--	7.61	12.30	0.00	0.82	--	7.65	12.85	0.00	0.20	--	7.69	12.65	0.00	2.34	--
8/25/2003	8.80	11.20	0.00	1.32	--	8.63	11.28	0.00	0.98	--	8.90	11.60	0.00	1.10	--	8.83	11.51	0.00	1.27	--
9/22/2003	9.39	10.61	0.00	2.39	--	9.00	10.91	0.00	3.10	--	9.29	11.21	0.00	2.13	--	9.18	11.16	0.00	1.51	--
11/19/2003	10.10	9.90	0.00	2.41	--	9.81	10.10	0.00	8.09	--	9.88	10.62	0.00	1.80	--	9.84	10.50	0.00	3.85	--
2/12/2004	9.60	10.40	0.00	2.90	--	9.23	10.68	0.00	2.47	--	9.31	11.19	0.00	2.35	--	9.25	11.09	0.00	2.31	--
5/25/2004	6.73	13.27	0.00	0.49	--	6.41	13.50	0.00	2.02	--	6.51	13.99	0.00	0.81	--	6.55	13.79	0.00	0.97	--
8/25/2004	7.21	12.79	0.00	2.03	--	--	--	--	--	--	7.09	13.41	0.00	1.62	--	7.19	13.15	0.00	1.25	--
12/3/2004	8.33	11.67	0.00	0.63	--	--	--	--	--	--	8.23	12.27	0.00	0.26	--	8.12	12.22	0.00	1.05	--
3/17/2005	6.68	13.32	0.00	0.61	--	6.52	13.39	0.00	0.12	--	5.97	14.53	0.00	0.16	--	5.72	14.62	0.00	0.22	--
6/16/2005	9.23	10.77	0.00	1.34	--	8.89	11.02	0.00	0.26	--	8.95	11.55	0.00	0.25	--	9.32	11.02	0.00	0.13	--
9/27/2005	8.59	11.41	0.00	0.24	--	--	--	--	--	--	9.15	11.35	0.00	0.21	--	9.18	11.16	0.00	1.81	--
12/29/2005	10.90	9.10	0.00	0.48	--	--	--	--	--	--	10.69	9.81	0.00	0.17	--	10.62	9.72	0.00	0.16	--
3/27/2006	8.80	11.20	0.00	0.48	--	--	--	--	--	--	8.52	11.98	0.00	0.12	--	8.58	11.76	0.00	0.31	--
4/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2006	8.31	11.69	0.00	2.75	--	8.01	11.90	0.00	2.65	--	8.08	12.42	0.00	2.79	--	7.98	12.36	0.00	3.43	--
5/24/2006	8.29	11.71	0.00	6.38	--	7.99	11.92	--	3.36	--	8.07	12.43	0.00	5.68	--	7.96	12.38	0.00	2.74	--
5/30/2006	8.40	11.60	0.00	2.64	--	8.29	11.62	--	2.41	--	8.29	12.21	0.00	3.92	--	8.24	12.10	0.00	3.89	--
6/28/2006	8.08	11.92	0.00	4.73	--	8.82	11.09	--	4.69	--	8.30	12.20	0.00	7.69	--	8.09	12.25	0.00	4.88	--
7/27/2006	9.71	10.29	0.00	4.33	--	9.41	10.50	--	5.75	--	9.48	11.02	0.00	6.84	--	9.38	10.96	0.00	1.74	--
8/20/2006	9.12	10.88	0.00	3.52	--	8.87	11.04	--	6.08	--	8.94	11.56	0.00	5.25	--	8.85	11.49	0.00	2.92	--
9/18/2006	10.41	9.59	0.00	5.94	--	10.11	9.80	--	6.44	--	10.34	10.16	0.00	6.27	--	10.14	10.20	0.00	3.50	--
10/18/2006	9.10	10.90	0.00	3.24	--	8.56	11.35	--	1.46	--	9.55	10.95	0.00	2.64	--	9.50	10.84	0.00	7.63	--
11/14/2006	8.87	11.13	0.00	5.89	--	8.60	11.31	--	6.76	--	8.78	11.72	0.00	6.54	--	8.57	11.77	0.00	2.52	--
12/18/2006	9.74	10.26	0.00	6.56	--	9.53	10.38	--	6.89	--	9.98	10.52	0.00	7.63	--	9.53	10.81	0.00	2.11	--
1/16/2007	8.84	11.16	0.00	5.82	--	8.52	11.39	--	6.21	--	8.65	11.85	0.00	6.34	--	8.65	11.69	0.00	1.64	--
2/16/2007	8.63	11.37	0.00	7.28	--	8.39	11.52	--	5.12	--	8.59	11.91	0.00	5.42	--	8.61	11.73	0.00	6.53	--
3/15/2007	8.28	11.72	0.00	1.44	--	8.22	11.69	--	8.89	--	8.25	12.25	0.00	7.72	--	7.94	12.40	0.00	0.40	--
4/16/2007	8.16	11.84	0.00	8.64	--	8.13	11.78	0.00	8.54	--	8.09	12.41	0.00	7.84	--	7.72	12.62	0.00	4.21	--
5/14/2007	8.08	11.92	0.00	8.24	--	8.05	11.86	0.00	8.11	--	7.40	13.10	0.00	7.91	--	7.42	12.92	0.00	4.61	--
6/14/2007	10.29	9.71	0.00	1.42	--	10.01	9.90	0.00	1.43	--	9.94	10.56	0.00	2.98	--	9.84	10.50	0.00	0.40	--
7/17/2007	10.43	9.57	0.00	8.21	--	10.55	9.36	0.00	7.46	--	10.24	10.26	0.00	8.26	--	10.20	10.14	0.00	1.07	--
8/13/2007	11.54	8.46	0.00	5.66	--	11.33	8.58	0.00	6.36	--	11.50	9.00	0.00	6.56	--	11.16	9.18	0.00	5.25	--
9/14/2007	10.38	9.62	0.00	4.82	--	10.22	9.69	0.00	5.98	--	10.42	10.08	0.00	8.59	--	10.04	10.30	0.00	5.38	--
10/12/2007	11.59	8.41	0.00	7.47	--	11.52	8.39	0.00	7.59	--	12.48	8.02	0.00	8.18	--	11.34	9.00	0.00	5.80	--
11/14/2007	11.48	8.52	0.00	6.95	--	11.61	8.30	0.00	7.02	--	12.51	7.99	0.00	8.16	--	11.32	9.02	0.00	4.27	--
11/29/2007	11.05	8.95	0.00	7.08	--	10.85	9.06	0.00	7.25	--	11.04	9.46	0.00	7.63	--	10.71	9.63	0.00	6.60	--
12/14/2007	10.20	9.80	0.00	0.12	--	--	--	--	--	--	9.94	10.56	0.00	5.33	--	9.88	10.46	0.00	0.32	--
3/14/2008	9.58	10.42	0.00	0.11	--	9.29	10.62	0.00	--	--	9.32	11.18	0.00	0.82	--	9.24	11.10	0.00	0.24	--
6/12/2008	8.85	11.15	0.00	0.18	--	8.55	11.36	0.00	--	--	8.61	11.89	0.00	0.12	--	8.54	11.80	0.00	0.15	--
9/12/2008	12.14	7.86	0.00	0.20	--	11.87	8.04	0.00	--	--	11.99	8.51	0.00	0.11	--	11.83	8.51	0.00	0.18	--
12/17/2008	9.57	10.43	0.00	--	--	9.30	10.61	0.00	--	--	9.35	11.15	0.00	--	--	9.26	11.08	0.00	--	--
6/22/2009	10.41	9.59	0.00	6.82	--	10.26	9.65	0.00	1.54	--	10.85	9.65	0.00	7.36	--	10.20	10.14	0.00	1.25	--
6/29/2009	11.18	8.82	0.00	6.61	--	10.97	8.94	0.00	1.84	--	11.37	9.13	0.00	7.47	--	10.84	9.50	0.00	1.11	--
7/23/2009	10.69	9.31	0.00	6.84	--	10.41	9.50	0.00	2.42	--	10.85	9.65	0.00	7.22	--	10.39	9.95	0.00	1.47	--
8/14/2009	11.56	8.44	0.00	5.96	--	11.32	8.59	0.00	2.67	--	10.35	10.15	0.00	7.56	--	10.09	10.25	0.00	1.22	--
9/8/2009	10.51	9.49	0.00	7.52	--	10.24	9.67	0.00	7.21	--	10.65	9.85	0.00	8.27	--	10.24	10.10	0.00	6.90	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	CW-1 / CW-1R (cont)					CW-2 / CW-2R (cont)					CW-3 (cont.)				CW-4 (cont.)					
DIAMETER	4-inch / 2-inch					4-inch / 2-inch					4-inch				4-inch					
WELL DEPTH	17.65 feet / 19 feet					20 feet / 19 feet					19.50 feet				20.00 feet					
SCREEN INTERVAL	2.65 - 17.65 feet / 4 - 19 feet					5.0 - 20.0 feet / 4 - 19 feet					4.5 - 19.5 feet				5.0 - 20.0 feet					
TOC ELEVATION (in ft.)	20.00 / 20.27					19.91 / 20.35					20.50				20.34					
STATUS	Active					Active					Abandoned 1/30/2018				Abandoned 1/30/2018					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
10/7/2009	11.15	8.85	0.00	7.44	--	10.89	9.02	0.00	7.05	--	11.15	9.35	0.00	6.41	--	10.86	9.48	0.00	5.26	--
11/3/2009	9.70	10.30	0.00	4.93	--	9.61	10.30	0.00	7.56	--	10.98	9.52	0.00	7.70	--	9.62	10.72	0.00	2.53	--
12/3/2009	10.13	9.87	0.00	7.64	--	9.83	10.08	0.00	7.60	--	10.45	10.05	0.00	8.29	--	9.84	10.50	0.00	7.52	--
1/7/2010	11.30	8.70	0.00	7.32	--	11.03	8.88	0.00	7.41	--	11.40	9.10	0.00	7.86	--	11.00	9.34	0.00	5.95	--
2/2/2010	10.50	9.50	0.00	7.69	--	10.26	9.65	0.00	7.62	--	10.95	9.55	0.00	7.06	--	10.36	9.98	0.00	5.25	--
4/5/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/12/2010	--	--	--	--	--	9.42	10.49	0.00	7.81	--	10.90	9.60	0.00	7.54	--	10.30	10.04	0.00	--	--
5/4/2010	11.75	8.25	0.00	7.54	--	11.45	8.46	0.00	7.06	--	11.95	8.55	0.00	8.15	--	11.38	8.96	0.00	5.30	--
5/20/2010	10.79	9.21	0.00	6.83	--	10.53	9.38	0.00	7.21	--	10.92	9.58	0.00	6.74	--	10.48	9.86	0.00	5.89	--
6/1/2010	10.35	9.65	0.00	0.51	--	10.06	9.85	0.00	3.31	--	10.10	10.40	0.00	8.39	--	10.03	10.31	0.00	1.36	--
8/27/2010	10.27	9.73	0.00	0.48	--	9.94	9.97	0.00	--	--	10.03	10.47	0.00	1.37	--	9.95	10.39	0.00	0.40	--
11/16/2010	9.57	10.43	0.00	0.62	--	9.28	10.63	0.00	--	--	9.33	11.17	0.00	1.21	--	9.27	11.07	0.00	0.42	--
2/16/2011	8.05	11.95	0.00	0.44	--	7.82	12.09	0.00	--	--	7.83	12.67	0.00	1.43	--	7.74	12.60	0.00	0.49	--
5/17/2011	8.00	12.00	0.00	0.64	--	7.70	12.21	0.00	0.51	--	7.78	12.72	0.00	1.17	--	7.68	12.66	0.00	0.37	--
8/16/2011	8.22	11.78	0.00	0.46	--	7.91	12.00	0.00	--	--	7.98	12.52	0.00	1.27	--	7.89	12.45	0.00	0.92	--
9/8/2011	10.25	9.75	0.00	0.37	--	--	--	--	--	--	10.00	10.50	0.00	5.49	--	9.90	10.44	0.00	1.18	--
1/30/2012	9.23	10.77	0.00	7.28	--	8.99	10.92	0.00	7.67	--	9.13	11.37	0.00	7.87	--	8.95	11.39	0.00	3.43	--
3/1/2012	8.86	11.14	0.00	7.14	--	8.58	11.33	0.00	7.59	--	9.01	11.49	0.00	7.43	--	8.58	11.76	0.00	4.12	--
3/29/2012	8.27	11.73	0.00	6.63	--	7.92	11.99	0.00	7.12	--	8.13	12.37	0.00	5.89	--	8.05	12.29	0.00	7.80	--
4/30/2012	--	--	--	--	--	--	--	--	--	--	9.90	10.60	0.00	6.82	--	9.49	10.85	0.00	7.31	--
6/1/2012	--	--	--	--	--	--	--	--	--	--	12.17	8.33	0.00	7.12	--	11.70	8.64	0.00	6.43	--
6/28/2012	12.56	7.44	0.00	4.61	--	12.27	7.64	0.00	--	--	12.15	8.35	0.00	7.64	--	11.98	8.36	0.00	5.31	--
7/30/2012	11.50	8.50	0.00	6.42	--	--	8.66	0.00	6.85	--	11.85	8.65	0.00	5.61	--	11.11	9.23	0.00	6.04	--
8/31/2012	12.38	7.62	0.00	5.73	--	12.12	7.79	0.00	5.61	--	12.80	7.70	0.00	6.22	--	12.05	8.29	0.00	5.85	--
9/26/2012	11.97	8.03	0.00	5.39	--	11.71	8.20	0.00	6.11	--	12.40	8.10	0.00	5.88	--	11.64	8.70	0.00	5.56	--
10/31/2012	11.45	8.55	0.00	6.15	--	--	8.71	0.00	5.83	--	11.68	8.82	0.00	5.24	--	11.12	9.22	0.00	5.37	--
11/29/2012	10.18	9.82	0.00	4.87	--	9.88	10.03	0.00	5.15	--	10.21	10.29	0.00	6.39	--	9.86	10.48	0.00	4.61	--
1/2/2013	9.06	10.94	0.00	3.36	--	8.79	11.12	0.00	6.39	--	9.02	11.48	0.00	6.03	--	8.78	11.56	0.00	4.27	--
1/25/2013	8.54	11.46	0.00	--	--	8.32	11.59	0.00	--	--	8.57	11.93	0.00	--	--	8.29	12.05	0.00	--	--
2/22/2013	8.02	11.98	0.00	--	--	7.99	11.92	0.00	--	--	8.15	12.35	0.00	--	--	7.96	12.38	0.00	--	--
3/22/2013	7.60	12.40	0.00	--	--	7.35	12.56	0.00	--	--	7.53	12.97	0.00	--	--	6.94	13.40	0.00	--	--
3/26/2013	7.54	12.46	0.00	3.61	--	6.60	13.31	0.00	5.33	--	7.19	13.31	0.00	--	--	6.70	13.64	0.00	2.12	--
7/1/2013	11.39	8.61	0.00	0.15	--	11.13	8.78	0.00	--	--	11.16	9.34	0.00	6.20	--	11.05	9.29	0.00	1.16	--
9/27/2013	11.33	8.67	0.00	0.21	--	11.06	8.85	0.00	--	--	11.10	9.40	0.00	2.55	--	11.07	9.27	0.00	0.27	--
4/1/2014	8.13	11.87	0.00	0.15	--	7.89	12.02	0.00	--	--	7.90	12.60	0.00	0.72	--	7.80	12.54	0.00	0.19	--
11/21/2014	9.48	10.52	0.00	0.31	--	--	--	--	--	--	9.21	11.29	0.00	0.25	--	9.16	11.18	0.00	0.42	--
5/21/2015	7.75	12.25	0.00	0.15	-296	7.50	12.41	0.00	0.28	-254	7.54	12.96	0.00	0.19	1.0	7.45	12.89	0.00	0.21	104
11/20/2015	9.94	10.06	0.00	0.19	-238	--	--	--	--	--	9.73	10.77	0.00	0.21	-52	9.66	10.68	0.00	0.27	-224
12/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.54	8.80	0.00	0.22	-212
5/18/2016	9.26	10.74	0.00	0.28	-250	8.98	10.93	0.00	0.28	-302	9.05	11.45	0.00	0.21	-11	8.96	11.38	0.00	0.28	135
11/15/2016	8.48	11.52	0.00	0.24	--	8.21	11.70	0.00	0.24	--	--	--	--	--	--	--	--	--	--	--
12/28/2016	--	--	--	--	--	8.13	11.78	0.00	0.27	--	--	--	--	--	--	--	--	--	--	--
5/11/2017	7.20	12.80	0.00	0.26	-344	6.96	12.95	0.00	0.19	-349	6.98	13.52	0.00	--	--	6.89	13.45	0.00	--	--
11/14/2017	12.42	7.58	0.00	0.16	-291	12.24	7.67	0.00	0.12	-391	--	--	--	--	--	--	--	--	--	--
1/30/2018	Abandoned 1/30/2018					Abandoned 1/30/2018					Abandoned 1/30/2018				Abandoned 1/30/2018					
8/8/2018	Replaced 8/8/2018					Replaced 8/8/2018														
8/17/2018	9.83	10.44	0.00	0.27	--	9.85	10.50	0.00	0.29	--										
11/13/2018	8.67	11.60	0.00	0.35	--	8.67	11.68	0.00	0.38	--										
4/23/2019	8.22	12.05	0.00	--	--	8.24	12.11	0.00	--	--										
4/24/2019	8.18	12.09	0.00	0.54	--	8.20	12.15	0.00	0.51	--										
8/28/2019	--	--	--	--	--	--	--	--	--	--										
2/24/2020	10.25	10.02	0.00	0.48	--	10.27	10.08	0.00	0.33	--										
2/25/2020	--	--	--	--	--	--	--	--	--	--										

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	CW-5 / CW-5R					MW-1					MW-2 / MW-2R					MW-3				
DIAMETER	2-inch					2-inch					2-inch					2-inch				
WELL DEPTH	23.80 feet / 16 feet					20.00 feet					22.1 feet					20.00 feet				
SCREEN INTERVAL	8.8 - 23.8 feet / 6 - 16 feet					10 - 20 feet					7.1 - 22.1 feet / 4 - 19 feet					5.0 - 20.0 feet				
TOC ELEVATION (in ft.)	19.93 / 20.06					20.00					19.99 / 19.99					19.86				
STATUS	Active					Active					Active					Active				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
1/15/2003	8.38	11.55	0.00	2.86	--	8.42	11.58	0.00	0.13	--	8.40	11.59	0.00	2.89	--	8.63	11.23	0.00	6.69	--
4/10/2003	7.74	12.19	0.00	0.42	--	7.84	12.16	0.00	0.17	--	7.77	12.22	0.00	0.17	--	7.84	12.02	0.00	3.12	--
8/25/2003	11.62	8.31	0.00	1.64	--	8.85	11.15	0.00	0.80	--	8.76	11.23	0.00	0.20	--	8.88	10.98	0.00	3.48	--
9/22/2003	8.80	11.13	0.00	0.94	--	--	--	--	--	--	--	--	--	--	--	9.45	10.41	0.00	6.63	--
11/19/2003	9.84	10.09	0.00	5.25	--	--	--	--	--	--	10.07	9.92	0.00	1.94	--	10.07	9.79	0.00	8.22	--
2/12/2004	10.34	9.59	0.00	1.93	--	9.59	10.41	0.00	1.64	--	9.47	10.52	0.00	2.46	--	9.47	10.39	0.00	4.56	--
5/25/2004	--	--	--	--	--	6.75	13.25	0.00	1.98	--	6.58	13.41	0.00	1.11	--	6.74	13.12	0.00	2.74	--
8/25/2004	7.13	12.80	0.00	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/2004	7.61	12.32	0.76	--	--	7.43	12.57	0.00	--	--	8.38	11.61	0.00	--	--	7.45	12.41	0.00	--	--
3/17/2005	6.34	13.59	0.00	1.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/16/2005	8.99	10.94	0.00	1.33	--	9.22	10.78	0.00	0.20	--	8.93	11.06	0.00	0.58	--	9.19	10.67	0.00	0.29	--
9/27/2005	9.73	10.20	0.00	0.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	10.72	9.21	0.00	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/27/2006	8.57	11.36	0.00	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	--	--	--	--	--	--	--	--	--	--	8.41	11.58	0.00	2.82	--	--	--	--	--	--
7/27/2006	--	--	--	--	--	--	--	--	--	--	9.53	10.46	0.00	2.90	--	--	--	--	--	--
8/20/2006	--	--	--	--	--	--	--	--	--	--	8.97	11.02	0.00	2.28	--	--	--	--	--	--
9/18/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/18/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/2006	--	--	--	--	--	--	--	--	--	--	8.71	11.28	0.00	2.28	--	--	--	--	--	--
12/18/2006	--	--	--	--	--	--	--	--	--	--	9.60	10.39	--	0.93	--	--	--	--	--	--
1/16/2007	--	--	--	--	--	--	--	--	--	--	8.85	11.14	--	1.44	--	--	--	--	--	--
2/16/2007	--	--	--	--	--	--	--	--	--	--	8.57	11.42	0.00	1.67	--	--	--	--	--	--
3/15/2007	--	--	--	--	--	--	--	--	--	--	7.94	12.05	--	4.09	--	--	--	--	--	--
4/16/2007	--	--	--	--	--	--	--	--	--	--	7.78	12.21	--	4.62	--	--	--	--	--	--
5/14/2007	--	--	--	--	--	--	--	--	--	--	7.18	12.81	0.00	4.49	--	--	--	--	--	--
6/14/2007	10.10	9.83	0.00	0.32	--	10.18	9.82	0.00	0.38	--	10.12	9.87	--	0.78	--	10.26	9.60	0.00	0.46	--
7/17/2007	--	--	--	--	--	--	--	--	--	--	10.48	9.51	0.00	1.43	--	--	--	--	--	--
8/13/2007	--	--	--	--	--	--	--	--	--	--	10.43	9.56	0.00	2.48	--	--	--	--	--	--
9/14/2007	--	--	--	--	--	--	--	--	--	--	10.39	9.60	0.00	2.96	--	--	--	--	--	--
10/12/2007	--	--	--	--	--	--	--	--	--	--	11.50	8.49	0.00	3.87	--	--	--	--	--	--
11/14/2007	--	--	--	--	--	--	--	--	--	--	11.53	8.46	0.00	2.87	--	--	--	--	--	--
11/29/2007	--	--	--	--	--	--	--	--	--	--	10.87	9.12	0.00	3.25	--	--	--	--	--	--
12/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/14/2008	9.36	10.57	0.00	--	--	9.62	10.38	0.00	--	--	9.40	10.59	0.00	--	--	9.57	10.29	0.00	--	--
6/12/2008	8.64	11.29	0.00	--	--	8.90	11.10	0.00	--	--	8.68	11.31	0.00	--	--	8.87	10.99	0.00	--	--
9/12/2008	11.94	7.99	0.00	--	--	12.19	7.81	0.00	--	--	11.99	8.00	0.00	--	--	12.15	7.71	0.00	--	--
12/17/2008	9.42	10.51	0.00	--	--	9.61	10.39	0.00	--	--	9.45	10.54	0.00	--	--	9.58	10.28	0.00	--	--
6/22/2009	--	--	--	--	--	--	--	--	--	--	10.35	9.64	0.00	1.25	--	--	--	--	--	--
6/29/2009	--	--	--	--	--	--	--	--	--	--	11.01	8.98	0.00	0.98	--	--	--	--	--	--
7/23/2009	--	--	--	--	--	--	--	--	--	--	10.56	9.43	0.00	0.99	--	--	--	--	--	--
8/14/2009	--	--	--	--	--	--	--	--	--	--	10.04	9.95	0.00	0.78	--	--	--	--	--	--
9/8/2009	--	--	--	--	--	--	--	--	--	--	10.36	9.63	0.00	1.14	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	CW-5 / CW-5R					MW-1 (cont.)					MW-2 / MW-2R (cont.)				MW-3 (cont.)					
DIAMETER	2-inch					2-inch					2-inch				2-inch					
WELL DEPTH	23.80 feet / 16 feet					20.00 feet					22.1 feet / 19 feet				20.00 feet					
SCREEN INTERVAL	8.8 - 23.8 feet / 6 - 16 feet					10 - 20 feet					7.1 - 22.1 feet / 4 - 19 feet				5.0 - 20.0 feet					
TOC ELEVATION (in ft.)	19.93 / 20.06					20.00					19.99 / 19.99				19.86					
STATUS	Active					Active					Active				Active					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
10/7/2009	--	--	--	--	--	--	--	--	--	--	11.00	8.99	0.00	1.62	--	--	--	--	--	--
11/3/2009	--	--	--	--	--	--	--	--	--	--	9.75	10.24	0.00	2.24	--	--	--	--	--	--
12/3/2009	--	--	--	--	--	--	--	--	--	--	9.99	10.00	0.00	1.76	--	--	--	--	--	--
1/7/2010	--	--	--	--	--	--	--	--	--	--	11.16	8.83	0.00	1.88	--	--	--	--	--	--
2/2/2010	13.96	5.97	0.04	--	--	10.64	9.36	0.00	3.18	--	10.35	9.64	0.00	4.40	--	10.51	9.35	0.00	2.81	--
4/5/2010	10.41	9.65	0.00	1.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/12/2010	--	--	--	--	--	--	--	--	--	--	10.75	9.24	0.00	2.79	--	--	--	--	--	--
5/4/2010	--	--	--	--	--	--	--	--	--	--	11.65	8.34	0.00	2.46	--	--	--	--	--	--
5/20/2010	--	--	--	--	--	--	--	--	--	--	10.67	9.32	0.00	2.86	--	--	--	--	--	--
6/1/2010	10.37	9.69	0.00	2.70	--	10.42	9.58	0.00	6.98	--	10.19	9.80	0.00	6.28	--	10.38	9.48	0.00	3.90	--
8/27/2010	10.28	9.78	0.00	--	--	10.30	9.70	0.00	--	--	10.11	9.88	0.00	--	--	10.31	9.55	0.00	--	--
11/16/2010	9.56	10.50	0.00	--	--	9.62	10.38	0.00	--	--	9.24	10.75	0.00	--	--	9.58	10.28	0.00	--	--
2/16/2011	8.07	11.99	0.00	--	--	8.12	11.88	0.00	--	--	7.91	12.08	0.00	--	--	8.08	11.78	0.00	--	--
5/17/2011	7.98	12.08	0.00	0.19	--	8.03	11.97	0.00	0.99	--	7.81	12.18	0.00	0.63	--	8.00	11.86	0.00	1.55	--
8/16/2011	8.18	11.88	0.00	--	--	8.22	11.78	0.00	--	--	7.99	12.00	0.00	--	--	8.10	11.76	0.00	--	--
9/8/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/30/2012	--	--	--	--	--	--	--	--	--	--	9.06	10.93	0.00	5.00	--	--	--	--	--	--
3/1/2012	--	--	--	--	--	--	--	--	--	--	8.72	11.27	0.00	3.98	--	--	--	--	--	--
3/29/2012	8.41	11.65	0.00	--	--	8.49	11.51	0.00	--	--	8.27	11.72	0.00	4.67	--	8.46	11.40	0.00	--	--
4/30/2012	--	--	--	--	--	--	--	--	--	--	9.68	10.31	0.00	5.05	--	--	--	--	--	--
6/1/2012	--	--	--	--	--	--	--	--	--	--	11.93	8.06	0.00	4.06	--	--	--	--	--	--
6/28/2012	12.63	7.43	0.00	--	--	12.67	7.33	0.00	--	--	12.44	7.55	0.00	--	--	12.64	7.22	0.00	--	--
7/30/2012	--	--	--	--	--	--	--	--	--	--	11.33	8.66	0.00	4.12	--	--	--	--	--	--
8/31/2012	--	--	--	--	--	--	--	--	--	--	12.24	7.75	0.00	3.97	--	--	--	--	--	--
9/26/2012	11.96	8.10	0.00	--	--	12.00	8.00	0.00	--	--	11.81	8.18	0.00	--	--	11.98	7.88	0.00	--	--
10/31/2012	--	--	--	--	--	--	--	--	--	--	11.31	8.68	0.00	3.44	--	--	--	--	--	--
11/29/2012	--	--	--	--	--	--	--	--	--	--	10.01	9.98	0.00	3.50	--	--	--	--	--	--
1/2/2013	9.10	10.96	0.00	--	--	9.16	10.84	0.00	--	--	8.94	11.05	0.00	3.82	--	9.12	10.74	0.00	--	--
1/25/2013	--	--	--	--	--	--	--	--	--	--	8.42	11.57	0.00	--	--	--	--	--	--	--
2/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/22/2013	7.57	12.49	0.00	--	--	--	--	--	--	--	7.43	12.56	0.00	--	--	--	--	--	--	--
3/26/2013	7.57	12.49	0.00	--	--	7.63	12.37	0.00	--	--	7.40	12.59	0.00	--	--	7.64	12.22	0.00	--	--
7/1/2013	11.39	8.67	0.00	--	--	11.45	8.55	0.00	--	--	11.25	8.74	0.00	--	--	11.40	8.46	0.00	--	--
9/27/2013	11.32	8.74	0.00	--	--	11.38	8.62	0.00	--	--	11.20	8.79	0.00	--	--	11.32	8.54	0.00	--	--
4/1/2014	8.15	11.91	0.00	--	--	8.20	11.80	0.00	--	--	7.99	12.00	0.00	--	--	8.16	11.70	0.00	--	--
11/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/21/2015	7.73	12.33	0.00	--	--	7.78	12.22	0.00	--	--	7.59	12.40	0.00	0.33	-183	Blockage @ 11.2 feet				
5/18/2016	9.27	10.79	0.00	--	--	9.32	10.68	0.00	--	--	9.12	10.87	0.00	0.88	34	9.33	10.53	0.00	--	--
11/15/2016	--	--	--	--	--	--	--	--	--	--	8.31	11.68	0.00	0.41	--	--	--	--	--	--
12/28/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/11/2017	7.19	12.87	0.00	--	--	7.24	12.76	0.00	--	--	7.04	12.95	0.00	0.37	-365	--	12.63	0.00	--	--
11/14/2017	--	--	--	--	--	--	--	--	--	--	12.44	7.55	0.00	0.24	-314	--	--	--	--	--
1/30/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/8/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/17/2018	--	--	--	--	--	--	--	--	--	--	9.62	10.37	0.00	0.25	--	--	--	--	--	--
11/13/2018	8.66	11.40	0.00	1.29	--	--	--	--	--	--	8.45	11.54	0.00	0.89	--	8.67	11.19	0.00	0.76	--
4/23/2019	8.21	11.85	0.00	--	--	8.23	11.77	0.00	--	--	8.25	11.74	0.00	--	--	8.19	11.67	0.00	0.38	--
4/24/2019	--	--	--	--	--	--	--	--	--	--	8.20	11.79	0.00	0.70	--	--	--	--	--	--
8/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2020	--	--	--	--	--	--	--	--	--	--	10.27	9.72	0.00	0.51	--	--	--	--	--	--
2/25/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-4					MW-5					MW-6				MW-7R / MW-7RR					
DIAMETER	2-inch					2-inch					2-inch				2-inch / 2-inch					
WELL DEPTH	20.00 feet					23.2 feet					19.8 feet				19.0 feet / 19.0 feet					
SCREEN INTERVAL	5.0 - 20.0 feet					8.2 - 23.2 feet					4.8 - 19.8 feet				4.0 - 19.0 feet / 4.0 - 19.0 feet					
TOC ELEVATION (in ft.)	20.24					20.14					19.99				20.07 / 20.22					
STATUS	Active					Abandoned 2/20/2018					Abandoned 1/30/2018				Active					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
1/15/2003	8.72	11.52	0.00	1.34	--	8.41	11.73	0.00	1.89	--	8.94	11.05	0.00	2.65	--	8.52	11.55	0.00	3.21	--
4/10/2003	8.02	12.22	0.00	0.23	--	7.69	12.45	0.00	1.34	--	8.63	11.36	0.00	0.82	--	7.81	12.26	0.00	0.18	--
8/25/2003	8.94	11.3	0.00	0.90	--	8.83	11.31	0.00	3.46	--	8.78	11.21	0.00	2.35	--	8.56	11.51	0.00	3.46	--
9/22/2003	--	--	--	--	--	9.25	10.89	0.00	3.25	--	9.18	10.81	0.00	2.48	--	9.32	10.75	0.00	0.44	--
11/19/2003	10.14	10.1	0.00	0.00	--	9.84	10.30	0.00	2.30	--	9.81	10.18	0.00	2.02	--	10.57	9.50	0.00	2.95	--
2/12/2004	9.65	10.59	0.00	1.91	--	9.31	10.83	0.00	2.11	--	9.55	10.44	0.00	2.03	--	9.97	10.10	0.00	2.92	--
5/25/2004	--	--	--	--	--	6.56	13.58	0.00	0.58	--	6.48	13.51	0.00	0.61	--	6.65	13.42	0.00	1.47	--
8/25/2004	--	--	--	--	--	7.12	13.02	0.00	0.70	--	7.04	12.95	0.00	1.24	--	7.32	12.75	0.00	0.95	--
12/3/2004	8.60	11.64	0.00	--	--	8.29	11.85	0.00	0.98	--	8.19	11.80	0.00	2.46	--	8.47	11.60	0.00	0.48	--
3/17/2005	--	--	--	--	--	6.68	13.46	0.00	0.29	--	6.44	13.55	0.00	0.32	--	6.62	13.45	0.00	0.60	--
6/16/2005	9.22	11.02	0.00	0.32	--	9.02	11.12	0.00	0.30	--	8.96	11.03	0.00	0.17	--	Covered by Trailer				--
9/27/2005	--	--	--	--	--	9.23	10.91	0.00	0.38	--	9.10	10.89	0.00	0.15	--	9.37	10.70	0.00	0.71	--
12/29/2005	--	--	--	--	--	10.73	9.41	0.00	0.64	--	10.67	9.32	0.00	0.16	--	10.88	9.19	0.00	0.17	--
3/27/2006	--	--	--	--	--	8.59	11.55	--	0.15	--	8.52	11.47	0.00	0.10	--	8.69	11.38	0.00	0.18	--
4/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2006	--	--	--	--	--	8.13	12.01	0.00	2.20	--	8.04	11.95	0.00	2.94	--	8.29	11.78	0.00	3.05	--
5/24/2006	--	--	--	--	--	8.10	12.04	0.00	3.23	--	7.99	12.00	0.00	2.78	--	8.19	11.88	0.00	2.46	--
5/30/2006	--	--	--	--	--	8.25	11.89	0.00	2.31	--	8.20	11.79	0.00	2.53	--	8.54	11.53	0.00	5.77	--
6/28/2006	--	--	--	--	--	8.23	11.91	0.00	4.53	--	8.08	11.91	0.00	4.53	--	8.32	11.75	0.00	4.12	--
7/27/2006	--	--	--	--	--	9.51	10.63	0.00	4.86	--	9.49	10.50	0.00	1.76	--	9.69	10.38	0.00	2.36	--
8/20/2006	--	--	--	--	--	8.96	11.18	0.00	3.44	--	8.87	11.12	0.00	3.03	--	9.11	10.96	0.00	2.77	--
9/18/2006	--	--	--	--	--	10.25	9.89	0.00	5.56	--	10.17	9.82	0.00	3.84	--	10.38	9.69	0.00	4.82	--
10/18/2006	--	--	--	--	--	8.93	11.21	0.00	1.14	--	8.97	11.02	0.00	1.84	--	9.01	11.06	0.00	1.83	--
11/14/2006	--	--	--	--	--	8.71	11.43	0.00	5.44	--	8.64	11.35	0.00	3.52	--	8.86	11.21	0.00	1.64	--
12/18/2006	--	--	--	--	--	9.61	10.53	0.00	6.52	--	9.49	10.50	0.00	2.52	--	9.98	10.09	0.00	6.08	--
1/16/2007	--	--	--	--	--	8.66	11.48	0.00	4.81	--	8.61	11.38	0.00	2.79	--	8.69	11.38	0.00	1.26	--
2/16/2007	--	--	--	--	--	8.50	11.64	0.00	6.88	--	8.41	11.58	0.00	1.86	--	8.66	11.41	0.00	1.37	--
3/15/2007	--	--	--	--	--	8.15	11.99	0.00	1.12	--	7.96	12.03	0.00	3.35	--	8.35	11.72	0.00	2.19	--
4/16/2007	--	--	--	--	--	8.03	12.11	0.00	8.26	--	7.87	12.12	0.00	4.32	--	8.22	11.85	0.00	6.02	--
5/14/2007	--	--	--	--	--	7.88	12.26	0.00	8.46	--	7.68	12.31	0.00	4.61	--	8.05	12.02	0.00	6.98	--
6/14/2007	10.32	9.92	0.00	0.49	--	9.97	10.17	0.00	0.59	--	9.95	10.04	0.00	0.37	--	10.12	9.95	0.00	0.18	--
7/17/2007	--	--	--	--	--	10.17	9.97	0.00	7.51	--	10.14	9.85	0.00	2.62	--	10.36	9.71	0.00	1.02	--
8/13/2007	--	--	--	--	--	--	--	--	--	--	11.33	8.66	0.00	4.28	--	11.55	8.52	0.00	5.15	--
9/14/2007	--	--	--	--	--	10.11	10.03	0.00	3.62	--	10.19	9.80	0.00	5.00	--	10.46	9.61	0.00	7.36	--
10/12/2007	--	--	--	--	--	11.48	8.66	0.00	6.37	--	11.40	8.59	0.00	4.67	--	11.68	8.39	0.00	6.36	--
11/14/2007	--	--	--	--	--	11.58	8.56	0.00	6.98	--	11.51	8.48	0.00	4.26	--	11.78	8.29	0.00	5.59	--
11/29/2007	--	--	--	--	--	10.87	9.27	0.00	6.91	--	10.79	9.20	0.00	1.98	--	11.28	8.79	0.00	7.22	--
12/14/2007	--	--	--	--	--	10.07	10.07	0.00	0.38	--	9.94	10.05	0.00	0.15	--	9.91	10.16	0.00	0.24	--
3/14/2008	9.62	10.62	0.00	--	--	9.61	10.53	0.00	0.20	--	9.32	10.67	0.00	0.06	--	9.61	10.46	0.00	0.11	--
6/12/2008	8.88	11.36	0.00	--	--	8.67	11.47	0.00	0.26	--	8.60	11.39	0.00	0.26	--	8.69	11.38	0.00	0.18	--
9/12/2008	12.15	8.09	0.00	--	--	11.96	8.18	0.00	0.10	--	11.89	8.10	0.00	0.09	--	12.15	7.92	0.00	0.18	--
12/17/2008	9.61	10.63	0.00	--	--	9.43	10.71	0.00	--	--	9.33	10.66	0.00	--	--	9.57	10.50	0.00	--	--
6/22/2009	--	--	--	--	--	10.36	9.78	0.00	7.20	--	10.17	9.82	0.00	1.59	--	10.39	9.68	0.00	6.67	--
6/29/2009	--	--	--	--	--	11.05	9.09	0.00	7.34	--	10.91	9.08	0.00	1.07	--	11.38	8.69	0.00	7.12	--
7/23/2009	--	--	--	--	--	10.56	9.58	0.00	6.21	--	10.47	9.52	0.00	1.37	--	10.84	9.23	0.00	6.56	--
8/14/2009	--	--	--	--	--	12.72	7.42	0.00	6.44	--	10.58	9.41	0.00	1.33	--	11.85	8.22	0.00	6.88	--
9/8/2009	--	--	--	--	--	10.37	9.77	0.00	8.77	--	10.35	9.64	0.00	4.67	--	10.59	9.48	0.00	7.42	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-4 (cont.)					MW-5 (cont.)					MW-6 (cont.)				MW-7R / MW-7RR (cont.)					
DIAMETER	2-inch					2-inch					2-inch				2-inch / 2-inch					
WELL DEPTH	20.00 feet					23.2 feet					19.8 feet				19.0 feet / 19.0 feet					
SCREEN INTERVAL	5.0 - 20.0 feet					8.2 - 23.2 feet					4.8 - 19.8 feet				4.0 - 19.0 feet / 4.0 - 19.0 feet					
TOC ELEVATION (in ft.)	20.24					20.14					19.99				20.07 / 20.17					
STATUS	Active					Abandoned 2/20/2018					Abandoned 1/30/2018				20.22					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
10/7/2009	--	--	--	--	--	11.04	9.10	0.00	7.06	--	10.92	9.07	0.00	2.00	--	11.37	8.70	0.00	6.63	--
11/3/2009	--	--	--	--	--	9.73	10.41	0.00	7.84	--	9.67	10.32	0.00	1.81	--	9.98	10.09	0.00	7.79	--
12/3/2009	--	--	--	--	--	10.02	10.12	0.00	7.90	--	9.90	10.09	0.00	2.64	--	10.17	9.90	0.00	7.66	--
1/7/2010	--	--	--	--	--	11.18	8.96	0.00	7.23	--	11.04	8.95	0.00	3.11	--	11.38	8.69	0.00	7.44	--
2/2/2010	10.56	9.68	0.00	3.85	--	10.37	9.77	0.00	7.78	--	10.19	9.80	0.00	3.77	--	11.74	8.33	0.00	7.67	--
4/5/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/12/2010	--	--	--	--	--	10.65	9.49	0.00	7.08	--	10.69	9.30	0.00	4.22	--	11.79	8.28	0.00	6.85	--
5/4/2010	--	--	--	--	--	11.67	8.47	0.00	7.14	--	11.50	8.49	0.00	7.34	--	12.79	7.28	0.00	7.57	--
5/20/2010	--	--	--	--	--	11.39	8.75	0.00	7.35	--	10.56	9.43	0.00	5.68	--	11.22	8.85	0.00	7.14	--
6/1/2010	10.29	9.95	0.00	0.92	--	10.20	9.94	0.00	8.18	--	10.10	9.89	0.00	1.14	--	10.30	9.77	0.00	1.55	--
8/27/2010	10.23	10.01	0.00	0.92	--	10.10	10.04	0.00	2.29	--	10.03	9.96	0.00	0.76	--	10.27	9.80	0.00	0.60	--
11/16/2010	9.39	10.85	0.00	--	--	9.53	10.61	0.00	1.17	--	9.29	10.70	0.00	0.79	--	9.55	10.52	0.00	0.71	--
2/16/2011	8.14	12.10	0.00	--	--	7.91	12.23	0.00	1.18	--	7.82	12.17	0.00	0.51	--	8.07	12.00	0.00	0.65	--
5/17/2011	8.02	12.22	0.00	1.63	--	7.83	12.31	0.00	1.05	--	7.75	12.24	0.00	0.52	--	7.96	12.11	0.00	0.11	--
8/16/2011	8.21	12.03	0.00	--	--	8.05	12.09	0.00	0.20	--	7.97	12.02	0.00	0.13	--	8.21	11.86	0.00	0.15	--
9/8/2011	--	--	--	--	--	10.05	10.09	0.00	0.32	--	--	--	--	--	--	10.23	9.84	0.00	0.75	--
1/30/2012	--	--	--	--	--	9.09	11.05	0.00	7.99	--	8.99	11.00	0.00	2.54	--	9.26	10.81	0.00	7.21	--
3/1/2012	--	--	--	--	--	8.86	11.28	0.00	7.70	--	9.64	10.35	0.00	3.31	--	9.02	11.05	0.00	7.15	--
3/29/2012	8.46	11.78	0.00	--	--	8.16	11.98	0.00	7.04	--	8.12	11.87	0.00	2.28	--	8.23	11.84	0.00	6.83	--
4/30/2012	--	--	--	--	--	10.14	10.00	0.00	6.95	--	9.60	10.39	0.00	2.59	--	10.08	9.99	0.00	7.24	--
6/1/2012	--	--	--	--	--	--	--	--	--	--	11.80	8.19	0.00	2.80	--	12.22	7.85	0.00	6.91	--
6/28/2012	12.65	7.59	0.00	--	--	12.42	7.72	0.00	3.88	--	12.24	7.75	0.00	0.88	--	12.44	7.63	0.00	5.94	--
7/30/2012	--	--	--	--	--	11.70	8.44	0.00	5.83	--	11.26	8.73	0.00	1.97	--	11.79	8.28	0.00	6.16	--
8/31/2012	--	--	--	--	--	12.49	7.65	0.00	4.62	--	12.14	7.85	0.00	1.13	--	12.67	7.40	0.00	6.70	--
9/26/2012	11.99	8.25	0.00	--	--	12.24	7.90	0.00	5.03	--	11.73	8.26	0.00	1.52	--	12.32	7.75	0.00	6.96	--
10/31/2012	--	--	--	--	--	11.68	8.46	0.00	4.90	--	11.19	8.80	0.00	1.26	--	11.68	8.39	0.00	5.58	--
11/29/2012	--	--	--	--	--	10.39	9.75	0.00	5.02	--	9.92	10.07	0.00	1.34	--	10.42	9.65	0.00	4.28	--
1/2/2013	9.14	11.10	0.00	--	--	9.04	11.10	0.00	4.95	--	8.84	11.15	0.00	1.77	--	9.09	10.98	0.00	6.61	--
1/25/2013	--	--	--	--	--	8.63	11.51	0.00	--	--	8.33	11.66	0.00	--	--	8.67	11.40	0.00	5.58	--
2/22/2013	--	--	--	--	--	8.17	11.97	0.00	--	--	8.09	11.90	0.00	--	--	8.32	11.75	0.00	4.28	--
3/22/2013	--	--	--	--	--	7.66	12.48	0.00	--	--	7.37	12.62	0.00	--	--	7.63	12.44	0.00	6.61	--
3/26/2013	7.61	12.63	0.00	--	--	7.38	12.76	0.00	3.29	--	7.25	12.74	0.00	0.86	--	7.50	12.57	0.00	5.47	--
7/1/2013	11.41	8.83	0.00	--	--	11.24	8.90	0.00	4.86	--	11.15	8.84	0.00	0.33	--	11.39	8.68	0.00	0.71	--
9/27/2013	11.34	8.90	0.00	--	--	11.16	8.98	0.00	1.83	--	11.09	8.90	0.00	0.43	--	11.31	8.76	0.00	0.23	--
4/1/2014	8.19	12.05	0.00	--	--	7.99	12.15	0.00	0.94	--	7.88	12.11	0.00	0.24	--	8.13	11.94	0.00	0.21	--
11/21/2014	--	--	--	--	--	9.69	10.45	0.00	0.40	--	9.19	10.80	0.00	0.22	--	9.44	10.63	0.00	0.21	--
5/21/2015	7.77	12.47	0.00	--	--	7.61	12.53	0.00	0.29	-59	7.52	12.47	0.00	0.48	120	7.77	12.30	0.00	0.17	-8.0
11/20/2015	--	--	--	--	--	9.78	10.36	0.00	0.47	141	9.71	10.28	0.00	0.29	-80	9.93	10.14	0.00	0.40	-41
5/18/2016	9.31	10.93	0.00	--	--	9.12	11.02	0.00	0.51	120	9.02	10.97	0.00	0.53	-34	9.15	10.92	0.00	0.93	2
11/15/2016	--	--	--	--	--	8.31	11.83	0.00	0.72	--	--	--	--	--	--	8.48	11.59	0.00	0.31	--
12/28/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/11/2017	7.22	13.02	0.00	--	--	7.09	13.05	0.00	0.21	-131	6.99	13.00	0.00	--	--	7.19	12.88	0.00	0.37	-106
11/14/2017	--	--	--	--	--	12.24	7.90	0.00	0.27	-303	--	--	--	--	--	12.39	7.68	0.00	0.21	-324
1/30/2018	--	--	--	--	--	Abandoned 2/20/2018					Abandoned 1/30/2018				Abandoned 1/30/2018					
8/8/2018	--	--	--	--	--										Replaced 8/8/2018					
8/17/2018	--	--	--	--	--										9.84	10.38	0.00	0.20	--	
11/13/2018	8.66	11.58	0.00	0.74	--										8.66	11.56	0.00	0.82	--	
4/10-12/2019	--	--	--	--	--										--	--	--	--	--	
4/23/2019	8.24	12.00	0.00	1.59	--										8.23	11.99	0.00	--	--	
4/24/2019	--	--	--	--	--										8.21	12.01	0.00	0.42	--	
8/28/2019	--	--	--	--	--										--	--	--	--	--	
2/24/2020	--	--	--	--	--										10.25	9.97	0.00	0.48	--	
2/25/2020	--	--	--	--	--										--	--	--	--	--	

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-8					MW-9					MW-10D					MW-11				
DIAMETER	2-inch					2-inch					2-inch					2-inch				
WELL DEPTH	22.0 feet					20.3 feet					36.0 feet					20.0 feet				
SCREEN INTERVAL	7.0 - 22.0 feet					5.3 - 20.3 feet					31.0 - 36.0 feet					5.0 - 20.0 feet				
TOC ELEVATION (in ft.)	20.05					20.29					20.10					20.64				
STATUS	Abandoned 1/30/2018					Active					Abandoned 1/30/2018					Destroyed				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
1/15/2003	8.46	11.59	0.00	3.24	--	8.93	11.36	0.00	0.11	--	8.68	11.42	0.00	0.10	--	9.68	10.96	0.00	0.10	--
4/10/2003	8.74	11.31	0.00	0.40	--	8.05	12.24	0.00	0.30	--	7.98	12.12	0.00	0.90	--	9.48	11.16	0.00	0.24	--
8/25/2003	9.43	10.62	0.00	1.10	--	9.07	11.22	0.00	--	--	8.92	11.18	0.00	--	--	10.39	10.25	0.00	--	--
9/22/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2003	9.91	10.14	0.00	0.00	--	10.06	10.23	0.00	1.12	--	--	--	--	--	--	--	--	--	--	--
2/12/2004	9.33	10.72	0.00	2.34	--	10.05	10.24	0.00	2.18	--	9.36	10.74	0.00	1.46	--	--	--	--	--	--
5/25/2004	6.53	13.52	0.00	0.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/25/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/2004	8.58	11.47	0.00	--	--	8.58	11.71	0.00	--	--	8.48	11.62	0.00	--	--	--	--	--	--	--
3/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/16/2005	8.98	11.07	0.00	0.27	--	9.24	11.05	0.00	0.20	--	9.05	11.05	0.00	0.31	--	--	--	--	--	--
9/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/27/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2006	--	--	--	--	--	--	--	--	--	--	8.21	11.89	0.00	2.31	--	--	--	--	--	--
5/24/2006	--	--	--	--	--	--	--	--	--	--	8.20	11.90	0.00	3.22	--	--	--	--	--	--
5/30/2006	--	--	--	--	--	--	--	--	--	--	8.41	11.69	0.00	1.41	--	--	--	--	--	--
6/28/2006	8.15	11.90	0.00	3.02	--	--	--	--	--	--	8.22	11.88	0.00	3.21	--	--	--	--	--	--
7/27/2006	9.48	10.57	0.00	2.43	--	--	--	--	--	--	9.54	10.56	0.00	5.14	--	--	--	--	--	--
8/20/2006	9.00	11.05	0.00	2.37	--	--	--	--	--	--	9.03	11.07	0.00	5.50	--	--	--	--	--	--
9/18/2006	10.27	9.78	0.00	5.23	--	--	--	--	--	--	10.30	9.80	0.00	5.11	--	--	--	--	--	--
10/18/2006	--	--	--	--	--	--	--	--	--	--	8.84	11.26	0.00	0.62	--	--	--	--	--	--
11/14/2006	8.73	11.32	0.00	1.32	--	--	--	--	--	--	8.76	11.34	0.00	4.77	--	--	--	--	--	--
12/18/2006	9.57	10.48	0.00	2.00	--	--	--	--	--	--	9.72	10.38	0.00	6.23	--	--	--	--	--	--
1/16/2007	8.78	11.27	0.00	1.42	--	--	--	--	--	--	8.46	11.64	0.00	1.46	--	--	--	--	--	--
2/16/2007	8.49	11.56	0.00	2.18	--	--	--	--	--	--	8.55	11.55	0.00	3.50	--	--	--	--	--	--
3/15/2007	8.09	11.96	0.00	8.48	--	--	--	--	--	--	7.95	12.15	0.00	4.38	--	--	--	--	--	--
4/16/2007	7.07	12.98	0.00	7.64	--	--	--	--	--	--	7.84	12.26	0.00	4.46	--	--	--	--	--	--
5/14/2007	6.91	13.14	0.00	7.26	--	--	--	--	--	--	7.69	12.41	0.00	4.21	--	--	--	--	--	--
6/14/2007	10.18	9.87	0.00	0.48	--	--	--	--	--	--	10.20	9.90	0.00	1.37	--	--	--	--	--	--
7/17/2007	10.23	9.82	0.00	3.16	--	--	--	--	--	--	10.25	9.85	0.00	3.90	--	--	--	--	--	--
8/13/2007	11.40	8.65	0.00	1.78	--	--	--	--	--	--	11.08	9.02	0.00	5.18	--	--	--	--	--	--
9/14/2007	10.30	9.75	0.00	3.16	--	--	--	--	--	--	10.68	9.42	0.00	5.16	--	--	--	--	--	--
10/12/2007	11.51	8.54	0.00	3.40	--	--	--	--	--	--	11.24	8.86	0.00	6.10	--	--	--	--	--	--
11/14/2007	11.71	8.34	0.00	2.90	--	--	--	--	--	--	11.84	8.26	0.00	5.10	--	--	--	--	--	--
11/29/2007	10.87	9.18	0.00	2.42	--	--	--	--	--	--	10.85	9.25	0.00	5.47	--	--	--	--	--	--
12/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/14/2008	9.39	10.66	0.00	--	--	9.59	10.70	0.00	--	--	9.44	10.66	0.00	--	--	Destroyed				
6/12/2008	8.67	11.38	0.00	--	--	8.87	11.42	0.00	--	--	8.88	11.22	0.00	--	--	Destroyed				
9/12/2008	11.98	8.07	0.00	--	--	12.17	8.12	0.00	--	--	11.96	8.14	0.00	--	--	Destroyed				
12/17/2008	9.41	10.64	0.00	--	--	--	--	--	--	--	9.64	10.46	0.00	--	--	Destroyed				
6/22/2009	10.24	9.81	0.00	2.25	--	--	--	--	--	--	--	--	--	--	--	Destroyed				
6/29/2009	10.98	9.07	0.00	1.24	--	--	--	--	--	--	--	--	--	--	--	Destroyed				
7/23/2009	10.56	9.49	0.00	1.90	--	--	--	--	--	--	--	--	--	--	--	Destroyed				
8/14/2009	10.67	9.38	0.00	1.45	--	--	--	--	--	--	--	--	--	--	--	Destroyed				
9/8/2009	10.38	9.67	0.00	4.55	--	--	--	--	--	--	--	--	--	--	--	Destroyed				

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-8 (cont.)					MW-9 (cont.)					MW-10D (cont.)					MW-11 (cont.)							
DIAMETER	2-inch					2-inch					2-inch					2-inch							
WELL DEPTH	22.0 feet					20.3 feet					36.0 feet					20.0 feet							
SCREEN INTERVAL	7.0 - 22.0 feet					5.3 - 20.3 feet					31.0 - 36.0 feet					5.0 - 20.0 feet							
TOC ELEVATION (in ft.)	20.05					20.29					20.10					20.64							
STATUS	Abandoned 1/30/2018					Active					Abandoned 1/30/2018					Destroyed							
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP			
10/7/2009	11.00	9.05	0.00	3.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11/3/2009	9.74	10.31	0.00	5.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/3/2009	9.97	10.08	0.00	3.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1/7/2010	11.14	8.91	0.00	5.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
2/2/2010	10.33	9.72	0.00	4.76	--	10.61	9.68	0.00	2.98	--	10.48	9.62	0.00	4.75	--	--	--	--	--	--	--		
4/5/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
4/12/2010	10.61	9.44	0.00	4.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5/4/2010	11.57	8.48	0.00	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5/20/2010	10.63	9.42	0.00	4.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/1/2010	10.15	9.90	0.00	5.26	--	11.28	9.01	0.00	--	--	10.20	9.90	0.00	0.84	--	--	--	--	--	--	--		
8/27/2010	10.20	9.85	0.00	--	--	11.20	9.09	0.00	--	--	10.16	9.94	0.00	--	--	--	--	--	--	--	--		
11/16/2010	9.40	10.65	0.00	--	--	9.59	10.70	0.00	--	--	10.05	10.05	0.00	--	--	--	--	--	--	--	--		
2/16/2011	7.91	12.14	0.00	--	--	8.10	12.19	0.00	--	--	7.97	12.13	0.00	--	--	--	--	--	--	--	--		
5/17/2011	7.81	12.24	0.00	0.65	--	8.02	12.27	0.00	0.95	--	7.74	12.36	0.00	0.29	--	--	--	--	--	--	--		
8/16/2011	7.99	12.06	0.00	--	--	8.21	12.08	0.00	--	--	8.10	12.00	0.00	--	--	--	--	--	--	--	--		
9/8/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1/30/2012	9.05	11.00	0.00	3.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
3/1/2012	8.71	11.34	0.00	3.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
3/29/2012	8.23	11.82	0.00	2.94	--	8.47	11.82	0.00	--	--	8.31	11.79	0.00	--	--	--	--	--	--	--	--		
4/30/2012	9.66	10.39	0.00	3.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/1/2012	11.87	8.18	0.00	2.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/28/2012	12.40	7.65	0.00	--	--	12.65	7.64	0.00	--	--	12.28	7.82	0.00	--	--	--	--	--	--	--	--		
7/30/2012	11.33	8.72	0.00	2.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
8/31/2012	12.22	7.83	0.00	1.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
9/26/2012	11.78	8.27	0.00	2.87	--	12.00	8.29	0.00	--	--	11.86	8.24	0.00	--	--	--	--	--	--	--	--		
10/31/2012	11.27	8.78	0.00	2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11/29/2012	9.99	10.06	0.00	1.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1/2/2013	8.92	11.13	0.00	2.25	--	9.13	11.16	0.00	--	--	8.99	11.11	0.00	--	--	--	--	--	--	--	--		
1/25/2013	8.41	11.64	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
2/22/2013	8.09	11.96	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
3/22/2013	7.43	12.62	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
3/26/2013	7.39	12.66	0.00	--	--	7.61	12.68	0.00	--	--	7.43	12.67	0.00	--	--	--	--	--	--	--	--		
7/1/2013	11.24	8.81	0.00	--	--	11.42	8.87	0.00	--	--	11.25	8.85	0.00	--	--	--	--	--	--	--	--		
9/27/2013	11.16	8.89	0.00	--	--	11.36	8.93	0.00	--	--	11.15	8.95	0.00	--	--	--	--	--	--	--	--		
4/1/2014	7.97	12.08	0.00	--	--	8.14	12.15	0.00	--	--	7.75	12.35	0.00	--	--	--	--	--	--	--	--		
11/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5/21/2015	7.58	12.47	0.00	0.27	-42	7.81	12.48	0.00	--	--	7.62	12.48	0.00	0.25	-88	--	--	--	--	--	--		
5/18/2016	9.12	10.93	0.00	0.68	-66	9.31	10.98	0.00	--	--	9.13	10.97	0.00	1.11	38	--	--	--	--	--	--		
11/15/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/28/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5/11/2017	7.04	13.01	0.00	--	--	7.25	13.04	0.00	--	--	7.05	13.05	0.00	--	--	--	--	--	--	--	--		
11/14/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1/30/2018	Abandoned 1/30/2018					--	--	--	--	--	Abandoned 1/30/2018					--	--	--	--	--	--	--	
8/8/2018						--	--	--	--	--						--	--	--	--	--	--	--	--
8/17/2018						--	--	--	--	--						--	--	--	--	--	--	--	--
11/13/2018						8.67	11.62	0.00	0.27	--						--	--	--	--	--	--	--	--
4/10-12/2019						--	--	--	--	--						--	--	--	--	--	--	--	--
4/23/2019						8.22	12.07	0.00	--	--						--	--	--	--	--	--	--	--
4/24/2019						--	--	--	--	--						--	--	--	--	--	--	--	--
8/28/2019						--	--	--	--	--						--	--	--	--	--	--	--	--
2/24/2020						--	--	--	--	--						--	--	--	--	--	--	--	--
2/25/2020						--	--	--	--	--						--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-12					MW-13					MW-14					MW-15				
DIAMETER	2-inch																			
WELL DEPTH	20.0 feet																			
SCREEN INTERVAL	5.0 - 20.0 feet					5.0 - 20.0 feet					5.0 - 20.0 feet					5.0 - 20.0 feet				
TOC ELEVATION (in ft.)	20.27					20.08					20.39					19.60				
STATUS	Active																			
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
1/15/2003	9.03	11.24	0.00	0.23	--	8.89	11.19	0.00	0.18	--	9.18	11.21	0.00	0.16	--	9.48	10.12	0.00	1.00	--
4/10/2003	7.99	12.28	0.00	0.11	--	7.81	12.27	0.00	0.12	--	8.21	12.18	0.00	0.90	--	7.41	12.19	0.00	0.94	--
8/25/2003	9.02	11.25	--	--	--	8.76	11.32	0.00	--	--	9.37	11.02	0.00	--	--	8.40	11.20	0.00	--	--
9/22/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/2003	10.12	10.15	0.00	0.93	--	--	--	--	--	--	10.19	10.20	0.00	1.70	--	--	--	--	--	--
2/12/2004	9.69	10.58	0.00	2.03	--	9.47	10.61	0.00	0.93	--	9.82	10.57	0.00	1.64	--	9.09	10.51	0.00	1.37	--
5/25/2004	6.79	13.48	0.00	1.13	--	--	--	--	--	--	--	--	--	--	--	6.75	12.85	0.00	1.02	--
8/25/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/2004	8.53	11.74	0.00	--	--	8.49	11.59	0.00	--	--	8.98	11.41	0.00	--	--	8.03	11.57	0.00	--	--
3/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/16/2005	9.25	11.02	0.00	0.15	--	9.28	10.80	0.00	0.14	--	9.27	11.12	0.00	0.69	--	9.21	10.39	0.00	0.19	--
9/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/27/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/27/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/18/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/18/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/18/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/15/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/14/2007	10.29	9.98	0.00	0.16	--	10.12	9.96	0.00	0.41	--	10.34	10.05	0.00	0.12	--	10.02	9.58	0.00	0.16	--
7/17/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/13/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/12/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/14/2008	9.63	10.64	0.00	--	--	9.63	10.45	0.00	--	--	9.61	10.78	0.00	--	--	9.60	10.00	0.00	--	--
6/12/2008	8.89	11.38	0.00	--	--	8.92	11.16	0.00	--	--	8.91	11.48	0.00	--	--	8.90	10.70	0.00	--	--
9/12/2008	12.21	8.06	0.00	--	--	12.24	7.84	0.00	--	--	12.31	8.08	0.00	--	--	12.14	7.46	0.00	--	--
12/17/2008	9.66	10.61	0.00	--	--	9.68	10.40	0.00	--	--	9.65	10.74	0.00	--	--	9.61	9.99	0.00	--	--
6/22/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/29/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/14/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/8/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-12 (cont.)					MW-13 (cont.)					MW-14 (cont.)					MW-15 (cont.)					
DIAMETER	2-inch																				
WELL DEPTH	20.0 feet																				
SCREEN INTERVAL	5.0 - 20.0 feet					5.0 - 20.0 feet					5.0 - 20.0 feet					5.0 - 20.0 feet					
TOC ELEVATION (in ft.)	20.27					20.08					20.39					19.60					
STATUS	Active																				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	
10/7/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/3/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/7/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/2/2010	10.58	9.69	0.00	2.48	--	10.68	9.40	0.00	2.02	--	10.67	9.72	0.00	2.04	--	10.53	9.07	0.00	2.88	--	
4/5/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/12/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/4/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/1/2010	10.62	9.65	0.00	1.10	--	10.43	9.65	0.00	0.97	--	10.42	9.97	0.00	5.52	--	10.40	9.20	0.00	0.69	--	
8/27/2010	10.52	9.75	0.00	--	--	10.32	9.76	0.00	--	--	10.32	10.07	0.00	--	--	10.27	9.33	0.00	--	--	
11/16/2010	--	--	--	--	--	9.67	10.41	0.00	--	--	9.64	10.75	0.00	--	--	9.60	10.00	0.00	--	--	
2/16/2011	8.14	12.13	0.00	--	--	8.15	11.93	0.00	--	--	8.14	12.25	0.00	--	--	8.09	11.51	0.00	--	--	
5/17/2011	8.06	12.21	0.00	0.15	--	8.06	12.02	0.00	0.16	--	8.07	12.32	0.00	0.16	--	8.03	11.57	0.00	1.56	--	
8/16/2011	8.29	11.98	0.00	--	--	8.29	11.79	0.00	--	--	8.21	12.18	0.00	--	--	8.22	11.38	--	--	--	
9/8/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/1/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/29/2012	8.50	11.77	0.00	--	--	8.52	11.56	0.00	--	--	8.53	11.86	0.00	--	--	8.45	11.15	0.00	--	--	
4/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/1/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/28/2012	12.69	7.58	0.00	--	--	12.70	7.38	0.00	--	--	12.68	7.71	0.00	--	--	12.64	6.96	0.00	--	--	
7/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/26/2012	12.05	8.22	0.00	--	--	12.04	8.04	0.00	--	--	12.04	8.35	0.00	--	--	12.00	7.60	0.00	--	--	
10/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/2/2013	9.17	11.10	0.00	--	--	9.19	10.89	0.00	--	--	9.18	11.21	0.00	--	--	9.15	10.45	0.00	--	--	
1/25/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/26/2013	7.67	12.60	0.00	--	--	7.65	12.43	0.00	--	--	7.65	12.74	0.00	--	--	7.61	11.99	0.00	--	--	
7/1/2013	11.47	8.80	0.00	--	--	11.48	8.60	0.00	--	--	11.46	8.93	0.00	--	--	11.38	8.22	0.00	--	--	
9/27/2013	11.39	8.88	0.00	--	--	11.41	8.67	0.00	--	--	11.40	8.99	0.00	--	--	11.33	8.27	0.00	--	--	
4/1/2014	8.16	12.11	0.00	--	--	8.18	11.90	0.00	--	--	8.18	12.21	0.00	--	--	8.18	11.42	0.00	--	--	
11/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/21/2015	7.83	12.44	0.00	--	--	7.84	12.24	0.00	--	--	7.84	12.55	0.00	--	--	7.77	11.83	0.00	--	--	
5/18/2016	9.35	10.92	0.00	--	--	9.36	10.72	0.00	--	--	9.36	11.03	0.00	--	--	9.32	10.28	0.00	--	--	
11/15/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/28/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/11/2017	7.29	12.98	0.00	--	--	6.27	13.81	0.00	--	--	7.27	13.12	0.00	--	--	7.22	12.38	0.00	--	--	
11/14/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/30/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/8/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/17/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/2018	--	--	--	--	--	8.70	11.38	0.00	0.21	--	--	--	--	--	--	--	--	--	--	--	--
4/10-12/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/23/2019	8.27	12.00	0.00	--	--	8.24	11.84	0.00	--	--	8.25	12.14	0.00	--	--	8.18	11.42	0.00	--	--	
4/24/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/25/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-16					MW-17					DW-2					RW-1					
DIAMETER	2-inch					2-inch					2-inch					6-inch					
WELL DEPTH	20.0 feet					20.0 feet					40.0 feet					23.0 feet					
SCREEN INTERVAL	5.0 - 20.0 feet					5.0 - 20.0 feet					35.0 - 40.00 feet					unknown					
TOC ELEVATION (in ft.)	19.34					20.03					unknown					unknown					
STATUS	Active					Active					Abandoned 2/20/2018					Abandoned 11/1/10					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	
1/15/2003	8.10	11.24	0.00	0.12	--	7.91	12.12	0.00	0.30	--											
4/10/2003	7.21	12.13	0.00	0.12	--	8.75	11.28	0.00	0.68	--											
8/25/2003	8.20	11.14	0.00	--	--	9.71	10.32	0.00	--	--											
9/22/2003	--	--	--	--	--	--	--	--	--	--											
11/19/2003	--	--	--	--	--	--	--	--	--	--											
2/12/2004	8.92	10.42	0.00	0.94	--	9.64	10.39	0.00	2.41	--											
5/25/2004	--	--	--	--	--	--	--	--	--	--											
8/25/2004	--	--	--	--	--	--	--	--	--	--											
12/3/2004	7.85	11.49	0.00	--	--	8.17	11.86	0.00	--	--											
3/17/2005	--	--	--	--	--	--	--	--	--	--											
6/16/2005	Dry Well (TD = 7.85 ft)				--	9.21	10.82	0.00	0.61	--											
9/27/2005	--	--	--	--	--	9.56	10.47	0.00	5.39	--											
12/29/2005	--	--	--	--	--	--	--	--	--	--											
3/27/2006	--	--	--	--	--	--	--	--	--	--											
4/20/2006	--	--	--	--	--	9.56	10.47	0.00	5.39	--											
5/23/2006	--	--	--	--	--	--	--	--	--	--											
5/24/2006	--	--	--	--	--	--	--	--	--	--											
5/30/2006	--	--	--	--	--	--	--	--	--	--											
6/28/2006	--	--	--	--	--	--	--	--	--	--											
7/27/2006	--	--	--	--	--	--	--	--	--	--											
8/20/2006	--	--	--	--	--	--	--	--	--	--											
9/18/2006	--	--	--	--	--	--	--	--	--	--											
10/18/2006	--	--	--	--	--	--	--	--	--	--											
11/14/2006	--	--	--	--	--	--	--	--	--	--											
12/18/2006	--	--	--	--	--	--	--	--	--	--											
1/16/2007	--	--	--	--	--	--	--	--	--	--											
2/16/2007	--	--	--	--	--	--	--	--	--	--											
3/15/2007	--	--	--	--	--	--	--	--	--	--											
4/16/2007	--	--	--	--	--	--	--	--	--	--											
5/14/2007	--	--	--	--	--	--	--	--	--	--											
6/14/2007	10.08	9.26	0.00	0.38	--	10.33	9.70	0.00	0.18	--											
7/17/2007	--	--	--	--	--	--	--	--	--	--											
8/13/2007	--	--	--	--	--	--	--	--	--	--											
9/14/2007	--	--	--	--	--	--	--	--	--	--											
10/12/2007	--	--	--	--	--	--	--	--	--	--											
11/14/2007	--	--	--	--	--	--	--	--	--	--											
11/29/2007	--	--	--	--	--	--	--	--	--	--											
12/14/2007	--	--	--	--	--	--	--	--	--	--											
3/14/2008	9.58	9.76	0.00	--	--	9.57	10.46	0.00	--	--	--	10.72	0.00	--	--	--	10.71	0.00	--	--	
6/12/2008	8.85	10.49	0.00	--	--	8.85	11.18	0.00	--	--	--	11.42	0.00	--	--	--	11.08	0.00	--	--	
9/12/2008	12.12	7.22	0.00	--	--	12.13	7.90	0.00	--	--	--	8.11	0.00	--	--	--	7.78	0.00	--	--	
12/17/2008	9.57	9.77	0.00	--	--	9.58	10.45	0.00	--	--	--	10.67	0.00	--	--	--	10.35	0.00	--	--	
6/22/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/29/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/14/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/8/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-16 (cont.)					MW-17 (cont.)					DW-2 (cont.)					RW-1 (cont.)					
DIAMETER	2-inch					2-inch					2-inch					6-inch					
WELL DEPTH	20.0 feet					20.0 feet					40.0 feet					23.0 feet					
SCREEN INTERVAL	5.0 - 20.0 feet					5.0 - 20.0 feet					35.0 - 40.00 feet					unknown					
TOC ELEVATION (in ft.)	19.34					20.03					unknown					unknown					
STATUS	Active					Active					Abandoned 2/20/2018					Abandoned 11/1/10					
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	
10/7/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/3/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/7/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/2/2010	10.52	8.82	0.00	3.23	--	9.61	10.42	0.00	3.64	--	--	9.75	0.00	3.07	--	--	--	--	--	--	
4/5/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/12/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/4/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/1/2010	10.36	8.98	0.00	0.77	--	10.36	9.67	0.00	0.92	--	--	9.91	0.00	0.87	--	--	9.58	0.00	1.46	--	
8/27/2010	10.25	9.09	0.00	--	--	10.28	9.75	0.00	--	--	--	9.98	0.00	--	--	--	--	--	--	--	
11/16/2010	9.57	9.77	0.00	--	--	9.58	10.45	0.00	--	--	--	10.73	0.00	--	--	Abandoned 11/1/10					
2/16/2011	8.09	11.25	0.00	--	--	8.08	11.95	0.00	--	--	--	12.17	0.00	--	--						
5/17/2011	8.00	11.34	0.00	0.88	--	8.01	12.02	0.00	0.75	--	--	12.29	0.00	0.51	--						
8/16/2011	8.18	11.16	0.00	--	--	8.22	11.81	0.00	--	--	--	12.15	0.00	--	--						
9/8/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
1/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
3/1/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
3/29/2012	7.44	11.90	0.00	--	--	8.49	11.54	0.00	--	--	--	11.85	0.00	--	--						
4/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
6/1/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
6/28/2012	12.58	6.76	0.00	--	--	12.62	7.41	0.00	--	--	--	7.70	0.00	--	--						
7/30/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
8/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
9/26/2012	11.96	7.38	0.00	--	--	11.98	8.05	0.00	--	--	--	8.31	0.00	--	--						
10/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
11/29/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
1/2/2013	9.13	10.21	0.00	--	--	--	--	--	--	--	--	11.17	0.00	--	--						
1/25/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
2/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
3/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
7/1/2013	11.37	7.97	0.00	--	--	11.40	8.63	0.00	--	--	--	8.89	0.00	--	--						
9/27/2013	11.32	8.02	0.00	--	--	11.35	8.68	0.00	--	--	--	8.94	0.00	--	--						
4/1/2014	8.15	11.19	0.00	--	--	8.12	11.91	0.00	--	--	--	12.12	0.00	--	--						
11/21/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
5/21/2015	7.77	11.57	0.00	--	--	7.77	12.26	0.00	0.57	135	--	12.52	0.00	0.68	--						
5/18/2016	9.39	9.95	0.00	--	--	--	--	--	--	--	--	10.98	0.00	0.94	--						
11/15/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
12/28/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
5/11/2017	7.21	12.13	0.00	--	--	INACCESSIBLE - UNDER VEHICLE					--	13.03	0.00	--	--						
11/14/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
1/30/2018	--	--	--	--	--	--	--	--	--	--	Abandoned 2/20/2018										
8/8/2018	--	--	--	--	--	--	--	--	--	--											
8/17/2018	--	--	--	--	--	--	--	--	--	--											
11/13/2018	--	--	--	--	--	8.64	11.39	0.00	0.60	--											
4/10-12/2019	--	--	--	--	--	--	--	--	--	--											
4/23/2019	8.19	11.15	0.00	--	--	8.23	11.80	0.00	--	--											
4/24/2019	--	--	--	--	--	--	--	--	--	--											
8/28/2019	--	--	--	--	--	--	--	--	--	--											
2/24/2020	--	--	--	--	--	--	--	--	--	--											
2/25/2020	--	--	--	--	--	--	--	--	--	--											

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	MW-18					MW-19					MW-20					MW-21				
DIAMETER	2-inch					2-inch					2-inch					2-inch				
WELL DEPTH	19 feet					19 feet					19 feet					19 feet				
SCREEN INTERVAL	4 - 19 feet					4 - 19 feet					4 - 19 feet					4 - 19 feet				
TOC ELEVATION (in ft.)	20.35					20.31					20.28					20.60				
STATUS	Active					Active					Active					Active				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
8/8/2018	Installed 8/8/2018					Installed 8/8/2018														
8/17/2018	9.86	10.49	0.00	0.22	--	9.78	10.53	0.00	0.12	--										
11/13/2018	8.65	11.70	0.00	0.29	--	8.63	11.68	0.00	0.10	--	Installed 4/10/2019					Installed 4/11/2019				
4/23/2019	8.23	12.12	0.00	--	--	8.15	13.20	1.30	--	--	8.20	12.08	0.00	0.75	--	8.24	12.36	0.00	0.93	--
4/24/2019	8.19	12.16	0.00	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2020	10.27	10.08	0.00	--	--	10.21	10.10	0.00	--	--	10.21	10.07	0.00	--	--	10.22	10.38	0.00	0.52	--
2/25/2020	10.19	10.16	0.00	0.21	--	10.12	10.19	0.00	0.20	--	10.13	10.15	0.00	0.51	--	--	--	--	--	--

WELL NO.	MW-22					MW-23					MW-24					MW-25				
DIAMETER	2-inch																			
WELL DEPTH	19 feet																			
SCREEN INTERVAL	4 - 19 feet					4 - 19 feet					4 - 19 feet					4 - 19 feet				
TOC ELEVATION (in ft.)	20.10					20.34					20.43					20.25				
STATUS	Active																			
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
8/8/2018																				
8/17/2018																				
11/13/2018	Installed 4/11/2019					Installed 4/11/2019					Installed 4/11/2019					Installed 4/10/2019				
4/23/2019	8.23	11.87	0.00	--	--	8.24	12.10	0.00	0.52	--	8.23	12.20	0.00	--	--	8.20	12.05	0.00	0.37	--
4/24/2019	8.18	11.92	0.00	1.12	--	--	--	--	--	--	8.18	12.25	0.00	1.48	--	--	--	--	--	--
8/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2020	10.22	9.88	0.00	0.82	--	10.25	10.09	0.00	--	--	10.25	10.18	0.00	0.66	--	10.22	10.03	0.00	--	--
2/25/2020	--	--	--	--	--	10.17	10.17	0.00	0.66	--	--	--	--	--	--	10.14	10.11	0.00	0.28	--

WELL NO.	DW-3					DW-4					DW-5					DW-6				
DIAMETER	2-inch					2-inch					2-inch					2-inch				
WELL DEPTH	35 feet					35 feet					35 feet					35 feet				
SCREEN INTERVAL	30 - 35 feet					30 - 35 feet					30 - 35 feet					30 - 35 feet				
TOC ELEVATION (in ft.)	20.45					20.70					20.34					20.28				
STATUS	Active					Active					Active					Active				
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
8/8/2018																				
8/17/2018																				
4/12/2019	Installed 4/12/2019					Installed 4/12/2019														
4/23/2019	8.20	12.25	0.00	--	--	8.21	12.49	0.00	0.28	--										
4/24/2019	8.18	12.27	0.00	0.33	--	--	--	--	--	--	Installed 8/15/2019					Installed 8/14/2019				
8/28/2019	10.36	10.09	0.00	0.21	--	10.45	10.25	0.00	0.20	--	10.44	9.90	0.00	0.46	--	10.39	9.89	0.00	0.35	--
2/24/2020	10.31	10.14	0.00	--	--	10.47	10.23	0.00	--	--	10.54	9.80	0.00	0.71	--	10.55	9.73	0.00	0.28	--
2/25/2020	10.13	10.32	0.00	0.17	--	10.21	10.49	0.00	0.17	--	--	--	--	--	--	--	--	--	--	--

TABLE 4: GROUNDWATER ELEVATION & FIELD PARAMETER SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

WELL NO.	DW-7					DDW-1														
DIAMETER	2-inch					2-inch														
WELL DEPTH	35 feet					55 feet														
SCREEN INTERVAL	30 - 35 feet					50 - 55 feet														
TOC ELEVATION (in ft.)	20.38					20.47														
STATUS	Active					Active														
DATE	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP	ELEV	DTW	FP	DO	ORP
8/8/2018																				
8/17/2018																				
4/10-12/2019																				
4/23/2019																				
4/24/2019	Installed 8/14/2019					Installed 8/20/2019														
8/28/2019	10.46	9.92	0.00	0.16	--	10.45	10.02	0.00	0.17	--										
2/24/2020	10.34	10.04	0.00	0.24	--	--	--	--	--	--										
2/25/2020	--	--	--	--	--	--	--	--	--	--										

*Top-of-casing elevations of all existing wells resurveyed April 24, 2019; New wells tied in as installed

-- = Not Measured or No Data

DTW = Depth to Water (feet)

FP = Free Product Thickness (feet)

DO = Dissolved Oxygen (mg/L)

ORP = Oxygen Reduction Potential (mV)

NA = Not Applicable

mg/L = milligrams per liter

mV = millivolts

TABLE 5: REMEDIATION SYSTEM DESIGN SUMMARY

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Sparge System Design

Sparge Well Specifications		Dimensions
Number of Wells	12 shallow wells and 1 deep well	
Well Diameter	2-inches	
Total Depth/Well	Shallow: 35 feet; Deep: 50 feet	
Screen Length	5 feet	
Pressure at Well	max 16 psi	
Flow Rate/well	10 scfm	
Sparge Compressor Requirements		Specifications
Total Air Flow	130 scfm	
Operating Pressure	max 18 psi	
Type	Rotary-claw	
Power Requirements	15-Hp, 3-phase, 60 Hz, XP	
Sparge Equipment		Model
Sparge Compressor	Rietschle Model DLR 250 (or equivalent)	
Aftercooler	American Industrial Model ACA-3302, 0.75-HP, XP	
Flow Meters (13)	King Instrument Co. Model 7510-7A-03 (0-15 scfm)	

SVE System Design

Vapor Extraction Well Specifications		Dimensions
Number of Wells	11 vertical VE wells	
Well Diameter	4-inches	
Total Depth/Well	5 feet	
Screen Length	10 feet	
Vacuum at well	18-in water	
Total Flow Rate/well	25 cfm	
SVE Blower Design		Specifications
Total Air Flow	275 cfm	
Operating Vacuum	53 in-water	
Type	Regenerative Blower	
Power Requirements	15-HP, 3-phase, 60 Hz, XP	
Equipment		Model
SVE Blower	Rotron Model EN909 (or equivalent)	
Knockout Tank	Rotron Model MS1000BS (or equivalent)	
Knockout Tank Transfer Pump	Goulds Model NPE-1ST (3500 rpm)	
Off-gas Treatment	(2) CSEC Model Air 1000 (1,000 lbs carbon each) (or equivalent)	

TABLE 7: REMEDIAL ACTION MONITORING SCHEDULE

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Well Designation	Year 1							PARM	
	Baseline	Daily (1st 3 days)	Weekly (Weeks 1-3)	Monthly (1st Qtr)	Qtrly (1,2,&3)	Monthly (After 1st Qtr)	Annual	Quarterly	Annual
MW-1									
MW-2R									
MW-3									
MW-4									
MW-7RR	ABD	D	D	D	ABD	D	ABD	AB	AB
MW-9									
MW-12									
MW-13									
MW-14									
MW-15									
MW-16									
MW-17									
MW-18	ABCD	D	D	D	ABCD	D	ABCD	ABC	ABC
MW-19	ABCD	D	D	D	ABCD	D	ABCD	ABC	ABC
MW-20	ABD	D	D	D	ABD	D	ABD	AB	AB
MW-21									
MW-22									
MW-23	ABD	D	D	D	ABD	D	ABD	AB	AB
MW-24									
MW-25	ABD	D	D	D	ABD	D	ABD	AB	AB
CW-1R	ABD	D	D	D	ABD	D	ABD	AB	AB
CW-2R							AB		AB
CW-5R									
DW-3	ABD	D	D	D	ABD	D	ABD	AB	AB
DW-4							AB		AB
DW-5									
DW-6									
DW-7									
DDW-1							AB		AB
VE Influent		E	E	E	E		E		
VE Between		E	E	E	E		E		
VE Effluent		E	E	E	E		E		

Analyses Legend:	EPA Method
A = BTEX + MTBE	8260
B = PAHs	8270
C = TRPHs	FL-PRO
D = Water Levels, DO, Wellhead vacuums/pressures	field measure
E = BTEX and TRPH (air)	EPA 18 or TO-3

TABLE 8: REMEDIAL ACTION MILESTONE CONCENTRATION TABLE

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

Indicator Contaminant	Key Milestone Well(s)	
	MW-18	MW-19
<u>Benzene</u>		
Pre-startup Concentration	92.6	164
Cleanup Goal (Chapter 62-777, FAC, GCTLs)	1	1
<u>TEX</u>		
Pre-startup Concentration	2369	11450
Cleanup Goal (Chapter 62-777, FAC, GCTLs)	90	90
<u>Naphthalenes</u>		
Pre-startup Concentration	1088	425
Cleanup Goal (Chapter 62-777, FAC, GCTLs)	70	70
<u>TRPHs</u>		
Pre-startup Concentration	7080	11700
Cleanup Goal (Chapter 62-777, FAC, GCTLs)	5000	5000

NOTES:

All concentrations in micrograms per liter.

Groundwater analytical data from the March 2018 sampling event.

TABLE 9: REMEDIATION SYSTEM STARTUP PLAN

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

<p>(1) Baseline Groundwater Sampling</p> <p>Note: These activities to be performed no more than 30 days prior to system startup, but before the remediation system is operating.</p> <p>(a) Collect groundwater samples from the the eight wells as summarized on Table 7, Submit the samples to a State of Florida accredited laboratory for analyses of BTEX and MTBE using EPA Method 8260B and PAHs by EPA Method 8270C SIMS and/or TRPH by FLPRO as summarized on the Remedial Action Monitoring Schedule (Table 7)</p> <p>(b) Collect depth to groundwater measurements and dissolved oxygen readings under static conditions in the eight monitoring wells identified on Table 7. The static values will be compared to measurements obtained while the system is operating to evaluate the radius of influence of the remediation system.</p>
<p>(2) Daily (First 3 days of System Operation)</p> <p>(a) Activate SVE system only. Record the airflow rate, vacuum, and concentration of recovered vapors (using an OVA) at each SVE manifold line. Once vapor levels have decreased to acceptable levels, the AS system will be activated and operated at low flow rates. As treatment progresses and vapor recovery is monitored, the sparge wells will be adjusted to design levels.</p> <p>(b) Collect depth to groundwater measurements, dissolved oxygen readings, and pressure/vacuum readings in each monitoring well on the sampling schedule (see Table 7).</p> <p>(c) Screen the area around buildings, storm drains, utility trenches, etc. for the presence of hydrocarbon vapors. If vapors are detected, adjust the SVE and sparge valving to remove the hydrocabons. Discontinue system operation if the vapors cannot be eliminated.</p> <p>(d) Perform any system repairs or maintenance (replace filters, clean floats, etc), as per manufacturers recommendations.</p> <p>(f) Collect air samples from the SVE system for analyses as summarized on Table 7.</p>
<p>(3) End of First Week Activities</p> <p>(a) Record airflow rate and injection pressure in each sparge manifold line. Record the injection pressure at each sparge wellhead.</p> <p>(b) Record the airflow rate, vacuum, and concentration of recovered vapors (using an OVA) at each SVE manifold line. Record the vacuum at each SVE wellhead.</p> <p>(c) Collect depth to groundwater measurements, dissolved oxygen readings, and pressure/vacuum readings in each monitoring well on the sampling schedule (see Table 7).</p> <p>(d) Screen the area around buildings, storm drains, utility trenches, etc. for the presence of hydrocarbon vapors. If vapors are detected, adjust the SVE and sparge valving to remove the hydrocabons. Discontinue system operation if the vapors cannot be eliminated.</p> <p>(e) Perform any system repairs or maintenance (replace filters, clean floats, etc), as per manufacturers recommendations.</p> <p>(f) Collect air samples from the SVE system for analyses as summarized on Table 7.</p>

TABLE 9: REMEDIATION SYSTEM STARTUP PLAN

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

(4) Reporting Requirements

Within 600 days of conducting the startup activities, submit a report containing the following information:

- (a) A table listing all components of the remediation system.
- (b) A table showing air sparge pressure and flow readings for each manifold line.
- (c) A table showing total SVE vacuum and flow readings and laboratory analytical results from the influent and effluent air samples.
- (d) A table of SVE vacuum and flow readings for each manifold line.
- (e) A table of O&M activities including the date of each site visit, hour meter readings, actual flow versus design flow for the sparge, and SVE systems, and maintenance issues.
- (f) A table showing historical (static) water level measurements and water levels measured under system operating conditions.
- (g) A table of historical groundwater analytical results.
- (h) A site diagram showing the location of the groundwater plume, based on the baseline sampling results.
- (i) A site diagram showing the groundwater elevations under system operating conditions (to evaluate mounding or depressions caused by the remediation system).
- (j) A site diagram showing dissolved oxygen concentrations (to determine whether oxygen is being effectively delivered to the aquifer by sparging).
- (k) A site diagram showing the distribution of vacuum and pressure readings at the monitoring points (to evaluate the radius of influence of the remediation system).
- (l) A written discussion of the operational data, including conclusions and recommendations for improving the remediation effort.
- (m) A discussion of mechanical failures and recommendations on required repairs.

TABLE 10: PREVENTATIVE AND ROUTINE MAINTENANCE PLAN

Facility Name: Former Speedway No. 6442

Facility ID No: 06/8502103

I. Maintenance for the Rietschle Model DLR250 Air Sparge Compressor and Flow Meters
<p>(a) Check the inlet filter and bleed-valve filter during each monthly site visit. If dirty, blow off filter from inside to outside using compressed air. Replace blocked or oily filters as necessary.</p> <p>(b) Replace crankcase oil every 6 months. Grease bearings every 3 months, if equipped</p> <p>(c) When the airflow meters become difficult to read, remove the end caps and clean the face-plates using a soft bristle brush.</p>
II. Maintenance for the American Industrial Heat Exchanger
<p>(a) Inspect the heat exchanger for loose bolts, corrosion, and external leakage and repair as necessary. Grease bearings every 3 months, if equipped.</p> <p>(b) Check the coil cooling fins monthly and clean as necessary. Cleaning can be performed using a mild water-soluble degreaser and a plastic bristle brush.</p>
III. Maintenance for the Rotron Model EN909 blower and SVE Pump-Out System
<p>(a) Check in-line filter and bleed valve filter during each monthly site visit. If dirty, blow off filter from inside to outside using compressed air. Replace blocked or dirty filters as necessary.</p> <p>(b) Return spent water-phase carbon vessels to the manufacturer and replace as necessary.</p> <p>(c) Check the floats for the transfer pump and clean as necessary.</p> <p>(d) Change the in-line filter for the water pump-out system as necessary.</p>

APPENDIX A

Excerpts from April 2013 Remedial Action O&M Report



April 23, 2013

David Singleton, PG
Broward County Environmental Protection
& Growth Management Department
1 North University Drive, Suite 102
Plantation, FL 33324

**Re: Remedial Action Operation and Maintenance Report - Year 8, Quarter 3
Hess Station No. 09287
900 East Sample Road, Pompano Beach, Florida
FDEP No. 068502103 / Work Order No. 2013-06-W2877A**

Dear Mr. Singleton:

This report summarizes the operation and maintenance (O&M) of the air sparging (AS) and soil vapor extraction (SVE) systems and bio-applications at the referenced site. Remediation system startup was initiated on March 26, 2002. The AS and SVE system operated at the site from March 26, 2002 through November 29, 2007. The site entered into Post Active Remediation Monitoring (PARM) in March 2008. In June 2009, the remediation system was restarted. The site transitioned back to PARM following the June 2010 groundwater sampling event. Five quarters of PARM were completed before the site re-transitioned to active O&M because of an increase in dissolved hydrocarbons above Chapter 62-777, Florida Administrative Code (FAC) Natural Attenuation Default Concentrations (NADCs). A Limited Scope Remedial Action Plan (LSRAP) was approved in April 2012 to implement bio-enhanced AS. Bio-applications were initiated in November 2012 and are currently performed monthly. This report summarizes Year 8, Quarter 3 of remediation operations at the site (January 3, 2013 through March 26, 2013).

SYSTEM DESCRIPTION

The remediation system design incorporates SVE with AS to remove hydrocarbons from the soil and groundwater. Vapor extraction is achieved with a 20-Horsepower (HP) Fuji Model SD91 blower, capable of extracting 300 cubic feet per minute (cfm) of air at a vacuum of 75 inches of water (in-water). Sixteen vertical wells (VW-1 through VW-10, VW-14, and VW-18 through VW-22), and six horizontal wells (HVEW-11 through HVEW-13 and HVEW-15 through HVEW-17) were originally installed and utilized for vapor recovery.

In April 2006, 12 additional vertical SVE wells (VW-23 through VW-34) were installed. Each vertical SVE well was constructed of 2-inch diameter PVC and screened from 2 to 10 feet below land surface (BLS) with 0.020-slot well screen. The manifold piping for VE wells VW-1, VW-2, VW-5, VW-6, VW-7, VW-8, VW-9, VW-10, HVW-11, HVW-12,



HVW-13, VW-14, HVW-15, HVW-16, HVW-17, and VW-22 was removed and capped because these wells were no longer in areas impacted by hydrocarbons. The remaining VE wells (VW-3, VW-4, VW-18, VW-19, VW-20, and VW-21) were re-piped to the modified SVE system. VE wells VW-23 through VW-34, along with previously installed wells VW-3, VW-4, VW-18, VW-19, VW-20, and VW-21, are currently the only active VE wells connected to the system.

The Fuji blower is connected to the vapor extraction wells with 2-inch diameter Schedule 40 PVC horizontal underground piping. Effluent air was originally treated using two 1000-pound carbon vessels. The moisture in the vapor stream is removed with a United Plastics moisture separator. A remediation system summary table is included as **Table 1**. The layout of the remediation system is shown in **Figure 1**.

Air sparging is achieved with a 15-HP Rietschle Model DTB250 Rotary Claw compressor. The compressor is capable of providing 78 cfm of air at a pressure of 11.25 pounds per square inch (psi). Seventeen 2-inch diameter air sparging wells (AS-1 through AS-17) were originally installed to provide air to the subsurface.

In April 2006, seven additional AS wells (AS-18 through AS-24) were installed. Each AS well is screened from 30 to 35 feet BLS. Sparge wells AS-1, AS-2, AS-3, AS-4, AS-5, AS-6, AS-8, AS-9, AS-10, AS-11, AS-12, and AS-13 were closed because these wells were no longer in areas impacted by hydrocarbons. Sparge wells AS-7, AS-14, AS-15, AS-16, AS-17, and AS-18 through AS-24 are currently operating.

Air is conveyed from the compressor to the AS wells through 1-inch diameter Schedule 40 PVC horizontal underground piping. Airflow to the individual sparge lines can be regulated inside the equipment compound by adjusting ball valves located on each line.

The equipment compound is located on the southeast corner of the facility property on a 14-foot by 20-foot concrete slab. During the remedial system modification, an area approximately 15 feet by 5 feet was added to the west side of the existing remediation compound to accommodate the new AS and SVE manifolds. The entire compound is enclosed within a 6-foot high wooden privacy fence. The compound houses the equipment trailer, the air sparge and SVE manifolds, and two 1,000-pound carbon vessels used to treat the off-gas from the vapor extraction process. The carbon vessels were disconnected on September 26, 2012 following Broward County Environmental Protection and Growth Management Department (EPGMD) approval and remain on site.

DISCUSSION OF REMEDIATION OPERATIONS / PERFORMANCE

Vapor Extraction System

The SVE system was operational for 79 of the 79 days during this reporting period, or 100 percent of the time. During the reporting period, the operational vacuum ranged from 48 in-water to 49 in-water. The average total flow rate throughout the quarter was



341 cfm, which is 105 percent of the design rate (325 cfm). A summary of SVE system flow rates, vacuum readings and laboratory analytical results is included on **Table 2**.

Air Sparge System

The sparge unit was operational for 79 out of 79 days during this reporting period, or 100 percent of the total time. During the reporting period, flow rates to the individual sparge wells ranged from 6.0 to 9.0 cfm, at pressures ranging from 7.5 to 11.0 psi. The average total flow rate for the sparge system was 91 cfm, or 101 percent of the design flow (90 cfm). A summary of air sparge system flow rates and pressure readings is provided on **Table 3**.

BIOLOGICAL AUGMENTATION

As approved in the January 2012 LSRAP, Earth Systems added Biodyne's ENVIRONOCtm 101 blend of microbes to select AS and SVE wells. On November 8, 2012, Earth Systems modified the existing AS manifolds to include bio-application ports to introduce ENVIRONOCtm 101 to select AS wells. On January 25, 2013, February 22, 2013, and March 22, 2013, the remediation system was temporarily turned off to allow the addition of approximately 5-gallons of microbial fluid to AS wells AS-7, AS-15R, AS-16, AS-17, AS-18, AS-19, AS-21, AS-22 and AS-23; and SVE wells VW-1, VW-2, VW-3, VW-4, VW-19, VW-26, VW-30, and VW-31. Following the microbial fluid addition, the remediation system was restarted to flush the microbes from the remediation piping and into the formation. Earth Systems will continue with the scheduled monthly O&M and ENVIRONOCtm 101 applications.

REMEDICATION SYSTEM SAMPLING

Earth Systems collected influent vapor samples on January 25, 2013, February 22, 2013, and March 22, 2013 to evaluate the vapor emissions from the SVE system. The air samples were analyzed for Benzene, Toluene, Ethylbenzene, Toluene (BTEX), Methyl tert-Butyl Ether (MTBE), and Total Residual Petroleum Hydrocarbons (TRPHs) by EPA Method TO-13. The calculations indicate that the hydrocarbon effluent mass flow rate on January 25, 2013, February 22, 2013, and March 22, 2013 were 6.67 pounds per day (lbs/day), 4.43 lbs/day, and 1.74 lbs/day, respectively, which is less than the regulatory limit 13.7 lbs/day.

The results of the SVE vapor analyses are summarized on **Table 2**. A copy of the laboratory analytical reports and chain of custody documentation is included in **Appendix A**. Hydrocarbon calculations for the vapor samples are included in **Appendix B**.

MONTHLY GROUNDWATER MONITORING

Earth Systems visited the site on a monthly basis to monitor the operation of the remediation system. A summary of the O&M activities is provided in **Table 4**. Water levels in select monitoring wells were gauged during the field visits. In addition, the



level of dissolved oxygen (DO) and vacuum/pressure in the wells were recorded. Well construction details, water table elevation data, and DO measurements are presented on **Table 5**.

Earth Systems recorded DTW readings on January 25, 2013, February 22, 2013, March 22, 2013, and March 26, 2013 from select monitoring wells. DTW ranged from 11.77 feet BLS in well MW-16 to 13.64 feet BLS in well CW-4 during monthly O&M visits and quarterly the groundwater sampling event.

The DTW readings are provided on **Table 5**. A groundwater elevation contour map from March 26, 2013, is included on **Figure 2**. Groundwater appears to flow generally toward the south.

Earth Systems recorded DO on March 26, 2013 from select monitoring wells following the deactivation of the remediation system. The DO ranged from 0.86 milligrams per liter (mg/l) in well MW-6 to 5.47 mg/l in well MW-7R during the quarterly groundwater sampling event. The DO readings are provided on **Table 5**. The DO readings from March 26, 2013, under static conditions, are contoured on **Figure 3**.

GROUNDWATER SAMPLING

On March 26, 2013, the remediation system was deactivated and groundwater samples were collected from wells CW-1, CW-2, CW-4, MW-5, MW-6, and MW-7R. Prior to collecting groundwater samples, DTW was gauged and samples were inspected for free product. Free product was not encountered in any of the sampled monitoring wells. The wells were purged in accordance with the Florida Department of Environmental Protection (FDEP) groundwater sampling Standard Operating Procedures. Groundwater samples were collected, placed on ice, and delivered to Accutest Laboratories in Orlando, Florida. The groundwater samples were analyzed for BTEX and MTBE by EPA Method 8021B and for Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C.

Groundwater analytical results from the March 26, 2013 sampling event indicate tested compounds were not present at or above FAC Groundwater Cleanup Target Levels (GCTLs) or NADCs in any of the sampled wells except for several non-Naphthalene PAHs detected in wells CW-1 and MW-5. Benzo(a)anthracene (0.063 µg/L), Benzo(b)fluoranthene (0.25 µg/L), and Indeno(1,2,3-cd)pyrene (0.32 µg/L), were detected above their respective GCTLs in the sample collected from well CW-1 and Benzo(b)fluoranthene (0.064 µg/L) was detected above its GCTL in the sample collected from well MW-5.

The laboratory analytical report from this sampling event is included in **Appendix A**. Groundwater sampling logs are provided in **Appendix C** and the laboratory analytical results are summarized on **Table 6**. A map showing the distribution of Benzene, Total BTEX, MTBE, and Total Naphthalenes at the end of the Year 8, Quarter 3 of system operation is included as **Figure 4**.



RECOMMENDATIONS

Results of the Year 8, Quarter 3 sampling event indicate all tested compounds were below GCTLs except for several non-Naphthalene compounds detected in wells CW-1 and MW-5. As discussed with Broward County EPGMD and based on the groundwater sampling results from the previous four quarters of O&M, Earth Systems recommends discontinuing bio-treatments and O&M and transitioning the site to Post Active Remediation Monitoring (PARM). A cost proposal to begin a PARM program will be prepared and forwarded to Broward County EPGMD.

If you have questions concerning the information presented in this report, please contact me at (561) 588-3985.

Sincerely,

EARTH SYSTEMS

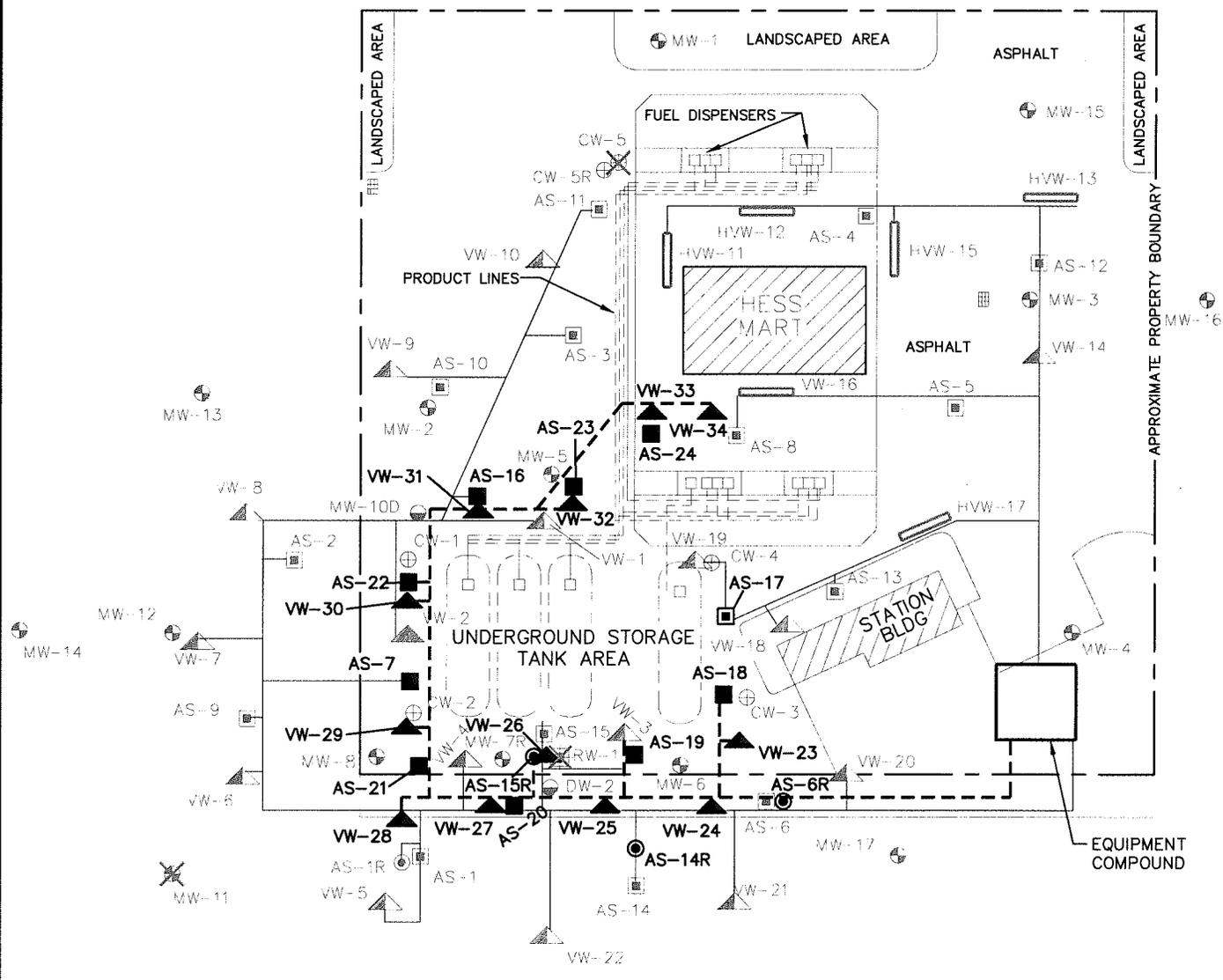

Scott G. Moore, P.E.
Senior Project Manager

cc: Don Bull, Hess Corporation

FIGURES

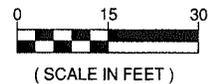


SAMPLE ROAD



LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- DOUBLE-CASED DEEP MONITORING WELL
- COMPLIANCE WELL
- GROUNDWATER RECOVERY WELL (ABANDONED)
- STORM DRAIN
- INACTIVE VERTICAL VE WELL LOCATION
- INACTIVE TRENCH LOCATIONS
- INACTIVE AIR SPARGING WELL LOCATION
- INACTIVE HORIZONTAL VE WELL
- REPLACEMENT INACTIVE AIR SPARGE WELL
- REPLACEMENT ACTIVE AIR SPARGE WELL
- ACTIVE VERTICAL VE WELL LOCATION
- ACTIVE AIR SPARGING WELL LOCATION
- ACTIVE TRENCH LOCATIONS
- INACTIVE TRENCH LOCATIONS

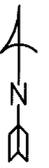


REMEDIATION SYSTEM LAYOUT

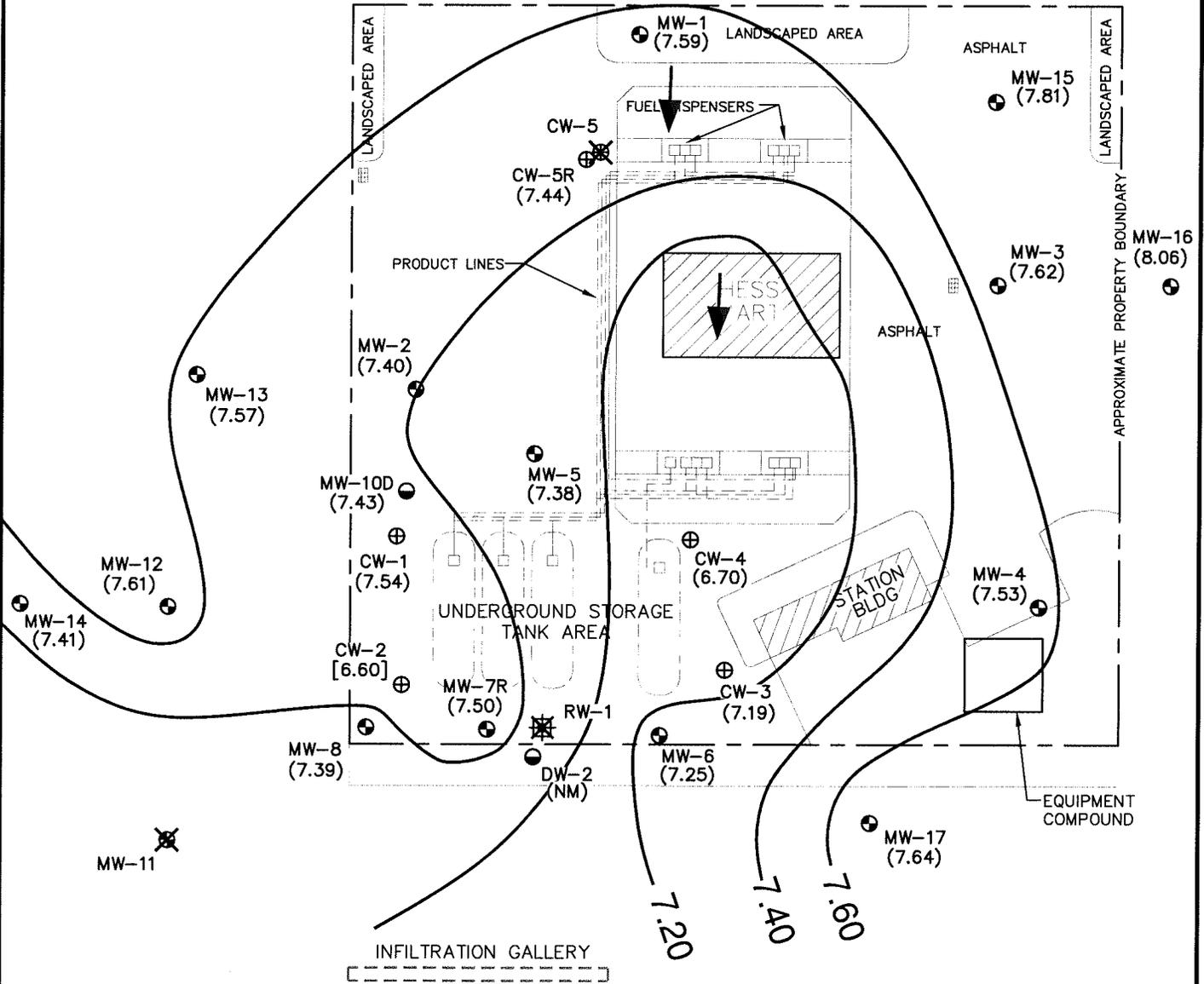
Hess Station No. 09287
 900 East Sample Road
 Pompano Beach, Florida



Figure 1

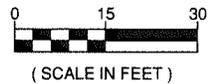


SAMPLE ROAD



LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- DOUBLE-CASED DEEP MONITORING WELL
- COMPLIANCE WELL
- GROUNDWATER RECOVERY WELL (ABANDONED)
- STORM DRAIN
- (8.06) GROUNDWATER ELEVATION (FT.)
- [6.60] DATUM NOT USED IN CONTOUR
- 7.60 GROUNDWATER CONTOUR (FT.)
- DIRECTION OF GROUNDWATER FLOW
- (NM) NOT MEASURED

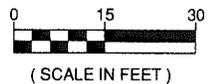
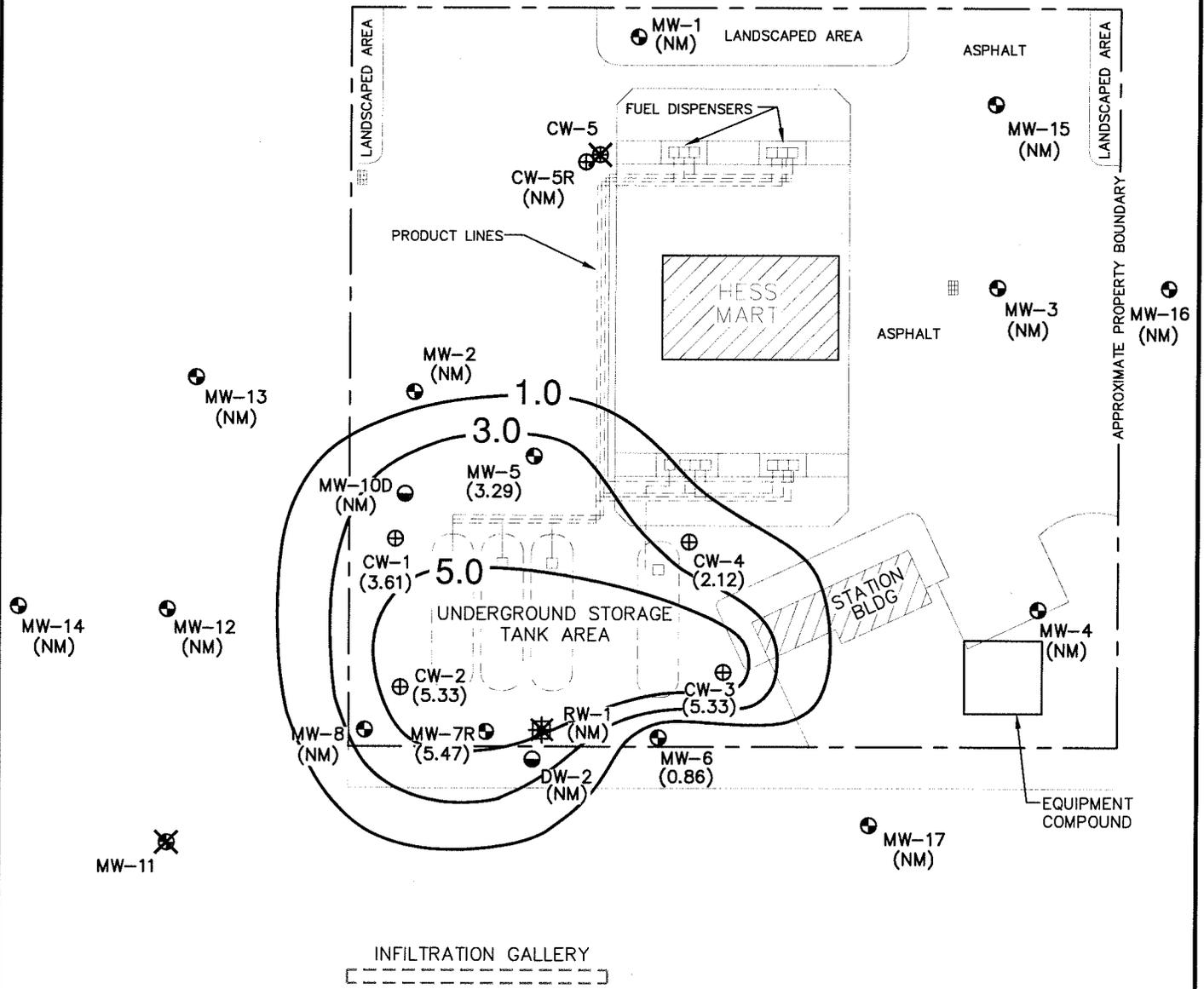


GROUNDWATER FLOW MAP (MARCH 26, 2013)	
Hess Station No. 09287 900 East Sample Road Pompano Beach, Florida	
	Figure 2

04/13 FIG2



SAMPLE ROAD



LEGEND

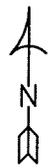
- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- DOUBLE-CASED DEEP MONITORING WELL
- COMPLIANCE WELL
- GROUNDWATER RECOVERY WELL (ABANDONED)
- STORM DRAIN
- (5.47) DISSOLVED OXYGEN READINGS (mg/L)
- (NM) NOT MEASURED

DISSOLVED OXYGEN READINGS (MARCH 26, 2013)

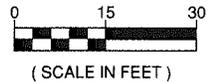
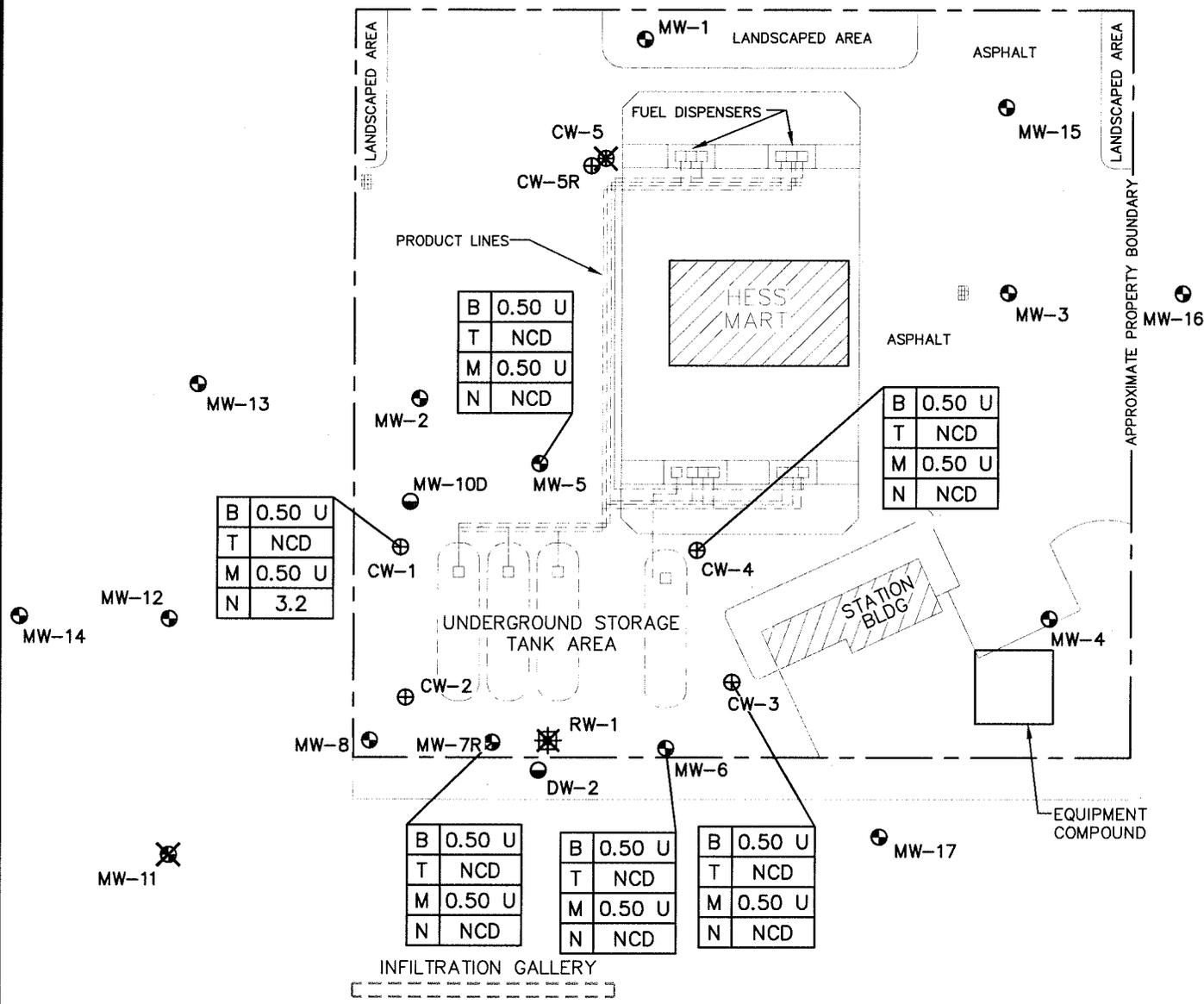
Hess Station No. 09287
900 East Sample Road
Pompano Beach, Florida



Figure 3



SAMPLE ROAD



- LEGEND**
- ⊕ MONITORING WELL LOCATION
 - ⊗ DESTROYED MONITORING WELL LOCATION
 - ⊙ DOUBLE-CASED DEEP MONITORING WELL
 - ⊕ COMPLIANCE WELL
 - ⊗ GROUNDWATER RECOVERY WELL (ABANDONED)
 - ▬ STORM DRAIN
 - B BENZENE (ug/L)
 - T TOTAL BTEX (ug/L)
 - M MTBE (ug/L)
 - N TOTAL NAPHTHALENES (ug/L)
 - NCD NO COMPOUNDS DETECTED
 - U BELOW LAB DETECTION LIMIT

**DISSOLVED
HYDROCARBON MAP
(MARCH 26, 2013)**

Hess Station No. 09287
900 East Sample Road
Pompano Beach, Florida

Earth Systems **Figure 4**

TABLES

TABLE 1: REMEDIAL SYSTEM SUMMARY

Facility Name: Hess Station No. 09287

Facility Address: 900 East Sample Road, Pompano Beach, Florida

FDEP No. 068502103

Startup Date: March 26, 2002

Groundwater Recovery	Not applicable-P&T system dismantled	
Permits (e.g. NPDES, consumptive use)	Not applicable	
Soil Treatment	Total Wells: Vertical wells VW-1 to VW-10, VW-14, VW-18 to VW-22, Horizontal wells HVEW-11, 12, 13, 15, 16, 17	
VES Well ID#	Active Wells: (VW-3, VW-4, VW-18 through VW-21, VW-23 through VW-34)	
Screen Interval	16 vertical wells (screened 5-15 ft BLS), 6 horizontal wells (10-feet of screen installed 3 feet bls)	
Design Flow Rate	300 cfm @ 62 inches of vacuum	
Off Gas Treatment	Two 1,000-lb carbon vessels in series	
Other		
Air Sparging	Total Wells: AS-1 through AS-24	
Sparging Well ID#	Active Wells: (AS-7, AS-14, AS-15, AS-16, AS-17, AS-18, AS-19, AS-20, AS-21, AS-22, AS-23, and AS-24)	
Screen Interval	30 - 35 feet bls	
Design Flow Rate	6 cfm/well (total system sized for 78 cfm @ 11.25 psi)	
Equipment & Specifications (i.e. tower, blower, flowmeter, pumps) Specify usage, type, mfg, and design specifications.		Availability
Control Panel (Brand & List components)	Reitschle DLR250, 15 HP, 3 phase	
Surge Protection (Mfg & Type)	Fuji SD91 vapor extraction blower, 20 HP, 3 phase	
Other	Standard flow meters for sparge wells (24)	
Telemetry (Mfg)	Universal silencers	
	Thermal Transfer Model AA150 Aftercooler	
	Sprecher and Schuh	
	No telemetry	Phone #: NA
SYSTEM HISTORY		
Date	Part Replaced or Modification	
5/13/2002	Carbon replaced	
8/25/2003	Replaced air sparging blowers	
3/26/2004	Carbon replaced	
8/27/2004	Air Sparge compressors repaired. Replaced lovejoy couplers.	
10/6/2004	Replaced Glass Jars on Air Compressor	
10/22/2004	Repaired Knockout Tank	
3/9/2005	Air sparge compressor reinstalled and reactivated.	
5/18/2005	Sparge wells AS-1 and AS-2 indicated no flow on the flowmeters and the valves were turned off	
6/16/2005	The flowmeters associated with AS-1 and AS-2 were maintained and the valves were turned on	
4/17/2006	Begin implementation of the RAPM to focus remediation in the vicinity of the USTs	
5/17/2006	Completed implementation of RAPM	
5/23/2006	Completed installation of replacement air sparge compressor (Reitschle DLR 250)	
9/12/2006	Repaired Leak in AS piping. Removed and capped old SVE manifold.	
3/15/2007	An underground air leak is suspected for sparge well AS-6. EPD agreed to deactivate this well.	
11/29/2007	System shut down. Transition to PARM.	
6/1/2009	System restarted. Transition to O&M.	
11/29/2007	System shut down. Transition to PARM.	
1/4/2012	Carbon replaced. Restarted system.	
1/10/2012	Shut down system for carbon replacement.	
1/25/2012	Carbon replaced. Restarted system.	
9/26/2012	Disconnected carbon.	
11/8/2012	Installed bioapplication ports on manifolds	

TABLE 1: REMEDIAL SYSTEM SUMMARY

Facility Name: Hess Station No. 09287

Facility Address: 900 East Sample Road, Pompano Beach, Florida

FDEP No. 068502103

Startup Date: March 26, 2002

SYSTEM HISTORY (continued)	
11/16/2012	Month 1 bioapplication
11/30/2012	Month 2 bioapplication
12/14/2012	Month 3 bioapplication
1/25/2013	Month 4 bioapplication
2/22/2013	Month 5 bioapplication
3/22/2013	Month 6 bioapplication

TABLE 2: VES SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Facility ID#: 068502103

Sample Location	Sample Date	Hour Meter	Vacuum (in of H2O)	Flow (cfm)	OVA (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	TRPH	
Influent	03/26/02	1	27.2	145	>1000	8.1	35.0	24.0	53.0	120.1	<0.20	6190	
	04/04/02	213	27.2	166	>1000	17.0	87.0	19.0	140.0	263.0	<0.20	4416	
	04/10/02	290	40.1	145.5	>1000	4.8	46.0	9.2	83.0	143.0	<0.20	2273	
	05/16/02	525	23.4	119.4	>1000	18.0	91.0	15.0	140.0	264.0	21.0	7838	
	05/24/02	701	30.2	153.7	>1000	0.68	8.4	1.1	20.0	30.2	<0.20	872	
	06/21/02	1378	36.1	574.1	NM	0.29	4.6	0.53	23	28.4	<0.20	817	
	07/19/02	2042	40.1	745.8	NM	0.32	1.5	<0.05	<0.05	1.8	<0.04	89	
	08/20/02	2812	34.0	529.2	30	<0.03	0.04	<0.05	0.09	0.13	<0.04	48	
	09/20/02	3554	14.0	412.3	0	<0.03	0.04	<0.05	0.18	0.2	<0.04	48	
	10/21/02	4298	15.9	510.1	100	0.45	1.80	<0.05	<0.05	2.3	2.6	276	
	11/14/02	4875	15.1	563.8	50	0.06	0.08	<0.05	0.44	0.58	0.4	66	
	12/18/02	5691	36.0	560.2	50	0.03	0.04	<0.05	0.18	0.25	<0.04	62	
	01/16/03	6388	36.0	605.3	0	0.06	0.08	<0.05	0.70	0.84	0.5	118	
	02/18/03	7179	36.0	558.4	0	0.16	0.19	<0.05	1.40	1.75	<0.04	296	
	03/18/03	7851	36.0	494	10	Influent vapor sampling discontinued due to low vapor levels							
	08/30/04	19712	NM	350	NM	1.00	1.6	0.35	31.00	33.95	1.9	729	
	10/06/04	20239	44.2	300	NM	Influent vapor sample not collected							
	11/10/04	21077	48.0	300	NM	Influent vapor sample not collected							
	12/03/04	21632	48.0	300	NM	0.13	0.7	0.18	1.10	2.06	0.76	62	
	01/27/05	22950	30.0	300	NM	Influent vapor sample not collected							
	02/17/05	23431	30.0	300	NM	Influent vapor sample not collected							
	03/17/05	24013	18.0	300	NM	1.50	2.1	0.26	1.3	5.16	0.51	247	
	04/25/05	25028	30.0	285	NM	Influent vapor sample not collected							
	05/18/05	25580	32.0	290	NM	Influent vapor sample not collected							
	06/16/05*	26277	33.0	320	NM	<0.03	<0.04	<0.05	<0.05	NCD	0.11	7.0	
	07/19/05	27067	22.0	292	NM	Influent vapor sample not collected							
	08/15/05	28507	24.0	280	NM	Influent vapor sample not collected							
	09/27/05	28749	23.0	285	NM	0.42	0.68	0.09	0.61	0.61	2.90	138.0	
	11/02/05	NM	54.0	290	NM	Influent vapor sample not collected							
	11/28/05	29544	47.5	290	NM	Influent vapor sample not collected							
	12/30/05	30708	44.0	290	NM	0.03	0.04	0.05	0.05	0.17	0.15	7.3	
	01/24/06	31308	16.0	290	NM	Influent vapor sample not collected							
	03/01/06	32076	15.0	290	NM	Influent vapor sample not collected							
	03/27/06	32584	15.0	290	NM	<0.19	<0.34	<0.37	<1.24	NCD	<0.15	<0.34	
	04/20/06	33166	18.0	290	NM	Influent vapor sample not collected							
	05/23/06	34034	42.0	360	125	3.1	2.6	4.4	5.5	15.60	<1.0	1800	
	05/24/06	34055	42.0	350	122	Influent vapor sample not collected							
	05/30/06	34196	42.0	320	381	Influent vapor sample not collected							
	06/28/06	34808	42.0	340	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10	
	07/27/06	35347	42.0	340	NM	Influent vapor sample not collected							
	08/20/06	35962	40.0	340	NM	Influent vapor sample not collected							
	09/18/06	36556	40.0	342	0	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10	
	10/18/06	37275	35.0	360	NM	Influent vapor sample not collected							
	11/14/06	37922	46.0	345	13	Influent vapor sample not collected							
	12/18/06	38737	42.0	350	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10	
	01/16/07	39431	40.0	360	NM	Influent vapor sample not collected							
	02/16/07	40175	39.0	342	NM	Influent vapor sample not collected							
	03/15/07	40820	39.0	346	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10	
	04/16/07	41589	39.0	346	NM	Influent vapor sample not collected							
	05/14/07	42185	39.0	346	NM	Influent vapor sample not collected							
	06/15/07	43000	40.0	360	NM	<0.060	0.300	<0.10	<0.51	0.30	<0.31	<12	
	07/17/07	43782	30.0	360	NM	Influent vapor sample not collected							
	08/13/07	44429	13.8	372	NM	Influent vapor sample not collected							
	09/14/07	45196	15.4	342	NM	<0.056	0.202	<0.10	<0.51	0.202	<0.31	<30	
	10/12/07	45866	15.6	360	NM	Influent vapor sample not collected							
	11/14/07	46816	16.1	372	NM	Influent vapor sample not collected							
	11/29/07	47020	14.5	340	NM	2.26	2.00	<0.20	0.975	5.24	18.9	138	

TABLE 2: VES SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Facility ID#: 068502103

Sample Location	Sample Date	Hour Meter	Vacuum (in of H2O)	Flow (cfm)	OVA (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	TRPH
Influent cont.	06/22/09	47140	45.0	360	400	100	29.3	2.92 I	19.0	151	<3.9	24300
	06/29/09	47308	47.0	333	14.3	0.803 I	0.309 I	<0.20	<0.60	1.11	<0.78	108
	07/23/09	47883	45.0	306	NM	Influent vapor sample not collected						
	08/14/09	48409	40.0	324	NM	Influent vapor sample not collected						
	09/08/09	49008	42.0	333	0.7	Influent vapor sample not collected						
	10/07/09	49537	43.0	342	6.3	Influent vapor sample not collected						
	11/03/09	50186	42.0	333	10.2	0.461 I	3.19	0.200 U	0.210 U	3.65	0.780 U	42.5 I
	02/02/10	52368	43.0	324	1.4	0.410 I	1.59	0.200 U	0.210 U	2.00	0.821 I	59.9 I
	04/12/10	53804	48.0	324	5.4	Influent vapor sample not collected						
	05/04/10	54329	47.0	324	7.9	Influent vapor sample not collected						
	05/20/10	54664	46.0	324	1.2	0.811 I	1.54	0.200 U	0.210 U	2.35	0.780 U	35.6 I
	01/04/12	54664	44.0	324	NM	45.4	21	4.3 U	19	85.4	93.4	45100
	01/10/12	54815	45.0	333	NM	0.83 I	1.5 I	0.43 U	1.3 U	2.3	0.54 U	963
	01/25/12	54815	NM	NM	NM	Influent vapor sample not collected						
	01/30/12	54940	43.0	342	933	Influent vapor sample not collected						
	03/01/12	55685	45.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	03/29/12	56355	45.0	333	2.5	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	04/30/12	57118	47.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	06/01/12	57887	49.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	06/28/12	58534	55.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	14 I
	07/30/12	59302	47.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	08/31/12	60066	49.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	37.1
	09/26/12	60690	48.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	44.2
10/31/12	61526	53.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U	
11/29/12	62218	48.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U	
01/02/13	63029	48.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U	
01/25/13	63580	49.0	342	10.8	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	217	
02/22/13	64251	49.0	342	15.6	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	144	
03/22/13	64919	48.0	340	20.4	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	56.8	
Between	03/01/12	55685	45.0	342	8.5	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	245
	03/29/12	56355	45.0	333	14.6	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	181
	04/30/12	57118	47.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	06/01/12	57887	49.0	324	<1	0.35 U	0.38 U	0.43 U	2.4	2.4	0.54 U	2.9 U
	07/30/12	59302	49.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	27

TABLE 2: VES SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Facility ID#: 068502103

Sample Location	Sample Date	Hour Meter	Vacuum (in of H2O)	Flow (cfm)	OVA (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	TRPH
Effluent	03/26/02	0	NM	145	500	0.71	4.20	0.74	16.00	21.65	<0.20	2419
	04/04/02	213	NM	166	250	5.2	2.3	<0.25	2.7	10.20	<0.20	1117
	04/10/02	290	NM	145.5	250	5.8	3.3	0.3	4.8	11.2	<0.20	1198
	05/16/02	525	NM	119.4	0	<0.15	<0.20	<0.25	<0.25	NCD	<0.20	73
	05/24/02	701	NM	153.7	0	<0.03	0.08	<0.05	0.09	0.17	<0.04	72
	06/21/02	1378	NM	574.1	NM	1.5	<0.04	<0.05	<0.05	1.5	<0.04	78
	07/19/02	2042	NM	745.8	NM	<0.03	0.0	<0.05	0.0	0.1	<0.04	32
	08/20/02	2812	NM	529.2	0	0.10	0.72	<0.05	<0.05	0.82	<0.04	82
	09/20/02	3554	NM	412.3	0	0.13	2.40	<0.05	<0.05	2.53	<0.04	79
	10/21/02	4298	NM	510.1	10	0.10	0.72	<0.05	<0.05	0.82	2.4	97
	11/14/02	4875	NM	563.8	0	0.13	0.65	<0.05	<0.05	0.78	<0.04	85
	12/18/02	5691	NM	560.2	0	0.13	0.49	<0.05	<0.05	0.62	<0.04	88
	01/16/03	6388	NM	605.3	0	0.16	0.61	<0.05	<0.05	0.77	0.6	132
	02/18/03	7179	NM	558.4	0	0.23	0.68	<0.05	<0.05	0.91	<0.04	149
	03/18/03	7851	NM	494	10	Effluent vapor sample not collected						
	04/10/03	8404	NM	341.6	5	Effluent vapor sample not collected						
	05/30/03	9592	36	476.5	0	0.16	0.15	<0.05	<0.05	0.31	<0.04	124
	07/09/03	10548	18	592	0	0.03	1.70	0.13	0.22	2.08	4.7	63
	08/25/03	11673	19	634	0	Effluent vapor sample not collected						
	09/22/03	12342	36	648	0	Effluent vapor sample not collected						
	10/24/03	13110	24	665	0	Effluent vapor sample not collected						
	11/19/03	13728	24	695	0	0.06	0.18	<0.05	<0.05	0.24	<0.04	144
	12/15/03	14350	36	420	10	Effluent vapor sample not collected						
	01/16/04	15001	17	427	0	Effluent vapor sample not collected						
	02/12/04	15743	28	419	200	1.00	0.90	0.18	0.39	2.47	62.0	1184
	02/18/04	15886	24	325	150	0.52	0.95	0.26	1.80	3.53	47.0	1404
	03/26/04	15886	NM	341	NM	<0.03	<0.04	<0.05	<0.05	NCD	<0.04	21
	03/30/04	16073	26	360	NM	Effluent vapor sample not collected						
	04/30/04	16790	36	NM	NM	Effluent vapor sample not collected						
	05/25/04	17386	20	290	NM	<0.03	<0.04	<0.05	<0.05	NCD	10.0	81

TABLE 2: VES SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Facility ID#: 068502103

Sample Location	Date	Hour Meter	Vacuum (in of H2O)	Flow (cfm)	OVA (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	TRPH
Effluent cont.	06/21/04	NM	NM	NM	NM	Effluent vapor sample not collected						
	07/29/04	NM	NM	NM	NM	Effluent vapor sample not collected						
	08/30/04	19712	NM	350	NM	0.32	0.65	<0.25	2.00	2.97	2.0	610
	10/06/04	20239	44	300	NM	Effluent vapor sample not collected						
	11/10/04	21077	48	300	NM	Effluent vapor sample not collected						
	12/03/04	21632	48	300	NM	0.10	0.42	0.09	0.79	1.40	0.65	66
	01/27/05	22950	30.0	300	NM	Effluent vapor sample not collected						
	02/17/05	23431	30.0	300	NM	Effluent vapor sample not collected						
	03/17/05	24103	18.0	300	NM	1.0	1.3	0.18	0.88	3.36	1.7	185
	04/25/05	25028	30.0	285	NM	Effluent vapor sample not collected						
	05/18/05	25580	32.0	290	NM	38652.00						
	06/16/05*	26277	33.0	320	NM	<0.03	0.0	0.09	1.1	1.23	1.23	38
	07/19/05	27067	22.0	292	NM	Effluent vapor sample not collected						
	08/15/05	28507	24.0	280	NM	Effluent vapor sample not collected						
	09/27/05	28749	23.0	285	NM	0.13	0.42	0.13	0.26	0.94	2.50	125
	11/02/05	NM	54.0	290	NM	Effluent vapor sample not collected						
	11/28/05	29544	47.5	290	NM	Effluent vapor sample not collected						
	12/30/05	30708	44.0	290	NM	0.03	0.15	0.05	0.09	0.32	0.22	28
	01/24/06	31308	16.0	290	NM	Effluent vapor sample not collected						
	03/01/06	32076	15.0	290	NM	Effluent vapor sample not collected						
	03/27/06	32584	15.0	290	NM	<0.19	<0.34	<0.37	<1.24	NCD	<0.15	9
	04/20/06	33100	18.0	290	NM	Influent vapor sampling not collected						
	05/23/06	34034	42.0	360	125	3.1	2.6	4.4	5.5	15.60	<1.0	1800
	05/24/06	34055	42.0	350	122	Effluent vapor sample not collected						
	05/30/06	34196	42.0	320	1	Effluent vapor sample not collected						
	06/28/06	34808	42.0	340	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10
	07/27/06	35347	42.0	340	NM	Effluent vapor sample not collected						
	08/20/06	35962	40.0	340	NM	Effluent vapor sample not collected						
	09/18/06	36556	40.0	342	2	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10
	10/18/06	37275	35.0	360	NM	Effluent vapor sample not collected						
	11/14/06	37922	46.0	345	8.4	Effluent vapor sample not collected						
	12/18/06	38737	42.0	350	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10
	01/16/07	39431	40.0	360	NM	Effluent vapor sample not collected						
	02/16/07	40175	39.0	342	NM	Effluent vapor sample not collected						
	03/15/07	40820	39.0	346	NM	<1.0	<1.0	<1.0	<1.0	NCD	<1.0	<10
	04/16/07	41589	39.0	346	NM	Effluent vapor sample not collected						
	05/14/07	42185	39.0	346	NM	Effluent vapor sample not collected						
	06/15/07	43000	40.0	360	NM	<0.060	0.290	<0.10	<0.51	0.29	<0.31	<12
	07/17/07	43782	40.0	360	NM	Effluent vapor sample not collected						
	08/13/07	44429	42.0	372	NM	Effluent vapor sample not collected						
09/14/07	45196	45.0	342	NM	<0.31	0.220	<0.10	<0.51	0.220	<0.31	<30	
10/12/07	45866	45.0	360	NM	Effluent vapor sample not collected							
11/14/07	46816	45.0	372	NM	Effluent vapor sample not collected							
11/29/07	47020	46.0	340	NM	2.39	3.93	<0.20	<0.60	6.32	21.3	137	
06/22/09	47140	45.0	360	12.5	0.733 I	1.38	<0.20	<0.60	2.11	<0.78	67.4	
06/29/09	47308	47.0	333	16.8	1.66 1,J	2.67 1,J	0.217 11,J	<0.60 1,J	4.55	<0.78 1,J,2	172	
07/23/09	47883	45.0	306	38.3	Effluent vapor sample not collected							
08/14/09	48409	40.0	324	2.2	Effluent vapor sample not collected							
09/08/09	49008	42.0	333	1.5	Effluent vapor sample not collected							
10/07/09	49537	43.0	342	8.6	Effluent vapor sample not collected							
11/03/09	50186	42.0	333	11.2	Effluent vapor sample not collected							
12/03/09	50905	44.0	333	1.8	Effluent vapor sample not collected							
01/07/10	51743	47.0	324	7.9	Effluent vapor sample not collected							
02/02/10	52368	47.0	324	7.9	0.456 I	1.02 J	0.200 UJ	0.230	1.71	1.48 IJ	64.5 I	
04/12/10	53804	48.0	324	3.8	Effluent vapor sample not collected							
05/04/10	54329	47.0	324	8.6	Effluent vapor sample not collected							

TABLE 2: VES SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Facility ID#: 068502103

Sample Location	Sample Date	Hour Meter	Vacuum (in of H2O)	Flow (cfm)	OVA (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	TRPH
Effluent cont.	05/20/10	54664	46.0	324	3.8	0.706 I	1.01	0.200 U	0.639 I	2.36	0.780 U	40.3
	01/04/12	54664	44.0	324	NM	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	37.4
	01/10/12	59177	45.0	333	NM	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	113
	01/25/12	54815	NM	NM	NM	Effluent vapor sample not collected						
	01/30/12	54940	43.0	342	<1	Effluent vapor sample not collected						
	03/01/12	55685	45.0	342	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	03/29/12	56355	45.0	333	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	04/30/12	57118	47.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	06/01/12	57887	49.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U
	06/28/12	58534	55.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	22
07/30/12	59302	47.0	324	<1	0.35 U	0.38 U	0.43 U	1.3 U	NCD	0.54 U	2.9 U	

*O&M performed on June 16, 2005, Air samples collected June 17, 2005

Analytical Results reported in mg/M3

NCD = No Contaminants Detected

< = U = below detection limit

I = Value is between MDL and PQL

J = Estimated Value

MTBE = Methyl Tert-Butyl Ether

TRPH = Total Recoverable Petroleum Hydrocarbons

NM = Not Measured

1 = NCR -% RPD exceeds control limits

2 = MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-1	AS-2	AS-3	AS-4
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure
1/16/2004	5.0	5.0	1/16/2004	6.0	6.0	1/16/2004	5.0	7.0	1/16/2004	5.0	7.0
2/12/2004	5.0	6.0	2/12/2004	6.0	6.0	2/12/2004	6.0	5.0	2/12/2004	5.0	5.0
3/30/2004	11.0	8.0	3/30/2004	9.0	6.0	3/30/2004	off	off	3/30/2004	off	off
4/30/2004	10.3	6.0	4/30/2004	10.3	6.0	4/30/2004	off	off	4/30/2004	off	off
5/25/2004	11.2	8.0	5/25/2004	8.0	8.0	5/25/2004	off	off	5/25/2004	off	off
6/21/2004	6.8	8.5	6/21/2004	5.8	8.5	6/21/2004	off	off	6/21/2004	off	off
7/29/2004	6.0	8.5	7/29/2004	6.0	8.0	7/29/2004	off	off	7/29/2004	off	off
8/30/2004	7.0	9.0	8/30/2004	7.0	9.0	8/30/2004	off	off	8/30/2004	off	off
10/6/2004	6.0	10.0	10/6/2004	5.0	10.0	10/6/2004	off	off	10/6/2004	off	off
11/10/2004	0.0	0.0	11/10/2004	0.0	0.0	11/10/2004	off	off	11/10/2004	off	off
12/3/2004	0.0	0.0	12/3/2004	0.0	0.0	12/3/2004	off	off	12/3/2004	off	off
1/27/2005	0.0	0.0	1/27/2005	0.0	0.0	1/27/2005	off	off	1/27/2005	off	off
2/17/2005	0.0	0.0	2/17/2005	0.0	0.0	2/17/2005	off	off	2/17/2005	off	off
3/17/2005	6.0	9.0	3/17/2005	5.0	9.0	3/17/2005	off	off	3/17/2005	6.0	6.0
4/25/2005	6.0	9.0	4/25/2005	6.0	9.0	4/25/2005	off	off	4/25/2005	6.0	9.0
5/18/2005	off	off	5/18/2005	off	off	5/18/2005	off	off	5/18/2005	8.0	9.0
6/16/2005	6.0	8.0	6/16/2005	6.0	8.0	6/16/2005	off	off	6/16/2005	6.0	7.0
7/19/2005	5.0	10.0	7/19/2005	5.0	10.0	7/19/2005	off	off	7/19/2005	5.0	9.0
8/17/2005	4.3	9.0	8/17/2005	5.0	9.0	8/17/2005	off	off	8/17/2005	off	off
9/27/2005	4.5	10.0	9/27/2005	4.5	10.0	9/27/2005	off	off	9/27/2005	off	off
11/2/2005	5.0	10.5	11/2/2005	5.0	11.0	11/2/2005	off	off	11/2/2005	5.0	9.0
11/28/2005	5.0	11.0	11/28/2005	2.0	12.0	11/28/2005	off	off	11/28/2005	5.0	8.0
12/30/2005	3.0	9.0	12/30/2005	1.5	11.0	12/30/2005	off	off	12/30/2005	5.0	7.0
1/24/2006	3.4	10.0	1/24/2006	1.5	10.0	1/24/2006	off	off	1/24/2006	5.0	6.5
3/1/2006	compressor failed		3/1/2006	compressor failed		3/1/2006	off	off	3/1/2006	compressor failed	
3/27/2006	compressor failed		3/27/2006	compressor failed		3/27/2006	off	off	3/27/2006	compressor failed	
4/20/2006	compressor failed		4/20/2006	compressor failed		4/20/2006	off	off	4/20/2006	compressor failed	
5/23/2006	off	off	5/23/2006	off	off	5/23/2006	off	off	5/23/2006	off	off
5/24/2006	off	off	5/24/2006	off	off	5/24/2006	off	off	5/24/2006	off	off
5/30/2006	off	off	5/30/2006	off	off	5/30/2006	off	off	5/30/2006	off	off
6/28/2006	off	off	6/28/2006	off	off	6/28/2006	off	off	6/28/2006	off	off
7/27/2006	off	off	7/27/2006	off	off	7/27/2006	off	off	7/27/2006	off	off
8/20/2006	off	off	8/20/2006	off	off	8/20/2006	off	off	8/20/2006	off	off
9/18/2006	off	off	9/18/2006	off	off	9/18/2006	off	off	9/18/2006	off	off
10/18/2006	off	off	10/18/2006	off	off	10/18/2006	off	off	10/18/2006	off	off
11/14/2006	off	off	11/14/2006	off	off	11/14/2006	off	off	11/14/2006	off	off
12/18/2006	off	off	12/18/2006	off	off	12/18/2006	off	off	12/18/2006	off	off
1/16/2007	off	off	1/16/2007	off	off	1/16/2007	off	off	1/16/2007	off	off
2/16/2007	off	off	2/16/2007	off	off	2/16/2007	off	off	2/16/2007	off	off
3/15/2007	off	off	3/15/2007	off	off	3/15/2007	off	off	3/15/2007	off	off
4/16/2007	off	off	4/16/2007	off	off	4/16/2007	off	off	4/16/2007	off	off
5/14/2007	off	off	5/14/2007	off	off	5/14/2007	off	off	5/14/2007	off	off
6/14/2007	off	off	6/14/2007	off	off	6/14/2007	off	off	6/14/2007	off	off
7/17/2007	off	off	7/17/2007	off	off	7/17/2007	off	off	7/17/2007	off	off
8/13/2007	off	off	8/13/2007	off	off	8/13/2007	off	off	8/13/2007	off	off
9/14/2007	off	off	9/14/2007	off	off	9/14/2007	off	off	9/14/2007	off	off
10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off
11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off
11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-1 (cont.)	AS-2 (cont.)	AS-3 (cont.)	AS-4 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

| Date | Flow | Pressure |
|------------|------|----------|------------|------|----------|------------|------|----------|------------|------|----------|
| 6/22/2009 | off | off |
| 6/29/2009 | off | off |
| 7/23/2009 | off | off |
| 8/14/2009 | off | off |
| 9/8/2009 | off | off |
| 10/7/2009 | off | off |
| 11/3/2009 | off | off |
| 12/3/2009 | off | off |
| 1/7/2010 | off | off |
| 2/2/2010 | off | off |
| 4/12/2010 | off | off |
| 5/4/2010 | off | off |
| 5/20/2010 | off | off |
| 1/30/2012 | off | off |
| 3/1/2012 | off | off |
| 3/29/2012 | off | off |
| 4/30/2012 | off | off |
| 6/1/2012 | off | off |
| 6/28/2012 | off | off |
| 7/30/2012 | off | off |
| 8/31/2012 | off | off |
| 9/26/2012 | off | off |
| 10/31/2012 | off | off |
| 11/29/2012 | off | off |
| 1/2/2013 | off | off |
| 1/25/2013 | off | off |
| 2/22/2013 | off | off |
| 3/22/2013 | off | off |

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-5	AS-6	AS-7	AS-8
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure
1/16/2004	4.0	6.0	1/16/2004	5.0	6.0	1/16/2004	5.0	7.0	1/16/2004	6.0	7.0
2/12/2004	5.0	6.0	2/12/2004	6.0	6.0	2/12/2004	6.0	6.0	2/12/2004	5.0	7.0
10/6/2004	off	off	10/6/2004	9.0	5.0	10/6/2004	11.0	5.0	10/6/2004	off	off
11/10/2004	off	off	11/10/2004	9.4	6.0	11/10/2004	10.3	6.0	11/10/2004	off	off
12/3/2004	off	off	12/3/2004	broken well		12/3/2004	11.2	7.5	12/3/2004	off	off
6/21/2004	off	off	6/21/2004	off	off	6/21/2004	6.8	8.5	6/21/2004	off	off
7/29/2004	off	off	7/29/2004	off	off	7/29/2004	6.0	8.0	7/29/2004	off	off
8/30/2004	off	off	8/30/2004	off	off	8/30/2004	7.0	9.0	8/30/2004	off	off
10/6/2004	off	off	10/6/2004	6.0	8.0	10/6/2004	6.0	10.0	10/6/2004	off	off
11/10/2004	off	off	11/10/2004	off	off	11/10/2004	0.0	0.0	11/10/2004	off	off
12/3/2004	off	off	12/3/2004	off	off	12/3/2004	0.0	0.0	12/3/2004	off	off
1/27/2005	off	off	1/27/2005	off	off	1/27/2005	0.0	0.0	1/27/2005	off	off
2/17/2005	off	off	2/17/2005	off	off	2/17/2005	0.0	0.0	2/17/2005	off	off
3/17/2005	off	off	3/17/2005	6.0	7.0	3/17/2005	6.0	7.0	3/17/2005	off	off
4/25/2005	off	off	4/25/2005	6.0	9.0	4/25/2005	6.0	9.0	4/25/2005	off	off
5/18/2005	off	off	5/18/2005	8.0	9.0	5/18/2005	8.0	9.0	5/18/2005	off	off
6/16/2005	off	off	6/16/2005	6.0	4.5	6/16/2005	6.0	6.0	6/16/2005	off	off
7/19/2005	5.0	6.0	7/19/2005	5.0	6.0	7/19/2005	5.0	6.0	7/19/2005	off	off
8/17/2005	off	off	8/17/2005	6.0	6.0	8/17/2005	6.5	6.0	8/17/2005	off	off
9/27/2005	off	off	9/27/2005	6.0	6.0	9/27/2005	6.0	6.0	9/27/2005	off	off
11/2/2005	off	off	11/2/2005	5.0	9.0	11/2/2005	5.0	9.0	11/2/2005	off	off
11/28/2005	off	off	11/28/2005	6.0	5.0	11/28/2005	5.0	7.0	11/28/2005	off	off
12/30/2005	off	off	12/30/2005	5.0	4.5	12/30/2005	5.0	7.0	12/30/2005	off	off
1/24/2006	off	off	1/24/2006	4.0	6.0	1/24/2006	5.0	6.0	1/24/2006	off	off
3/1/2006	off	off	3/1/2006	compressor failed		3/1/2006	compressor failed		3/1/2006	off	off
3/27/2006	off	off	3/27/2006	compressor failed		3/27/2006	compressor failed		3/27/2006	off	off
4/20/2006	off	off	4/20/2006	compressor failed		4/20/2006	compressor failed		4/20/2006	off	off
5/23/2006	off	off	5/23/2006	7.0	5.0	5/23/2006	7.0	5.0	5/23/2006	off	off
5/24/2006	off	off	5/24/2006	7.0	5.0	5/24/2006	7.0	5.0	5/24/2006	off	off
5/30/2006	off	off	5/30/2006	6.0	8.0	5/30/2006	5.0	8.0	5/30/2006	off	off
6/28/2006	off	off	6/28/2006	8.0	10.0	6/28/2006	8.0	10.0	6/28/2006	off	off
7/27/2006	off	off	7/27/2006	3.0	NM	7/27/2006	3.0	5.5	7/27/2006	off	off
8/20/2006	off	off	8/20/2006	2.0	NM	8/20/2006	2.0	9.0	8/20/2006	off	off
9/18/2006	off	off	9/18/2006	5.4	NM	9/18/2006	5.6	9.0	9/18/2006	off	off
10/18/2006	off	off	10/18/2006	6.0	10.0	10/18/2006	7.0	10.0	10/18/2006	off	off
11/14/2006	off	off	11/14/2006	6.0	10.0	11/14/2006	5.0	7.0	11/14/2006	off	off
12/18/2006	off	off	12/18/2006	4.0	12.0	12/18/2006	5.0	10.0	12/18/2006	off	off
1/16/2007	off	off	1/16/2007	5.0	7.0	1/16/2007	6.0	7.0	1/16/2007	off	off
2/16/2007	off	off	2/16/2007	NM	2.0	2/16/2007	6.4	9.0	2/16/2007	off	off
3/15/2007	off	off	3/15/2007	off	off	3/15/2007	4.3	7.0	3/15/2007	off	off
4/16/2007	off	off	4/16/2007	off	off	4/16/2007	4.3	7.0	4/16/2007	off	off
5/14/2007	off	off	5/14/2007	off	off	5/14/2007	4.3	7.0	5/14/2007	off	off
6/14/2007	off	off	6/14/2007	off	off	6/14/2007	5.0	8.0	6/14/2007	off	off
7/17/2007	off	off	7/17/2007	off	off	7/17/2007	5.0	8.0	7/17/2007	off	off
8/13/2007	off	off	8/13/2007	off	off	8/13/2007	NM	NM	8/13/2007	off	off
9/14/2007	off	off	9/14/2007	off	off	9/14/2007	NM	NM	9/14/2007	off	off
10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off
11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off
11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-5 (cont.)	AS-6 (cont.)	AS-7 (cont.)	AS-8 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure									
6/22/2009	off	off	6/22/2009	off	off	6/22/2009	5.0	10.0	6/22/2009	off	off
6/29/2009	off	off	6/29/2009	off	off	6/29/2009	5.0	10.0	6/29/2009	off	off
7/23/2009	off	off	7/23/2009	off	off	6/22/2009	5.5	10.0	6/22/2009	off	off
8/14/2009	off	off	8/14/2009	off	off	8/14/2009	5.0	10.0	8/14/2009	off	off
9/8/2009	off	off	9/8/2009	off	off	9/8/2009	5.0	11.0	9/8/2009	off	off
10/7/2009	off	off	10/7/2009	off	off	10/7/2009	5.4	11.0	10/7/2009	off	off
11/3/2009	off	off	11/3/2009	off	off	11/3/2009	5.2	11.0	11/3/2009	off	off
12/3/2009	off	off	12/3/2009	off	off	12/3/2009	NM	NM	12/3/2009	off	off
1/7/2010	off	off	1/7/2010	off	off	1/7/2010	NM	NM	1/7/2010	off	off
2/2/2010	off	off	2/2/2010	off	off	2/2/2010	NM	NM	2/2/2010	off	off
4/12/2010	off	off	4/12/2010	off	off	4/12/2010	5.1	10.0	4/12/2010	off	off
5/4/2010	off	off	5/4/2010	off	off	5/4/2010	5.2	11.0	5/4/2010	off	off
5/20/2010	off	off	5/20/2010	off	off	5/20/2010	5.0	10.0	5/20/2010	off	off
1/30/2012	off	off	1/30/2012	off	off	1/30/2012	4.8	10.0	1/30/2012	off	off
3/1/2012	off	off	3/1/2012	off	off	3/1/2012	6.0	10.0	3/1/2012	off	off
3/29/2012	off	off	3/29/2012	off	off	3/29/2012	6.0	10.0	3/29/2012	off	off
4/30/2012	off	off	4/30/2012	off	off	4/30/2012	5.2	10.0	4/30/2012	off	off
6/1/2012	off	off	6/1/2012	off	off	6/1/2012	5.2	11.5	6/1/2012	off	off
6/28/2012	off	off	6/28/2012	off	off	6/28/2012	5.6	12.0	6/28/2012	off	off
7/30/2012	off	off	7/30/2012	off	off	7/30/2012	6.0	11.5	7/30/2012	off	off
8/31/2012	off	off	8/31/2012	off	off	8/31/2012	6.0	11.5	8/31/2012	off	off
9/26/2012	off	off	9/26/2012	off	off	9/26/2012	6.0	11.5	9/26/2012	off	off
10/31/2012	off	off	10/31/2012	off	off	10/31/2012	6.0	11.5	10/31/2012	off	off
11/29/2012	off	off	11/29/2012	off	off	11/29/2012	6.0	11.0	11/29/2012	off	off
1/2/2013	off	off	1/2/2013	off	off	1/2/2013	6.6	10.0	1/2/2013	off	off
1/25/2013	off	off	1/25/2013	off	off	1/25/2013	6.6	10.0	1/25/2013	off	off
2/22/2013	off	off	2/22/2013	off	off	2/22/2013	6.5	10.0	2/22/2013	off	off
3/22/2013	off	off	3/22/2013	off	off	3/22/2013	6.6	9.5	3/22/2013	off	off

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-9	AS-10	AS-11	AS-12
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure
1/16/2004	6.0	7.0	1/16/2004	6.0	8.0	1/16/2004	6.0	8.0	1/16/2004	5.0	9.0
2/12/2004	5.0	6.0	2/12/2004	6.0	7.0	2/12/2004	6.0	10.0	2/12/2004	5.0	10.0
10/6/2004	off	off	10/6/2004	11.0	5.0	10/6/2004	off	off	10/6/2004	off	off
11/10/2004	off	off	11/10/2004	11.3	needs gauge	11/10/2004	off	off	11/10/2004	off	off
12/3/2004	off	off	12/3/2004	9.3	9.0	12/3/2004	off	off	12/3/2004	off	off
6/21/2004	off	off	6/21/2004	off	off	6/21/2004	off	off	6/21/2004	off	off
7/29/2004	off	off	7/29/2004	off	off	7/29/2004	off	off	7/29/2004	off	off
8/30/2004	off	off	8/30/2004	off	off	8/30/2004	off	off	8/30/2004	off	off
10/6/2004	off	off	10/6/2004	off	off	10/6/2004	off	off	10/6/2004	off	off
11/10/2004	off	off	11/10/2004	off	off	11/10/2004	off	off	11/10/2004	off	off
12/3/2004	off	off	12/3/2004	off	off	12/3/2004	off	off	12/3/2004	off	off
1/27/2005	off	off	1/27/2005	off	off	1/27/2005	off	off	1/27/2005	off	off
2/17/2005	off	off	2/17/2005	off	off	2/17/2005	off	off	2/17/2005	off	off
3/17/2005	off	off	3/17/2005	off	off	3/17/2005	off	off	3/17/2005	off	off
4/25/2005	off	off	4/25/2005	off	off	4/25/2005	off	off	4/25/2005	off	off
5/18/2005	off	off	5/18/2005	off	off	5/18/2005	off	off	5/18/2005	off	off
6/16/2005	off	off	6/16/2005	off	off	6/16/2005	off	off	6/16/2005	off	off
7/19/2005	off	off	7/19/2005	off	off	7/19/2005	off	off	7/19/2005	off	off
8/17/2005	off	off	8/17/2005	off	off	8/17/2005	off	off	8/17/2005	off	off
9/27/2005	off	off	9/27/2005	off	off	9/27/2005	off	off	9/27/2005	off	off
11/2/2005	off	off	11/2/2005	off	off	11/2/2005	off	off	11/2/2005	off	off
11/28/2005	off	off	11/28/2005	off	off	11/28/2005	off	off	11/28/2005	off	off
12/30/2005	off	off	12/30/2005	off	off	12/30/2005	off	off	12/30/2005	off	off
1/24/2006	off	off	1/24/2006	off	off	1/24/2006	off	off	1/24/2006	off	off
3/1/2006	off	off	3/1/2006	off	off	3/1/2006	off	off	3/1/2006	off	off
3/27/2006	off	off	3/27/2006	off	off	3/27/2006	off	off	3/27/2006	off	off
4/20/2006	off	off	4/20/2006	off	off	4/20/2006	off	off	4/20/2006	off	off
5/23/2006	off	off	5/23/2006	off	off	5/23/2006	off	off	5/23/2006	off	off
5/24/2006	off	off	5/24/2006	off	off	5/24/2006	off	off	5/24/2006	off	off
5/30/2006	off	off	5/30/2006	off	off	5/30/2006	off	off	5/30/2006	off	off
6/28/2006	off	off	6/28/2006	off	off	6/28/2006	off	off	6/28/2006	off	off
7/27/2006	off	off	7/27/2006	off	off	7/27/2006	off	off	7/27/2006	off	off
8/20/2006	off	off	8/20/2006	off	off	8/20/2006	off	off	8/20/2006	off	off
9/18/2006	off	off	9/18/2006	off	off	9/18/2006	off	off	9/18/2006	off	off
10/18/2006	off	off	10/18/2006	off	off	10/18/2006	off	off	10/18/2006	off	off
11/14/2006	off	off	11/14/2006	off	off	11/14/2006	off	off	11/14/2006	off	off
12/18/2006	off	off	12/18/2006	off	off	12/18/2006	off	off	12/18/2006	off	off
1/16/2007	off	off	1/16/2007	off	off	1/16/2007	off	off	1/16/2007	off	off
2/16/2007	off	off	2/16/2007	off	off	2/16/2007	off	off	2/16/2007	off	off
3/15/2007	off	off	3/15/2007	off	off	3/15/2007	off	off	3/15/2007	off	off
4/16/2007	off	off	4/16/2007	off	off	4/16/2007	off	off	4/16/2007	off	off
5/14/2007	off	off	5/14/2007	off	off	5/14/2007	off	off	5/14/2007	off	off
6/14/2007	off	off	6/14/2007	off	off	6/14/2007	off	off	6/14/2007	off	off
7/17/2007	off	off	7/17/2007	off	off	7/17/2007	off	off	7/17/2007	off	off
8/13/2007	off	off	8/13/2007	off	off	8/13/2007	off	off	8/13/2007	off	off
9/14/2007	off	off	9/14/2007	off	off	9/14/2007	off	off	9/14/2007	off	off
10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off	10/12/2007	off	off
11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off	11/14/2007	off	off
11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off	11/29/2007	off	off

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-9 (cont.)	AS-10 (cont.)	AS-11 (cont.)	AS-12 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

| Date | Flow | Pressure |
|------------|------|----------|------------|------|----------|------------|------|----------|------------|------|----------|
| 6/22/2009 | off | off |
| 6/29/2009 | off | off |
| 7/23/2009 | off | off |
| 8/14/2009 | off | off |
| 9/8/2009 | off | off |
| 10/7/2009 | off | off |
| 11/3/2009 | off | off |
| 12/3/2009 | off | off |
| 1/7/2010 | off | off |
| 2/2/2010 | off | off |
| 4/12/2010 | off | off |
| 5/4/2010 | off | off |
| 5/20/2010 | off | off |
| 1/30/2012 | off | off |
| 3/1/2012 | off | off |
| 3/29/2012 | off | off |
| 4/30/2012 | off | off |
| 6/1/2012 | off | off |
| 6/28/2012 | off | off |
| 7/30/2012 | off | off |
| 8/31/2012 | off | off |
| 9/26/2012 | off | off |
| 10/31/2012 | off | off |
| 11/29/2012 | off | off |
| 1/2/2013 | off | off |
| 1/25/2013 | off | off |
| 2/22/2013 | off | off |
| 3/22/2013 | off | off |

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-13	AS-14	AS-15	AS-16
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure
1/16/2004	5.0	9.0	1/16/2004	6.0	9.0	1/16/2004	6.0	10.0	1/16/2004	5.0	10.0
2/12/2004	5.0	9.0	2/12/2004	6.0	10.0	2/12/2004	5.0	7.0	2/12/2004	6.0	6.0
10/6/2004	off	off	10/6/2004	12.0	5.0	10/6/2004	13.0	6.0	10/6/2004	13.0	needs gauge
11/10/2004	off	off	11/10/2004	11.3	7.0	11/10/2004	11.3	6.0	11/10/2004	11.3	needs gauge
12/3/2004	off	off	12/3/2004	11.2	8.0	12/3/2004	11.2	9.0	12/3/2004	11.2	9.0
6/21/2004	off	off	6/21/2004	6.6	7.0	6/21/2004	6.6	8.5	6/21/2004	6.2	8.5
7/29/2004	off	off	7/29/2004	6.0	8.0	7/29/2004	7.0	8.5	7/29/2004	6.0	8.5
8/30/2004	off	off	8/30/2004	7.0	9.0	8/30/2004	5.0	9.0	8/30/2004	7.0	9.0
10/6/2004	off	off	10/6/2004	7.0	10.0	10/6/2004	7.0	10.0	10/6/2004	6.0	9.0
11/10/2004	off	off	11/10/2004	0.0	0.0	11/10/2004	0.0	0.0	11/10/2004	0.0	0.0
12/3/2004	off	off	12/3/2004	0.0	0.0	12/3/2004	0.0	0.0	12/3/2004	0.0	0.0
1/27/2005	off	off	1/27/2005	0.0	0.0	1/27/2005	0.0	0.0	1/27/2005	0.0	0.0
2/17/2005	off	off	2/17/2005	0.0	0.0	2/17/2005	0.0	0.0	2/17/2005	0.0	0.0
3/17/2005	off	off	3/17/2005	6.0	9.0	3/17/2005	6.0	9.0	3/17/2005	6.0	9.0
4/25/2005	off	off	4/25/2005	6.0	9.0	4/25/2005	6.0	9.0	4/25/2005	6.0	9.0
5/18/2005	off	off	5/18/2005	8.0	7.0	5/18/2005	7.0	10.0	5/18/2005	7.0	10.0
6/16/2005	off	off	6/16/2005	6.0	8.5	6/16/2005	6.0	10.0	6/16/2005	6.0	10.0
7/19/2005	off	off	7/19/2005	5.0	10.0	7/19/2005	5.0	10.0	7/19/2005	5.0	10.0
8/17/2005	off	off	8/17/2005	6.0	6.0	8/17/2005	6.0	6.0	8/17/2005	6.0	6.0
9/27/2005	off	off	9/27/2005	6.0	6.0	9/27/2005	6.0	6.0	9/27/2005	5.0	6.0
11/2/2005	off	off	11/2/2005	5.0	12.0	11/2/2005	5.0	12.0	11/2/2005	5.0	12.0
11/28/2005	off	off	11/28/2005	5.0	12.0	11/28/2005	5.0	12.0	11/28/2005	5.0	12.0
12/30/2005	off	off	12/30/2005	5.5	11.0	12/30/2005	5.0	11.0	12/30/2005	5.5	11.0
1/24/2006	off	off	1/24/2006	5.0	9.0	1/24/2006	5.0	10.0	1/24/2006	5.0	10.0
3/1/2006	off	off	3/1/2006	compressor failed		3/1/2006	compressor failed		3/1/2006	compressor failed	
3/27/2006	off	off	3/27/2006	compressor failed		3/27/2006	compressor failed		3/27/2006	compressor failed	
4/20/2006	off	off	4/20/2006	compressor failed		4/20/2006	compressor failed		4/20/2006	compressor failed	
5/23/2006	off	off	5/23/2006	6.0	10.0	5/23/2006	6.0	10.0	5/23/2006	6.0	10.0
5/24/2006	off	off	5/24/2006	7.0	10.0	5/24/2006	7.0	10.0	5/24/2006	7.0	10.0
5/30/2006	off	off	5/30/2006	7.0	9.0	5/30/2006	7.0	10.0	5/30/2006	7.0	10.0
6/28/2006	off	off	6/28/2006	7.0	10.0	6/28/2006	7.0	10.0	6/28/2006	7.0	10.0
7/27/2006	off	off	7/27/2006	3.0	9.0	7/27/2006	3.8	10.0	7/27/2006	3.0	10.0
8/20/2006	off	off	8/20/2006	1.0	10.0	8/20/2006	2.0	10.0	8/20/2006	2.0	10.0
9/18/2006	off	off	9/18/2006	7.2	10.0	9/18/2006	5.8	11.0	9/18/2006	5.4	11.0
10/18/2006	off	off	10/18/2006	6.0	8.0	10/18/2006	6.0	10.0	10/18/2006	5.0	10.0
11/14/2006	off	off	11/14/2006	6.0	9.5	11/14/2006	6.0	11.0	11/14/2006	6.0	10.0
12/18/2006	off	off	12/18/2006	6.0	10.0	12/18/2006	6.0	10.0	12/18/2006	6.0	10.0
1/16/2007	off	off	1/16/2007	4.0	10.0	1/16/2007	4.0	10.0	1/16/2007	4.0	10.0
2/16/2007	off	off	2/16/2007	5.4	10.5	2/16/2007	6.0	11.0	2/16/2007	4.8	10.0
3/15/2007	off	off	3/15/2007	4.0	9.0	3/15/2007	4.3	10.0	3/15/2007	4.0	10.0
4/16/2007	off	off	4/16/2007	4.0	9.0	4/16/2007	4.4	10.0	4/16/2007	4.0	10.0
5/14/2007	off	off	5/14/2007	4.0	8.5	5/14/2007	4.5	10.0	5/14/2007	4.0	10.0
6/14/2007	off	off	6/14/2007	5.0	10.0	6/14/2007	6.0	10.0	6/14/2007	5.0	10.0
7/17/2007	off	off	7/17/2007	5.0	10.0	7/17/2007	6.0	10.0	7/17/2007	5.0	10.0
8/13/2007	off	off	8/13/2007	5.0	11.0	8/13/2007	4.0	9.0	8/13/2007	5.0	7.0
9/14/2007	off	off	9/14/2007	5.5	9.0	9/14/2007	6.0	10.0	9/14/2007	5.5	11.0
10/12/2007	off	off	10/12/2007	5.5	9.0	10/12/2007	6.0	10.0	10/12/2007	5.0	11.0
11/14/2007	off	off	11/14/2007	6.0	9.0	11/14/2007	6.0	11.0	11/14/2007	5.0	11.0
11/29/2007	off	off	11/29/2007	6.0	10.5	11/29/2007	5.0	11.0	11/29/2007	6.0	12.0

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-13 (cont.)	AS-14 (cont.)	AS-15 (cont.)	AS-16 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure									
6/22/2009	off	off	6/22/2009	6.0	10.0	6/22/2009	5.0	10.5	6/22/2009	6.0	10.5
6/29/2009	off	off	6/29/2009	6.0	10.0	6/29/2009	5.0	11.0	6/29/2009	5.0	12.0
7/23/2009	off	off	7/23/2009	5.0	9.0	7/23/2009	4.6	11.0	7/23/2009	5.0	12.0
8/14/2009	off	off	8/14/2009	5.5	9.5	8/14/2009	5.0	11.0	8/14/2009	5.0	12.0
9/8/2009	off	off	9/8/2009	6.0	10.0	9/8/2009	5.0	11.0	9/8/2009	5.0	13.0
10/7/2009	off	off	10/7/2009	4.5	9.5	10/7/2009	5.6	12.0	10/7/2009	5.0	13.0
11/3/2009	off	off	11/3/2009	5.0	10.0	11/3/2009	5.6	10.5	11/3/2009	5.0	11.5
12/3/2009	off	off	12/3/2009	6.2	9.5	12/3/2009	5.2	11.0	12/3/2009	5.0	12.0
1/7/2010	off	off	1/7/2010	6.0	11.5	1/7/2010	5.0	11.5	1/7/2010	5.4	11.0
2/2/2010	off	off	2/2/2010	6.0	11.5	2/2/2010	5.0	10.5	2/2/2010	5.4	10.0
4/12/2010	off	off	4/12/2010	5.2	11.0	4/12/2010	6.0	11.0	4/12/2010	5.8	11.5
5/4/2010	off	off	5/4/2010	5.0	10.0	5/4/2010	5.2	12.0	5/4/2010	5.2	12.0
5/20/2010	off	off	5/20/2010	5.0	9.5	5/20/2010	5.2	11.0	5/20/2010	5.0	11.5
1/30/2012	off	off	1/30/2012	3.8	9.0	1/30/2012	3.6	10.5	1/30/2012	3.2	10.0
3/1/2012	off	off	3/1/2012	5.4	9.0	3/1/2012	5.4	11.0	3/1/2012	5.8	11.0
3/29/2012	off	off	3/29/2012	5.4	10.0	3/29/2012	5.2	11.0	3/29/2012	6.0	11.0
4/30/2012	off	off	4/30/2012	6.0	10.0	4/30/2012	5.2	11.0	4/30/2012	5.0	NM
6/1/2012	off	off	6/1/2012	5.8	10.0	6/1/2012	5.0	12.0	6/1/2012	5.0	NM
6/28/2012	off	off	6/28/2012	6.0	11.0	6/28/2012	5.6	12.5	6/28/2012	5.6	NM
7/30/2012	off	off	7/30/2012	6.0	11.0	7/30/2012	5.4	12.0	7/30/2012	6.0	NM
8/31/2012	off	off	8/31/2012	6.0	11.0	8/31/2012	6.0	10.0	8/31/2012	6.0	NM
9/26/2012	off	off	9/26/2012	6.0	11.0	9/26/2012	6.0	12.0	9/26/2012	6.4	NM
10/31/2012	off	off	10/31/2012	6.0	9.5	10/31/2012	6.0	11.0	10/31/2012	6.0	NM
11/29/2012	off	off	11/29/2012	6.0	10.0	11/29/2012	6.0	12.0	11/29/2012	6.0	NM
1/2/2013	off	off	1/2/2013	7.0	10.0	1/2/2013	6.8	11.0	1/2/2013	6.4	NM
1/25/2013	off	off	1/25/2013	6.4	9.5	1/25/2013	6.6	11.0	1/25/2013	6.6	10.0
2/22/2013	off	off	2/22/2013	6.0	10.0	2/22/2013	6.5	11.0	2/22/2013	6.0	9.5
3/22/2013	off	off	3/22/2013	6.4	9.0	3/22/2013	6.0	11.0	3/22/2013	6.2	9.5

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Pressure = pounds per square inch
 Flow = cubic feet per minute

WELL NO.	AS-17	AS-18	AS-19	AS-20
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure	Date	Flow	Pressure
1/16/2004	6.0	9.0									
2/12/2004	5.0	5.0									
10/6/2004	11.0	needs gauge									
11/10/2004	11.3	needs gauge									
12/3/2004	11.2	9.0									
6/21/2004	6.5	8.5									
7/29/2004	5.7	9.0									
8/30/2004	7.0	9.0									
10/6/2004	6.0	10.0									
11/10/2004	0.0	0.0									
12/3/2004	0.0	0.0									
1/27/2005	0.0	0.0									
2/17/2005	0.0	0.0									
3/17/2005	6.0	9.0									
4/25/2005	6.0	9.0									
5/18/2005	7.0	9.0									
6/16/2005	6.0	12.0									
7/19/2005	5.0	10.0									
8/17/2005	6.0	6.0									
9/27/2005	6.0	6.0									
11/2/2005	5.0	12.0									
11/28/2005	5.0	12.0									
12/30/2005	5.5	12.0									
1/24/2006	5.0	11.5									
3/1/2006	compressor failed										
3/27/2006	compressor failed										
4/20/2006	compressor failed										
5/23/2006	6.0	10.0	5/23/2006	7.0	8.0	5/23/2006	7.0	8.0	5/23/2006	7.0	8.0
5/24/2006	7.0	10.0	5/24/2006	7.0	7.5	5/24/2006	7.0	7.5	5/24/2006	7.0	7.0
5/30/2006	7.0	10.0	5/30/2006	7.0	9.0	5/30/2006	7.0	8.0	5/30/2006	7.0	7.5
6/28/2006	7.0	10.0	6/28/2006	8.0	7.5	6/28/2006	8.0	7.0	6/28/2006	8.0	7.0
7/27/2006	3.8	10.0	7/27/2006	4.2	9.0	7/27/2006	4.6	8.5	7/27/2006	3.0	9.0
8/20/2006	2.0	10.0	8/20/2006	1.0	9.0	8/20/2006	2.0	9.0	8/20/2006	0.0	8.5
9/18/2006	5.6	11.0	9/18/2006	6.6	9.5	9/18/2006	7.6	9.0	9/18/2006	8.4	8.5
10/18/2006	6.0	10.0	10/18/2006	9.0	7.0	10/18/2006	8.0	7.0	10/18/2006	9.0	9.0
11/14/2006	6.0	11.0	11/14/2006	8.0	9.0	11/14/2006	8.0	9.0	11/14/2006	8.0	9.0
12/18/2006	6.0	10.0	12/18/2006	9.0	10.0	12/18/2006	9.0	10.0	12/18/2006	9.0	10.0
1/16/2007	5.0	9.0	1/16/2007	8.0	7.0	1/16/2007	7.0	7.0	1/16/2007	7.0	7.0
2/16/2007	5.6	10.5	2/16/2007	8.8	9.0	2/16/2007	8.2	10.0	2/16/2007	8.0	9.0
3/15/2007	4.0	10.0	3/15/2007	9.0	7.0	3/15/2007	8.0	7.0	3/15/2007	8.2	7.0
4/16/2007	4.0	10.0	4/16/2007	9.0	7.0	4/16/2007	8.0	7.0	4/16/2007	8.5	7.0
5/14/2007	4.0	10.0	5/14/2007	10.0	7.0	5/14/2007	8.0	7.0	5/14/2007	8.6	7.0
6/14/2007	5.0	11.0	6/14/2007	9.5	10.0	6/14/2007	10.0	9.0	6/14/2007	9.0	8.0
7/17/2007	5.5	10.0	7/17/2007	9.5	10.0	7/17/2007	10.2	9.0	7/17/2007	9.0	8.0
8/13/2007	5.0	8.0	8/13/2007	9.0	9.0	8/13/2007	9.0	9.5	8/13/2007	7.5	10.0
9/14/2007	5.5	12.0	9/14/2007	9.0	9.5	9/14/2007	9.5	9.5	9/14/2007	9.5	9.5
10/12/2007	5.0	11.0	10/12/2007	9.5	9.5	10/12/2007	9.5	9.5	10/12/2007	9.5	9.5
11/14/2007	5.0	11.0	11/14/2007	9.0	9.5	11/14/2007	9.0	9.5	11/14/2007	9.5	9.0
11/29/2007	5.0	12.0	11/29/2007	10.0	10.0	11/29/2007	9.0	9.5	11/29/2007	9.0	10.0
6/22/2009	6.0	11.0	6/22/2009	9.0	10.0	6/22/2009	9.0	10.0	6/22/2009	9.0	10.0

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-17 (cont.)	AS-18 (cont.)	AS-19 (cont.)	AS-20 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure									
6/29/2009	5.5	12.0	6/29/2009	9.0	10.0	6/29/2009	9.0	10.0	6/29/2009	9.0	10.0
7/23/2009	5.0	12.0	7/23/2009	9.0	9.5	7/23/2009	9.0	9.5	7/23/2009	9.0	9.5
8/14/2009	5.0	11.5	8/14/2009	9.0	9.5	8/14/2009	9.0	9.5	8/14/2009	9.0	9.5
9/8/2009	5.5	12.0	9/8/2009	9.0	10.0	9/8/2009	8.8	10.0	9/8/2009	9.0	9.5
10/7/2009	5.6	12.0	10/7/2009	9.0	10.0	10/7/2009	8.8	10.0	10/7/2009	9.2	10.0
11/3/2009	5.6	11.0	11/3/2009	9.0	10.0	11/3/2009	9.0	9.5	11/3/2009	9.0	9.0
12/3/2009	5.6	12.0	12/3/2009	7.6	9.5	12/3/2009	8.6	9.5	12/3/2009	8.4	10.0
1/7/2010	5.8	12.0	1/7/2010	9.0	11.5	1/7/2010	9.0	11.0	1/7/2010	9.0	10.5
2/2/2010	5.6	12.0	2/2/2010	9.0	9.5	2/2/2010	8.6	9.5	2/2/2010	8.6	9.5
4/12/2010	6.0	12.0	4/12/2010	9.0	10.5	4/12/2010	9.0	10.0	4/12/2010	9.0	10.0
5/4/2010	5.6	12.5	5/4/2010	9.0	10.0	5/4/2010	9.0	10.0	5/4/2010	9.0	10.0
5/20/2010	5.0	12.0	5/20/2010	9.0	9.5	5/20/2010	9.0	9.5	5/20/2010	9.0	9.5
1/30/2012	3.6	11.0	1/30/2012	4.8	8.5	1/30/2012	4.8	8.0	1/30/2012	4.6	6.0
3/1/2012	6.0	12.5	3/1/2012	8.0	8.5	3/1/2012	8.0	8.0	3/1/2012	8.0	8.0
3/29/2012	6.0	12.0	3/29/2012	8.2	8.5	3/29/2012	8.6	9.0	3/29/2012	8.0	8.0
4/30/2012	6.2	9.0	4/30/2012	8.0	9.5	4/30/2012	8.0	9.5	4/30/2012	8.0	9.5
6/1/2012	6.0	9.0	6/1/2012	8.2	10.5	6/1/2012	8.0	10.5	6/1/2012	8.0	10.5
6/28/2012	6.2	9.5	6/28/2012	8.0	10.0	6/28/2012	8.0	10.0	6/28/2012	8.0	10.5
7/30/2012	6.0	8.0	7/30/2012	8.0	9.0	7/30/2012	8.0	9.0	7/30/2012	8.4	9.5
8/31/2012	6.0	9.0	8/31/2012	8.2	9.5	8/31/2012	8.0	9.5	8/31/2012	8.4	10.0
9/26/2012	6.0	9.0	9/26/2012	8.0	9.5	9/26/2012	8.0	9.0	9/26/2012	8.2	10.0
10/31/2012	6.2	9.5	10/31/2012	8.2	9.5	10/31/2012	9.0	8.2	10/31/2012	8.2	9.0
11/29/2012	6.0	10.0	11/29/2012	8.2	8.5	11/29/2012	8.2	8.5	11/29/2012	8.0	9.0
1/2/2013	6.6	9.5	1/2/2013	8.2	8.5	1/2/2013	8.2	8.5	1/2/2013	8.0	8.0
1/25/2013	6.6	10.0	1/25/2013	8.4	7.5	1/25/2013	8.4	9.0	1/25/2013	8.2	8.5
2/22/2013	6.5	8.0	2/22/2013	8.5	9.0	2/22/2013	8.0	9.0	2/22/2013	8.5	8.5
3/22/2013	6.6	9.5	3/22/2013	8.4	8.5	3/22/2013	8.6	8.0	3/22/2013	8.0	8.5

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-21	AS-22	AS-23	AS-24
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure									
1/16/2004											
2/12/2004											
10/6/2004											
11/10/2004											
12/3/2004											
6/21/2004											
7/29/2004											
8/30/2004											
10/6/2004											
11/10/2004											
12/3/2004											
1/27/2005											
2/17/2005											
3/17/2005											
4/25/2005											
5/18/2005											
6/16/2005											
7/19/2005											
8/17/2005											
9/27/2005											
11/2/2005											
11/28/2005											
12/30/2005											
1/24/2006											
3/1/2006											
3/27/2006											
4/20/2006											
5/23/2006	7.0	9.0	5/23/2006	7.0	8.0	5/23/2006	7.0	8.0	5/23/2006	7.0	8.0
5/24/2006	7.0	8.0	5/24/2006	7.0	7.5	5/24/2006	7.0	7.5	5/24/2006	7.0	8.0
5/30/2006	7.0	8.0	5/30/2006	7.0	7.0	5/30/2006	7.0	8.5	5/30/2006	7.0	8.0
6/28/2006	8.0	7.0	6/28/2006	8.0	7.0	6/28/2006	8.0	7.0	6/28/2006	8.0	7.0
7/27/2006	3.0	9.0	7/27/2006	3.2	8.0	7/27/2006	3.4	8.5	7/27/2006	4.4	9.0
8/20/2006	0.0	9.0	8/20/2006	0.0	8.0	8/20/2006	1.0	8.0	8/20/2006	1.0	8.5
9/18/2006	10.0	9.0	9/18/2006	7.2	9.0	9/18/2006	8.0	9.0	9/18/2006	9.0	9.5
10/18/2006	9.0	6.0	10/18/2006	9.0	7.0	10/18/2006	9.0	7.0	10/18/2006	9.0	10.0
11/14/2006	8.0	9.0	11/14/2006	8.0	9.0	11/14/2006	8.0	9.0	11/14/2006	8.0	10.0
12/18/2006	9.0	10.0	12/18/2006	9.0	10.0	12/18/2006	8.5	9.0	12/18/2006	9.0	9.0
1/16/2007	8.0	8.0	1/16/2007	8.0	7.0	1/16/2007	7.0	7.0	1/16/2007	7.0	8.0
2/16/2007	8.6	10.0	2/16/2007	8.2	9.0	2/16/2007	7.6	9.0	2/16/2007	7.6	10.0
3/15/2007	8.0	7.0	3/15/2007	8.0	7.0	3/15/2007	7.9	7.0	3/15/2007	7.9	7.0
4/16/2007	8.0	7.0	4/16/2007	8.0	7.0	4/16/2007	8.0	7.0	4/16/2007	7.9	7.0
5/14/2007	8.0	7.0	5/14/2007	8.0	7.0	5/14/2007	8.0	7.0	5/14/2007	8.0	7.0
6/14/2007	9.5	10.0	6/14/2007	9.0	8.0	6/14/2007	9.0	9.0	6/14/2007	9.0	9.0
7/17/2007	9.0	9.0	7/17/2007	9.0	8.0	7/17/2007	9.0	9.0	7/17/2007	9.0	9.0
8/13/2007	8.0	10.0	8/13/2007	9.0	9.0	8/13/2007	9.0	9.0	8/13/2007	9.0	10.0
9/14/2007	9.0	10.0	9/14/2007	10.0	9.5	9/14/2007	9.5	9.5	9/14/2007	9.0	9.5
10/12/2007	9.0	9.5	10/12/2007	10.0	10.0	10/12/2007	10.0	9.5	10/12/2007	9.0	9.5
11/14/2007	9.0	9.5	11/14/2007	10.0	10.0	11/14/2007	10.0	9.5	11/14/2007	10.0	9.5
11/29/2007	10.0	11.0	11/29/2007	9.0	9.5	11/29/2007	9.0	9.5	11/29/2007	9.0	11.0
6/22/2009	9.0	10.0	6/22/2009	9.0	10.0	6/22/2009	9.0	10	6/22/2009	9.0	10.0
6/29/2009	10.0	9.0	6/29/2009	9.0	10.0	6/29/2009	8.5	10	6/29/2009	8.5	10.5

TABLE 3: AIR SPARGING WELL DATA

Facility Name: Hess Station No. 09287, Pompano Beach, Florida

Pressure = pounds per square inch

Facility ID#: 068502103

Flow = cubic feet per minute

WELL NO.	AS-21 (cont.)	AS-22 (cont.)	AS-23 (cont.)	AS-24 (cont.)
DIAMETER	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	35 feet	35 feet	35 feet	35 feet
SCREEN INTERVAL	30-35 feet	30-35 feet	30-35 feet	30-35 feet

Date	Flow	Pressure									
7/23/2009	9.0	9.5	7/23/2009	9.0	9.5	7/23/2009	9.0	9.5	7/23/2009	8.4	10.0
8/14/2009	9.0	9.5	8/14/2009	9.0	9.5	8/14/2009	9.0	9	8/14/2009	8.5	10.0
9/8/2009	8.8	10.0	9/8/2009	9.0	9.5	9/8/2009	9.0	9.5	9/8/2009	8.6	10.0
10/7/2009	9.0	10.0	10/7/2009	9.0	10.0	10/7/2009	9.0	9.5	10/7/2009	9.2	10.5
11/3/2009	9.0	10.0	11/3/2009	9.0	9.5	11/3/2009	9.0	9.0	11/3/2009	9.0	9.5
12/3/2009	8.4	10.0	12/3/2009	8.2	9.5	12/3/2009	8.4	9.0	12/3/2009	9.0	10.5
1/7/2010	8.6	11.5	1/7/2010	9.0	11.0	1/7/2010	9.0	10.0	1/7/2010	9.0	11.5
2/2/2010	8.4	10.0	2/2/2010	8.6	9.5	2/2/2010	9.0	8.5	2/2/2010	8.8	10.0
4/12/2010	8.8	11.0	4/12/2010	9.0	10.0	4/12/2010	9.0	9.5	4/12/2010	9.0	9.5
5/4/2010	9.0	10.5	5/4/2010	9.0	10.0	5/4/2010	9.0	10.0	5/4/2010	9.0	10.5
5/20/2010	8.8	10.5	5/20/2010	8.8	9.5	5/20/2010	9.0	8.5	5/20/2010	9.0	10.0
1/30/2012	4.6	8.0	1/30/2012	4.2	7.5	1/30/2012	4.2	7.5	1/30/2012	4.6	7.5
3/1/2012	8.0	9.0	3/1/2012	8.0	9.5	3/1/2012	8.0	8.0	3/1/2012	8.0	8.5
3/29/2012	8.0	9.0	3/29/2012	8.0	9.0	3/29/2012	8.0	9.0	3/29/2012	8.2	8.0
4/30/2012	8.0	9.5	4/30/2012	8.0	9.5	4/30/2012	8.0	9.0	4/30/2012	8.0	9.0
6/1/2012	8.0	10.5	6/1/2012	8.0	10.5	6/1/2012	8.0	9.5	6/1/2012	8.0	9.5
6/28/2012	8.0	10.5	6/28/2012	8.0	10.5	6/28/2012	8.0	10.0	6/28/2012	8.0	10.0
7/30/2012	8.0	9.0	7/30/2012	8.2	9.5	7/30/2012	8.2	9.5	7/30/2012	8.4	9.0
8/31/2012	8.0	9.5	8/31/2012	8.0	10.0	8/31/2012	8.2	9.5	8/31/2012	8.2	9.5
9/26/2012	8.2	9.5	9/26/2012	8.2	10.0	9/26/2012	8.2	9.5	9/26/2012	8.0	9.5
10/31/2012	8.2	9.0	10/31/2012	8.0	10.0	10/31/2012	8.4	9.5	10/31/2012	8.2	9.5
11/29/2012	8.0	8.5	11/29/2012	8.0	9.5	11/29/2012	8.2	8.5	11/29/2012	8.0	9.0
1/2/2013	8.0	8.0	1/2/2013	8.2	9.0	1/2/2013	8.0	8.5	1/2/2013	8.0	8.5
1/25/2013	8.2	8.0	1/25/2013	8.5	8.5	1/25/2013	8.6	8.0	1/25/2013	8.0	8.0
2/22/2013	8.0	8.5	2/22/2013	9.0	8.5	2/22/2013	8.5	9.0	2/22/2013	8.0	9.5
3/22/2013	8.8	8.0	3/22/2013	8.4	8.5	3/22/2013	8.4	7.5	3/22/2013	8.2	8.5

TABLE 4: O&M ACTIVITIES SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Treatment System Status Codes:

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Remedial System	Status	Date of Visit	Hour Meter	Flow Rate	Design Rate	Comments
VE	1	03/26/02	1	--	325 cfm (@ 75" H2O)	System start up.
AS	1		1	--	90 cfm (@ 20 psi)	
VE	1	04/04/02	213	166 cfm (@ 28" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		213	38.8 cfm (@ 13.5 psi)	90 cfm (@ 20 psi)	Routine O&M performed / No major problems
VE	2	04/10/02	290	145 cfm (@ 40.1" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	2		290	45.7 cfm (@ 16 psi)	90 cfm (@ 20 psi)	
VE	4	04/16/02	450	NM	325 cfm (@ 75" H2O)	System shut down manually until carbon
AS	4		450	NM	90 cfm (@ 20 psi)	replaced.
VE	1	05/16/02	525	119 cfm (@ 23" H2O)*	325 cfm (@ 75" H2O)	Carbon replaced 5/13/02. System Restarted
AS	1		525	41 cfm (@ 13 psi)	90 cfm (@ 20 psi)	Infl./Effl. Vapor samples collected
VE	1	05/24/02	702	154 cfm (@ 30" H2O)*	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		702	33.6 cfm (@ 9 psi)	90 cfm (@ 20 psi)	
VE	1	06/21/02	1378	574 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		1378	45.5 cfm (@ 13 psi)	90 cfm (@ 20 psi)	
VE	1	07/19/02	2043	746 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		2043	30.5 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	08/20/02	2043	529 cfm (@ 34" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		2043	38.5 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	09/20/02	2043	412 cfm (@ 14" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		2043	39.5 cfm (@ 13 psi)	90 cfm (@ 20 psi)	Used compressor to surge sparge wells
VE	1	10/21/02	4298	510 cfm (@ 16" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		4298	39.5 cfm (@ 8 psi)	90 cfm (@ 20 psi)	Cleaned filters
VE	1	11/14/02	4875	563.8 cfm (@ 15" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		4875	107 cfm (@ 9.2 psi)	90 cfm (@ 20 psi)	Cleaned filters, no system issues noted
VE	1	12/18/02	5691	560.2 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		5690	101 cfm (@ 9.2 psi)	90 cfm (@ 20 psi)	No system issues noted
VE	1	01/16/03	6388	605.3 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		6388	102 cfm (@ 7.4 psi)	90 cfm (@ 20 psi)	Qtrly GW collected; no system issues noted
VE	1	02/18/03	7179	558.4 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Infl./Effl. Vapor samples collected
AS	1		7179	92 cfm (@ 9.4 psi)	90 cfm (@ 20 psi)	Cleaned filters, no system issues noted
VE	1	03/18/03	7851	494 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		7851	77 cfm (@ 6.8 psi)	90 cfm (@ 20 psi)	
VE	1	04/10/03	8404	341.6 cfm (@ 22" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		8404	87.4 cfm (@ 7.9 psi)	90 cfm (@ 20 psi)	Qtrly GW collected; no system issues noted
VE	1	05/30/03	9592	476.5 cfm (@ 22" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		9592	99 cfm (@ 7.1 psi)	90 cfm (@ 20 psi)	Qtrly GW collected; no system issues noted
VE	1	07/09/03	10548	592 cfm (@ 18" H2O)	325 cfm (@ 75" H2O)	O&M performed / Sparge blower #2 offline,
AS	3		10195	33 cfm (@ 9.3 psi)	90 cfm (@ 20 psi)	removed from system; Cleaned filters
VE	1	07/28/03		--	325 cfm (@ 75" H2O)	Replaced sparge wells AS-1, 6, 14, and 15
AS	3			--	90 cfm (@ 20 psi)	
VE	1	08/25/03		--	325 cfm (@ 75" H2O)	Installed new blowers and reconnected units
AS	2			--	90 cfm (@ 20 psi)	to system
VE	1	08/26/03	11673	634 cfm (@ 18" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		10196	111 cfm (@ 10 psi)	90 cfm (@ 20 psi)	Qtrly GW collected; no system issues noted
VE	1	09/22/03	12342	648 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		10865	112.6 cfm (@ 6 psi)	90 cfm (@ 20 psi)	No system issues noted

TABLE 4: O&M ACTIVITIES SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Treatment System Status Codes:

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Remedial System	Status	Date of Visit	Hour Meter	Flow Rate	Design Rate	Comments
VE	1	10/24/03	13110	665 cfm (@ 24" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		11634	110.6 cfm (@ 5 psi)	90 cfm (@ 20 psi)	No system issues noted
VE	1	11/18-19/03	13728	695 cfm (@ 24" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		12251	110 cfm (@ 7 psi)	90 cfm (@ 20 psi)	Qtrly GW collected; no system issues noted
VE	1	12/15/03	14350	420 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1			95 cfm (@ 7.3 psi)	90 cfm (@ 20 psi)	Cleaned filters and aftercooler; checked K/O tank Surged VW-1, 2, 4, 10 and 19 with compressor
VE	1	01/16/04	15001	427 cfm (@ 17" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1			92 cfm (@ 7.7 psi)	90 cfm (@ 20 psi)	Replaced vacuum gauge on VW-9 Increased vacuum to VE wells near UST area
VE	1	2/11-12/04	15743	419 cfm (@ 28" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1			93 cfm (@ 6.8 psi)	90 cfm (@ 20 psi)	Qtrly GW & effluent vapor collected Surged all VE lines with compressor
VE	4	02/18/04	15886	325 cfm (@ 24" H2O)	325 cfm (@ 75" H2O)	Resampled effluent vapor
AS	4			--	90 cfm (@ 20 psi)	System off pending lab results
VE	2	03/26/04	15886	--	325 cfm (@ 75" H2O)	Performed carbon changeout
AS	2			--	90 cfm (@ 20 psi)	Restarted system
VE	1	03/30/04	16073	360 cfm (@ 26" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1			--	90 cfm (@ 20 psi)	Need new pressure gauge at AS-16 and AS-17
VE	1	04/30/04	16790	294 cfm (@ 36" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1			--	90 cfm (@ 20 psi)	Replaced 4 air sparge pressure gauges
VE	1	05/25/04	17386	290 cfm (@ 20" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		15909	--	90 cfm (@ 20 psi)	Performed Annual sampling
VE	1	06/21/04	18036	330 cfm (@ 60" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		16558	45.3 cfm (@15 psi)	90 cfm (@ 20 psi)	
VE	1	07/29/04	18948	320 cfm (@ 68" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		17470	42.7 cfm (@10psi)	90 cfm (@ 20 psi)	
VE	1	08/27/04	19640	350 cfm (@ 48" H2O)	325 cfm (@ 75" H2O)	Sparge compressor found broken on the 8/25/04 scheduled visit. Repaired sparge compressor on 8/27/04.
AS	2		18115	--	90 cfm (@ 20 psi)	Restarted system.
VE	1	08/30/04	19712	350 cfm (@ 48" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		18187	47 cfm (@10 psi)	90 cfm (@ 20 psi)	Performed quarterly sampling
VE	1	10/04/04	20239	300 cfm (@ 44" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		18715	--	90 cfm (@ 20 psi)	
VE	1	10/22/04	--	--	--	Unscheduled visit to repair the knockout tank.
AS	1		--	--	--	
VE	1	11/10/04	21077	300 cfm (@ 48" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed
AS	4		19552	--	90 cfm (@ 20 psi)	Sparge compressor not producing flow
VE	1	12/03/04	21632	300 cfm (@ 48" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	3		19552	45.3 cfm (@15 psi)	90 cfm (@ 20 psi)	Awaiting replacement sparge compressor
VE	1	01/27/05	22950	300 cfm (@ 30" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	3		19552	--	90 cfm (@ 20 psi)	Awaiting replacement sparge compressor
VE	1	02/17/05	23431	300 cfm (@ 30 H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	3		19552	--	90 cfm (@ 20 psi)	Awaiting replacement sparge compressor
VE	1	03/17/05	24103	300 cfm (@ 18" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		19744	53 cfm (@12 psi)	90 cfm (@ 20 psi)	Qtrly GW and effluent vapor collected Sparge compressor reinstalled on 3/09/05

TABLE 4: O&M ACTIVITIES SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Treatment System Status Codes:

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Remedial System	Status	Date of Visit	Hour Meter	Flow Rate	Design Rate	Comments
VE	1	04/25/05	25028	285 cfm (@ 30" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		20700	54 cfm (@12 psi)	90 cfm (@ 20 psi)	
VE	1	05/18/05	25580	290 cfm (@ 30" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		21222	53 cfm (@11 psi)	90 cfm (@ 20 psi)	
VE	1	06/16/05	26277	320 cfm (@ 33" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		21919	54 (@11 psi)	90 cfm (@ 20 psi)	Annual GW and effluent vapor collected
VE	1	07/19/05	27067	292 cfm (@ 22" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		22708	50 cfm (@10 psi)	90 cfm (@ 20 psi)	
VE	1	08/15/05	28507	280 cfm (@ 24" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		22768	45 cfm (@15 psi)	90 cfm (@ 20 psi)	
VE	1	09/27/05	28749	285 cfm (@ 23" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		24391	44 cfm (@15 psi)	90 cfm (@ 20 psi)	
VE	4	10/21/05	--	--	325 cfm (@ 75" H2O)	Unscheduled visit to shut down and secure system for Hurricane Wilma.
AS	4		--	--	90 cfm (@ 20 psi)	
VE	2	11/02/05	NM	290 cfm (@ 54" H2O)	325 cfm (@ 75" H2O)	Restarted System
AS	2		NM	46 cfm (@17 psi)	90 cfm (@ 20 psi)	Routine O&M performed / No major problems.
VE	1	11/28/05	29544	290 cfm (@ 47.5" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		25558	42 (@11.5 psi)	90 cfm (@ 20 psi)	
VE	1	12/30/05	30709	290 cfm (@ 44" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		26350	41 cfm (@10 psi)	90 cfm (@ 20 psi)	
VE	1	01/24/06	31308	290 cfm (@ 16" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		26949	46 cfm (@17 psi)	90 cfm (@ 20 psi)	
VE	1	03/01/06	32076	290 cfm (@ 15" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed. Sparge compressor failed. Turned compressor off. Waiting for replacement approval from EPD
AS	4		27672	compressor failed	90 cfm (@ 20 psi)	
VE	1	03/27/06	32584	290 cfm (@ 15" H2O)	325 cfm (@ 75" H2O)	Routine O&M on SVE performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected. Waiting for replacement sparge compressor to arrive.
AS	3		27672	compressor failed	90 cfm (@ 20 psi)	
VE	1	04/20/06	33260	290 cfm (@ 16" H2O)	325 cfm (@ 75" H2O)	Routine O&M on SVE system performed / No major problems. Air Sparge off. Waiting for delivery of new compressor.
AS	3		27672	--	90 cfm (@ 20 psi)	
VE	1	05/23/06	34034	360 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	RA Modifications complete. Startup Day 1. Collected Influent and Effluent air samples
AS	2		27674	87 cfm (@ 19 psi)	90 cfm (@ 20 psi)	
VE	1	05/24/06	34055	350 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	RA Modifications complete. Startup Day 2.
AS	1		27684	91 cfm (@ 18.5)	90 cfm (@ 20 psi)	
VE	1	05/30/06	34196	320 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems
AS	1		27837	88 cfm (@ 19)	90 cfm (@ 20 psi)	
VE	1	06/28/06	34882	340 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Annual O&M and Groundwater Sampling
AS	1		28522	100 cfm (@ 19)	90 cfm (@ 20 psi)	Collected Influent and Effluent air samples
VE	1	07/27/06	35347	340 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		28987	45.4 cfm (@ 10 psi)	90 cfm (@ 20 psi)	
VE	1	08/20/06	35962	340 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		29603	16 cfm (@ 10)	90 cfm (@ 20 psi)	
VE	1	09/18/06	36556	342 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		30196	91.8 cfm (@ 17)	90 cfm (@ 20 psi)	
VE	1	10/18/06	37275	360 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		30914	98.0 cfm (@ 16 psi)	90 cfm (@ 20 psi)	
VE	1	11/11/06	37922	345 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		31562	91.0 cfm (@ 17.5 psi)	90 cfm (@ 20 psi)	

TABLE 4: O&M ACTIVITIES SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Treatment System Status Codes:

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Remedial System	Status	Date of Visit	Hour Meter	Flow Rate	Design Rate	Comments
VE	1	12/18/06	38737	350 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		32377	95.5 cfm (@ 18.0 psi)	90 cfm (@ 20 psi)	
VE	1	01/16/07	39431	360 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		33071	80.0 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	02/16/07	40175	342 cfm (@ 39" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		33815	85.2 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	03/15/07	40820	346 cfm (@ 39" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		34461	77.6 cfm (@ 15 psi)	90 cfm (@ 20 psi)	Well AS-6 taken offline because of air leak.
VE	1	04/16/07	41589	346 cfm (@ 39" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		35230	78.1 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	05/14/07	42185	346 cfm (@ 39" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		35825	79.4 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	06/14/07	43000	360 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Annual groundwater and influent and effluent vapor samples collected.
AS	1		36640	91.0 cfm (@ 24 psi)	90 cfm (@ 20 psi)	
VE	1	07/17/07	43782	360 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		37422	91.7 cfm (@ 24 psi)	90 cfm (@ 20 psi)	
VE	1	08/13/07	44429	372 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		38069	79.5 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	09/14/07	45196	342 cfm (@ 45" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems. Quarterly groundwater and influent and effluent vapor samples collected.
AS	1		38837	88 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	10/12/07	45866	360 cfm (@ 45" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		39506	88.0 cfm (@ 19 psi)	90 cfm (@ 20 psi)	
VE	1	11/14/07	46816	372 cfm (@ 45" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		40322	88.5 cfm (@ 20 psi)	90 cfm (@ 20 psi)	
VE	1	11/29/07	47020	340 cfm (@ 46" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		40660	87.0 cfm (@ 18 psi)	90 cfm (@ 20 psi)	
VE	1	06/22/09	47140	360 cfm (@ 45" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		40774	91 cfm (@ 16 psi)	90 cfm (@ 20 psi)	Influent and effluent vapor samples collected.
VE	1	06/29/09	47308	333 cfm (@ 47" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		40850	89.5 cfm (@ 16 psi)	90 cfm (@ 20 psi)	Influent and effluent vapor samples collected.
VE	1	07/23/09	47883	306 cfm (@ 45" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		41425	87.5 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	08/14/09	48409	324 cfm (@ 40" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		41952	88.0 cfm (@ 15 psi)	90 cfm (@ 20 psi)	Groundwater samples collected.
VE	1	09/08/09	49008	333 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		42547	89 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	10/07/09	49537	342 cfm (@ 43" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		43076	89 cfm (@ 16 psi)	90 cfm (@ 20 psi)	
VE	1	11/03/09	50186	333 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		43725	89 cfm (@ 15 psi)	90 cfm (@ 20 psi)	Groundwater samples and SVE influent sample collected.
VE	1	12/03/09	50905	333 cfm (@ 42" H2O)	325 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		44444	81 cfm (@ 15 psi)	90 cfm (@ 20 psi)	
VE	1	01/07/10	51748	324 cfm (@ 47" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		45286	85 cfm (@ 16 psi)	91 cfm (@ 20 psi)	
VE	1	02/02/10	52368	324 cfm (@ 45" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		45907	83 cfm (@ 16 psi)	91 cfm (@ 20 psi)	Groundwater samples and SVE influent & effluent sample collected.

TABLE 4: O&M ACTIVITIES SUMMARY

Facility Name: Hess Station No. 09287, Pompano Beach, Florida
 Facility ID#: 068502103

Treatment System Status Codes:

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Remedial System	Status	Date of Visit	Hour Meter	Flow Rate	Design Rate	Comments
VE	1	04/12/10	53804	324 cfm (@ 48" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / Wires shorted at sparge compressor motor. Repaired wires and restarted without incident.
AS	1		47021	77 cfm (@ 16 psi)	91 cfm (@ 20 psi)	
VE	1	05/04/10	54328	324 cfm (@ 47" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		47546	84 cfm (@ 16.5 psi)	91 cfm (@ 20 psi)	
VE	1	05/20/10	54664	324 cfm (@ 46" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf & eff
AS	1		47882	83 cfm (@ 16.5 psi)	91 cfm (@ 20 psi)	samples collected (5/20/10). Groundwater samples (6/1/10 & 6/2/10).
VE	2	01/04/12	54664	324 cfm (@ 44" H2O)	326 cfm (@ 75" H2O)	Carbon replaced. Restart System.
AS	2		47882	--	91 cfm (@ 20 psi)	Collected Influent and Effluent air samples
VE	4	01/10/12	54815	333 cfm (@ 45" H2O)	326 cfm (@ 75" H2O)	Received 1/4/12 laboratory data with high influent. Collected Influent and Effluent
AS	3		47883	--	91 cfm (@ 20 psi)	air samples to verify no breakthrough. Turned off system.
VE	2	01/25/12	54815	--	326 cfm (@ 75" H2O)	Carbon replaced. System Restarted
AS	2		47883	--	91 cfm (@ 20 psi)	
VE	1	01/30/12	54940	342 cfm (@ 43" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems.
AS	1		47892	51 cfm (@ 12 psi)	91 cfm (@ 20 psi)	
VE	1	03/01/12	55685	342 cfm (@ 45" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf, btwn, & eff
AS	1		48637	85 cfm (@ 13 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	03/29/12	56355	333 cfm (@ 45" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf, btwn, & eff
AS	1		49307	86 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected. Collected groundwater samples.
VE	1	04/30/12	57118	324 cfm (@ 47" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf, btwn, & eff
AS	1		50070	84 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	06/01/12	57887	324 cfm (@ 49" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf, btwn, & eff
AS	1		50839	83 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	06/28/12	58534	324 cfm (@ 55" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf, btwn, & eff
AS	1		51484	85 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected. Collected groundwater samples.
VE	1	07/30/12	59302	324 cfm (@ 47" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE inf & eff
AS	1		52252	87 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	08/31/12	60066	324 cfm (@ 49" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE eff
AS	1		53017	87 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	09/26/12	60690	324 cfm (@ 48" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE eff
AS	1		53640	87 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected. Collected groundwater samples. Carbon bypassed.
VE	1	10/31/12	61526	342 cfm (@ 53" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		54477	88 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	11/29/12	62218	342 cfm (@ 48" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		55105	87 cfm (@ 12 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	01/02/13	63029	342 cfm (@ 48" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		55915	90 cfm (@ 14 psi)	91 cfm (@ 20 psi)	samples collected. Collected groundwater samples.
VE	1	01/25/13	63580	342 cfm (@ 49" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		56466	91 cfm (@ 14 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	02/22/13	64251	342 cfm (@ 49" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		57137	90 cfm (@ 15 psi)	91 cfm (@ 20 psi)	samples collected.
VE	1	03/22/13	64919	340 cfm (@ 48" H2O)	326 cfm (@ 75" H2O)	Routine O&M performed / No major problems. SVE influent
AS	1		57805	91 cfm (@ NM psi)	91 cfm (@ 20 psi)	samples collected. Collected groundwater samples.

APPENDIX B

Air Sparge/Soil Vapor Extraction System Design

APPENDIX B-1

Air Sparging System Design Calculations

Air Sparging System Design Calculations Former Speedway No. 6442, Pompano Beach, Florida

O&M data collected following modifications to the former AS/SVE system in 2006 indicated air could be injected into each air sparge well at an average flow rate of 7 cfm and average pressure of 9.5 psi. The maximum injection pressure was measured at 13 psi. In 2005, the AS ROI was evaluated using air sparge wells AS-7, AS-15R, and AS-16. The data indicated an ROI of approximately 12 feet was achievable when sparging. Due to the limited extent of hydrocarbon impacted groundwater with dissolved hydrocarbon concentrations greater than NADCs, a 14-foot ROI is being used for this design with considerable overlapping within the source areas.

Minimum Pressure Required for Sparging Deep Zone:

Assumptions:

- Anticipated top of screen for deep sparge well = 45 feet bls
- DTW in vicinity of sparge wells = 8 feet bls (minimum)

Thickness of water column in sparge wells = 45 ft – 8 ft = 37 feet

Minimum pressure needed to push column of water out of sparge well:

$$37 \text{ ft H}_2\text{O} \quad \times \quad \frac{62.4 \text{ lb}}{\text{ft}^3} \quad \times \quad \frac{\text{ft}^2}{144 \text{ in}^2} \quad = \quad \frac{16.0 \text{ lb}}{\text{in}^2}$$

Earth Systems anticipates that an initial pressure of approximately 16 psi will be needed to begin injecting air into the deep zone. Based on O&M data collected during operation of the former AS/SVE system, a maximum pressure of 13 psi was required to sparge the aquifer. The pressure required to maintain a flow rate 10 scfm should be less than 16 psi for the shallow and deep zones.

Maximum Pressure Allowed for Sparging (Deep Zone)

Assumptions:

- Specific gravity of water = 1.0
- Specific gravity of formation = 2.7
- Porosity of formation = 20 percent

Overburden due to Water:

$$\begin{aligned} & (\text{thickness of water column}) \times (\text{SG Water}) \times (\text{porosity}) \times (\text{specific weight of water}) \\ & = (37 \text{ feet}) \times (1) \times (0.20) \times (62.4 \text{ lb/ft}^3) = 462 \text{ lb/ft}^2 \end{aligned}$$

Overburden due to Formation:

$$\begin{aligned} & (\text{depth of formation}) \times (\text{SG Formation}) \times (1 - \text{porosity}) \times (\text{specific weight of water}) \\ & = (45 \text{ feet}) \times (2.7) \times (0.80) \times (62.4 \text{ lb/ft}^3) = 6065 \text{ lb/ft}^2 \end{aligned}$$

$$\text{Total Overburden} = 462 \text{ lb/ft}^2 + 6065 \text{ lb/ft}^2 = 6527 \text{ lb/ft}^2$$

$$6527 \text{ lb/ft}^2 / 144 \text{ in}^2/\text{ft}^2 = 45 \text{ psi}$$

Assuming a 10% safety factor, the maximum allowable pressure to sparge the deep zone is 45 psi * 0.90 = 41 psi maximum

The assumed injection pressure of 16 psi is below the maximum allowable pressure for sparging the deep zone.

Minimum Pressure Required for Sparging Shallow Zone:

Assumptions:

- Anticipated top of screen for deep sparge well = 30 feet bls
- DTW in vicinity of sparge wells = 8 feet bls (minimum)

Thickness of water column in sparge wells = 30 ft – 8 ft = 22 feet

Minimum pressure needed to push column of water out of sparge well:

$$22 \text{ ft H}_2\text{O} \quad \times \quad \frac{62.4 \text{ lb}}{\text{ft}^3} \quad \times \quad \frac{\text{ft}^2}{12^2 \text{ in}^2} \quad = \quad \frac{9.5 \text{ lb}}{\text{in}^2}$$

Earth Systems anticipates that an initial pressure of approximately 9.5 psi will be needed to begin injecting air at a rate of 10 scfm. Based on O&M data collected during operation of the former AS/SVE system, a maximum pressure of 13 psi was required to sparge the aquifer. The pressure required to maintain a flow rate 10 scfm should be less than 9.5 psi for the shallow and deep zones.

Maximum Pressure Allowed for Sparging (Shallow Zone)

Assumptions:

Specific gravity of water = 1.0

Specific gravity of formation = 2.7

Porosity of formation = 20 percent

Overburden due to Water:

$$\begin{aligned} & (\text{thickness of water column}) \times (\text{SG Water}) \times (\text{porosity}) \times (\text{specific weight of water}) \\ & = (22 \text{ feet}) \times (1) \times (0.20) \times (62.4 \text{ lb/ft}^3) = 275 \text{ lb/ft}^2 \end{aligned}$$

Overburden due to Formation:

$$\begin{aligned} & (\text{depth of formation}) \times (\text{SG Formation}) \times (1 - \text{porosity}) \times (\text{specific weight of water}) \\ & = (30 \text{ feet}) \times (2.7) \times (0.80) \times (62.4 \text{ lb/ft}^3) = 4044 \text{ lb/ft}^2 \end{aligned}$$

$$\text{Total Overburden} = 275 \text{ lb/ft}^2 + 4044 \text{ lb/ft}^2 = 4319 \text{ lb/ft}^2$$

$$4319 \text{ lb/ft}^2 / 144 \text{ in}^2/\text{ft}^2 = 30 \text{ psi}$$

Assuming a 10% safety factor, the maximum allowable pressure is

$$30 \text{ psi} \times 0.90 = 27 \text{ psi maximum}$$

The assumed injection pressure of 9.5 psi is below the maximum allowable pressure for sparging the shallow zone.

Sparge Compressor Requirements

The sparge compressor will need to supply 10 scfm airflow to 12 shallow AS wells and one deep AS well for a total flow of 130 scfm. The required initial sparge pressure at each wellhead is approximately 16 psi for the deep AS well and 9.5 psi for the shallow AS wells. The pressure is expected to decrease shortly after sparging is initiated.

The design pressure will consist of the required pressure at the wellheads plus the friction losses in the piping, valves, aftercooler, etc. Due to the additional overburden associated with sparging the deep zone, deep sparge well AS-37 will experience the highest required pressure for sparging. If 10 scfm of air will be injected into the deep sparge well and the manifold piping will be 1-inch in diameter, the friction loss per 10 feet of pipe can be estimated from the attached graph. For 10 cfm in a 1-inch pipe, the friction loss factor is 0.75 in-water per 10 feet of pipe. Inside the equipment enclosure, the flow for the 13 sparge wells will be manifolded into one 2-inch line (total flow 130 cfm) with a friction loss factor of 2.75 in-water per 10 feet of pipe. The maximum friction loss will be experienced at the deep sparge well (AS-37) as follows:

Deep Well AS-37 to Equipment Enclosure:

Friction loss, AS-37 to equipment Enclosure (149 ft/10 x 0.75)	=	11.2 in-water
Friction loss, six 1-inch elbows (18 ft/10 x 0.75)	=	1.4 in-water
Friction loss, one branch Tee (5 ft/10 x 0.75)	=	0.4 in-water

Combined flow inside Equipment Enclosure:

Friction loss, six 2-inch elbows (30 ft/10 x 2.75)	=	8.3 in-water
Friction loss, aftercooler (see cutsheet)	=	13.8 in-water
Friction loss, one 2-inch check valve (17.0 ft/10 x 2.75)	=	4.7 in-water
Friction loss, 20 feet of 2-inch lateral pipe (20 ft/10 x 2.75)	=	<u>5.5 in-water</u>
	=	45.3 in-water

20% Safety factor	=	9.1 in-water
TOTAL FRICTION LOSS	=	54.4 in-water (2.0 psi)

As a conservative loss, assume 3.0 psi pressure loss between compressor and wellhead. Need compressor capable of injecting 130 scfm at a pressure of 19 psi.

Earth Systems recommends that a Rietschle Model DLR-250 (or approved equal) be used to supply the sparge air. The compressor will be equipped with a 15-Hp, three-phase, explosion-proof motor. Air from the compressor will be cooled using an American Industrial Model ACA-3302 aftercooler (or approved equal). Cut sheets for the recommended compressor and aftercooler are attached.

Calculating System Friction Loss

Friction causes pressure loss in all systems. Plumbing design and length affect this loss in air flow.

1. Determine total straight pipe equivalent.

List number of each fitting in system. Circle the column under the supply pipe size. Multiply the number of each item by the pipe size conversion factor to find the equivalent amount of straight pipe. Add equivalent figures to actual straight pipe figures.

Friction loss in pipe fittings equivalent length of straight pipe

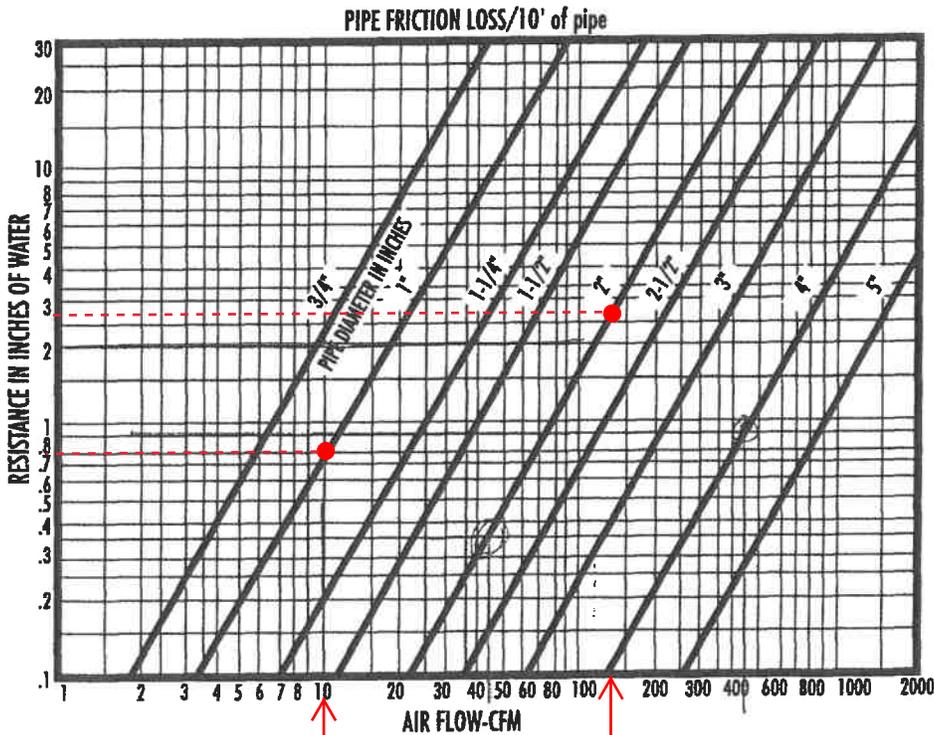
Fitting	#	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	Equivalent Ft.
90° Elbows	___x	2.0	3.0	3.5	4.0	5.0	6.0	8.0	10.0	12.6	= _____
Std. through tees	___x	1.5	2.0	2.5	3.0	3.5	4.0	5.0	7.0	8.4	= _____
Std. branch tees	___x	4.0	5.0	7.0	8.0	10.5	12.5	15.5	20.0	25.2	= _____
Check valves	___x	7.0	9.0	11.5	13.5	17.0	20.5	25.5	34.0	42.0	= _____
Gate Valves	___x	0.55	0.7	0.9	1.0	1.5	2.0	2.0	3.0	3.4	= _____

Total length of straight pipe = _____ ft.

Total straight pipe equivalent = _____ ft.

2. Determine total friction loss in pipe system.

On bottom line of the pipe friction loss chart, mark the air flow needed. Using a ruler, scan vertically from the CFM figure to the diagonal line for the proper pipe size. Mark the intersection and then scan to the left (vertical) axis to find the friction loss figure.



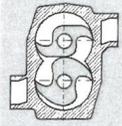
Air Sparge

130 acfm
2" f = 2.75

10 cfm/well
1" f = 0.75

3. Divide the Total straight pipe equivalent from step 1 by 10; multiply by friction loss figure just determined to get the total friction loss in the pipe system.

$$\frac{\text{Total feet of pipe in system}}{\div 10} \times \text{Friction loss factor} = \text{Total friction loss in system in inches of H}_2\text{O}$$



Compressors

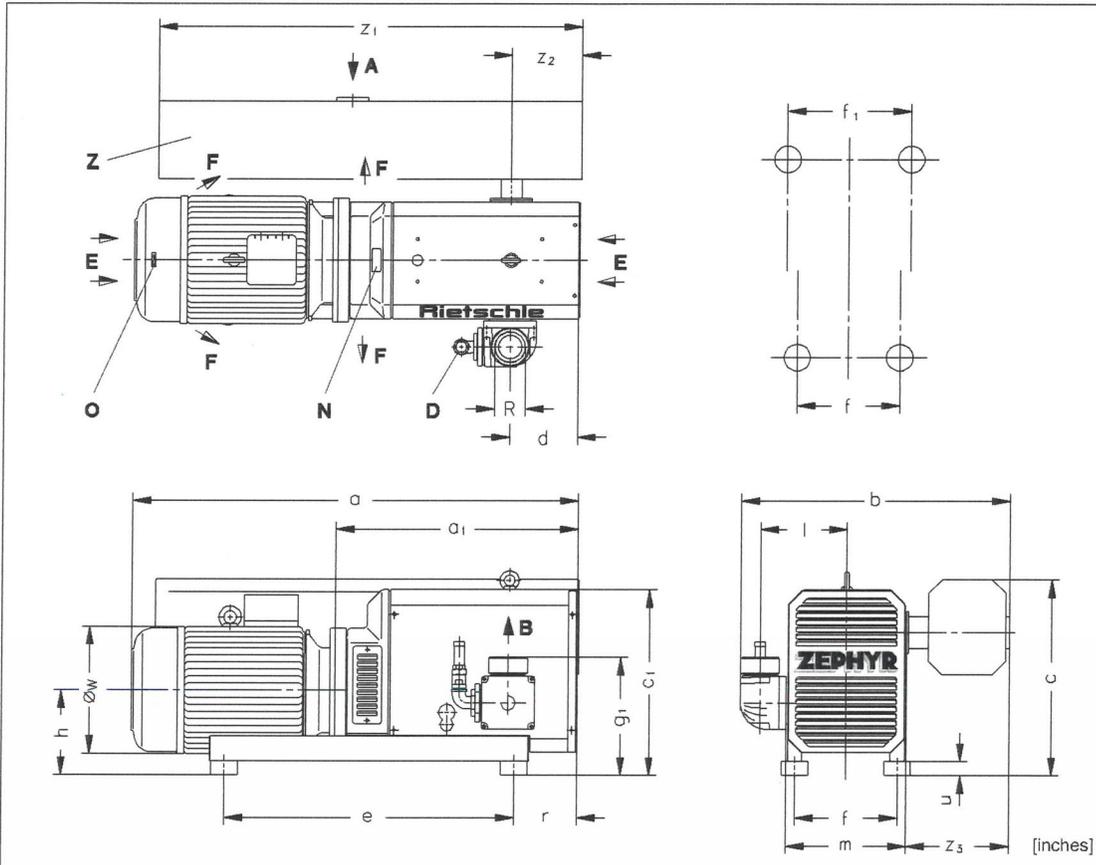
Compresores

Compresseurs

Compresores

DLR

ZEPHYR



A	Suction	Succión	Aspiration	Sucção
B	Pressure connection	Conexión presión	Raccord surpression	Conexão da pressão
D	Pressure regulating valve	Válvula reguladora de presión	Valve de réglage pression	Válvula de regulagem da pressão
E	Cooling air entry	Entrada aire refrigerante	Entrée air refroidissement	Entrada do ar refrigerante
F	Cooling air exit	Salida aire refrigerante	Sortie air refroidissement	Saída do ar refrigerante
N	Data plate	Placa fecha	Etiquette caractéristique	Placa da data
O	Rotation arrow	Dirección de rotación	Flèche sens rotation	Direção da rotação
Z	Inlet silencer	Silenciador entrada	Silencieux d'aspiration	Silenciador de entrada

DLR	100			250			300			400			500						
kW	50 Hz	3.0	4.0	5.5	7.5	11	-	7.5	11	15	11	15	18.5	22	15	18.5	22	30	
hp	60 Hz	5.0	7.5	10	10	15	20	15	20	25	20	25	30	-	-	30	-	40	
[inches]	a	50 Hz	27.36	28.03	32.17	36.26	40.67	-	36.26	40.67	40.67	47.36	47.36	47.36	49.76	47.36	47.36	49.76	54.09
		60 Hz	31.49	33.07	33.07	37.79	38.85	38.85	38.85	38.85	46.01	45.47	52.70	52.70	-	-	53.21	-	54.85
	a ₁	50 Hz	15.43	15.43	16.22	20.31	20.31	-	20.31	20.31	20.31	27.01	27.01	27.01	27.01	27.01	27.01	27.01	29.37
		60 Hz	17.56	17.56	17.56	22.28	22.28	22.28	22.28	22.28	22.62	28.90	29.31	29.31	-	-	29.82	-	29.82
	b		21.26		28.43		28.43		28.43		29.29		29.29			30.08			
	c / c ₁		14.76 / 14.17		21.06 / 20.67		21.06 / 20.67		21.06 / 20.67		21.06 / 20.67		21.06 / 20.67			21.85 / 20.67			
	d		3.62		3.94		3.39		3.39		7.76		7.76			7.76			
	e		17.32		28.35		28.35		28.35		32.28		32.28			32.28		36.22	
	f		8.66		11.42		11.42		11.42		11.42		11.42			11.42		11.42	
	f ₁		-		-		-		-		-		-			-		13.78	
	g ₁		8.23		11.54		11.54		11.54		13.07		13.07			13.07			
	h		5.91		9.45		9.45		9.45		9.45		9.45			9.45			
	l		7.17		9.25		9.25		9.25		9.65		9.65			9.65			
	m		10.24		13.39		13.39		13.39		13.39		13.39			13.39			
	r		3.03		4.37		4.37		4.37		7.05		7.05			7.05			
	u		5.91		1.57		1.57		1.57		1.57		1.57			1.57			
øw	50 Hz	7.72	8.66	9.69	9.69	12.28	9.69	12.28	12.28	12.28	12.28	12.28	12.28	12.28	12.28	12.28	14.17		
	60 Hz	7.88	9.57	9.57	9.57	11.47	11.47	11.47	15.30	11.47	15.30	-	-	15.30	-	15.30	-	16.88	
	Z ₁ / Z ₂ / Z ₃		25.59 / 3.94 / 7.68		39.37 / 3.15 / 10.63		39.37 / 3.15 / 10.63		39.37 / 3.15 / 10.63		39.37 / 3.15 / 10.63		39.37 / 3.15 / 10.63			47.24 / 7.87 / 11.42			
	R		1 1/2" NPT		2" NPT		2" NPT		2" NPT		3" NPT		3" NPT			3" NPT			

DLR 100
DLR 250
DLR 300
DLR 400
DLR 500

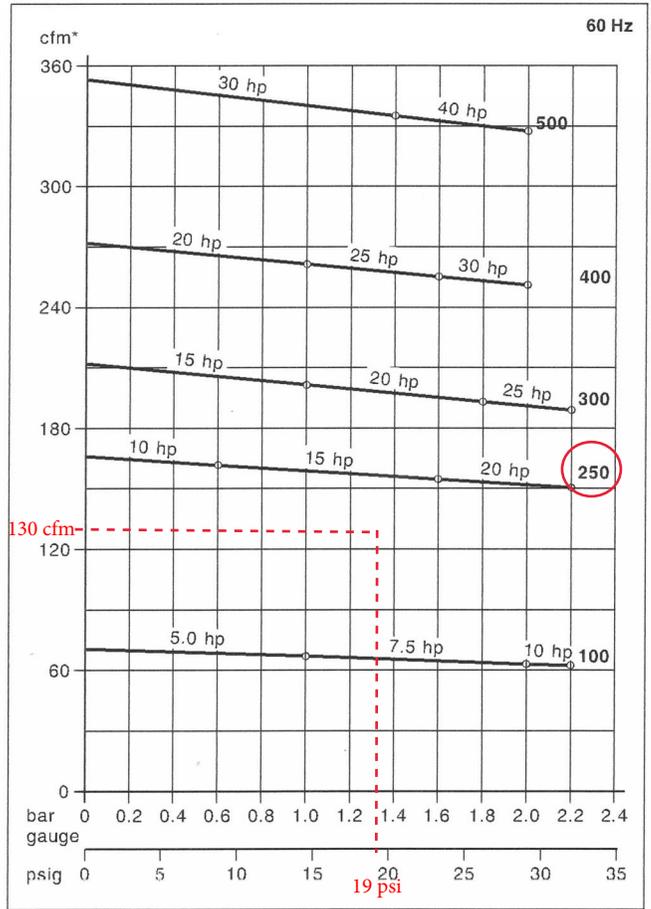
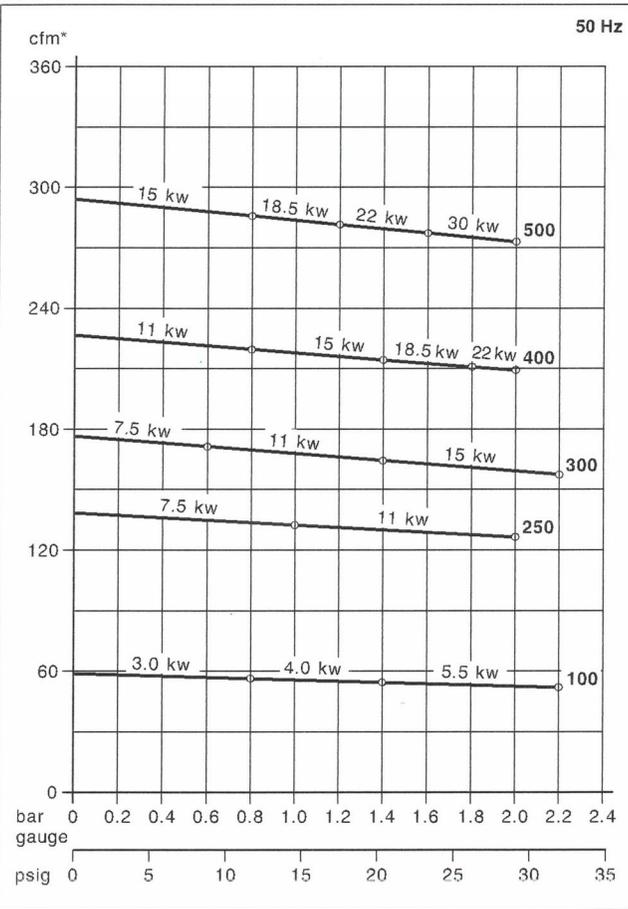
DA 881

2.1.2002

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 info@rietschleusa.com
 http://
 www.rietschleusa.com

DLR	100				250				300				400				500			
cfm	58.9				138				177				227				294			
psig	70.6				166				212				272				353			
3~	50 Hz	11.6	20.3	31.9	14.5	29.0	-	8.7	20.3	31.9	11.6	20.3	26.1	29.0	11.6	17.4	23.2	29.0		
	60 Hz	14.5	29.0	31.9	8.7	23.2	31.9	14.5	26.1	31.9	14.5	23.2	29.0	-	-	20.3	-	29.0		
	50 Hz	230/400V ± 10%				400/690V ± 10%				230/460V ± 10%										
	60 Hz	208-230/460V ± 10%																		
kw	50 Hz	3.0	4.0	5.5	7.5	11	-	7.5	11	15	11	15	18.5	22	15	18.5	22	30		
hp	60 Hz	5.0	7.5	10	10	15	20	15	20	25	20	25	30	-	-	30	-	40		
rpm	50 Hz	2850																		
	60 Hz	3450																		
dB(A)	50 Hz	79				81				82				82						
	60 Hz	83				85				85				85						
lbs	50 Hz	232	243	287	503	562	-	560	621	653	712	747	783	831	759	794	908	1213		
	60 Hz	259	307	328	517	595	593	652	650	790	743	883	929	-	-	940	-	1044		
l		0.5				0.9				0.9				0.9						
ZRK		40 (03)				50 (03)				50 (03)				80 (03)						
ZAF		40 (00)				50 (00)				50 (00)				80 (00)						
ZDR		#				#				#				#						
ZPD		#				#				#				#						
ZMS / ZAD		#				#				#				#						

	Capacity Excess pressure Motor version Motor rating Speed Average noise level Weight Oil capacity (Gear)	Capacidad Exceso de presión Versión motor Datos motor Velocidad Nivel de ruido medio Peso Instrumentos capacidad aceite	Volume engendré Surpression Exécution moteur Puissance moteur Vitesse rotation Niveau sonore moyen Poids Charge d'huile (Engrenage)	Capacidade Pressão excessiva Versão do motor Potência do motor Velocidade Nível médio de ruído Peso Engrenagem da capacidade do óleo
cfm				
psig				
3~				
kw / hp				
rpm				
dB(A)				
lbs				
l				
ZRK	Accessories	Accesorios	Accessoires	Acessórios
ZAF	Non return valve	Válvula retención	Clapet anti-retour	Válvula sem retorno
ZDR	Suction filter	Filtro succión	Filtre d'aspiration	Filtro de sucção
ZPD	Pressure regulating valve	Válvula reguladora de presión	Valve de réglage pression	Válvula de regulagem da pressão
ZMS	Pulsation silencer	Silenciador de pulsación	Absorbeur de pulsations	Silenciador de pulsação
ZAD	Motor starter	Arranque motor	Disjoncteur moteur	Arranque do motor
	Soft starter	Soft starter	Démarrage progressif	Soft starter



* Capacity refers to free air at 1 standard atmosphere and 20° C (68° F). / La capacidad se refiere al aire libre a 1 atmosfera estándar de presión y a 20° C (68° F) de temperatura. / Le débit est mesuré à l'atmosphère de 1 bar (abs.) à 20° C (68° F). / A capacidade refere-se ao ar livre a uma atmosfera padrão 1 e a 20° C (68° F).

Curves and tables refer to compressor at normal operating temperature. / Las curvas y las tablas se refieren al compresor a la temperatura normal de operación. / Les courbes et tableaux sont établies, compresseur à température de fonctionnement. / As curvas e tabelas referem-se ao compressor a temperatura normal de operação.

Technical information is subject to change without notice! / La información técnica está sujeta a cambios sin previo aviso! / Sous réserve de modification technique. / A informação técnica está sujeita a mudança sem aviso prévio!

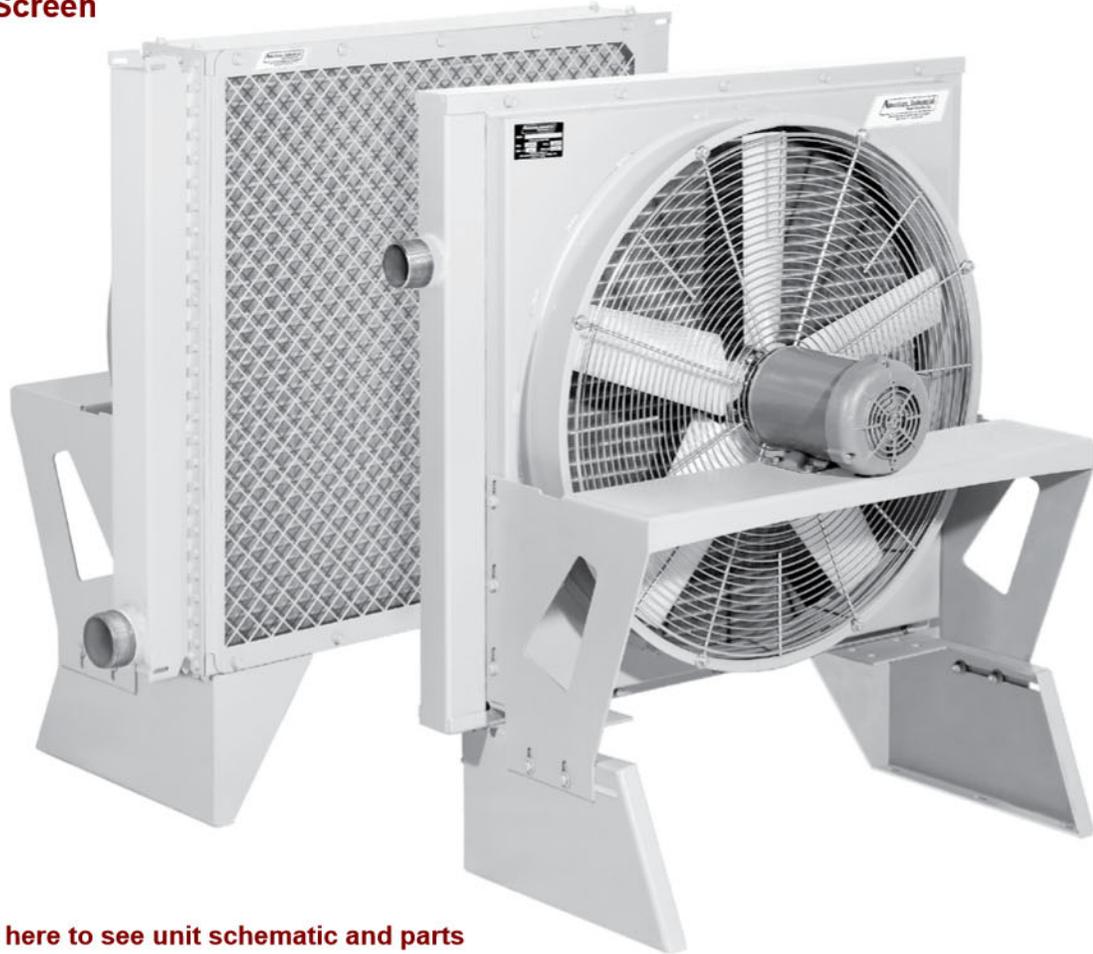
The listed values for a, ø w and full load amperage may vary because of different motor manufacturers. / Los valores listados para a, ø w y para el amperaje de carga completa pueden variar para distintos fabricantes de motores. / Les dimensions a et ø w ainsi que l'ampérage peuvent différer des données indiquées ci-dessus, selon le fabricant du moteur. / Como variam os fabricantes de motores, poderá haver variação dos valores indicados para a, ø w e para uma amperagem da carga total.

on request # on pedido # sur demande # a pedido



ACA SERIES

Fit to Screen



[Click here to see unit schematic and parts](#)

AIR COOLED

AFTERCoolERS

For Compressed Gas or Vapor

- Computer Selection.
- Low pressure drop available.
- Standard ports NPT, optional ANSI flange.
- Operating temperature of 400° F & pressure of 150PSI.
- Custom designs to fit your needs.
- Cools: Air, Compressors, Blowers, Steam vapors, Pneumatic systems, Vapor recovery systems etc...

ACA - 3181 through ACA - 4362



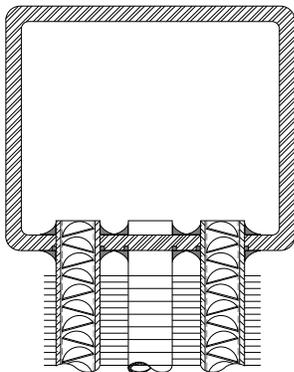
Brazed Core Construction

Air coolers are an essential part of any compressed air system, by cooling the air, and condensing water vapor into a liquid state for removal. When air is compressed, the compression induces heat into both the air and the water entrained in the air.

The American Industrial ACA series heat exchanger cools air with air, making it a simple inexpensive way to cool when compared to other water-cooled or refrigerant cooled systems. The unique compact brazed fin/tube design provides efficient cooling and low maintenance under the warmest environmental conditions. By using an ACA series air-cooled after cooler, machine tools will receive cooler dryer air, provide longer trouble free life, experience less down time, and be cost effective to operate on a continuous basis.

SUPERIOR COOLING FINNS

Copper tubes are mechanically bonded to highly efficient aluminum cooling fins. Die-formed fin collars provide a durable precision fit for maximum heat transfer. Custom fin design forces air to become turbulent and carry heat away more efficiently than old flat fin designs.



TANKS

State-of-the-art high temperature brazing method insures permanent bond and positive contact of tube to manifold, eliminating leaks and providing maximum service life.

CONSTRUCTION MATERIALS & RATINGS

Standard Construction Materials		Standard Unit Ratings	
Tubes	Copper	Operating Pressure	150 psig
Fins	Aluminum	Operating Temperature	400 °F
Cabinet & Pipes	Steel	Consult factory for optional materials and ratings.	
Fan Guard	Zinc Plated Steel		
Manifolds	Steel		

ACA - 6301 through ACA 6602



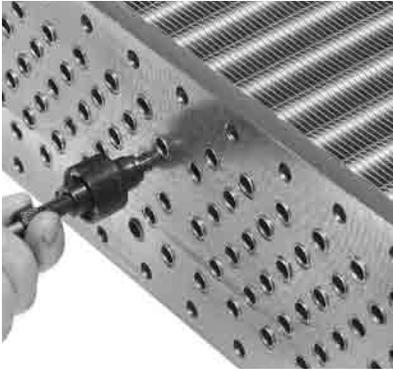
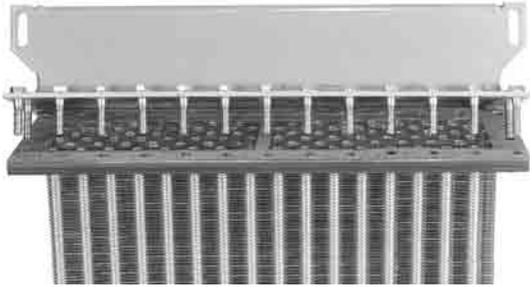
Serviceable Core® Construction

Air coolers are an essential part of any compressed air system, by cooling the air, and condensing water vapor into a liquid state for removal. When air is compressed, the compression induces heat into both the air and the water entrained in the air.

The American Industrial ACA series heat exchanger cools air with air, making it a simple inexpensive way to cool when compared to other water-cooled or refrigerant cooled systems. The unique compact *serviceable core*® design provides efficient cooling and low maintenance under the warmest environmental conditions. By using an ACA series air-cooled after cooler, machine tools will receive cooler dryer air, provide longer trouble free life, experience less down time, and be cost effective to operate on a continuous basis.

SERVICEABLE CORE®

Core covers disassemble for easy access and cleaning. Repairable design for applications that require limited down time or in the event of a mishap requiring repair. Roller expanded tube to tube-sheet joint. 100% mechanical bond. Positive gasket seal is field replaceable for field maintenance or repair.



SUPERIOR COOLING FINS

Copper tubes are mechanically bonded to highly efficient aluminum cooling fins. Die-formed fin collars provide a durable precision fit for maximum heat transfer. Custom fin design forces air to become turbulent and carry heat away more efficiently than old flat fin designs.

Standard Construction Materials		Standard Unit Ratings	
Tubes	Copper	Operating Pressure	150 psig
Fins	Aluminum	Operating Temperature	400 °F
Cabinet & Pipes	Steel	Consult factory for optional materials and ratings.	
Fan Guard	Zinc Plated Steel		
Manifolds	Steel		

ACA Series selection

Compressed Air

Normally air compressors have airflow rates based upon the horsepower. Rotary Screw compressors normally discharge air at 180 °f - 200 °f, prior to after-cooling. Reciprocating compressors normally discharge air at 250 °f - 275 °f, prior to after-cooling. Compressors are rated in CFM or cubic feet per minute of free air at inlet conditions. For practical purpose we will use sea level at 68 °f and 36% relative humidity as a norm. Altitude, differing ambient conditions with respect to temperature and humidity will all affect heat exchanger performance to a degree. Moisture content in air actually increases the Btu/hr load requirement for cooling air by adding an additional condensing load to the gas load requirement. As air rapidly cools, moisture in the compressed air stream will condense and separate into droplets, the more humidity present the more condensation will occur.

Sizing

The performance curves provided are for air. However, gases other than air may be applied to this cooler with respect to compatibility by applying a correction factor. Please take time to check the operating specifications thoroughly for material compatibility, pressure, and size before applying an American Industrial heat exchanger into your system.

Terms

Approach Temperature is the desired outlet temperature of the compressed gas minus the inlet ambient air temperature of the external air flowing over the coil.

SCFM (Standard Cubic Feet per Minute)

A cubic foot of air at 68 °f, 14.696 psia, & 36% relative humidity, per minute.

CFM (Cubic Feet per Minute)

Air at inlet atmospheric conditions.

ACFM (Actual Cubic Feet per Minute)

Air at current pressure, temperature, & humidity conditions without reference to a standard.

To Determine the Heat Load

If the heat load (Btu/hr) is unknown a value can be calculated based upon system operational requirements. To properly calculate the heat load (Btu/hr) to be rejected, several items must be known with certainty (see below).

- Flow rate SCFM (standard cubic feet pr minute)
- Type of gas and its makeup.
- System inlet pressure to the heat exchanger.
- Ambient temperature where the heat exchanger will be located (hottest condition).
- Temperature of the gas at the heat exchanger inlet.
- Temperature of the gas desired at heat exchanger outlet.
- Maximum acceptable pressure loss or cooled gas.

Using The Chart

American Industrial has created a quick reference chart for selecting ACA heat exchangers for Rotary Screw compressors (see page 214) [This chart offers basic information based upon compressor horsepower and average airflow rates. To properly use the chart, select the compressor horsepower at the left or the air flow rate. Next select the approach to ambient that is desired. Where the two columns intersect is shown the proper ACA model number.]

Using The Graphs

American Industrial provides performance graphs for ease of model selection. The following calculation examples (page 213), illustrate formulas to determine model selection sizes. It should be noted that there are some assumptions made when applying the basic principles for calculation in the formula. Altitude, humidity, materials, pressures, etc... all contribute to the final selection. Contact American Industrial for more detailed calculation.

Selection

The selection process is important, many considerations should be made when selecting a heat exchanger. Once the proper Fs requirement is calculated, it is time to apply the data to the graph and make a selection.

1) Find the Flow rate in SCFM located at the bottom of the graph. Follow the graph line up until it matches the calculated Fs from your calculations. If the point falls just above one of the model graphed lines, select the next larger size. If the point is on a line select it as your choice.

2) Check carefully the pressure differential. Units with operating pressures from 70+ psig will have no greater than 2.0 psid within the published flow range. For lower inlet pressure see the pressure drop curves for more detail.

3) Calculate a Nozzle size using the nozzle size calculation to verify your selection has the proper port sizes for your required inlet pressure.

Formula: Nozzle Calculation

$$\text{Nozzle Size} = \sqrt{\frac{(\text{SCFM} \times 4.512) \times 144}{(270,000 \times d) \times .7854}}$$

All numbers in equation are constants except for SCFM and (d) "density".

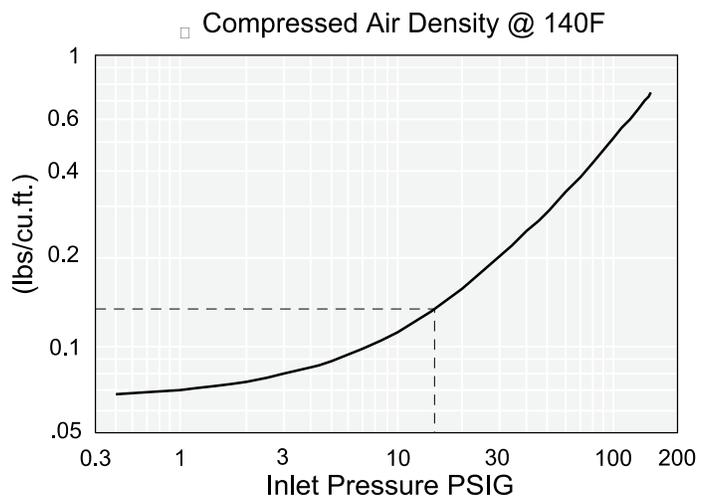
Example:

Flow rate = 200 SCFM

Pressure = 15 psig

Density = (d) from Compressed Air Density Graph

$$\sqrt{\frac{(200 \times 4.512) \times 144}{(270,000 \times .14) \times .7854}} = 2.09" \text{ or } (2" \text{ Nozzle})$$



Examples: (Note: All air flow rates must be converted to SCFM)

Application 1 Air Rotary Screw Compressor $Q = 130 \text{ scfm} \times 1.13 \times 105 \text{ deg} = 15,425 \text{ btu/hr}$

Determine the heat load "Q" =Btu/hr

$$Q = [\text{SCFM} \times \text{CF} \times (T_1 - T_2)] \text{ or } [350 \times 1.13 \times 105^\circ] = 41,528 \text{ Btu/hr}$$

T_1 = Inlet gas temperature: 200°F

T_2 = Outlet gas temperature: Ambient + 10°F= (95°F)

Determine the $F_s = \frac{\text{Btu/hr}}{T_2 - T_a}$ or $\frac{41,528}{10} =$

4,153 Fs Refer to graph example on page 215

T_a = Ambient temperature: 85°F

Airflow rate: 350 SCFM

$$F_s = 15,425 / 10 = 1,543$$

PSIG = Operating Pressure 100 psig

CF = Correction factor: 1.13

$$\text{CF} = (.0753 \times S \times C \times 60) \text{ or } (.0753 \times 1.0 \times .25 \times 60) = 1.13$$

S = Specific gravity with air being 1.0

C = Specific heat (Btu/Lb °f): .25

Model Selection - ACA-4362

$$\sqrt{\frac{[(350 \times 4.512) \times 144]}{(270,000 \times .50) \times .7854}} = 1.46" \text{ or } (1.5" \text{ minimum nozzle})$$

Application 2 Methane Gas

Determine the heat load "Q" = Btu/hr

$$Q = [\text{SCFM} \times \text{CF} \times (T_1 - T_2)] \text{ or } [500 \times 1.428 \times 210^\circ] = 149,940 \text{ Btu/hr}$$

T_1 = Inlet gas temperature: 300°F

T_2 = Outlet gas temperature: 90°F

T_a = Ambient temperature: 60°F

Gas flow rate: 500 SCFM

Determine the $F_s = \frac{\text{Btu/hr}}{T_2 - T_a}$ or $\frac{149,940}{30} =$

4,998 Fs Refer to graph example on page 215

PSIG = Operating pressure: 150 psig

CF = Correction factor: 1.428

$$\text{CF} = (.0753 \times S \times C \times 60) \text{ or } (.0753 \times .55 \times .575 \times 60) = 1.428$$

S = Specific gravity with air being 1.0: .55

C = Specific heat (Btu/Lb °f)

Model Selection - ACA-6421

$$\sqrt{\frac{[(500 \times 4.512) \times 144]}{(270,000 \times .74) \times .7854}} = 1.44" \text{ or } (1.5" \text{ minimum nozzle})$$

Application 3 Low Pressure Blower

Determine the heat load "Q" = Btu/hr

$$Q = [\text{SCFM} \times \text{CF} \times (T_1 - T_2)] \text{ or } [76 \times 1.13 \times 150^\circ] = 12,882 \text{ Btu/hr}$$

T_1 = Inlet gas temperature: 250°F

T_2 = Outlet gas temperature: 100°F

T_a = Ambient temperature: 90°F

CF = Correction Factor: 1.13

Determine the $F_s = \frac{\text{Btu/hr}}{T_2 - T_a}$ or $\frac{12,882}{10} =$

1,288 Fs Refer to graph example on page 215

PSIG = Operating pressure: 2 psig

Airflow rate: 90 ACFM

To Convert

$$\text{ACFM to SCFM} = \frac{\text{ACFM} \times (\text{PSIG} + 14.7) \times 528}{(T_1 + 460) \times 14.7} = \frac{90 \times 16.7 \times 528}{710 \times 14.7} = 76 \text{ SCFM}$$

S = Specific gravity with air being 1.0

C = Specific heat (Btu/lb °f): .25

$\Delta P = 5"$ water column or less (example pg. 220)

Model Selection - ACA-3302

$$\sqrt{\frac{[(76 \times 4.512) \times 144]}{(270,000 \times .075) \times .7854}} = 1.76" \text{ or } (2.0" \text{ minimum nozzle})$$

Pressure Drop (see page 220 for graphs)

Since gas is compressible the density of the gas changes from one temperature or pressure to the next. While the mass flow rate may not change, the pressure differential across the heat exchanger will change dramatically from high (70-125 psig) to low (1-5 psig) pressure. A low pressure condition requires larger carrying lines to move flow than does the same gas rate under a higher pressure. At lower pressures the differential pressure across the heat exchanger can be quite high compared to the same flow rate at a higher pressure. For that reason it is suggested that the pressure differential graphs on page 220 be consulted prior to making your final selection.

The ACA series heat exchanger is designed to be easily modified to accept larger port sizes in the event your system pressure requires larger nozzles. Consult our engineering department for more exacting information regarding pressure differential issues.

ROTARY SCREW COMPRESSORS (200°F @ 125 PSI & 36% relative humidity)

Compressor Horse Power (HP)	Average Air Discharge Cubic feet per minute (SCFM)	Model Size Selection			
		*Approach Temperature °F ($T_2 - T_a$)			
		5°F	10°F	15°F	20°F
15	60	ACA - 3302	ACA - 3242	ACA - 3242	ACA - 3182
20	80	ACA - 3302	ACA - 3242	ACA - 3242	ACA - 3182
30	130	ACA - 3362	ACA - 3302	ACA - 3242	ACA - 3242
40	165	ACA - 3362	ACA - 3302	ACA - 3302	ACA - 3242
60	250	ACA - 4362	ACA - 3362	ACA - 3302	ACA - 3302
75	350	ACA - 6362	ACA - 4362	ACA - 3362	ACA - 3302
100	470	ACA - 6362	ACA - 6362	ACA - 3362	ACA - 3362
125	590	ACA - 6422	ACA - 6362	ACA - 4362	ACA - 3362
150	710	ACA - 6422	ACA - 6362	ACA - 6362	ACA - 4362
200	945	ACA - 6482	ACA - 6422	ACA - 6362	ACA - 6362
250	1160	ACA - 6482	ACA - 6422	ACA - 6362	ACA - 6362
300	1450	ACA - 6542	ACA - 6482	ACA - 6422	ACA - 6362
350	1630	ACA - 6542	ACA - 6482	ACA - 6422	ACA - 6362
400	1830	ACA - 6602	ACA - 6482	ACA - 6422	ACA - 6422
500	2150	ACA - 6602	ACA - 6542	ACA - 6482	ACA - 6422

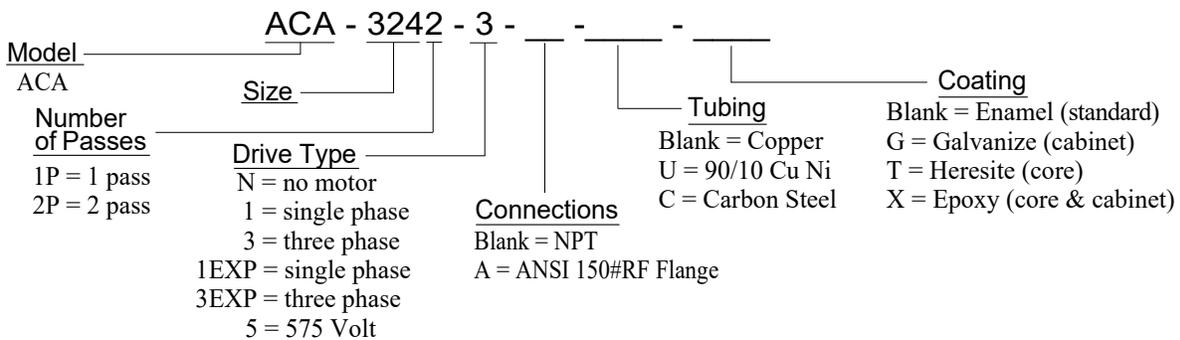
*Approach Temperature

the desired outlet temperature of the compressed gas minus the inlet ambient air temperature of the external air flowing over the coil.

T_2 - Outlet gas temperature

T_a - Ambient temperature

Example of a model:



Using the performance graphs (page 215)

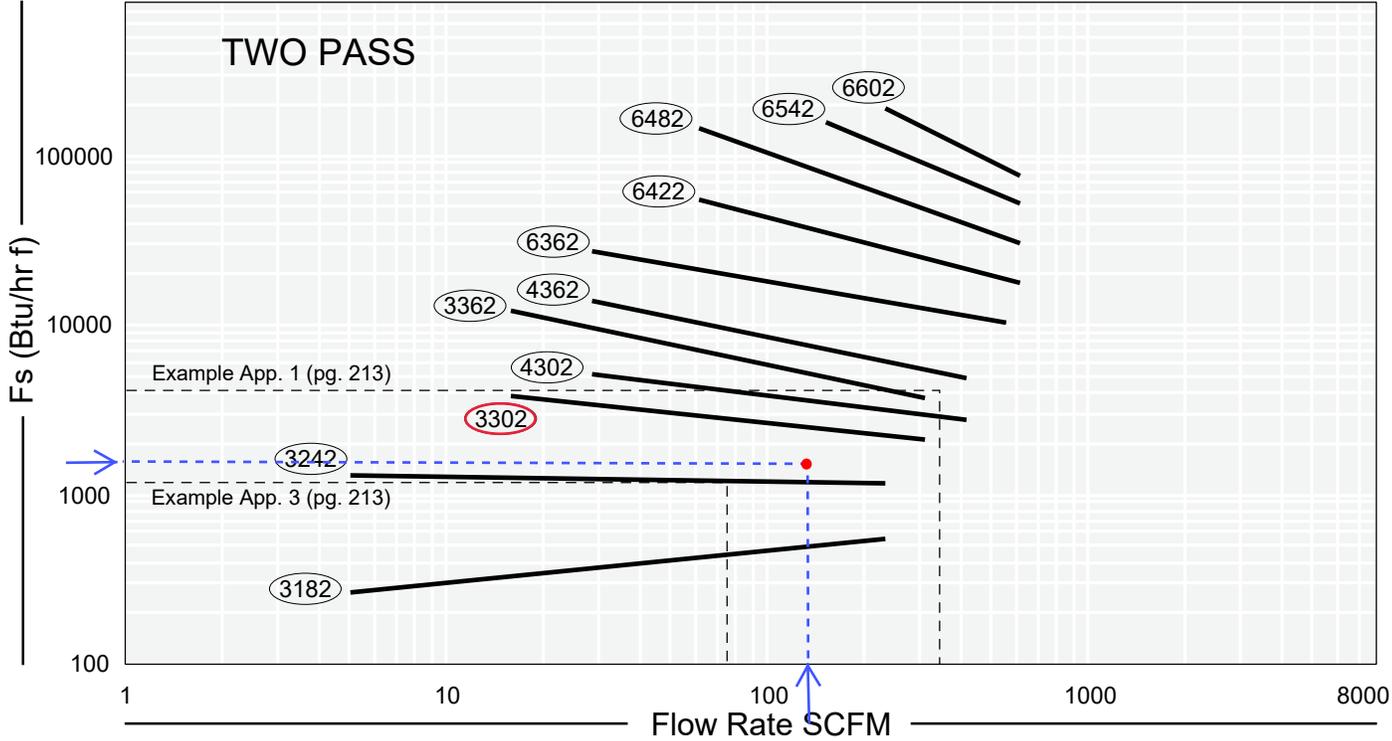
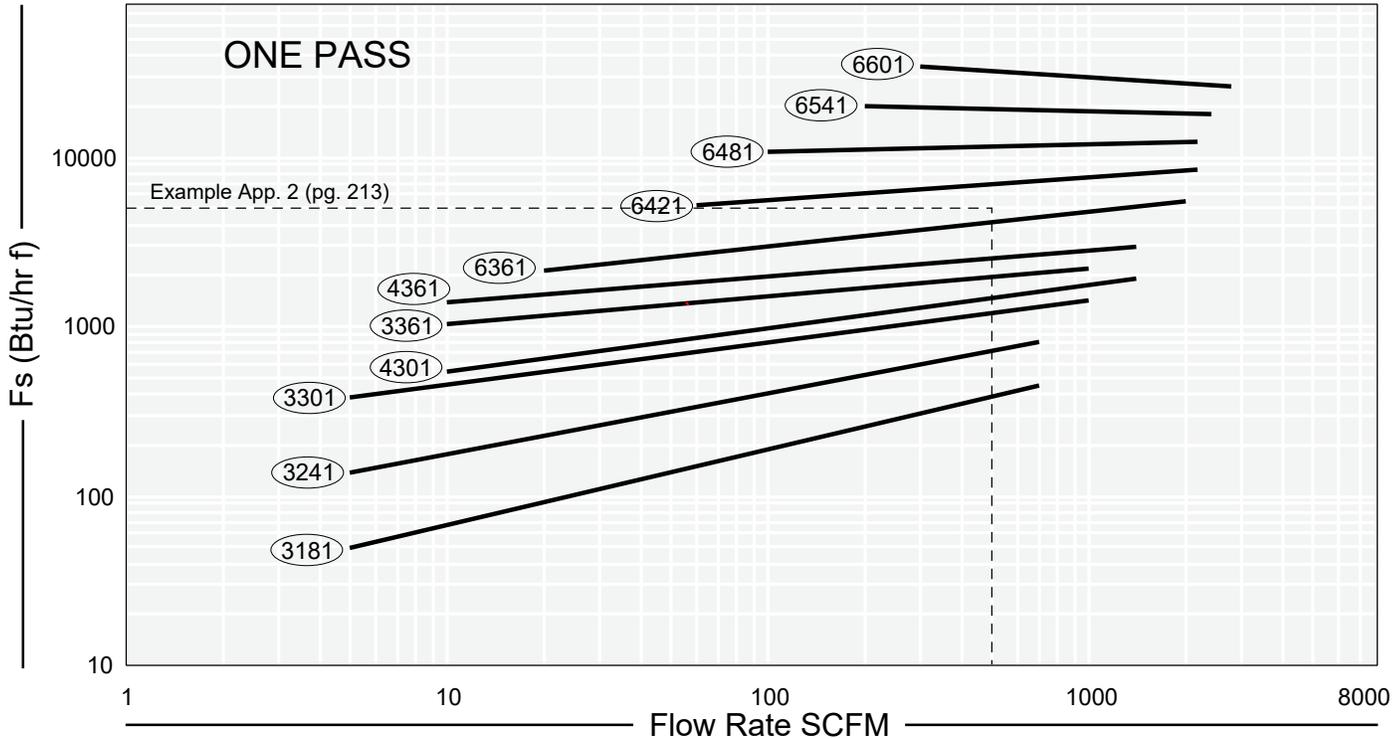
The Flow vs. F_s graph is calculated based upon SCFM units.

To convert volumetric Actual Cubic Feet per Minute (ACFM) into Standard Cubic Feet per Minute (SCFM) see page 213 application 3.

To select a model, locate the flow rate in SCFM located at the bottom of the graph. Proceed upward on the graph until the SCFM flow rate intersects with the calculated

F_s . The curve closest, on or above the intersection point is the proper selection.

Using the one pass graph or two-pass graph depends upon pressure differential, flow, and performance requirements. The actual surface area for one or two pass units is the same. However, the airflow velocity in the tubes increases with the number of passes giving slightly higher pressure differentials and better cooling performance.



Example

Application #3 (p.5)

SCFM = 76

ΔPSI required = 5" H2O

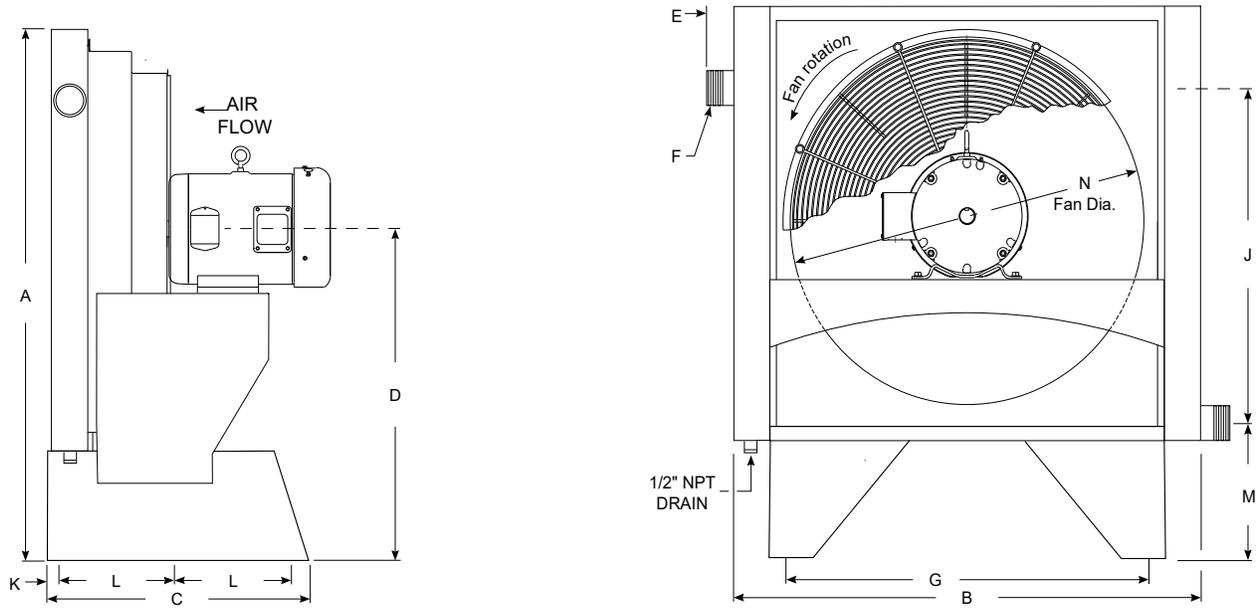
Model selection = ACA-6421-3

F_s = 1,288 Nozzle check (p.4) = 3.10 or 3"NPT

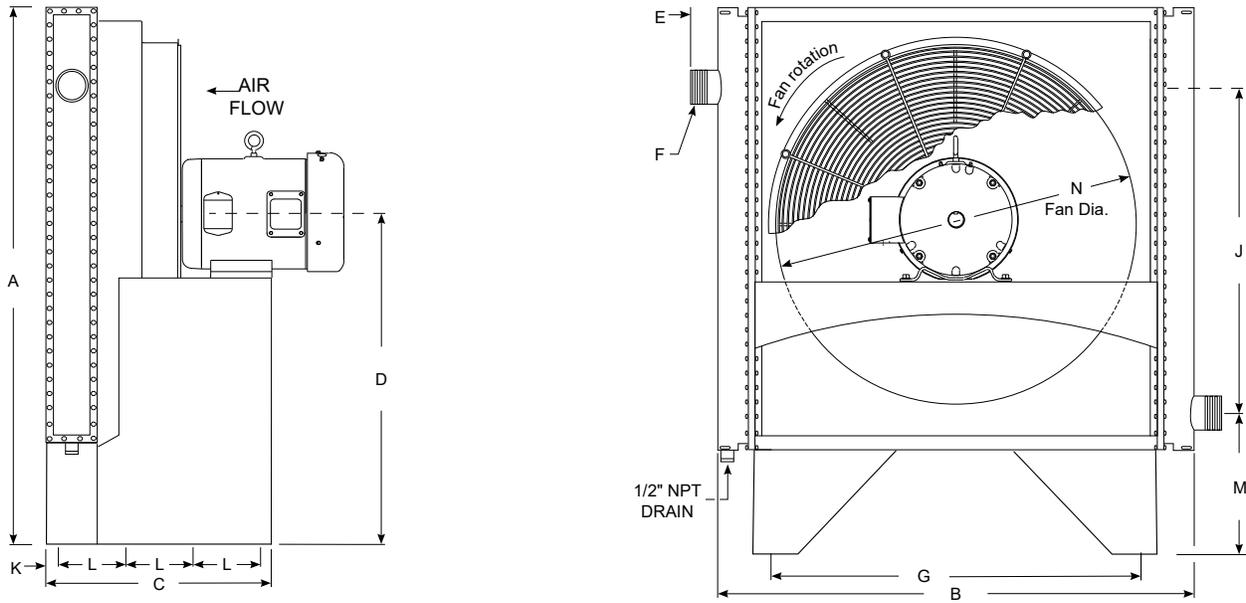
$$F_s = \frac{\text{Heat Load (Btu/hr)}}{\text{Process exiting temperature } (T_2) - \text{Ambient air entering the cooler } (T_a) \text{ from cooler}}$$

note: AIHTI reserves the right to make reasonable design changes without notice.

ACA Series dimensions



ACA - 3181 through ACA - 4361

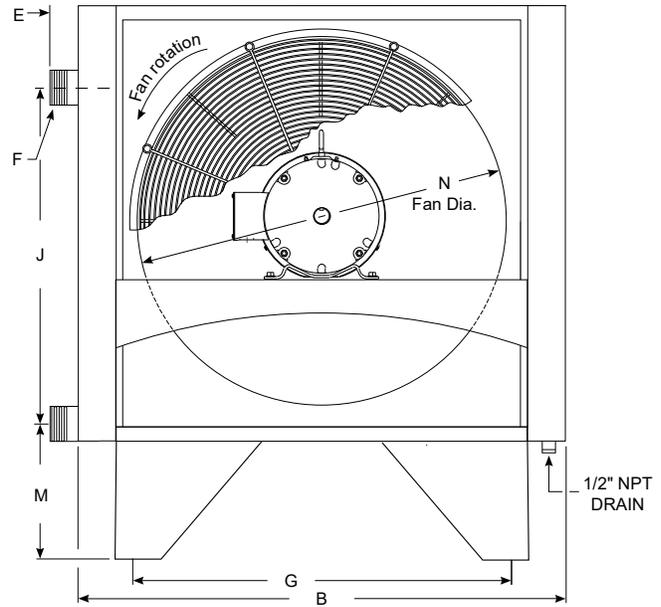
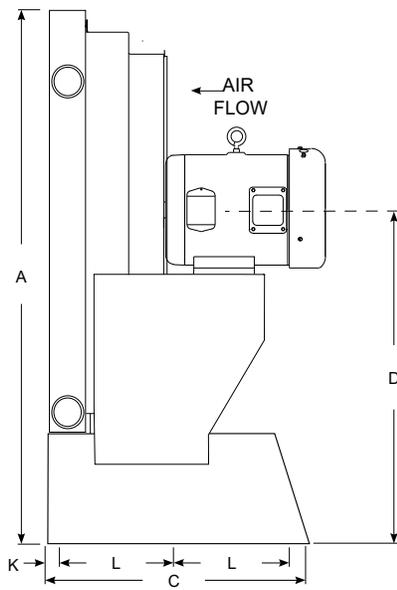


ACA - 6301 through ACA - 6601

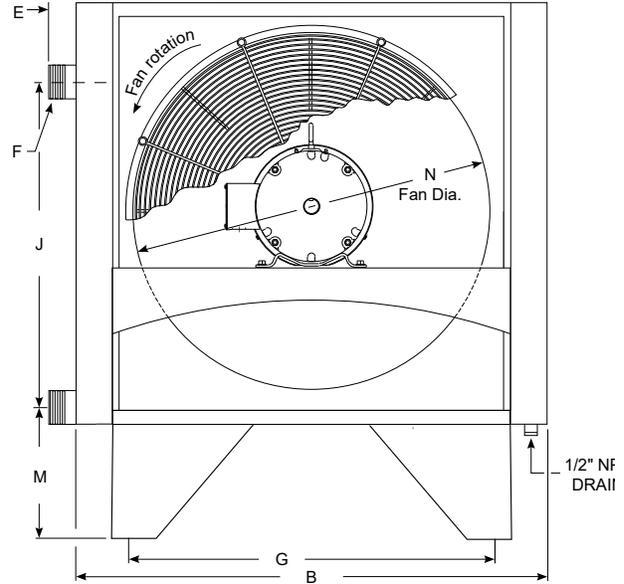
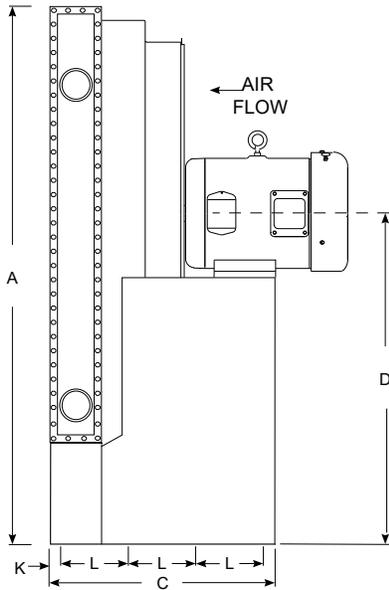
DIMENSIONS (inches)												
Model	A	B	C	D	E	F NPT	G	J	K	L	M	N
ACA - 3181	30.6	23.0	19.8	20.25	2.5	1.5	16.3	12.98	1.5	8.38	11.93	14.0
ACA - 3241	36.6	29.0	19.8	23.25	2.5	1.5	22.3	17.48	1.5	8.38	11.93	22.0
ACA - 3301	42.6	35.0	19.8	26.25	2.5	2.0	28.3	21.75	1.5	8.38	12.15	28.0
ACA - 4301	42.6	36.0	19.8	26.25	2.5	2.5	28.3	21.55	1.5	8.38	12.35	28.0
ACA - 6301	42.6	38.8	19.8	26.25	2.5	3.0	28.3	21.07	1.5	8.38	12.98	28.0
ACA - 3361	48.6	41.0	19.8	29.25	2.5	2.0	34.3	26.25	1.5	8.38	12.15	32.0
ACA - 4361	48.6	42.0	19.8	29.25	2.5	2.5	34.4	26.05	1.5	8.38	12.35	32.0
ACA - 6361	48.5	43.9	19.8	29.25	2.5	3.0	34.3	26.0	1.5	8.38	12.7	32.0
ACA - 6421	54.5	50.8	27.36	32.25	2.5	4.0	40.3	29.4	2.0	6.75	13.3	36.0
ACA - 6481	60.6	56.8	27.36	35.25	2.5	4.0	46.3	34.1	2.0	6.75	13.3	42.0
ACA - 6541	66.6	62.8	28.83	38.25	2.5	4.0	52.3	38.6	2.0	6.75	13.3	48.0
ACA - 6601	72.4	67.9	30.6	41.25	2.5	4.0	58.3	43.05	2.0	6.75	13.3	48.0

note: AIHTI reserves the right to make reasonable design changes without notice.

ACA Series dimensions



ACA - 3182 through ACA - 4362



ACA - 6302 through ACA - 6602

DIMENSIONS (inches)												
Model	A	B	C	D	E	F NPT	G	J	K	L	M	N
ACA - 3182	30.6	23.0	19.8	20.25	2.5	1.5	16.3	12.98	1.5	8.38	11.93	14.0
ACA - 3242	36.6	29.0	19.8	23.25	2.5	1.5	22.3	17.48	1.5	8.38	11.93	22.0
ACA - 3302	42.6	35.0	19.8	26.25	2.5	2.0	28.3	21.75	1.5	8.38	12.15	28.0
ACA - 4302	42.6	36.0	19.8	26.25	2.5	2.5	28.3	21.55	1.5	8.38	12.35	28.0
ACA - 6302	42.6	38.8	19.8	26.25	2.5	3.0	28.3	21.07	1.5	8.38	12.98	28.0
ACA - 3362	48.6	41.0	19.8	29.25	2.5	2.0	34.3	26.25	1.5	8.38	12.15	32.0
ACA - 4362	48.6	42.0	19.8	29.25	2.5	2.5	34.4	26.05	1.5	8.38	12.35	32.0
ACA - 6362	48.5	43.9	19.8	29.25	2.5	3.0	34.3	26.0	1.5	8.38	12.7	32.0
ACA - 6422	54.5	50.8	27.36	32.25	2.5	4.0	40.3	29.4	2.0	6.75	13.3	36.0
ACA - 6482	60.6	56.8	27.36	35.25	2.5	4.0	46.3	34.1	2.0	6.75	13.3	42.0
ACA - 6542	66.6	62.8	28.83	38.25	2.5	4.0	52.3	38.6	2.0	6.75	13.3	48.0
ACA - 6602	72.4	67.9	30.6	41.25	2.5	4.0	58.3	43.05	2.0	6.75	13.3	48.0

note: AIHTI reserves the right to make reasonable design changes without notice.

ELECTRIC MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2- 1	.25	1	60-50	115/230 - 90/190	1725-1440	48	TEFC	3.2/1.6/2.8-1.4	1.15	NO
ACA- 3181/2- 3	.25	3	60-50	208 - 230/460 - 190/380	1725-1440	48	TEFC	1.3/.65/1.1-.55	1.15	NO
ACA- 3241/2- 1	.25	1	60-50	115/230 - 90/190	1140-950	56	TEFC	6.8/3.1-3.4	1.15	NO
ACA- 3241/2- 3	.25	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	1.7/2.0/1.0	1.15	NO
ACA- 3301/2- 1	.5	1	60-50	115/230 - 90/190	1140-950	56	TEFC	9.6/4.7-4.8/10.4/5.2	1.15	NO
ACA- 3301/2- 3	.5	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	2.4-2.7/1.35-2.5/1.25	1.15	NO
ACA- 4301/2- 1	.5	1	60-50	115/230 - 90/190	1140-950	56	TEFC	9.6/4.7-4.8/10.4/5.2	1.15	NO
ACA- 4301/2- 3	.5	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	2.4-2.7/1.35-2.5/1.25	1.15	NO
ACA- 6301/2- 3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 3361/2- 3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 4361/2- 3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 6361/2- 3	3.0	3	60-50	208 - 230/460 - 190/380	1725-1440	182T	TEFC	8.4-6.8/3.4	1.15	NO
ACA- 6421/2- 3	5.0	3	60-50	208 - 230/460 - 190/380	1140-950	213T	TEFC	8.2-7.6/3.8	1.15	NO
ACA- 6481/2- 3	5.0	3	60-50	208 - 230/460 - 190/380	1140-950	213T	TEFC	14.0/7.0	1.15	NO
ACA- 6541/2- 3	7.5	3	60-50	208 - 230/460 - 190/380	1140-950	254T	TEFC	20.4/10.2	1.15	NO
ACA- 6601/2- 3	10	3	60-50	208 - 230/460 - 190/380	1140-950	256T	TEFC	28.0/14.0	1.15	NO

ELECTRIC MOTOR NOTES:

- Motor electrical ratings are an approximate guide and may vary between motor manufacturers. Consult ratings on motor data plate prior to installation and operation.
- Explosion proof, high temperature, severe duty, chemical, IEC, Canadian Standards Association, and Underwriters Laboratory recognized motors are available upon request.
- American Industrial reserves the right to enact changes to motor brand, type and ratings regarding horsepower, RPM,FLA,and service factor for standard products without notice. All specific requirements will be honored without change.
- Fan rotation is clockwise when facing the motor shaft.
- The above motors contain factory lubricated shielded ball bearings (no additional lubrication is required).

6) Abbreviation Index

TEFC.....Totally Enclosed, Fan Cooled
 EXP.....Explosion Proof

CLASS I, DIV.1, GROUP D or CLASS II, DIV.2, GROUP F & G EXPLOSION PROOF MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2- 1	.25	1	60	115/230	1725	48	EXP	5.8/2.8	1.0	YES
ACA- 3181/2- 3	.25	3	60	208-230/460	1725	48	EXP	1.4-1.3/.65	1.0	YES
ACA- 3241/2- 3	.33	1	60	115/230	1140	56	EXP	7.8/3.5	1.0	YES
ACA- 3241/2- 1	.33	3	60	208-230/460	1140	56	EXP	1.18-1.6/8	1.0	YES
ACA- 3301/2- 3	.75	1	60	115/230	1140	56	EXP	9.4/4.8	1.0	YES
ACA- 3301/2- 1	.75	3	60	208-230/460	1140	56	EXP	2.5-2.4/1.2	1.0	YES
ACA- 4301/2- 3	.75	1	60	115/230	1140	56	EXP	9.4/4.8	1.0	YES
ACA- 4301/2- 1	.75	3	60	208-230/460	1140	56	EXP	2.5-2.4/1.2	1.0	YES
ACA- 6301/2- 1	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.0	YES
ACA- 3361/2- 3	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.0	YES
ACA- 4361/2- 3	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.15	YES
ACA- 6361/2- 3	3	3	60	230/460	1725	182	EXP	8.8/4.4	1.15	YES
ACA- 6421/2- 3	5	3	60	230/460	1160	215	EXP	15.0-13.8/6.9	1.15	YES
ACA- 6481/2- 3	5	3	60	230/460	1160	215	EXP	15.0-13.8/6.9	1.15	YES
ACA- 6541/2- 3	7.5	3	60	230/460	1160	256	EXP	21.6-20.4/10.2	1.15	YES
ACA- 6601/2- 3	10	3	60	230/460	1160	256	EXP	29-26/13	1.15	YES

NOTE: Basic electric drive units are supplied with one of the corresponding above listed motors.

575 VOLT ELECTRIC MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2 -5	1/3	3	60	575	1725	56	TEFC	.52 .56	1.15	NO
ACA- 3241/2 -5	1/3	3	60	575	1140	56	TEFC	.52 .56	1.15	NO
ACA- 3301/2 -5	1/2	3	60	575	1140	56	TEFC	1.08	1.15	NO
ACA- 4301/2 -5	1/2	3	60	575	1140	56	TEFC	1.08	1.15	NO
ACA- 6301/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 3361/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 4361/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 6361/2 -5	3	3	60	575	1725	182T	TEFC	3.3	1.15	NO
ACA- 6421/2 -5	5	3	60	575	1140	213T	TEFC	5.9	1.15	NO
ACA- 6481/2 -5	5	3	60	575	1140	213T	TEFC	5.9	1.15	NO
ACA- 6541/2 -5	7.5	3	60	575	1140	254T	TEFC	8.0	1.15	NO
ACA- 6601/2 -5	10	3	60	575	1140	256T	TEFC	10.5	1.15	NO

COMMON DATA

Model	Air Flow		Sound Level dB(A) @ 7ft	Weight		Serviceable Core
	CFM	m³/s		w/ motor	w/o motor	
ACA-3181/2	1550	0.731	72	131	111	NO
ACA-3241/2	2900	1.36	76	154	134	NO
ACA-3301/2	4450	2.10	76	184	160	NO
ACA-4301/2	4450	2.10	76	211	187	NO
ACA-6301/2	4450	2.10	76	343	305	YES
ACA-3361/2	6350	2.99	79	243	205	NO
ACA-4361/2	6350	2.99	79	289	251	NO
ACA-6361/2	10500	4.95	91	402	342	YES
ACA-6421/2	14300	6.75	87	636	443	YES
ACA-6481/2	18700	8.82	88	753	560	YES
ACA-6541/2	23350	11.02	91	938	691	YES
ACA-6601/2	29300	13.83	91	1104	835	YES

NOTES:

TEFC = Totally Enclosed, Fan Cooled

To estimate the sound level at distances other than 7 feet (2.1 meters) from the cooler, add 6 db for each halving of distance, or subtract 6 db for each doubling of the distance.

Example:

The Sound Level of the ACA-3181/2 is 72 dB at 7ft. At 3.5ft (7ft x 0.5 = 3.5ft) the sound level is 66 dB (72dB - 6dB = 66dB). At 14ft (7ft x 2 = 14ft) the sound level is 78dB (72dB + 6dB = 78dB).

Pressure Drop Graphs (see page 220)

Each graph represents a specific pressure drop at differing flow rates and inlet pressures. The four graphs for each model series size represents the more popular milestone pressure differentials commonly applied.

To use the graphs for selection purposes follow the steps below.

- 1) Locate the operating pressure at the bottom of the desired pressure drop chart.
- 2) Locate the flow rate in SCFM at the left end of the chart.
- 3) Follow the "Pressure" line vertically and the "Flow" line horizontally until they cross, note the location.
- 4) The curve on, or closest above will be exact or less pressure drop than requested and suitable for the application.
- 5) There may be several units shown above the intersection point, all of which will produce less than the desired pressure drop at the required flow.

Example: Application 3 Low Pressure Blower

Flow = 76 SCFM

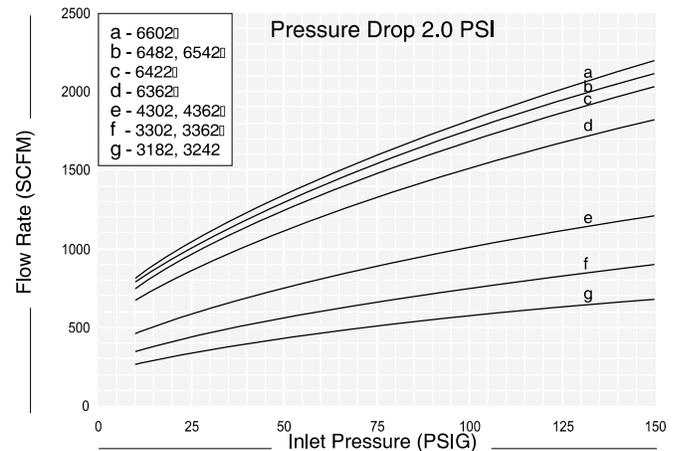
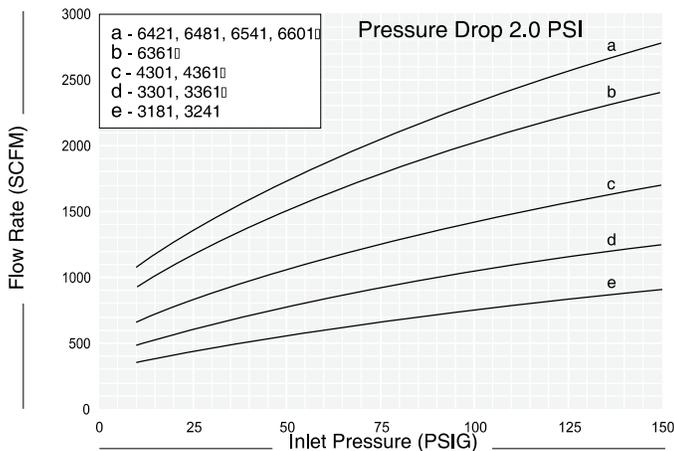
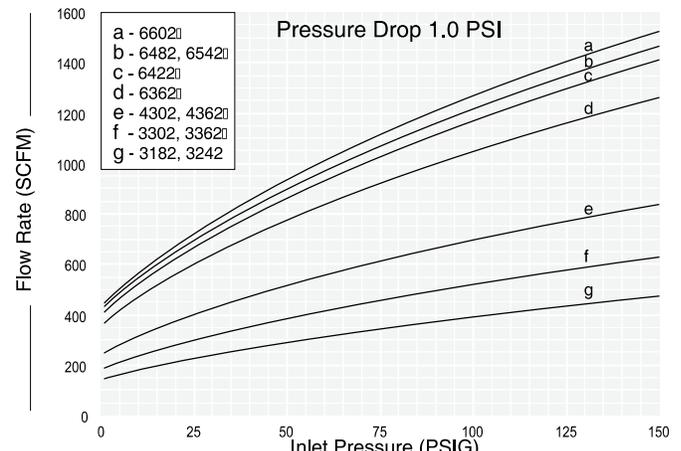
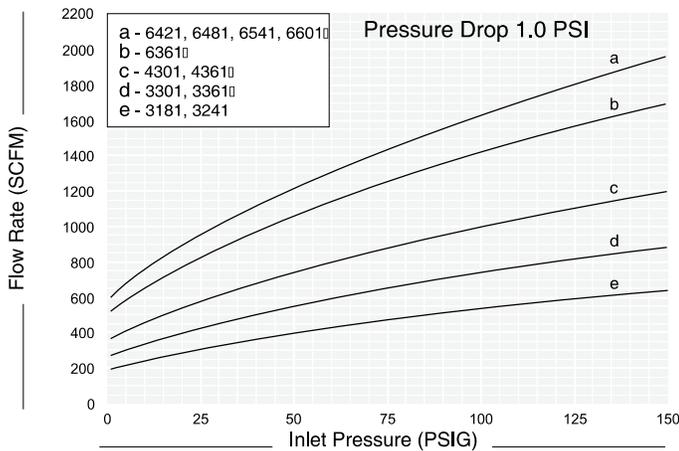
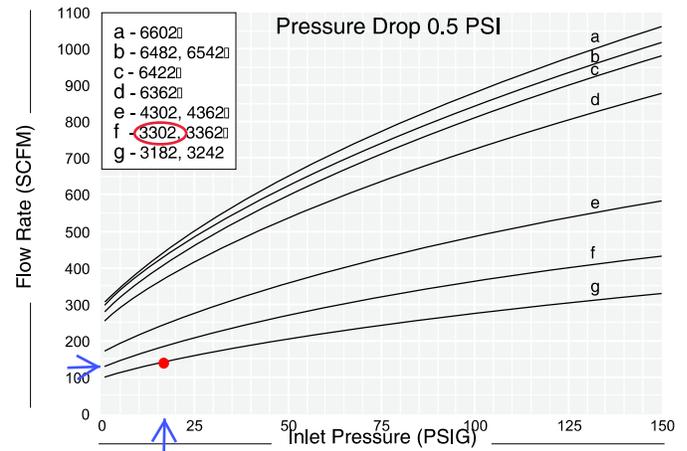
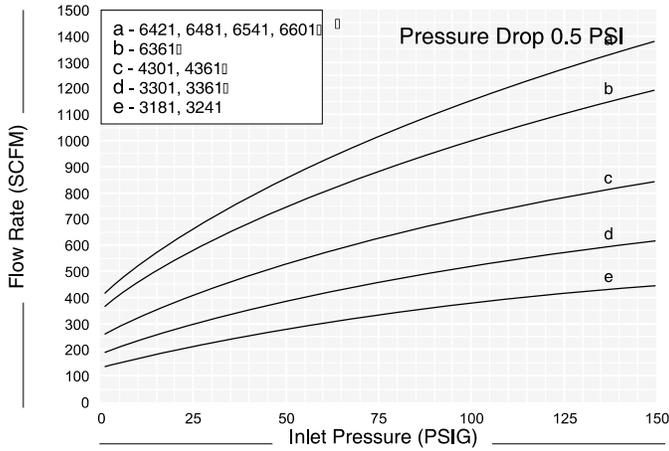
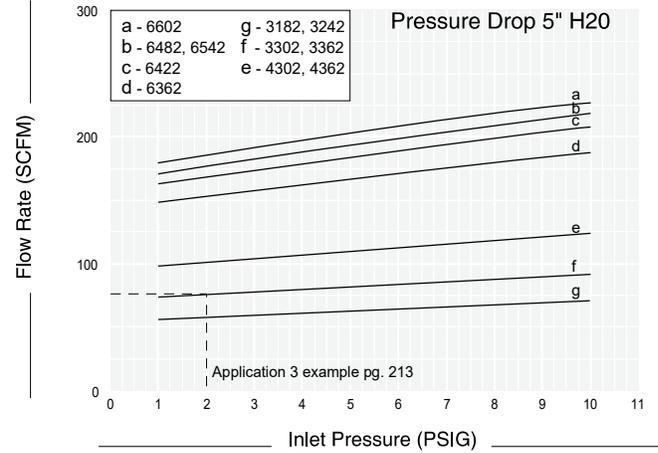
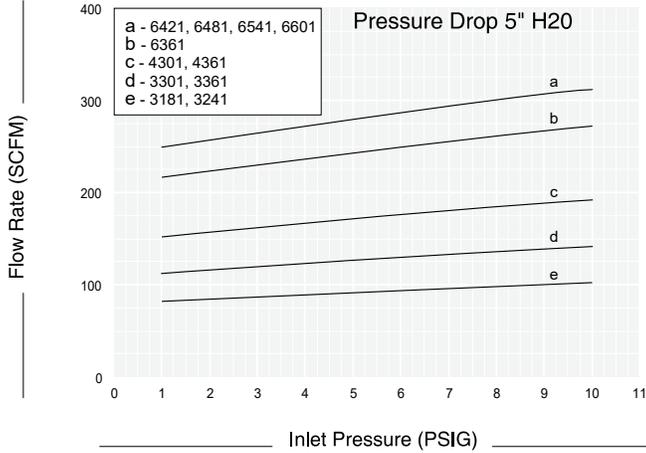
Operating pressure = 2 PSIG

Initial selection from graph page 215 = ACA-3302

Desired pressure drop = 5" H2O or less. (USE the "Pressure Drop 5" H2O" curves page 220)

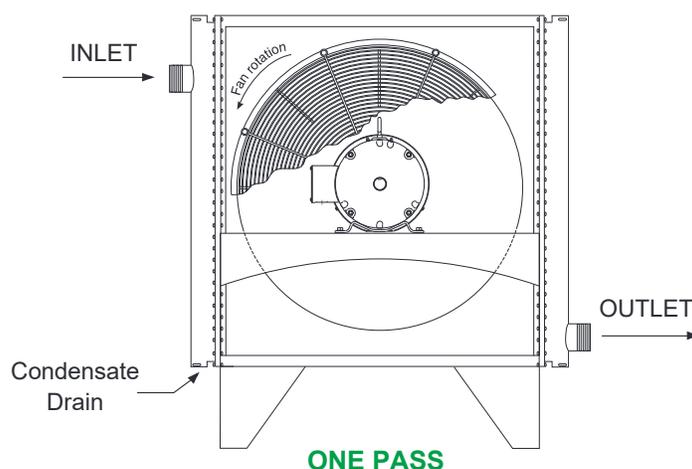
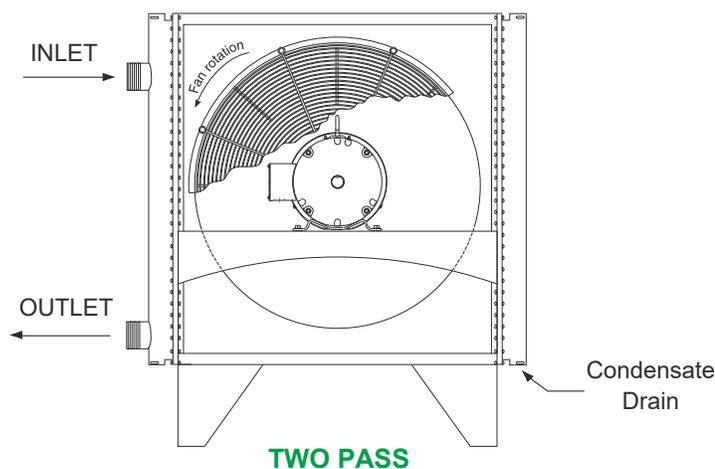
From the pressure drop graph, page 220. Acceptable choice - ACA-3302 is on the line, ACA-3242 is well below the line. The ACA-3302 meets the pressure drop requirement, but exceeds the capacity requirement. However, even though the ACA-3242 exceeds 5" of water pressure drop, other considerations should be made prior to selection such as unit physical size, cost, availability, and port size.

ACA Series pressure drop graphs



note: AIHTI reserves the right to make reasonable design changes without notice.

PIPING HOOK UP



Receiving:

a) Inspect unit for any shipping damage before uncrating. Indicate all damages to the trucking firms' delivery person and mark it on the receiving bill before accepting the freight. Make sure that the core and fan are not damaged. Rotate the fan blade to make sure that it moves freely. The published weight information located in this brochure is approximate. True shipment weights are determined at the time of shipping and may vary. Approximate weight information published herein is for engineering approximation purposes and should not be used for exact shipping weight. *Since the warranty is based upon the unit date code located on the model identification tag, removal or manipulation of the identification tag will void the manufacturer's warranty.*

b) When handling the ACA heat exchanger, special care should be taken to avoid damage to the core and fan. All units are shipped with wood skids for easy forklift handling

c) Standard Enamel Coating: American Industrial provides its standard products with a normal base coat of oil base air cure enamel paint. The enamel paint is applied as a temporary protective and esthetic coating prior to shipment. While the standard enamel coating is durable, American Industrial does not warrant it as a long-term finish coating. It is strongly suggested that a more durable final coating be applied after installation or prior to long-term storage in a corrosive environment to cover any accidental scratches, enhance esthetics, and further prevent corrosion. It is the responsibility of the customer to provide regular maintenance against chips, scratches, etc... and regular touch up maintenance must be provided for long-term benefits and corrosion prevention.

Installation:

a) American Industrial recommends that the equipment supplied should be installed by qualified personal who have solid understanding of system design, pressure and temperature ratings, and piping assembly. Verify the service conditions of the system prior to applying any ACA series cooler. If the system pressure or temperature does not fall within the parameters on ACA rat-

ing tag located on the heat exchanger, contact our factory prior to installation or operation.

b) In order for the heat exchanger to properly function, installation should be made with minimum airflow obstruction distance of not less than twenty (20) inches on both fan intake and exiting side of the heat exchanger.

c) Process piping should be as indicated above with the process flow entering into the upper port and exiting out the lower port (see illustration). This configuration will allow for condensate moisture to drain completely from the equipment. It is recommended that an air separator or automatic drip leg be applied to the outlet side of the heat exchanger to trap any moisture that develops.

d) Flow line sizes should be sized to handle the appropriate flow to meet the system pressure drop requirements. If the nozzle size of the heat exchanger is smaller than the process line size an increased pressure differential at the heat exchanger may occur.

e) ACA series coolers are produced with both brazed ACA-3181 through ACA-4362, and serviceable core® ACA-6301 through ACA-6602 style coils. A brazed construction coil does not allow internal tube access. A serviceable core® will allow full accessibility to the internal tubes for cleaning and maintenance. ACA series coolers are rated for 150 PSIG working pressure, and a 400°f working temperature.

f) Special Coatings: American Industrial offers as customer options, Air-Dry Epoxy, and Heresite (Air-Dry Phenolic) coatings at additional cost. American Industrial offers special coatings upon request, however American Industrial does not warrant coatings to be a permanent solution for any equipment against corrosion. It is the responsibility of the customer to provide regular maintenance against chips, scratches, etc... and regular touch up maintenance must be provided for long-term benefits and corrosion prevention.

ACA Series installation & maintenance

g) Electric motors should be connected only to supply source of the same characteristics as indicated on the electric motor information plate. Prior to starting, verify that the motor and fan spin freely without obstruction. Check carefully that the fan turns in the correct rotation direction normally counter clockwise from the motor side (fan direction arrow). Failure to operate the fan in the proper direction could reduce performance or cause serious damage to the heat exchanger or other components. Fan blades should be rechecked for tightness after the first 100 hours of operation.

Maintenance

Regular maintenance intervals based upon the surrounding and operational conditions should be maintained to verify equipment performance and to prevent premature component failure. Since some of the components such as, motors, fans, load adapters, etc... are not manufactured by American Industrial maintenance requirements provided by the manufacture must be followed.

a) Inspect the entire heat exchanger and motor/fan assembly for loosened bolts, loose connections, broken components, rust spots, corrosion, fin/coil clogging, or external leakage. Make immediate repairs to all affected areas prior to restarting and operating the heat exchanger or its components.

b) Heat exchangers operating in oily or dusty environments will often need to have the coil cooling fins cleaned. Oily or clogged fins should be cleaned by carefully brushing the fins and tubes with water or a non-aggressive degreasing agent mixture (Note: Cleaning agents that are not compatible with copper, brass, aluminum, steel or stainless steel should not be used). A compressed air or a water stream can be used to dislodge dirt and clean the coil further. Any external dirt or oil on the electric motor and fan assembly should be removed. Caution: Be sure to disconnect the electric motor from its power source prior to doing any maintenance.

c) In most cases it is not necessary to internally flush the coil. In circumstances where the coil has become plugged or has a substantial buildup of material, flushing the coil with water or a solvent may be done. Flushing solvents should be non-aggressive suitable for the materials of construction. Serviceable Core® models can be disassembled and inspected or cleaned if required.

d) Most low horsepower electric motors do not require any additional lubrication. However, larger motors must be lubricated with good quality grease as specified by the manufacture at least once every 6-9 months or as directed by the manufacture. T.E.F.C. air ventilation slots should be inspected and cleaned regularly to prevent clogging and starving the motor of cooling air. To maintain the electric motor properly see the manufactures requirements and specifications.

e) Fan blades should be cleaned and inspected for tightness during the regular maintenance schedule when handling a fan blade care must be given to avoid bending or striking any of the blades. Fan blades are factory balanced and will not operate properly if damaged or unbalanced. Damaged fan blades can cause excessive vibration and severe damage to the heat exchanger or drive motor.

Replace any damaged fan with an American industrial suggested replacement.

f) ACA heat exchanger cabinets are constructed using 7ga. through 18ga. steel that may be bent back into position if damaged. Parts that are not repairable can be purchased through American Industrial.

g) Coil fins that become flattened can be combed back into position. This process may require removal of the coil from the cabinet.

h) It is not advisable to attempt repairs to brazed joints of a brazed construction coil unless it will be done by an expert in silver solder brazing. Brazed coils are heated uniformly during the original manufacturing process to prevent weak zones from occurring. Uncontrolled reheating of the coil may result in weakening of the tube joints surrounding the repair area. In many instances brazed units that are repaired will not hold up as well to the rigors of the system as will a new coil. American Industrial will not warranty or be responsible for any repairs done by unauthorized sources. Manipulation in any way other than normal application will void the manufactures warranty.

i) Units containing a Serviceable Core® have bolted manifold covers that can be removed for cleaning or repair purposes.

Service Sequence

American Industrial has gone to great lengths to provide components that are repairable. If the ACA unit requires internal cleaning or attention the following steps will explain what must be done to access the internal tubes. Be sure to order gasket kits or repair parts prior to removal and disassembly to minimize down time.

a) To clean the internal tubes first remove all connection pipes from the unit.

b) Be sure the unit is drained of all water etc...

c) Place the ACA unit in an area that it can be accessed from all sides.

d) Remove the manifold cover bolts and hardware and place them into a secure place.

e) The manifold covers are tightly compressed and may need some prying to separate them from the gasket, physically remove the cover assemblies from both sides.

f) The tubes are now accessible for cleaning. We suggest a mild water-soluble degreaser be used with a brush. Tubing I.D. is .325 a plastic bristle brush on a rod will work best for cleaning the tubes. Steel brushes should be avoided since the steel is harder than the copper tubing and may heavily score the tubes if used.

g) If there are any leaking tubes you may plug them by forcing a soft metal plug into the hole and tapping it tight. You may in some cases weld the leaking tube shut however, care should be taken since excessive heat may cause surrounding tube joints to loosen and leak.

Sensaphone 400 & 800 Series

Features and Specifications

Inputs

Accept four different inputs – either temperature or a contact type sensor.

CONTACT
SERIES

2.8K
SERIES

Output

Use in conjunction with the dual setback thermostat to control the temperature between two set points. Or control a light, siren or other device.

Keypad

Makes programming simple and easy. LED lights give a quick visual status.

Battery Backup

Rest easy knowing that even if the power goes out, the 400 will keep monitoring.

Power

Comes with a plug in power supply that also monitors for power failures.

Phone Line

Call up to four different phone numbers when an alarm has been detected.

Speaker/Microphone

Record messages in your own voice, listen in from over the phone or be alerted if you're nearby when there is an alarm.



The Sensaphone 800 has the same features as the model 400, but adds an additional four inputs and additional four phone numbers.

Popular Sensors & Accessories

2.8K Room Temperature SensorFGD-0100	Zone Water Detection SensorFGD-0056
2.8K Weatherproof Temperature Sensor FGD-0101	Infrared Motion Detection SensorFGD-0007
Temp Alert Temperature SwitchFGD-0022	Smoke Detector w/battery backup FGD-0049-B
Humidistat Humidity SwitchFGD-0027	Surge Suppressor for Power and PhoneFGD-0067
Magnetic Reed Door & Window SwitchFGD-0006	Dual Setback ThermostatFGD-0064
Spot Water Detection Sensor FGD-0013	Bluetooth Cell Phone Interface.FGD-0230

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APPENDIX B-2

Soil Vapor Extraction System Design Calculations

Soil Vapor Extraction System Design Calculations Former Speedway No. 6442, Pompano Beach, Florida

In 2005, the SVE ROI was evaluated using vapor extraction well VW-4. The data indicated an ROI of approximately 14 feet was achievable when applying a vacuum of 18 in-water to the well head of VW-4 at a flow rate of 25 cfm. Due to the limited extent of hydrocarbon impacted soil, an 18-foot ROI is being used for this design with considerable overlapping within the source areas.

There are 11 SVE wells planned for this site and the anticipated flow rate for the SVE system is:

$$(11 \text{ wells}) \times (25 \text{ scfm/well}) = 275 \text{ scfm}$$

Calculation of Design Vacuum

The design vacuum will consist of the required suction at the wellheads (18 in-water) plus the friction losses in the piping, valves, etc. The maximum friction loss will be experienced at the farthest extraction well from the equipment compound (VW-35), where the flow rate will be 25 scfm and the manifold piping will be 2-inches in diameter. The friction loss per 10 feet of pipe can be estimated from the attached graph. For 25 scfm in a 2-inch pipe, the friction loss factor is 0.1 in-water per 10 feet of 2-inch pipe. Inside the equipment enclosure, the flow for the 11 SVE wells will be manifolded into one 4-inch line (total flow 275 scfm) with a friction loss factor of 0.4 in-water per 10 feet of 4-inch pipe. The maximum friction loss will be experienced at well VW-35 as follows:

Well VW-35 to Equipment Enclosure:

Friction loss, 2-inch pipe to Enclosure (174 ft/10 x 0.1")	=	1.74 in-water
Friction loss, six 2-inch elbows (30 ft/10 x 0.1")	=	0.30 in-water
Friction loss, one 2-inch branch T (10.5 ft/10 x 0.1")	=	0.11 in-water

Combined flow inside Equipment Enclosure:

Friction loss, six 4-inch elbows (60 ft/10 x 0.4")	=	2.4 in-water
Friction loss, air/water separator (see cut sheet)	=	0.50 in-water
Friction loss, one 4-inch branch T (20 ft/10 x 0.4")	=	0.8 in-water
Friction loss, 30 feet of 4-inch lateral pipe (30 ft/10 x 0.4")	=	1.2 in-water
Friction Loss, Carbon Drums (Two 1,000 lb. vessels)	=	<u>10 in-water</u>
TOTAL FRICTION LOSS	=	17.1 in-water

Total suction = 18 in-water (at wellheads) + 17.1 in-water (friction loss) = 35.1 in-water
20% Safety factor = 7.0 in-water

Total suction 42 in-water

The design flow is 275 cfm with a vacuum of 42 in-water. A Rotron Blower Model EN909 with an explosion-proof, 3-phase, 15-HP motor (cutsheet attached) was selected for the design.

Soil Vapor Extraction System Design Calculations (Continued)
Former Hess No. 09334, Fort Myers, Florida

The ratio of sparge to SVE = $\frac{\text{Sparge flow (scfm)}}{\text{SVE flow (scfm)}} = \frac{130 \text{ scfm}}{275 \text{ scfm}} = 0.47$

The ratio of sparge air to extracted air is within the acceptable limit of 0.2 to 0.8.

Calculating System Friction Loss

Friction causes pressure loss in all systems. Plumbing design and length affect this loss in air flow.

1. Determine total straight pipe equivalent.

List number of each fitting in system. Circle the column under the supply pipe size. Multiply the number of each item by the pipe size conversion factor to find the equivalent amount of straight pipe. Add equivalent figures to actual straight pipe figures.

Friction loss in pipe fittings equivalent length of straight pipe

Fitting	#	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	Equivalent Ft.
90° Elbows	___x	2.0	3.0	3.5	4.0	5.0	6.0	8.0	10.0	12.6	= _____
Std. through tees	___x	1.5	2.0	2.5	3.0	3.5	4.0	5.0	7.0	8.4	= _____
Std. branch tees	___x	4.0	5.0	7.0	8.0	10.5	12.5	15.5	20.0	25.2	= _____
Check valves	___x	7.0	9.0	11.5	13.5	17.0	20.5	25.5	34.0	42.0	= _____
Gate Valves	___x	0.55	0.7	0.9	1.0	1.5	2.0	2.0	3.0	3.4	= _____

Total length of straight pipe = _____ ft.

Total straight pipe equivalent = _____ ft.

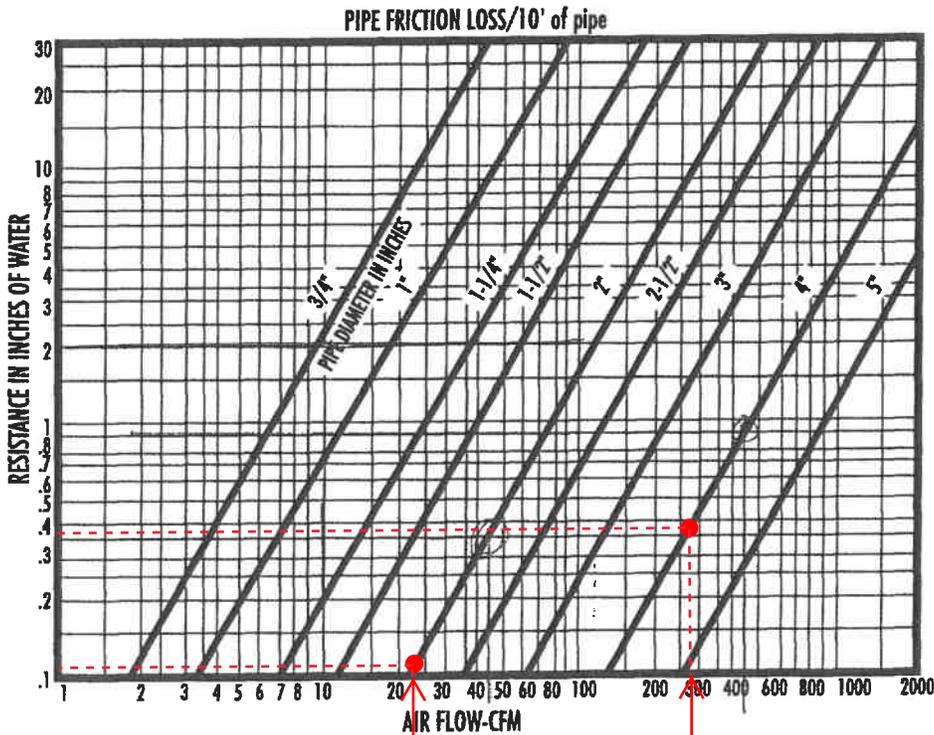
2. Determine total friction loss in pipe system.

On bottom line of the pipe friction loss chart, mark the air flow needed. Using a ruler, scan vertically from the CFM figure to the diagonal line for the proper pipe size. Mark the intersection and then scan to the left (vertical) axis to find the friction loss figure.

Soil Vapor Extraction

275 cfm
4" f = 0.9

25 cfm/well
2" f = 0.1



3. Divide the Total straight pipe equivalent from step 1 by 10; multiply by friction loss figure just determined to get the total friction loss in the pipe system.

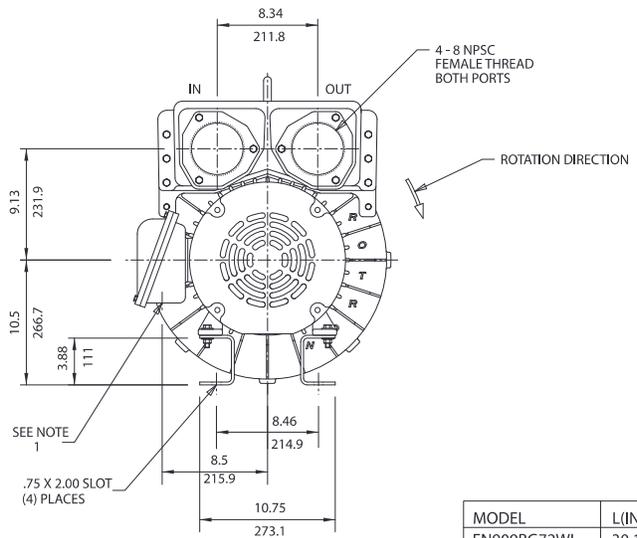
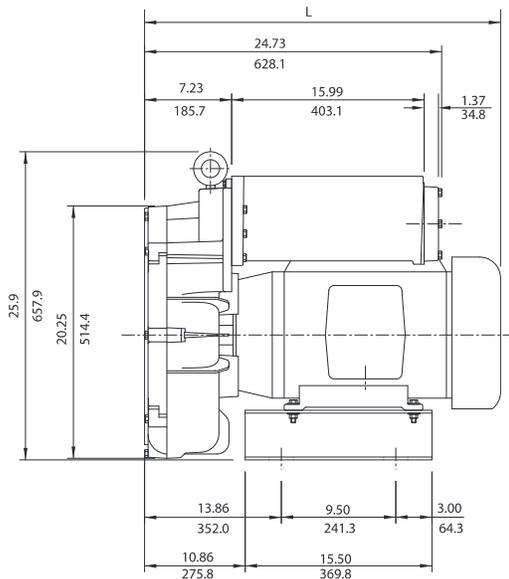
$$\frac{\text{Total feet of pipe in system}}{\div 10} \times \text{Friction loss factor} = \text{Total friction loss in system in inches of H}_2\text{O}$$

Environmental / Chemical Processing Blowers

EN 909 & CP 909

10.0 / 15.0 HP Sealed Regenerative w/Explosion-Proof Motor

ROTRON®



IN
MM

- NOTES
- 1 TERMINAL BOX CONNECTOR HOLE 1 1/4" NPT FEMALE THREAD.
 - 2 DRAWING NOT TO SCALE, CONTACT FACTORY FOR SCALE CAD DRAWING.
 - 3 CONTACT FACTORY FOR BLOWER MODEL LENGTHS NOT SHOWN.

MODEL	L(IN/MM)
EN909BG72WL	30.17/766.3
EN909DB72WL	23.66/601.0

Specification	Units	Part/Model Number			
		EN909BG72WL 081741	EN909BG86WL 081736	EN909BD72WL 081743	CP909GA72WLR 038982
Motor Enclosure - Shaft Mt.	-	Explosion-proof-CS	Explosion-proof-CS	Explosion-proof-CS	CHEM XP-SS
Horsepower	-	15	15	10	15
Phase - Frequency	-	Three-60 hz	Three-60 hz	Three-60 hz	Three-60 hz
Voltage	AC	230/460	575	230/460	230/460
Motor Nameplate Amps	Amps (A)	36/18	14.4	24/12	36/18
Max. Blower Amps	Amps (A)	48/24	18	32/16	48/24
Locked Rotor Amps	Amps (A)	240/120	100	234/117	240/120
Service Factor	-	2/2	2	2/1	2/2
Starter Size	-	1.0	1.0	1.0	1.0
Thermal Protection	-	Class B - Pilot Duty			
XP Motor Class - Group	-	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G
Shipping Weight	Lbs	524	524	504	524
	Kg	237.7	237.7	228.6	237.7

Voltage - ROTRON motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: **208-230/415-460 VAC-3 ph-60 Hz** and **190-208/380-415 VAC-3 ph-50 Hz**. Our dual voltage 1 phase motors are factory tested and certified to operate on both: **104-115/208-230 VAC-1 ph-60 Hz** and **100-110/200-220 VAC-1 ph-50 Hz**. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

Operating Temperatures - Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

Maximum Blower Amps - Corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

XP Motor Class - Group - See Explosive Atmosphere Classification Chart in Section I

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Sales department.

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Customer Service Fax: +1 215.256.1338
www.ametekdfs.com

FEATURES

- Manufactured in the USA - ISO 9001 and NAFTA compliant
- Maximum flow: 615 SCFM
- Maximum pressure: 140 IWG
- Maximum vacuum: 112 IWG
- Standard motor: 15 HP, explosion-proof
- Cast aluminum blower housing, impeller, cover & manifold; cast iron flanges (threaded); teflon® lip seal
- UL & CSA approved motor with permanently sealed ball bearings for explosive gas atmospheres Class I Group D minimum
- Sealed blower assembly
- Quiet operation within OSHA standards

MOTOR OPTIONS

- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepower for application-specific needs

BLOWER OPTIONS

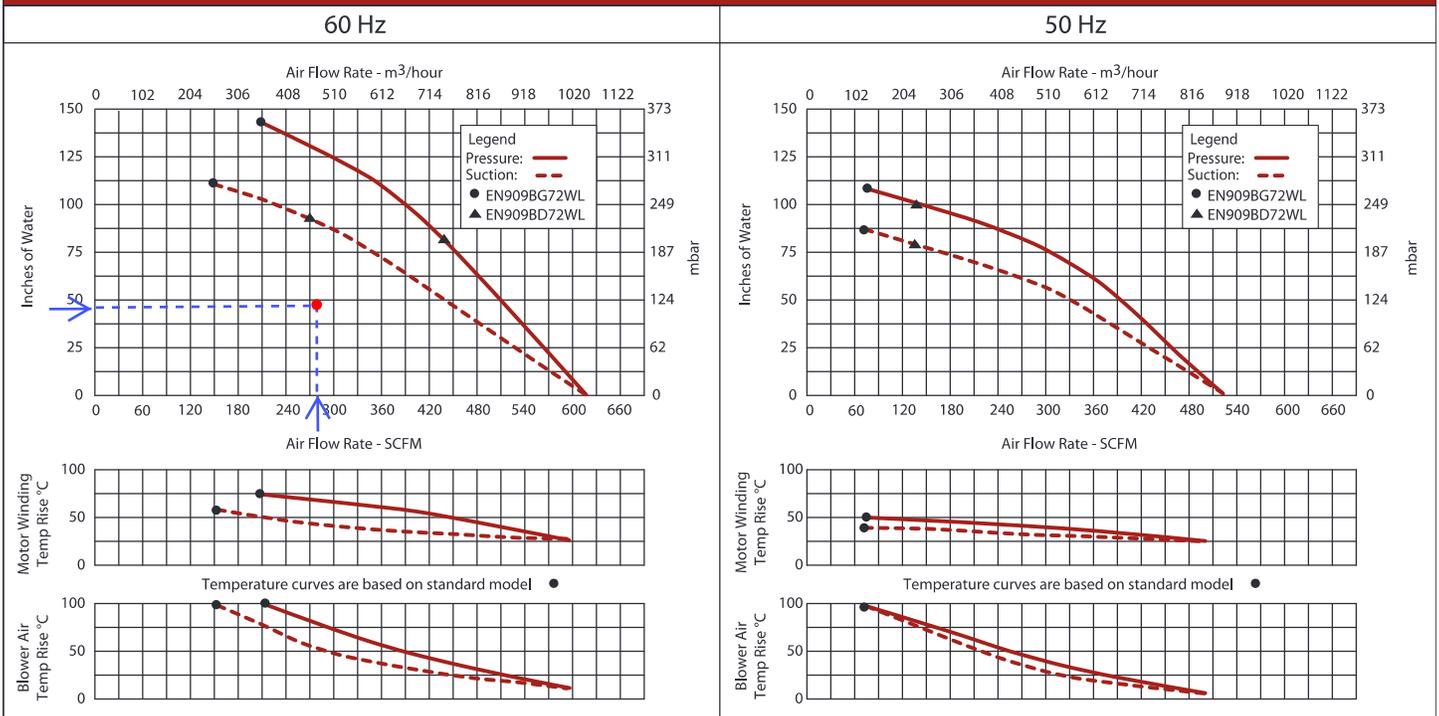
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

ACCESSORIES

- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges, & relief valves
- Switches - air flow, pressure, vacuum, or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)
- Variable frequency drive package



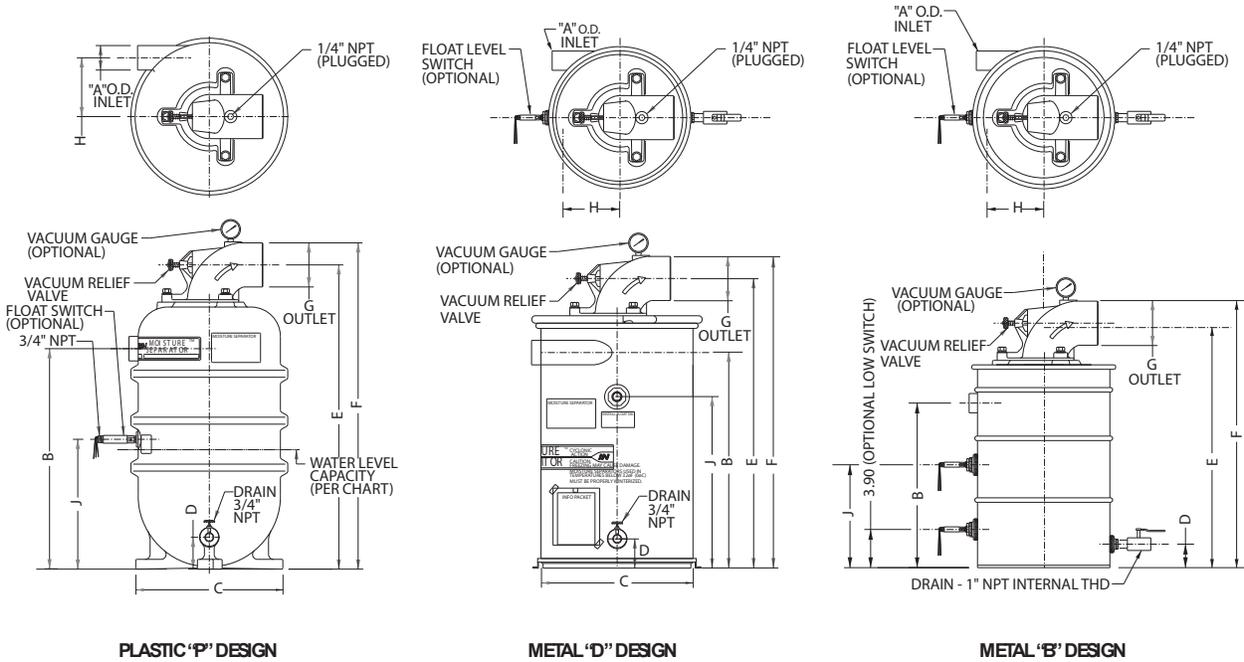
Blower Performance at Standard Conditions



This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Sales department.

By separating and containing entrained liquids, ROTRON'S™ moisture separator helps protect our regenerative blowers and the end treatment system from corrosion and mineralization damage. Recommended for all soil vacuum extraction applications.

SPECIFICATIONS:
 SEPARATION METHOD – High Efficiency Cyclonic
 RELIEF VALVE MATERIAL – Brass & Stainless Steel
 FLOAT MATERIAL – Copper
 FLOAT SWITCH – SPDT, Explosion-proof
 NEMA 7&9, 5 Amp max.



Models without float switch available. Metal MS200/300DS models are not the standard stocked, but are available.

Specification	Units	Part/Model Number							
		MS200PS	MS300PS	MS200DS	MS300DS	MS350BS	MS500BS	MS600BS	MS1000BS
		038519	038520	080086	080087	038357	080660	080659	038914
Dimension A	Inches	2.38	2.88	2.00	2.50	3.25	3.25	4.00	6.00
	mm	60.5	73.2	50.8	63.5	82.6	82.6	101.6	152.4
CFM Max.	CFM	200	300	200	300	350	500	600	1000
	m3/hr	340	510	340	510	595	850	1020	1700
Dimension B	Inches	22.46	22.46	22.12	22.12	28.00	28.00	27.00	31.00
	mm	570.5	570.5	561.8	561.8	711.2	711.2	685.8	787.4
Dimension C	Inches	16.00	16.00	16.75	16.75	23.00	23.00	23.00	27.00
	mm	406.4	406.4	425.5	425.5	584.2	584.2	584.2	685.8
Dimension D	Inches	3.25	3.25	2.75	2.75	4.00	4.00	4.00	4.00
	mm	82.6	82.6	69.9	69.9	101.6	101.6	101.6	101.6
Dimension E	Inches	31.05	31.05	27.92	27.92	37.25	37.37	37.37	47.32
	mm	788.7	788.7	709.2	709.2	946.2	949.2	949.2	1201.9
Dimension F	Inches	33.30	33.30	30.17	30.17	39.50	54.50	54.50	51.70
	mm	845.8	845.8	766.3	766.3	1003.3	1384.3	1384.3	1313.2
Dimension H	Inches	6	6.00	6.56	6.81	9.75	9.75	9.25	10.00
	mm	152.4	152.4	166.6	173	247.7	247.7	235	254
Dimension G	Inches	4.50 OD	4.50 D	4.50 D	4.50 OD	4.50 OD	6.63 ID	6.63 ID	8.62 OD
	mm	114.3	114.3	114.3	114.3	114.3	168.4	168.4	218.9
Dimension J	Inches	13.25	13.25	12.62	12.62	17.50	17.50	17.50	19.88
	mm	336.6	336.6	320.5	320.5	444.5	444.5	444.5	505
Drain Internal Thd	-	3/4	3/4	3/4	3/4	1	1	1	1
Shipping Weight	Lbs	42	42	42	42	82	95	96	150
	Kg	19.1	19.1	19.1	19.1	37.2	43.1	43.5	68

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AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
 75 North Street, Saugerties, NY 12477
 USA: +1 215-256-6601 - Europe: +44 (0) 845 366 9664 - Asia: +86 21 5763 1258
 Customer Service Fax: +1 215.256.1338
 www.ametektip.com

2.0 Moisture Separator™ Specifications

2.1 Duty

The moisture separator shall be designed for use in a soil vapor extraction system capable of continuous operation with a pressure drop of less than six inches of water at the rated flow of ____ SCFM. The separator shall be capable of operation under various inlet conditions ranging from a fine mist to slugs of water with high efficiency.

2.2 Principle of Operation

The moisture separator shall incorporate cyclonic separation to remove entrained water. The separator must protect against an overflow by fail safe mechanical means. An electrical switch or contact(s) alone is not an acceptable means of protection against overflow, but is a good backup.

2.3 Construction

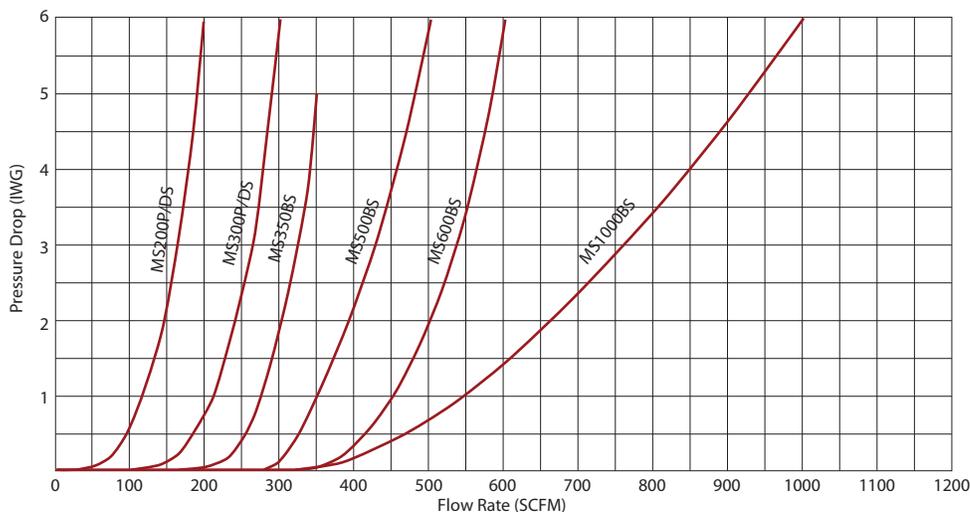
The body of the moisture separator shall be constructed of heavy wall plastic or heavy gauge cold rolled steel. The steel interior and exterior shall be epoxy (powder) coated to resist abrasion, corrosion, and chipping that might expose the surface. The inlet shall be tangentially located and welded to the body. The outlet port shall be constructed of PVC or cast aluminum alloy, flanged and sealed to the center of the top of the separator. The separator shall incorporate a non-sparking copper float ball and an adjustable relief valve to protect against overflow and overheating the blower.

For DR/EN/CP Blower Model	Selector Moisture Separator Model	Liquid-holding Capacity (gallons)	Inlet (OD)	Outlet	Max Vacuum Allow (IHG)
404 454 505 513 523 555 633 833	MS200PS	7	2.38	4.5 OD	12
656 6 757	MS200DS	10	2.0		22
808	MS300PS	7	2.88		12
6 757	MS300DS	10	2.5		6.63 ID
808	MS350BS	40	3.25		
858 1233	MS500BS				
909	MS600BS	4.0			
979 14	MS1000BS	65	6.0	8.62 OD	

2.4 Capacity and Dimension

The moisture separator must have a liquid capacity of ____ gallons. The inlet shall be ____ inch OD slip-on type. The outlet shall be ____ inch OD slip-on type.

2.5 Pressure Drop



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APPENDIX B-3

Contaminant Mass Calculations

Contaminant Mass Calculation
Former Speedway No. 6442, Pompano Beach, Florida

1.) Soil Mass Calculation

The soil laboratory analytical results from previous assessments were used to estimate contaminant mass in the soil. Based on the data, hydrocarbon impacted vadose zone soil is no longer present in the vicinity of the UST area. Hydrocarbon impacted vadose zone soil remains present in the vicinity of the former southeastern dispenser island. While the February 2018 source removal was effective at removing approximately 66 tons of impacted soil in the vicinity of the southeastern dispenser island, the excavation was limited to a depth of 8 feet bls (which was above the water table). The excavation was also limited to the west due to the presence of the canopy footer. Based on the soil samples collected from the west wall and base of the excavation, vadose zone impacts remain beneath 8 feet bls in the location of the source removal and to the west of the former dispenser island. The impacted soil zone is assumed to be approximately four feet thick on the eastern side of the cylindrical plume where the excavation was performed and approximately 8 feet thick on the western side where the presence of the canopy footer hindered the removal of impacted soil. The plume is depicted on **Figure 2C**.

TRPH data from the samples collected from the sidewalls of the February 2018 excavation from sample "W-Wall" at 8 feet bls (3,190 mg/kg) and sample "Base" at 8 feet bls (2,160 mg/kg) were averaged and used to estimate the mass of petroleum hydrocarbons in the soil.

The total average concentration of TRPH was calculated as follows:

$$\frac{(3190 \text{ mg/kg} + 2160 \text{ mg/kg})}{2} = 2,675 \text{ mg/kg}$$

Assuming a soil density value of 45 kg/ft³, the mass of hydrocarbons in the vadose-zone impacts is calculated as follows:

The area of impacted soil within the proposed treatment area (**Figure 2C**) is:

$$\text{Area of plume: } [(14 \text{ ft} + 24 \text{ ft}) / 2]^2 \times \pi = 284 \text{ ft}^2$$

Mass (east side; area excavated to 8 feet bls; two-thirds plume):

$$(284 \text{ ft}^2 \text{ Area} \times 2/3) \times (4.0 \text{ ft thick}) \times (2,675 \text{ mg/kg}) \times (0.80 \text{ porosity}) \times (45 \text{ kg/ft}^3) = 72,931,200 \text{ mg of hydrocarbons}$$

Mass (west side; area not excavated to depth; one-third plume):

$$(284 \text{ ft}^2 \text{ Area} \times 1/3) \times (8.0 \text{ ft thick}) \times (2,675 \text{ mg/kg}) \times (0.80 \text{ porosity}) \times (45 \text{ kg/ft}^3) = 72,931,200 \text{ mg of hydrocarbons}$$

$(72,931,200 \text{ mg} + 72,931,200 \text{ mg}) \times (2.2 \times 10^{-6} \text{ lb/mg}) = 321 \text{ lbs hydrocarbons in the soil}$

2.) Groundwater Mass Calculation

The groundwater laboratory analytical results from the February 2020 sampling event were used to estimate contaminant mass in the groundwater. The impacted zone of groundwater is assumed to be approximately 38 feet thick (38 feet is the thickness of the water column in the proposed treatment area). The groundwater impacts are depicted on **Figures 3A** and **Figure 3B**.

Total area of impacted groundwater: approximately 3,500 ft²

Volume of plume =

$$(3500 \text{ ft}^2 \text{ area of plume}) \times (0.20 \text{ porosity}) \times (38 \text{ ft thickness of plume}) = 26,660 \text{ ft}^3$$

The BTEX and Total Naphthalenes concentrations from monitoring wells MW-18, MW-19, and DW-3 are:

	<u>Well</u>	<u>BTEX & Naps</u>
2/25/20	MW-18	3,509 µg/L
2/25/20	MW-19	12,039 µg/L
2/25/20	DW-3	33 µg/L

Average BTEX & Total Naphthalene Concentration =

$$\frac{3,509 \mu\text{g/L} + 12,039 \mu\text{g/L} + 33 \mu\text{g/L}}{3} = 5,194 \mu\text{g/L}$$

$$\begin{aligned} \text{Mass of contaminants} &= (26,660 \text{ ft}^3) \times (7.48 \text{ gal/ft}^3) \times (3.785 \text{ L/gal}) \times (5,194 \mu\text{g/L}) \\ &= 3,920,392,703 \mu\text{g} = 3,920,393 \text{ mg} \end{aligned}$$

$$(3,920,393 \text{ mg}) \times (2.2 \times 10^{-6} \text{ lb/mg}) = 8.6 \text{ lbs hydrocarbons in the groundwater.}$$

Total estimated mass of hydrocarbons in the subsurface soil and groundwater:

$$321 \text{ lbs of hydrocarbons in the soil} + 8.6 \text{ lbs in the groundwater} = \mathbf{330 \text{ lbs}}$$

APPENDIX B-4

Soil Vapor Extraction Off-gas Treatment Design Calculations

SVE Offgas Treatment Design Calculations Former Speedway No. 6442, Pompano Beach, Florida

Hydrocarbon Mass Calculation

Source removal activities were performed in conjunction with the closure of the UST system in February 2018. Approximately 802 tons of soil were removed from the UST area and 66 tons of impacted soil were removed from the southeast dispenser area for offsite disposal. Based on the calculations provided in **Appendix A**, approximately 330 pounds of hydrocarbons remain in the soil and groundwater.

SVE Off-gas Treatment

Following reactivation of the modified AS/SVE remediation system in May 2006 and January 2012, air samples collected from the influent vapor stream (pre-carbon treatment) indicated the recovered vapors reduced to below 13.7 lb/day within one month of treatment. Earth Systems anticipates a similar response with the proposed system and will utilize carbon to treat the recovered vapors. A thermal/catalytic oxidation unit was considered for treatment but is not a cost-effective technique given the anticipated hydrocarbon recovery rate and treatment will likely be discontinued after one month.

Vapor-phase carbon units.

Based on the source removal activities performed in February 2008 and estimated 330 pounds of hydrocarbons remaining in the subsurface Earth Systems recommends vapor phase activated carbon treatment for the first 30 days of remediation system operation. Earth Systems assumes the hydrocarbon concentrations in the influent air will decrease by 30 percent each week after startup. Assuming the vapors recovered during the first week of treatment is 120 lbs (17 lb/day), the amount of carbon required during the four-week period will be:

Week 1 = $17.1 \text{ lbs/day} \times 7 \text{ days} / 20\% \text{ carbon efficiency} = 600 \text{ lbs carbon (120 lbs TRPH)}$

Week 2 = $12.0 \text{ lbs/day} \times 7 \text{ days} / 20\% \text{ carbon efficiency} = 420 \text{ lbs carbon (84 lbs TRPH)}$

Week 3 = $8.4 \text{ lbs/day} \times 7 \text{ days} / 20\% \text{ carbon efficiency} = 294 \text{ lbs carbon (59 lbs TRPH)}$

Week 4 = $5.9 \text{ lbs/day} \times 7 \text{ days} / 20\% \text{ carbon efficiency} = 206 \text{ lbs carbon (41 lbs TRPH)}$

Total Estimated Carbon Usage for 28 days = 1,520 lbs carbon

Total TRPH removed after 4 weeks of treatment = 304 lbs carbon

Since the hydrocarbon loading rate is expected to reduce to less than 13.7 lb/day during the first month of operation, Earth Systems recommends installing two 1,000-lb Carbon Service and Equipment Company (CSEC) Model Air 1000 vapor phase activated carbon vessels to treat the offgas. If the hydrocarbon recovery rate reduces to below 13.7 lbs/day after 30 days of treatment, the vessels can be removed and the effluent can discharge to the atmosphere.

AIR 1000

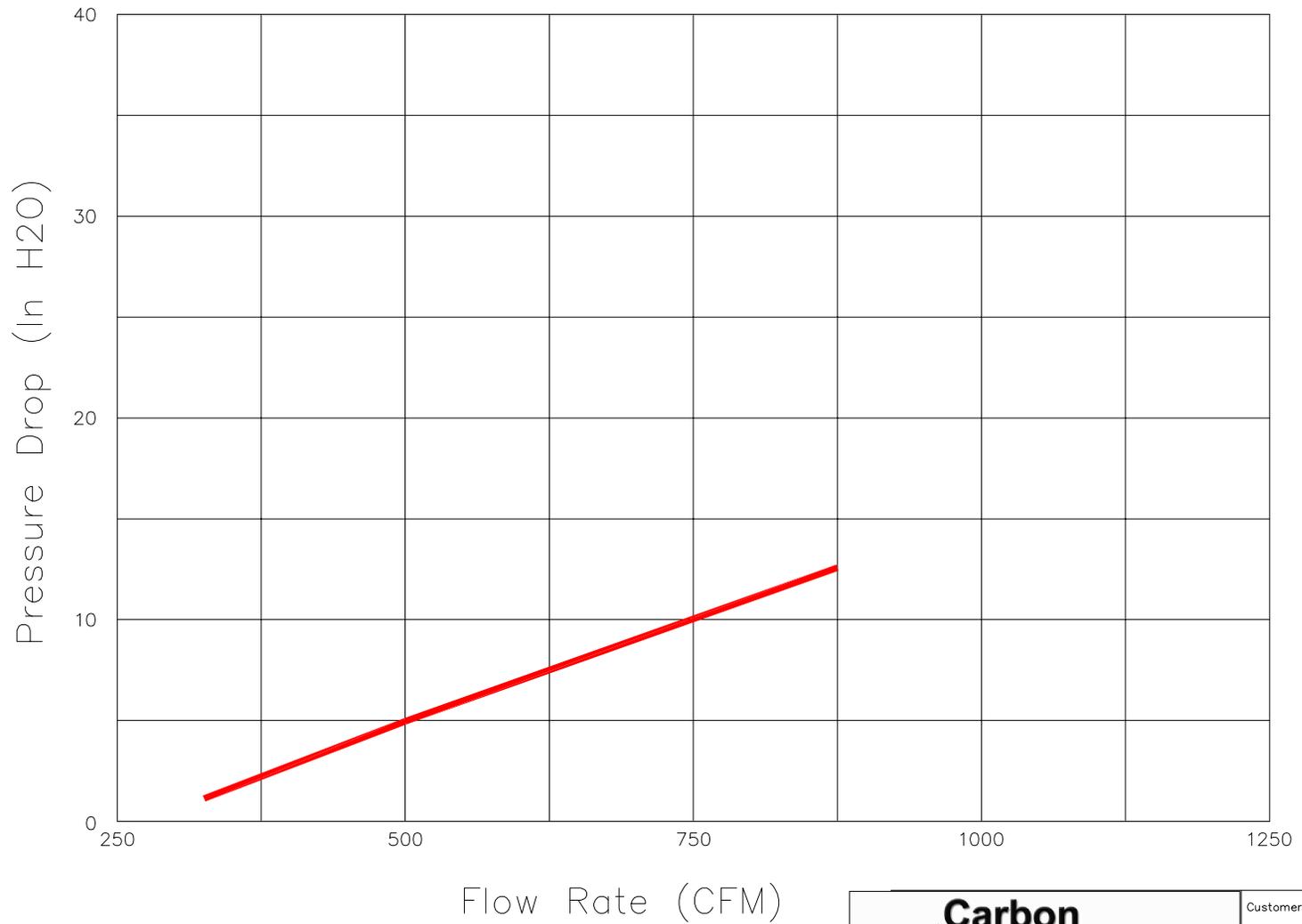


- Diameter: 46”
- Overall Height: 93”
- Maximum Operating:
 - Pressure: 15 psig
 - Temperature: 140°F
- Standard Carbon Fill: 1000 lbs.
- Lined Carbon Steel
- 8”connections

Please note: Standard specifications are current at the time of purchase and are subject to change without notice.
For the latest standard specifications contact the nearest sales office. Specifications are approximate.

• PO Box 305 Eighty Four, PA 15330 • (724) 222.3334 / Fax:(724) 222.4090 •
• PO Box 618102 Orlando, FL 32861 • (407) 313.9113 / Fax:(407) 313.9114 •
• PO Box 1062 Chapin, SC 29036 • (803) 447.0888 •

Air 1000 Pressure Drop Curve



Customer:
Customer's job:
Drawn by CBH
9/27/12

Scale

PDC AIR 1000V2

APPENDIX C

Calculations using BPSS Milestone Model

MILESTONE SCHEDULE

Facility Name	Speedway 6442
Facility ID #	06/8502103

Baseline Sampling Date	2/25/2020
System Startup Date	TBD

Baseline Constituent Concentrations (ug/l)														
Contaminant Group Per March 1, 2004 RAI		Group 1	Group 2				Group 3				Group 4	Group 5	Group 6	Group 7
Milestone Well #	Monitoring Wells	Benzene	Toluene	Ethylbenzene	Xylenes	Sum TEX	Naphthalene	1-Methyl Naph.	2-Methyl Naph.	Sum Naphs	MTBE	TRPH	PAH (I) ¹	PAH (II) ²
First Well	MW-18	92.6	41.2	1660	668	2369	664	176	248	1088	36.7	7080		
Second Well	MW-19	164	2570	1070	7810	11450	314	43.7	67.3	425	3.67	11700		
Third Well														
Fourth Well														
Fifth Well						0				0				
Sixth Well						0				0				

Defined Cleanup Target Levels (ug/l)											
Contaminant Group Per March 1, 2004 RAI		Group 1	Group 2			Group 3		Group 4	Group 5	Group 6	Group 7
Cleanup Target		Benzene	Sum: Toluene, Ethylbenzene, Total Xylenes			Sum: Naphthalenes		MTBE	TRPH	PAH (I) ¹	PAH (II) ²
Groundwater Cleanup Target Level (ug/l)		1	90			70		20	5000		
Natural Attenuation Default Conc. (ug/l)		100	900			700		200	50000		
70% Natural Attenuation Default Conc. (ug/l)		70	630			490		140	35000		
90% Baseline Reduction (ug/l)											
First Well	MW-18	9	237			109		4	708	0	0
Second Well	MW-19	16	1145			43		0	1170	0	0
Third Well	0	0	0			0		0	0	0	0
Fourth Well	0	0	0			0		0	0	0	0
Fifth Well	0	0	0			0		0	0	0	0
Sixth Well	0	0	0			0		0	0	0	0

Selected Active Remediation Goal

Groundwater Cleanup Target Level (ug/l) ▼

Estimated Active Remediation Time **2.0 years**

Milestones are based on pre-startup baseline sampling per Section C.2 of the March 1, 2004 FDEP RAI.

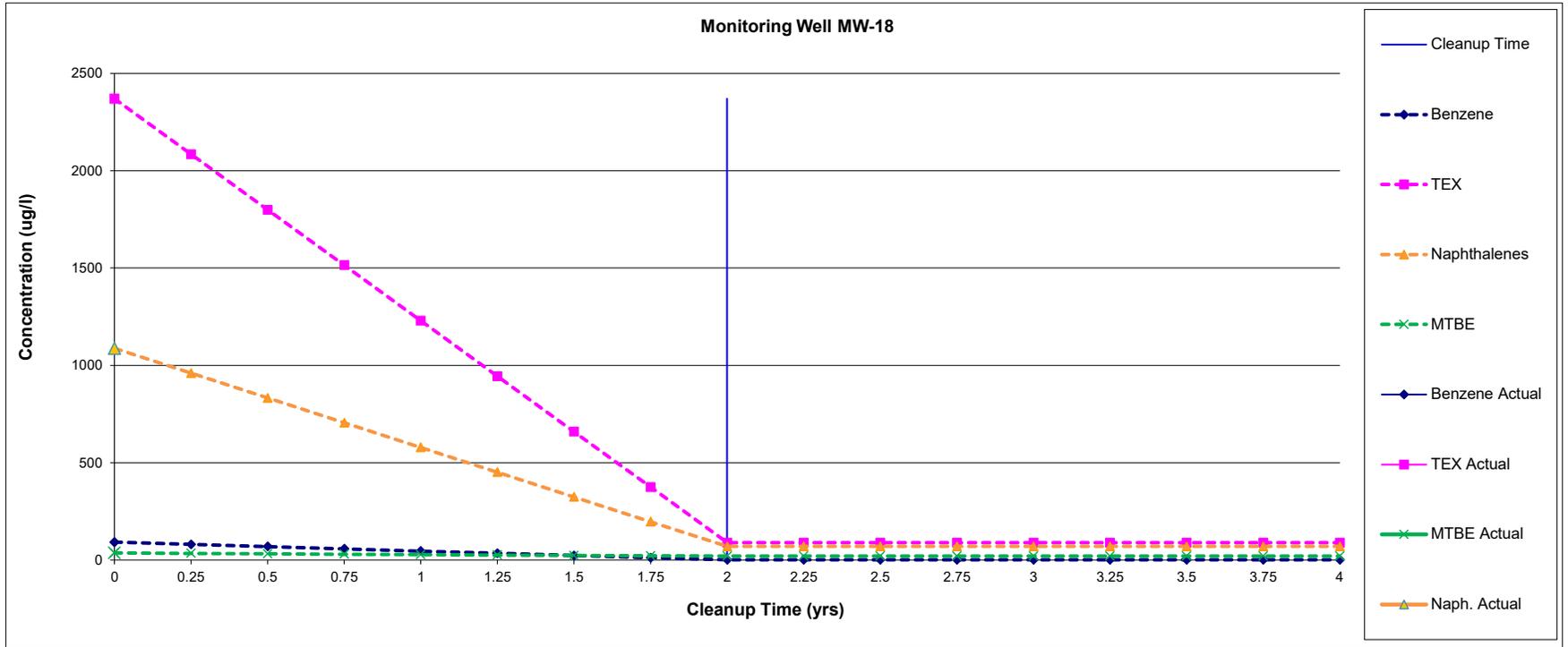
Groundwater Cleanup Target Levels and Natural Attenuation Default Concentrations (NADC) as established in Chapter 62-777, F.A.C.

¹Sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Chrysene, and Indeno(1,2,3-cd)pyrene.

²Sum of other PAH's not included in Group 3 or Group 6

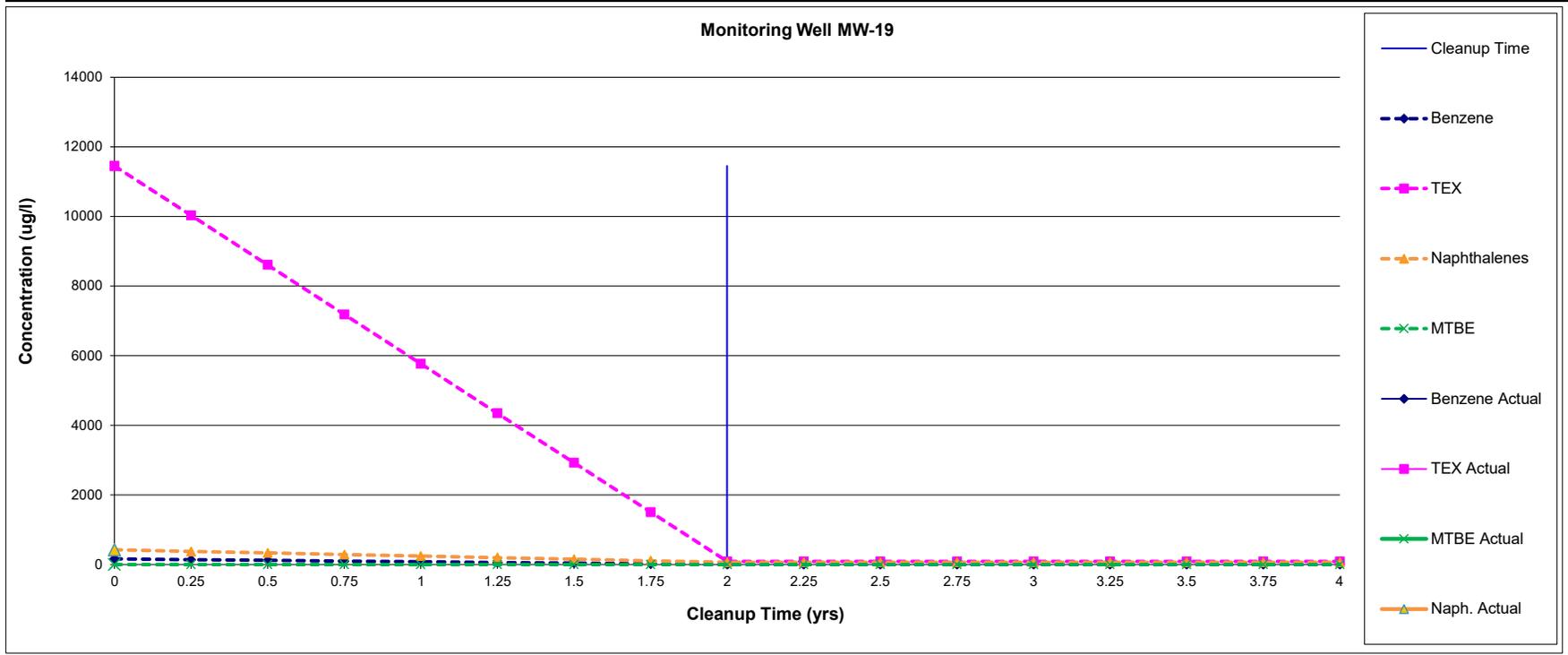
Monitoring Well MW-18	Facility Name	Speedway 6442	Baseline Sampling Date	2/25/2020
	Facility ID #	06/8502103	System Startup Date	TBD

Constituent Concentration Group Milestones (ug/l)																
Projected Cleanup Time (yrs)	Actual Sampling Date	Actual Cleanup Time (yrs)	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6		Group 7	
			Benzene		Sum Toluene, Ethylbenzene, & Xylenes		Naphthalenes		MTBE		TRPH		PAH (I)		PAH (II)	
			Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual
0.00	2/25/2020	0.00	93	92.6	2,369	2369.2	1,088	1088	37	36.7	7,080	7080	NA	NA	NA	NA
0.25			81		2084		961		35		6820					
0.50			70		1799		834		33		6560					
0.75			58		1515		706		30		6300					
1.00			47		1230		579		28		6040					
1.25			35		945		452		26		5780					
1.50			24		660		325		24		5520					
1.75			12		375		197		22		5260					
2.00			1		90		70		20		5000					
2.25			1		90		70		20		5000					
2.50			1		90		70		20		5000					
2.75			1		90		70		20		5000					
3.00			1		90		70		20		5000					
3.25			1		90		70		20		5000					
3.50			1		90		70		20		5000					
3.75			1		90		70		20		5000					
4.00			1		90		70		20		5000					
Remediation Goal (ug/l)			1		90		70		20		5000		0		0	



Monitoring Well MW-19	Facility Name	Speedway 6442	Baseline Sampling Date	2/25/2020
	Facility ID #	06/8502103	System Startup Date	TBD

Constituent Concentration Group Milestones (ug/l)																
Projected Cleanup Time (yrs)	Actual Sampling Date	Actual Cleanup Time (yrs)	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6		Group 7	
			Benzene		Sum Toluene, Ethylbenzene, & Xylenes		Naphthalenes		MTBE		TRPH		PAH (I)		PAH (II)	
			Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual	Proj.	Actual
0.00	2/25/2020	0.00	164	164	11,450	11450	425	425	4	3.67	11,700	11700	NA	NA	NA	NA
0.25			144		10030		381				10863					
0.50			123		8610		336				10025					
0.75			103		7190		292				9188					
1.00			83		5770		248				8350					
1.25			62		4350		203				7513					
1.50			42		2930		159				6675					
1.75			21		1510		114				5838					
2.00			1		90		70				5000					
2.25			1		90		70				5000					
2.50			1		90		70				5000					
2.75			1		90		70				5000					
3.00			1		90		70				5000					
3.25			1		90		70				5000					
3.50			1		90		70				5000					
3.75			1		90		70				5000					
4.00			1		90		70				5000					
Remediation Goal (ug/l)			1		90		70		20		5000		0		0	



APPENDIX D

Estimated Costs - Draft Schedule of Pay Items

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

Facility Name: SPEEDWAY #6442
 7-Digit Facility ID #: 8502103
 County: 06
 Region: South
 Site Manager Name: DAVID SINGLETON
 Site Manager Phone: (954)519-1429
 Site Manager Email: dsingleton@broward.org

Contractor: Earth Systems, Inc.
 CID #: 00299 Retainage %: 5% Purchase Order: _____
 Contract #: GC848 FDEP Cost Share %: 100.00% Download Date: 11/13/19 15:51
 SPI ID #: 17309 Total Extended Cost: \$ 216,826.09 Assignment Type: SCOPE
 Without Handling Fee: \$ 215,014.69
 Transition Agreement: Yes No

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	UNITS	PO Rate Sheet		Previously Invoiced	This Invoice		Balance
				NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 1									
1-2.a.	Site Health & Safety Plan for Continued Work (no cost to FDEP)	Per Site	1	\$ -	\$ -	0	0	\$ -	1
		RETAINAGE			\$ -	\$ -		\$ -	\$ -
		SUBTOTAL			\$ -	\$ -		\$ -	\$ -
Task 2									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	500	\$ 1.00	\$ 500.00	0	0	\$ -	500
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	27700	\$ 0.06	\$ 1,662.00	0	0	\$ -	27700
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	15	\$ 405.16	\$ 6,077.40	0	0	\$ -	15
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	1	\$ 578.81	\$ 578.81	0	0	\$ -	1
3-4.	Heavy Duty/Stakebed Truck (3/4 ton +) - > 100 miles each way	Per Round Trip	4	\$ 810.33	\$ 3,241.32	0	0	\$ -	4
3-6.	Work Trailer - > 100 miles each way	Per Round Trip	4	\$ 347.28	\$ 1,389.12	0	0	\$ -	4
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	2	\$ 1,018.71	\$ 2,037.42	0	0	\$ -	2
3-18.	Mini Excavator/Loader (Bobcat™) Mobilization - > 100 miles each way	Per Round Trip	2	\$ 463.05	\$ 926.10	0	0	\$ -	2
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	60	\$ 80.00	\$ 4,800.00	0	0	\$ -	60
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	1	\$ 230.00	\$ 230.00	0	0	\$ -	1
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	470	\$ 24.87	\$ 11,688.90	0	0	\$ -	470
5-12.	HSA or MR Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	165	\$ 34.72	\$ 5,728.80	0	0	\$ -	165
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	470	\$ 38.38	\$ 18,038.60	0	0	\$ -	470
6-3.a.	Well Installation - 4 inch diameter (vertical)	Per Foot	165	\$ 45.90	\$ 7,573.50	0	0	\$ -	165
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	8	\$ 255.00	\$ 2,040.00	0	0	\$ -	8
8-6.	Soil/Sediment Sample Collection	Per Sample	2	\$ 130.00	\$ 260.00	0	0	\$ -	2
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	1	\$ 62.50	\$ 62.50	0	0	\$ -	1
9-3.	Soil, Volatile Organic Halocarbons (EPA 8021 or EPA 8260)	Per Sample	1	\$ 66.15	\$ 66.15	0	0	\$ -	1
9-6.	Soil, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	1	\$ 81.02	\$ 81.02	0	0	\$ -	1
9-7.	Soil, Priority Pollutant Extractable Organics-Base Neutral and Acid Extractables (EPA 8270 list [e.g., EPA 8081/8082 + EPA 8270])	Per Sample	1	\$ 150.48	\$ 150.48	0	0	\$ -	1
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	1	\$ 52.09	\$ 52.09	0	0	\$ -	1
9-10.	Soil, 8 RCRA Metals (EPA 6010 or EPA 6020 [Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver] and EPA 6020 or EPA 7471 [Mercury])	Per Sample	1	\$ 72.92	\$ 72.92	0	0	\$ -	1
9-11.	Soil, Arsenic (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.12	\$ 12.12	0	0	\$ -	1
9-12.	Soil, Cadmium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.12	\$ 12.12	0	0	\$ -	1
9-13.	Soil, Chromium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.12	\$ 12.12	0	0	\$ -	1
9-14.	Soil, Lead (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.12	\$ 12.12	0	0	\$ -	1
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	1	\$ 34.72	\$ 34.72	0	0	\$ -	1

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	9	\$ 43.98	\$ 395.82	0	0	\$ -	9
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	8	\$ 77.70	\$ 621.60	0	0	\$ -	8
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	2	\$ 52.09	\$ 104.18	0	0	\$ -	2
9-68.	Air, Total Petroleum Hydrocarbons (EPA Method 18 or TO-3)	Per Sample	9	\$ 80.85	\$ 727.65	0	0	\$ -	9
9-77.	Additional Laboratory % Surcharge authorized in the ATC contract for 1 Day Turnaround. The price should be a total of all standard costs for analysis receiving 1 Day Turnaround in each Task. Enter this price in the Quant. column for the associated task. The rate is the % surcharge authorized in the ATC contract (% surcharge is calculated using the item price, where: \$1.00 = 100%, \$0.75 = 75%, ect.). This will be payable per sample per % surcharge utilizing the dollars as the number of units.	PercentSurcharge	727.65	\$ 1.00	\$ 727.65	0	0	\$ -	727.65
12-1.	Removal and Loading of Asphalt and/or Concrete - up to 4 inch thickness	Per Square Foot	305	\$ 3.17	\$ 966.85	0	0	\$ -	305
12-5.	Transport and Disposal of Mixed Debris	Per Ton	10	\$ 55.12	\$ 551.20	0	0	\$ -	10
12-7.	Transport Petroleum Impacted Soil (bulk) ≤ 100 miles	Per Ton	30	\$ 28.00	\$ 840.00	0	0	\$ -	30
12-9.	Disposal of Petroleum Impacted Soil at a Landfill (bulk) ≤ 450 tons	Per Ton	30	\$ 32.41	\$ 972.30	0	0	\$ -	30
12-17.	Delivery, Pick Up and Rental of 20 Cubic Yard Roll-Off Container	Per Week	3	\$ 937.65	\$ 2,812.95	0	0	\$ -	3
12-18.	Additional Rental of 20 Cubic Yard Roll-Off Container	Per Week	2	\$ 393.75	\$ 787.50	0	0	\$ -	2
13-5.	Crushed Lime Rock Cover - 2 inch thickness	Per Square Foot	2538	\$ 3.30	\$ 8,375.40	0	0	\$ -	2538
15-1.a.	Trenching and Installation of 1-10 Plumbing (and Electrical) Lines in Trench	Per Linear Foot of Trench	279	\$ 46.30	\$ 12,917.70	0	0	\$ -	279
15-1.b.	Trenching and Installation of 11 - 20 Lines	Per Linear Foot of Trench	63	\$ 57.87	\$ 3,645.81	0	0	\$ -	63
15-1.c.	Trenching and Installation of 21 - 30 Lines	Per Linear Foot of Trench	61	\$ 69.45	\$ 4,236.45	0	0	\$ -	61
15-3.	Plumbing and Electrical Materials/Equipment Installed in Trench (If FDEP authorizes, submit quote(s) with Change Order)	Reimbursable*	6000	\$ 1.00	\$ 6,000.00	0	0	\$ -	6000
15-3.a.	Traffic Bearing Trench Plates (materials)	Reimbursable*	2250	\$ 1.00	\$ 2,250.00	0	0	\$ -	2250
15-3.b.	Infiltration Gallery Installation	Reimbursable*	2250	\$ 1.00	\$ 2,250.00	0	0	\$ -	2250
15-4.c.	System Installation/Integration/Startup - 1 Technology Component - 21-30 Recovery/Treatment Points	Per Startup	1	\$ 29,500.00	\$ 29,500.00	0	0	\$ -	1
15-5.	System Installation/Integration/Startup – Addition of 1 Technology Component	Per Additional Tech Component	1	\$ 2,866.50	\$ 2,866.50	0	0	\$ -	1
15-7.	Compound Construction/Fencing (materials)	Reimbursable*	1200	\$ 1.00	\$ 1,200.00	0	0	\$ -	1200
15-9.	Utility Connection	Reimbursable*	12000	\$ 1.00	\$ 12,000.00	0	0	\$ -	12000
19-18.	As-Built Drawings (P.E. Sealed red lined modifications)	Per Drawings	1	\$ 900.00	\$ 900.00	0	0	\$ -	1
19-19.	Remedial Action Startup Report	Per Report	1	\$ 2,415.00	\$ 2,415.00	0	0	\$ -	1
20-3.	Engineer (Key)	Per Hour	1	\$ 109.96	\$ 109.96	0	0	\$ -	1
20-6.	Scientist/Technical Specialist (Key)	Per Hour	3	\$ 92.61	\$ 277.83	0	0	\$ -	3
21-1.	Professional Engineer (Key)	Per Hour	16	\$ 127.33	\$ 2,037.28	0	0	\$ -	16
21-6.c.	P.E. Project Oversight for Remediation System Integration and Startup - Large System	Per System	1	\$ 3,600.00	\$ 3,600.00	0	0	\$ -	1
21-29.	P.E. Review, Evaluation and Certification of As-Built Drawings (P.E. sealed red lined modifications)	Per Set of Drawings	1	\$ 127.33	\$ 127.33	0	0	\$ -	1
22-1.	INITIAL CARBON (2,000 LB)	Reimbursable*	3500	\$ 1.00	\$ 3,500.00	0	0	\$ -	3500
		RETAINAGE			\$ 8,752.86	\$ -		\$ -	\$ 8,752.86
		SUBTOTAL			\$ 175,057.29	\$ -		\$ -	\$ 175,057.29

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 3									
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	2490	\$ 0.06	\$ 149.40	0	0	\$ -	2490
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	4	\$ 405.16	\$ 1,620.64	0	0	\$ -	4
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	8	\$ 255.00	\$ 2,040.00	0	0	\$ -	8
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	1	\$ 62.50	\$ 62.50	0	0	\$ -	1
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	8	\$ 43.98	\$ 351.84	0	0	\$ -	8
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	8	\$ 77.70	\$ 621.60	0	0	\$ -	8
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	2	\$ 52.09	\$ 104.18	0	0	\$ -	2
9-68.	Air, Total Petroleum Hydrocarbons (EPA Method 18 or TO-3)	Per Sample	18	\$ 80.85	\$ 1,455.30	0	0	\$ -	18
17-3.	System O&M Package - Large	Per Month	3	\$ 3,858.75	\$ 11,576.25	0	0	\$ -	3
18-22.	AS/SVE System - Large - Long Term > 6 mos.	Per Month	3	\$ 5,775.00	\$ 17,325.00	0	0	\$ -	3
19-21.	Operation & Maintenance Report, Quarterly or Non-Annual	Per Report	1	\$ 1,680.00	\$ 1,680.00	0	0	\$ -	1
21-8.	P.E. Project Oversight for Remediation System Operation and Maintenance	Per Month	3	\$ 764.03	\$ 2,292.09	0	0	\$ -	3
22-2.	CARBON CHANGEOUT	Reimbursable*	2490	\$ 1.00	\$ 2,490.00	0	0	\$ -	2490
		RETAINAGE			\$ 2,088.44	\$ -		\$ -	\$ 2,088.44
		SUBTOTAL			\$ 41,768.80	\$ -		\$ -	\$ 41,768.80
		TOTAL COST			\$ 216,826.09	\$ -		\$ -	\$ 216,826.09
		Owner Cost Share:			\$ -	\$ -		\$ -	\$ -
		FDEP Cost Share:			\$ 216,826.09	\$ -		\$ -	\$ 216,826.09
		Retainage:			\$ 10,841.30	\$ -		\$ -	\$ 10,841.30
		FDEP Less Retainage:			\$ 205,984.79	\$ -		\$ -	\$ 205,984.79

Version: 11.0

Site Manager Approval: _____
 Print Name

 Signature

 Date of Review Letter